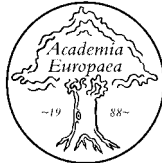


## **ANNUAL TRUSTEE (activity) REPORT**

without individual Knowledge Hub Reports

**FOR 2023**



'The Academy of Europe'  
UK Registered office

**Room 251, Senate House, Malet Street, London  
WC1E 7HU**

**Tele: +44 (0) 20 7862 5784**

**Email: [admin@acadeuro.org](mailto:admin@acadeuro.org) Web: <http://www.ae-info.org>**

**A UK Company limited by guarantee and registered at  
Companies House. Registration number 07028223  
Registered with the Charity Commission, registration number  
1133902**

Also;

The Academia Europaea e.V Munich has its registered office at:

Academia Europaea e.V.  
Room 336, 3rd floor  
Theresienstr. 41  
80333 München  
GERMANY  
Amtsgericht München (Registration Number): VR 210134  
Tax number: 143/210/03525

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Reports of the activity of the AE Knowledge Hubs for 2021 are attached. They are large files and are available to download from [www.ae-info.org](http://www.ae-info.org) or, on request from the individual Hub offices, or online at the following URLs;

<b>Barcelona Hub at:</b>	<a href="https://aebarcelona.eu/">https://aebarcelona.eu/</a>
<b>Bergen Hub at:</b>	<a href="https://aebergen.w.uib.no/annual-reports/">https://aebergen.w.uib.no/annual-reports/</a>
<b>Budapest Hub:</b>	<a href="https://www.ae-info.org/ae/Acad_Main/Budapest_Knowledge_Hub">https://www.ae-info.org/ae/Acad_Main/Budapest_Knowledge_Hub</a>
<b>Cardiff Hub at:</b>	<a href="http://aecardiffknowledgehub.wales/about-us/documents/">http://aecardiffknowledgehub.wales/about-us/documents/</a>
<b>Munich Hub</b>	NA
<b>Tbilisi Hub at:</b>	<a href="https://www.aetbilisihub.org">https://www.aetbilisihub.org</a>
<b>Wroclaw Hub at:</b>	<a href="https://acadeuro.wroclaw.pl/">https://acadeuro.wroclaw.pl/</a>

## SECTION 1: Governance

### THE TRUSTEES OF THE ACADEMIA EUROPAEA

#### Board of TRUSTEES (at 31 December 2023)

##### Elected Officers (3)

<b>President:</b>	Professor Marja Makarow	Helsinki, (to end 2024, renewable)
<b>Vice President:</b>	Professor Don Dingwell	Munich, (to end 2025, renewable)
<b>Hon. Treasurer:</b>	Professor Stephen Evans	Cambridge (to end of 2025, renewable)
<b>Co-opted Members:</b>	Professor Ole Petersen	Cardiff (till end 2023)
	Professor Eva Kondorosi	Budapest, (until end 2026)
	Professor Poul Holm	Dublin, (to end 2025)
	Professor Bjorn Wittrock	Uppsala, (until end 2024)
	Professor Eystein Jansen	Bergen, (until end of 2024)
	Professor Paolo Papale	Rome (until end of 2027)
	Professor Milena Zic-Fuchs	Zagreb (appointed from 1 <sup>st</sup> January 2023 to 2025)

The list of Section chairs, as at 31 December 2023, is at annex 2 of this report. Professor Dingwell continued as the Academic Director of the Munich Hub. Class chairs are trustees. At the end of 2023 they were;

Class A1 – Humanities and Arts – Chair Professor Poul Holm (Trustee), VP ex o  
Class A2 – Social and Related Sciences – Chair Professor Bjorn Wittrock (Trustee) VP ex o  
Class B – Exact Sciences – Professor Paolo Papale (Trustee), VP ex o  
Class C – Life Sciences – Professor Eva Kondorosi (Trustee) VP ex o

Note, that in our Articles of Association, the Council is described as an advisory body to the trustees. Since the creation of the Class system, the single Council now effectively operates through the Class configurations. The Classes and their component Sections each CONSTITUTE ONE PART OF THE ADVISORY COUNCIL. The Class chairs are thus the *de facto* representatives of the Sections on the Board of trustees. The trustees did consult electronically throughout the year with their sectoral 'Council members' (the Section chairs) on specific issues, in the Class configuration. Class committees (comprising the Chairs of the Section committees) have been assigned responsibility for the management of the nominations and selection process for new members and they will over-time become responsible for delivery of activity programmes, as envisaged by the Strategic Plan 2019 – 2024. In view of this re-orientation of responsibility and the fact that the Classes now fulfil the role of the former plenary Council, but in a more efficient way, the trustees will review the Regulations in 2023/4 to better reflect the new working structure.

During 2023 there was no activity assigned to the wholly owned subsidiary company in Bergen Norway, operating under the Bergen Knowledge Hub. The CEO appointed by the Board, was Professor Eystein Jansen (the current Bergen Hub Academic Director) and the other Director is the AE Executive Secretary – Dr David Coates.

As of 20th September 2023, the trustees signed articles to establish a new AE Munich legal entity (Academia Europaea e.V - eingetragener Verein). This development had been strongly endorsed by the AE Independent Advisory Group in 2022. All members of the AE had been informed of the plans at the AGM of 2022 and the strategic plan refers to the Board of trustees keeping the post-BREXIT situation under review. Since the creation of the new legal entity, the UK government had agreed to re-associate to the Horizon Europe programme, that ends in 2027. However, this does not alter the current funding arrangements for SAPEA plus and the AE. Therefore, the intention is that over time, the new Munich legal entity will become the AE HQ for all dealings with the EU and facilitate access for all members of the AE. The new entity will also assume other responsibilities from London over time. The London charity will continue to run in parallel and both will operate under a common Board of trustees for the foreseeable future. London will have a decreasing lead role and will provide administrative support to the AE. Both entities will be displayed on the common website ([www.ae-info.org](http://www.ae-info.org)) and will operate as a single functional unit under a common Board of trustees. Each will have to report separately to their own national regulatory bodies, as described in their statutes. Members of the Academia Europaea are *de facto*, members of both legal forms of the AE. Resources will be allocated between each entity according to function and need.

The Academia Europaea e.V Munich has its registered office at:

Academia Europaea e.V.  
Room 336, 3rd floor  
Theresienstr. 41  
80333 München  
GERMANY  
+49 89 2180 4294  
[ae-munich-hub@min.uni-muenchen.de](mailto:ae-munich-hub@min.uni-muenchen.de)

Amtsgericht München (Registration Number): VR 210134  
Tax number: 143/210/03525

#### London General Secretariat

Executive Secretary: Dr David Coates  
Senior Administrator: Ms Teresa McGovern  
Accounts and payroll: Outsourced to Keith Vaudrey & Co.  
Membership Secretary: Function partially provided by the Wroclaw Hub office  
Membership administration, database and website management are outsourced: Technical University of Graz. Contact is Ms Dana Kaiser

The Executive Secretary is the Company Secretary, with responsibility for day-to-day operations of the AE and the London office; oversight of the regional hubs and the Bergen AE company and provides secretariat support to the Board and other sub-committees.

The company and charity registered office is at Room 251, Senate House, University of London, Malet Street, London, WC1E 7HU.

#### Munich General Secretariat

Director: Professor Donald Dingwell  
Manager: Ms Friederike Brandthaus

The association registered office at Munich, is at Academia Europaea e.V., Room 336, 3rd floor, Theresienstr. 41, 80333 München, GERMANY

### Regional Knowledge Hubs (at the 31<sup>st</sup> December 2023)

#### **Barcelona Hub** (<https://aebarcelona.eu/> )

Academic Director: Professor Jaume Bertranpetit  
Hub manager: Maite Sánchez Riera

#### **Bergen Hub** (<https://aebergen.w.uib.no/>)

Academic Director: Professor Eystein Jansen (trustee)  
Hub manager: Ms Kristen Bakken  
Communications: Mr Nils Olav Sæverås

#### **Budapest Hub** <https://mta.hu/aebudapest>

Academic Director: Professor Laszlo Lovasz  
Hub Manager: Dr Gergely Bohm  
Hub Officer: Nóra Deák:  
Hub Communications Officer: Katalin Borvölgyi,

#### **Cardiff Hub** ([www.aecardiffknowledgehub.wales/](http://www.aecardiffknowledgehub.wales/) )

Academic Director: Professor Ole Petersen (trustee).  
Hub Manager: Ms Louise Edwards  
Communications officer: Alice Sadler  
Executive Officer: Ms Juliet Davies  
Research Officer: Rafael Carrascosa Marzo

**Graz Data Centre.** Responsible (under contract) for delivery, support, development and content management of the AE corporate website ([www.ae-info.org](http://www.ae-info.org) ) and the membership database. The data centre team include: (Director) Professor Frank Kappe, Project Manager H. Leitner, M.Sc., Chief Programmer Mr R. Hoffmann and Main Editorial Management Ms Dana Kaiser M.A.

#### **Tbilisi Hub** (<https://www.aetbilisihub.org/> )

Academic Director: Professor David Lordkipanidze  
Hub Executive Director: Ms Natia Khuluzauri  
Manager: Vakhtang Tsintsadze

#### **Wroclaw Knowledge Hub** (<https://acadeuro.wroclaw.pl/> )

Academic Director: Professor Arkadius Wøjs  
Hub manager: Anna Jarosz  
Hub officer: Veronica Lott

**Examiner of Accounts**

Keith Vaudrey & Co Ltd.  
Chartered Certified Accountants  
51, Marloes Road  
London W8 6LA

**Principal Bankers**

NatWest Bank Plc  
250, Regent St.  
  
London W1B 3BN

**Solicitors**

Hewitson Becke+Shaw  
Shakespeare House  
42, Newmarket Road  
Cambridge. CB5 8EP

Note: The legal and administrative information in the report and financial statements forms a part of the trustee's report.

## **SECTION 2: The structure and mission of the Academia Europaea**

### **The Academia Europaea London<sup>1</sup>**

On 23 September 2009: the Academia Europaea was incorporated as a Company limited by Guarantee and was registered at Companies House (number 07028223). See: <https://beta.companieshouse.gov.uk/company/07028223> .

The Company was also registered as a not-for-profit charity (registration number 1133902), see <https://register-of-charities.charitycommission.gov.uk/charity-search/-/charity-details/4048916>

### **The Academia Europaea Munich**

As of 20th September 2023, the trustees signed articles to establish a new AE Munich legal entity (Academia Europaea e.V - eingetragener Verein). Amtsgericht München (Registration Number): VR 210134. Tax number: 143/210/03525

#### **Governance and management**

A single Board of Trustees manages the affairs of both legal entities of the Academia Europaea. There is an 'advisory Council' and other operational sub-committees that are described in annex 1. Elections and appointments to the Board are as described in the regulations. These can also be found on the corporate website at [www.ae-info.org](http://www.ae-info.org).

Members elect the officers of the Academia (President, Vice President(s) and Honorary Treasurer). Other trustees are co-opted directly by the Board. The Annual General Meeting of members confirms these appointments in accordance with the regulations. The Vice Presidents (ex officio) are recommended by the President and appointed by the Board of Trustees for a period as defined in the Regulations.

#### **Training and induction of new trustees**

New trustees are provided with a copy of the statutes and regulations, governance documents and access to sets of minutes of the past year(s). Trustees also receive copies of documents describing the role and responsibilities of Directors and Trustees and links to the appropriate UK Charity Commission and Company House websites and those relevant to the Munich legal entity.

#### **The mission of the Academia Europaea**

The Academia Europaea is an international, non-governmental association of individual scientists and scholars, who are experts and leaders in their own subject areas, as recognised by their peers.

#### **The Academia will:**

Promote European scholarship and research and increase the wider appreciation of its value and importance  
Make recommendations to national governments and international agencies concerning matters affecting science, scholarship and academic life in Europe.  
Encourage interdisciplinary and international research in all areas of learning, particularly in relation to European issues.  
Identify topics of trans-European importance to science and scholarship, and propose appropriate action to ensure that these issues are adequately studied.

#### **The Academia will endeavour to:**

Encourage the highest possible standards in scholarship, research and education.  
Promote a better understanding among the public at large of the benefits of knowledge and learning, and of scientific and scholarly issues, which affect society, its quality of life and its standards of living.

#### **Charitable objectives:**

The advancement and propagation of excellence in scholarship in the humanities, law, the economic, social and political sciences, mathematics, medicine, and all branches of natural and technological sciences anywhere in the world for the public benefit and for the advancement of the education of the public of all ages in the aforesaid subjects in Europe.

## **SECTION 3: Trustees' report for the period ended 31 December 2023**

The trustees would like to thank all of the organisations that have sustained the Academia through their generous general financial sponsorships in particular the authorities supporting the Academia Europaea Regional Knowledge Hubs. The trustees also thank those other foundations and organisations that have contributed to the running of specific events and activities of the Academia during the period of this report. These organisations are identified in various places within this report and in the separate accounts and have been identified within the various 'reports to members' of events held during the current period, where appropriate. The

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<sup>1</sup> From 1988 to incorporation in 2009, the Academia Europaea operated under a Deed of Trust and was registered as a Charity with the Charity Commission of England and Wales (former registration number 1001978)

trustees have been active in their engagement in the affairs of the Academia and a majority have attended every meeting of the trustees. The trustees wish to express their gratitude to the elected officers of the Academy for their additional work on behalf of the membership. In particular, to thank Professor Don Dingwell for steering the creation of the new Munich AE legal entity, to Ole Petersen, for his continuing service and for his representing the AE in external project boards and meetings, including in the Horizon Europe SAPEA and SAPEA plus project and Alban Kellerbauer as Editor-in-chief of our international journal – The European Review. The trustees would also like to thank Professor Erol Gelenbe for his role as chair of the new AE Artificial Intelligence Task Force and Prof. Peter Wagner for his chairmanship of the Environment and Sustainability Task Force. The trustees again thank professor Lars Engwall for his chairmanship of the HERCuLES group and the Wenner Gren Foundations of Sweden, for supporting the annual international symposium series.

In 2023, the AE operated a growing programme of real-time international events (conferences and workshops) and a programme of online activities (webinars and streamed events). Some of these are reported below and in more detail in the individual Hub annual reports. The Horizon 2020 funded SAPEA activity continued. The European Review continued to be published and generated royalty income (see below).

The trustees are grateful to the six AE Regional Knowledge Hubs and their dedicated staff. The sponsors and hosts of these hubs have through their generosity, enabled the AE to deliver a much larger and more varied programme of activities both to the academic communities of their regions and also increasingly they are bringing science to the general public, through a range of public events, lectures and exhibitions targeted at their specific regional remits. These are reported on in the individual Hub annual reports. The Regional Hubs are independent of the AE corporate centre, but work in coordination with one another in delivering our charitable objectives across Europe.

As a result of the 2023 activity, the trustees can report that the annual examined accounts for 2023 show an unrestricted funds reserve carried forward to 2024 of £4,266 compared to £96,286 for the year ended 31 December 2022. The restricted funds were £179,444 in the year ended 2023 and £291,445 in the comparative year.

The trustees wish to record their thanks to the Technical University of Graz data centre staff for their dedicated I.T. and corporate web and database support and to Professor Balazs Gulyas for his management of the 2023 AE Erasmus Medal process. The Board would also like to thank Professor Gulyas for his work in establishing a new AE Class prize (for life sciences) – the Sydney Brenner Prize. The first prize was awarded at the annual conference of 2023.

The trustees are pleased to report, that in 2023, our inter – organisational links were further strengthened with a number of European federation organisations (ALLEA, FEAM, EASAC eurocase and YASAS (The Association of European Young Academies). Cardiff and London have been responsible for delivery of AE SAPEA plus participation throughout the year.

The President and other trustees engaged in a number of specific activities that responded to policy issues across Europe and more widely. A thematic transdisciplinary AE task force on Environmental sustainability held its first substantive activity in summer 2023 under the direction of Professor Peter Wagner. In addition, A new task force on Artificial Intelligence was set up under the coordination of Professor Erol Gelenbe (Chair of the Informatics Section) and the Board signed a new international collaboration agreement for the TEA-NET consortium [ ], under the coordination of Professor Peter Hegyi (Chair of the Clinical and Veterinary Sciences Section). The AE played an active part in a number of European international associations, networks and initiatives as part of our objective to support excellence in European science and scholarship. One of these was the IYBSSD (The UN International Year of Basic Science for Development) – Professor Eystein Jansen was the AE liaison, Each of the seven Regional Knowledge Hubs. has its own distinct mission and identity that respond to local and regional priorities. The trustees recognise the immense support provided by the sponsors for these Hubs. None of the hubs receives core financing from the centre for their day-to-day operations. This model helps to increase local responsiveness. The Cardiff Hub team took over the role of AE Corporate communications coordination and a visuals refresh project was launched across all Hubs.

The trustees, are pleased to report a further widening of the membership of the Academia Europaea with the election in 2023 of 320 scholars across a four classes. The full 2023-election list is at annex 1. Member statistics can be found on the AE website at [ae-info.org](http://ae-info.org). There has been a gradual improvement in gender balance members and a reduction in regional disparity in terms of disciplines over the year. This is in line with the targets as described in the strategic plan. However, the trustees will further address these issues in 2023 with a review of membership election and assessment policy to better meet CoARA<sup>2</sup> principles for the 2024 new member cycle. The trustees also continued to support the continuing development of the Young Academy of Europe, in recognition of the AE mission to promote young researchers.

The AE has a membership of individuals that are drawn from the whole continent of Europe and Foreign members from beyond Europe. The majority of AE members are resident and working outside of the UK and the majority of these are based in EU member states. The trustees concluded, that following the completion of the BREXIT process, the risks to the continuation of the Academia as a UK registered and domiciled charity should be regularly reviewed. One significant driver was to ensure the continued AE eligibility to be a beneficiary in future EU funded research collaboration programmes. The situation was resolved in 2023 through the creation of a new independent legal entity (a not for profit association) in Munich, Germany. Over the coming years there will be a gradual transfer of functional responsibilities from London to Munich, including of appropriate financial resources. The two “charities” have the same common Board of trustees and operate with near identical articles of association. The two entities utilise the existing regulations and policies and all members of the AE are de facto members of both entities. Steps will be taken to try to harmonise meetings of trustees and for the annual business meeting to meet the requirements of both entities in common. The intention, is that members will not see any difference in operations of the AE. Both entities share the same charitable objectives. Future annual reports to the UK charities Commission will describe the full range of activity carried out (for

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<sup>2</sup> CoARA. [Coalition for Advancing Research Assessment](#)

both entities). Financial reports will however not be consolidated and each entity will report to its respective national authorities separately as required.

The Trustees wish to place on record, that it were their belief that at the time of the compilation of this report, there were no additional or unforeseen risks that would place the continuation of the charity in jeopardy.

### Public benefit statement

Over the year the Academia and the Regional Knowledge Hubs, have published articles and papers in academic journals; organised a number of virtual and physical academic meetings across the continent that are open to members and non-members, young scholars and to the interested public in all areas of operation. The Academia has provided prizes and awards to support and recognise excellent researchers in pursuit of their scholarship. To enhance the accessibility of the European scholarly community to the public, the Academia has maintained and enhanced its web portal and those of the regional knowledge hubs and has contributed to the betterment of European Policy through participation in provision of expert, impartial advice to authorities and governmental organisations and has supported the Young Academy of Europe. A full description of all of the main activities is included elsewhere in this report.

The trustees have consulted the guidance made by the Charity Commission for England and Wales on the Public Benefit requirement of the charities Act 2011. The Trustees are confident that they have complied with their duty under section 4 of the Charities Act 2011 in that they have had a due regard to public benefit guidance published by the Commission.

### Future Plans

In the coming year (2024), the trustees will try to continue to deliver the mission of the Academia through the running of appropriate workshops, publications and related activities. The trustees will explore new opportunities, including an AE activity for environmental sustainability, Artificial intelligence, and collaborations with other international platforms. The AE will establish a pilot 'Academia Europaea College of Excellence' and support the expansion of outreach through the network of regional Hubs, including consideration of new possible Hub locations. We will explore alternative models of financing. The Young Academy of Europe will continue to be supported, specifically to provide a focus to engage with and support young researchers from across the UK and Europe. The AE engagement in European Science policy advice will be strengthened through taking a lead on topics within the Science Advice Policy project SAPEA PLUS and any subsequent Horizon funded policy project. The trustees will especially focus on ensuring that its UK based membership and researchers more generally can continue to be effectively linked with their European colleagues. Following the establishing of the new Munich legal entity, resources will be transferred to assist with set-up and operation, including the re-allocation of administrative tasks from London. To assist in this, the London office and staffing resource will be scaled back.

## SECTION 4: Centrally co-ordinated activities during the period, 1 January 2023 – 31 December 2023

### The 34th annual conference of members 09 – 11th October 2023

The conference of the Academia Europaea took place at LM University, Munich. Local organiser Professor Don Dingwell.

This was a physical event with streaming



Sessions included:

On October 9<sup>th</sup> a dedicated one-day meeting for all four Class members - Life Sciences

On October 9<sup>th</sup> there was a dedicated day for the Young Academy of Europe

On 10<sup>th</sup> October, the **AE Erasmus Medal was awarded to Professor Jean-Pierre Changeux (France), who also gave the 2023 AE-Heinz-Nixdorf Erasmus Lecture**

**On 10<sup>th</sup> October the 2023 Adam Kondorosi Advanced Award for Plant Research was awarded to Professor Michael Udvardi (Australia)**

**On 10<sup>th</sup> October, an inaugural Sydney Brenner prize for life sciences was awarded to Professor Eugene Yeo (USA)**

**On 11<sup>th</sup> October, the 2023 Young Academy of Europe Andre Mischke prize was awarded to Renaud Jolivet**

### October 10<sup>th</sup> - plenary session speakers included

- **Helga Nowotny**,  
The illusion of control: Living with the digital Others
- **Tim Crane**,  
Is artificial general intelligence possible?
- **Mona Simion**  
Fact checking and disinformation
- **Hans Joas**  
What comes after the Secularization thesis? Religious and Secular sources of moral universalism
- **Jürgen Kocka**  
Organised Capitalism and organised Science. Some German examples



- **Stephan Parmentier**  
How to repair the irreparable: Strategies and challenges for victim reparations after violent conflict and serious human rights violations
- **Dirk Inzé**  
Gene-edited crops are now a reality, but not in Europe
- **Marc Yeste**  
Contributions of semen to fertilisation and early embryo development: epigenome, proteome and metabolome
- **Peter Hegyi**  
The global burden of translational medicine

#### October 11<sup>th</sup> plenary speakers included

- **Maté Csanád**  
Exploring the Big Bang in the lab with femtoscopy
- **Kevin Heng**  
The atmosphere of exoplanets
- **Dieter Braun**  
Recreating the emergence of life in early rock environments
- **Arnau Folch**  
The destination Earth (DestinE) initiative: how it will contribute to forecast and manage natural hazards
- **Yan Lavallée**  
Accessing magma: a frontier in Earth sciences and renewable energies
- **Pascal Engel**  
Truth and Normativity
- **Aditi Lahiri**  
What doesn't change: Pertinacity in language change and processing
- **Horst Bredekamp**  
From global art history to active matter
- **PANEL discussion: Healthy Food And sustainable agriculture: Exploring Transformative Practices**
- **Scott Bremer**  
How seasonal cultures shape adaptation on Aotearoa-New Zealand's Coromandel peninsula

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#### The Academia Europaea Erasmus Medal



**The 2022 Academia Europaea Erasmus Medal was awarded to the renowned international Neuroscientist - Jean-Pierre Changeux, College de France, Paris**

The 2023 Heinz-Nixdorf Erasmus Lecture was delivered and streamed to AE members during the conference.

The Erasmus Medal of the Academia Europaea is awarded on the recommendation of an independent search committee to a member who has maintained over a sustained period, the highest level of international scholarship and recognition by peers.



**Erasmus Lecture title: “The Brain as a chemical machine: importance of allosteric receptors”**

#### ABSTRACT:

The human brain, the most complex organ of the body, cannot be simply regarded as an electrical machine or a mechanical computer. Understanding the chemistry of the brain is a prerequisite for the understanding of its basic functions - from the intercellular communications up to the higher cognitive level - together with their pathological alterations. The billions of neurons in the brain make discontinuous networks that are bound together by chemical signals: the neurotransmitters. There are over a hundred of neurotransmitters that mediate information processing in the brain, and thus, all the operations it performs. The discovery of the molecules and molecular mechanisms involved in the signal transduction elicited by neurotransmitters has thus created a “paradigmatic change” in the history of brain sciences leading to considerable progress in the understanding of drugs action in the brain, their possible side effects and among them drug addiction with its known devastating consequences at the social level, and, most of all, their potential therapeutic action.

At the early stages, a critical role was played by the concept of allostery to qualify the interaction between topographically distinct sites on regulatory proteins - ie an active site and a regulatory site - and its mediation by a conformational change of the molecule (1961). Through their cooperative organisation, allosteric proteins would behave as “molecular switches” (1965). Early on the concept was extended to brain communications and the receptors for neurotransmitters (1964,1967). Then, the first neurotransmitter receptor was identified (1970): the nicotinic acetylcholine receptor. It was soon demonstrated to be a bona fide allosteric protein carrying several binding sites for the neurotransmitter acetylcholine, an ion channel, together with multiple allosteric modulatory sites. The elucidation, today at the atomic level, of the allosteric mechanism through which drugs modulate receptor efficacy opens revolutionary new avenues in the field of drug discovery.

Moreover, the multiple regulations to which acetylcholine receptors have access – together with thousands of subsequently discovered receptors in the brain – further extends the “paradigmatic change” to neuronal brain circuits in general, to their contribution to the short and long-term synaptic changes (ie those engaged in learning and memory), up to higher cognitive functions and - last but not least – to conscious processing. The consequences in the understanding neuropsychiatric diseases and their therapeutics are immense.

AFFILIATION: Collège de France and Institut Pasteur, Paris

LINK TO WEBPAGE: See: [https://www.ae-info.org/ae/Member/Aghion\\_Philippe](https://www.ae-info.org/ae/Member/Aghion_Philippe)

Plus: [https://en.wikipedia.org/wiki/Jean-Pierre\\_Changeux](https://en.wikipedia.org/wiki/Jean-Pierre_Changeux)

Jean-Pierre Changeux - Communications cellulaires

Collège de France

<https://www.college-de-france.fr>

Citation: Jean-Pierre Changeux has been the leader in the field of receptor research and neuroscience for the past half a century. His thorough dissection of the nicotinic acetylcholine receptors is a landmark in modern biology. The extension of the allosteric theory to membrane proteins provided a mechanistic explanation for the process of signal transduction by ligands. It has vast implications in several fields of biology, including receptor biology, cellular communications, drug design and development, and neuroscience. Due to his pioneering and seminal activities, Changeux is one of the key founders of modern molecular pharmacology and neuroscience.

As a graduate student in the laboratories of Nobel Laureates Jacques Monod and François Jacob, Changeux’s studies provided a fundamental mechanism of protein regulation, the allostery model, with a profound impact on the biology of living organisms. He further proposed that allosteric regulation in membrane receptors plays a key role in the transmission of chemical signals in the nervous system. He hypothesized that the acetylcholine receptor could be envisioned as a membrane macromolecule in which the acetylcholine binding site regulates by an allosteric conformational change, the gating of an ion channel. His subsequent career strategically and comprehensively validated this pioneering insight, resulting in a series of important discoveries.

Changeux’s seminal work on the nicotinic receptor forged new fields of research in signal transduction mechanisms, molecular pharmacology, and pathological modifications of chemical communications in the nervous system, including the subsequent molecular identification of brain ionotropic glutamate and GABA receptors. Following Changeux’s pioneering work, the notion that receptor activity is controlled by allosteric mechanisms has been extended to G protein-coupled receptors and growth-factor receptors. It is now well-established that ligand binding induces an allosteric transition that activate or inhibit the G proteins or activate receptor tyrosine kinases.

Subsequently, Changeux used his knowledge of the nicotinic receptors to investigate higher levels of brain organization, in particular the way these receptors participate in reward and cognition. Moving from the molecules and the isolated neurons or muscle cells to the development of neuronal networks, Jean-Pierre Changeux made an outreaching contribution by proposing the theory that long-term epigenesis of neuronal networks occurs by the selective stabilization and elimination of developing synapses. In parallel, he proposed, with his collaborators, theoretical models for defined cognitive tasks that bridge the gap between molecular biology and cognitive science. In these models, allosteric receptors play a key role in the regulation of synaptic efficacy. Changeux and his colleagues further proposed an original hypothesis describing a neuronal mechanism for conscious access, implicating a “global neuronal workspace” composed of a brain-scale horizontal network of reciprocally connected long axon pyramidal neurons.

Finally, throughout his career, Jean-Pierre Changeux has been concerned by the ethical consequences of neuroscience for medicine and for society in general. He has written a number of books, including the iconic “L’homme neuronal”, which not only reveals his status as a leading contemporary figure in neuroscience but also one of the leading thinkers of our times and a worthy contemporary heir of the French Encyclopaedists of the 18th century.

Based on his distinguished scientific achievements, his contributions to European scientific culture and his commitment to Academia Europaea as one of its founding members (membership number: 63), Academia Europaea is pleased and honoured to award the 2022 Academia Europaea Erasmus Medal to Professor Jean-Pierre Changeux.

The committee therefore felt justifiably pleased to award the Academia Europaea Erasmus Medal to Professor Changeux , who continues to demonstrate the very best achievements in scholarship and excellence in his field.

Short Bio:

JEAN-PIERRE CHANGEUX is Emeritus Professor at the Collège de France & Pasteur Institute Paris. His main contributions and discoveries in the course of the past 50 years are centered on the general theme of receptors and their allosteric transitions, primarily in the nervous system with consequences ranging from the understanding of drug addiction to the therapeutics of neuropsychiatric diseases.

JPC was trained at Ecole Normale Supérieure (rue d’Ulm, Paris) (1955) and Institut Pasteur (1959) and received a PhD at Paris University (1964); he was postdoctoral fellow, at University of California, Berkeley, (1965-1966), visiting Assistant Professor at

Columbia University College of Physicians & Surgeons, New-York (1966-1967) ; Sous-Directeur, Collège de France, Paris (1967) ; Director of the Unit of Molecular Neurobiology, Institut Pasteur, Paris, 1972-2006 ; Professor Collège de France, 1975-2006 ; Professor Institut Pasteur, 1975-2006, emeritus since 2007 ; Skaggs distinguished visiting professor in Pharmacology, University of California San Diego (2008-2012); International Faculty, Kavli Institute for Brain & Mind, University of California San Diego (2012-2022).

JPC has authored or co-authored several books for a non-specialist audience notably, Neuronal Man: The Biology of The Mind in 1983/1985, Conversations on Mind Matter and Mathematics with the mathematician Alain Connes (1998), What Makes Us Think with the moral philosopher Paul Ricoeur (2002), Physiology of truth (2005), The Enchanted Neurons with the musical composers P.Boulez and P.Manoury (2019, Le beau et la splendeur du Vrai interview with François L'Yvonnet (2023).

Jean-Pierre Changeux's academic accolades include the Gairdner foundation award 1978, the Wolf prize 1983, the Louis Jeantet Prize for Medicine 1993, the Balzan Prize 2001, the National Academy of Sciences Award in Neurosciences USA 2007, the Olav Thon international research award in biomedicine, Oslo, Norway, 2016, the Albert Einstein World Award of Science, Hong Kong, 2018 and Clarivate citation laureate in Physiology and Medicine for 2021.

The Erasmus lecture is sponsored by the:

## Heinz Nixdorf Stiftung

Further information about the Heinz-Nixdorf Stiftung: <http://www.heinz-nixdorf-stiftung.de>

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### **The Adam Kondorosi Academia Europaea award for advanced research 2023**

“The Adam Kondorosi Academia Europaea Award for Advanced Research” recognizes landmark research in symbiosis and related fields that has changed our understanding and made a significant scientific impact”.

The awards consist of a diploma/medal and prize money. This prize was established in recognition of the significant achievements made in the field of plant and microbe interactions and symbiotic nitrogen fixation by the late Professor Adam Kondorosi.

Members of the 2023 Award Committee:

- Jens Stougaard, ENFC president
- Eva Kondorosi, ENFC board
- Sharon Long, Stanford University
- Graham O’Hara, Murdoch University
- Klaus Palme, Academia Europaea
- Mart Saarma, Academia Europaea
- Luis M. Rubio, ENFC board (Chair of the committee)



The 2023 Medal was awarded to **Professor Michael UDVARDI**

#### **MEDAL CITATION**

**Professor Michael Udvardi receives the Adam Kondorosi Academia Europaea Award for Advanced Research 2023 in recognition of the tremendous impact of his research on plant-microbe interactions and plant science and his generous service to the scientific community.**



**AFFILIATION:** Queensland Alliance for Agriculture and Food Innovation, University of Queensland, Australia

**LINK TO WEBPAGE:** <https://qaafi.uq.edu.au/profile/10442/michael-udvardi>  
<https://scholar.google.com/citations?user=Yz19c0oAAAAJ&hl=en>

**Professor Udvardi delivered the 2023 Kondorosi Lecture**

**TITLE OF PRESENTATION:** “Genetics and Genomics of Symbiotic Nitrogen Fixation: Past, Present and Future”.

**ABSTRACT OF PRESENTATION:** Legumes contribute about 50 million tonnes of nitrogen, worth about \$50 billion, to protein production and agricultural soils each year via symbiotic nitrogen fixation (SNF) with bacteria called rhizobia. Over the past 50 years, this natural process has been overshadowed by industrial production and use of industrial fertilizers, now well over 120 million tonnes per year, which have become essential for food security but undermine environment and human health. Legumes offer a sustainable solution to food security without environmental harm, if only they were used more intensively in agricultural systems. To make them more attractive to producers, plant breeders are working to increase legume resistance to plant diseases, tolerance to drought, heat and other abiotic stresses, and yield and quality of the seed and biomass they produce. There are also opportunities to increase the

fraction of nitrogen that legumes obtain from the atmosphere versus the soil, via improvements in SNF. Over the past 20 years, genetic and genomic research has uncovered over 200 plant genes that are required for SNF, some of which I will describe in my presentation. At the same time, it has become clear that there is substantial natural variation in SNF effectiveness within plant species that could be harnessed via genome-enabled plant breeding to enhance this important process, as I will explain. In a world full of wicked, hard-to-solve problems, there is hope that we can solve the current nitrogen problem confronting humanity and planet earth.

**BIOGRAPHICAL NOTE:** Dr. Udvardi earned his Ph.D. in plant biochemistry from the Australian National University in 1989. He is primarily interested in how plants obtain nitrogen for growth and protein production, either as mineral nitrogen from the soil or from atmospheric di-nitrogen via symbiotic nitrogen fixation in bacteria. He has contributed to our understanding of symbiotic nitrogen fixation in legumes, especially of transport and metabolism in root nodules, using biochemical, molecular, genetic, and genomic methods. He was amongst the first to characterize ammonium and nitrate transporters in plants. He was part of a large international team that sequenced and analyzed the genome of the model legume, *Medicago truncatula*. Currently, his group focusses on the development of pan-genomic resources to accelerate breeding of tropical pulses, including mungbean and pigeonpea.

Dr. Udvardi has published over 200 papers in refereed scientific journals. He was Elected Fellow of the American Association for Advancement of Science in 2012 for his contributions to our understanding of legume biology, especially symbiotic nitrogen fixation.

### **The inaugural Sydney Brenner Prize for Personal achievement in Life Sciences 2023**



This prize was established in 2022 under the direction of AE member Professor Balasz Gulyas (Chair of the Neurosciences and Physiology section).

#### **The first award was presented in 2023 to Professor Eugene Yeo**

The medal is given to honour the best in scholarship and personal achievements within a period of not more than 20 years after obtaining the PhD degree (with allowance for career breaks). The award is given to an individual scholar in the field of molecular biology and related disciplines. The Medal is awarded at the Annual Conference of the Academy and on that occasion the recipient will deliver a 'Sydney Brenner' lecture



The Academia Europaea Sydney Brenner Medal was established to commemorate Sydney Brenner, one of the greatest scientists of the 20th century and one of the founding members of the Academia Europaea.

#### **Citation:**

Dr. Yeo is a computational and experimental molecular and cell biologist who has contributed to genomics, RNA biology and therapeutics. His primary research interest is in understanding how RNA processing is regulated and the roles that RNA binding proteins (RBPs) play in development and disease. Gene has authored >200 peer-reviewed publications (h-index 89 and i10-index 161) including invited book chapters and review articles in the areas of neurodegeneration, RNA processing, computational biology and stem cell models; and served as Editor on two books on the biology of RNA binding proteins. Gene's mechanistic studies in RNA biology tend to feature comprehensive, systematic and robust methodologies developed by his lab, such as enhanced CLIP for the purposes of large-scale mapping of protein-RNA interactions (Van Nostrand et al, Nature Methods, 2016; >1000 citations). His lab has also developed the STAMP technology (Brannan et al, Nature Methods, 2021) which is the first transcriptome-wide method for identifying RNA binding protein sites and measuring mRNA translation at single-cell resolution and with isoform-sensitivity. To facilitate biological interpretation of RBP interactomics data, Gene's lab also pioneers computational algorithms, such as CLIPper (Lovci et al, NSMB, 2013; >300 citations), SONAR (Brannan et al, Molecular Cell, 2016 and recently SKIPPER (Boyle et al, Cell Genomics, 2023). As a graduate student Dr. Yeo authored the MaxENT splice site algorithm (Yeo et al, Journal Comp Biology, 2003), which is arguably one of the most utilized and cited splice site scorers. Armed with these cutting-edge technologies, his lab is also a major contributor of resources to study RBPs that enable hundreds of labs across many areas of bioscience, such as the world's largest resource of RBP-specific antibodies that facilitated generation and interpretation of the most comprehensive maps of RBP-binding sites to date for hundreds of RBPs (Van Nostrand et al, Nature, 2020; >500 citations).

Dr. Yeo has also leveraged his understanding of how protein-RNA complexes control molecular and cellular pathways to develop RNA-targeting therapeutics and to identify RBPs as candidate targets for neurodevelopmental disorders, neurodegeneration and cancer. Gene's lab also develops stem cell-based models of human disorders such as myotonic dystrophy, Huntington's disease and ALS/FTD to study how defects in RNA processing leads to pathological hallmarks as well as evaluate therapeutic paradigms developed in his lab. To illustrate, Gene's lab has systematically studied normal and mutant RBPs in neurodegeneration, and uncovered RBPs that condense into RNA granules during stress and demonstrated strategies to leverage these for therapeutic use in neurodegeneration (Markmiller et al, Cell, 2018; >600 citations; Fang et al, Neuron, 2019; Wheeler et al, Nature Methods, 2020). His lab also demonstrated in vivo RNA targeting with CRISPR/Cas proteins (Nelles et al, Cell, 2016;>500 citations) with proof of concept in repeat expansion disorders in mice and 3D brain organoid models (Batra et al, Cell, 2017; Batra et al, Nature Biomedical Engineering, 2020; Morelli et al, Science Translational Medicine, 2022; Morelli et al, Nature Neuroscience 2022). Work from the Yeo lab has been highlighted in Nature Methods and Nature Reviews Genetics as "Method to Watch" and featured as a top story in Discover magazine. These efforts have led to clinical programs to develop medicines for RNA-related diseases.

General biography:

See: <https://www.yeolab.com>

## Short synopsis:

Gene Yeo PhD MBA is a Professor of Cellular and Molecular Medicine at the University of California San Diego (UCSD), Chief Scientific Advisor for the Sanford Laboratories for Innovative Medicines, Director of the Stanford Stem Cell Institute Innovation Center, a founding member of the Institute for Genomic Medicine and member of the UCSD Stem Cell Program and Moores Cancer Center. Dr. Yeo has a BSc in Chemical Engineering and a BA in Economics from the University of Illinois, Urbana-Champaign, a Ph.D. in Computational Neuroscience from Massachusetts Institute of Technology, and an MBA from the UCSD Rady School of Management. Dr. Yeo serves as Co-Director of the Bioinformatics and Systems Biology Graduate Program, as Associate Director of a Genetics T32 training program at UCSD and as Chair of the Scientific Steering Committee of Sanford Consortium for Regenerative Medicine in La Jolla.

Gene is on the Editorial Boards of the journals Cell Reports, Cell Research and eLife, and on the Advisory Board of Review commons. Gene joined UCSD as an Assistant Professor in 2008, was promoted with tenure to Associate Professor in 2014 and to Professor in 2016. Gene was the inaugural Crick-Jacobs Fellow at the Salk Institute (2005-2008). Other awards include the Alfred P Sloan Fellowship in recognition of his work in computational molecular biology (2011), Alpha Chi Sigma-Zeta Chapter Krug Lecturer (2016), Singapore National Research Foundation Visiting Investigator Award (2017), the inaugural Early Career Award from the International RNA Society (2017), the Blavatnik National Award Finalist (2018 & 2019), San Diego Xconomy Awardee for 'Big Idea' (2019) and Highly Cited Researcher in Cross-Field category (2019, 2020, 2021, 2022), recognizing the world's most influential researchers of the past decade. Gene is also a Paul Allen Distinguished Investigator (2020) and received the 2021 Elisa Izaurralde Award for Innovation in Research, Teaching and Service from the RNA Society. Gene is a co-founder of biotech companies which includes Locanabio, Eclipse Bioinnovations, Enzerna, Proteona (acquired by Singleron), Trotana Therapeutics and Orbital Therapeutics. Gene serves or had served on the scientific advisory boards of the Allen Institute of Immunology, Locanabio, Eclipse Bioinnovations, Proteona, CircBio, Aquinnah, Cell Applications, Tecan, LGC, Sardona Therapeutics, Insitro, Trotana, Nooma, Ribometrix, Automera, Atomic.AI, AmberBio and IntronX. Gene is among the top 50 life science academic entrepreneurs as released by BIOS Beaker List. Gene is a senior advisor to Accelerator Life Sciences Partners. Gene's lab has current or previous support from the National Institute of Health, National Science Foundation, California Institute for Regenerative Medicine, TargetALS, ALS Foundation, Department of Defense, Myotonic Dystrophy Association, Myotonic Dystrophy Foundation, Chan-Zuckerberg Initiative, Takeda, Genentech and Roche.

Gene is the faculty founder of DASL (Diversity and Science Lecture Series, 2020) providing a voice for scientists to discuss diversity, equity and inclusion challenges and celebrate their scientific achievements (now funded by CZI). Gene is the founder of the SCREEN (San Diego Covid-19 Research Enterprise Network, 2020) and founding member of the SEARCH (San Diego Epidemiology and Research for Covid Health, 2020) alliances in San Diego. SCREEN had ~1000 scientist members in San Diego focusing on grassroots research coordination and community outreach. SEARCH is focused on epidemiology studies of the prevalence of the virus completing a 12000-person study of viral spread. Gene helped found the EXCITE (Expedited Covid Identification Environment) lab that performs Covid high-throughput testing at UCSD and served as a member of the Return-to-Learn steering committee at UCSD. Gene was a Sword of Honor recipient (the highest honor) in Officer Cadet School in 1999 and has served in the Singapore Navy as a Naval officer. Gene had completed 2 full Ironman-distance and multiple half-ironman-, olympic-, sprint-distance triathlons, full marathons and half-marathons, but now spends time rock climbing.

## The 2023 Sydney Brenner Lecture: "Mysteries of RNA processing and application to therapeutics"

### Abstract:

I will speak in general about our work in understanding how the myriad of proteins interact with RNA to modulate its metabolism, how defects in RNA processing cause human diseases and how we can leverage our knowledge of RNA biology to create new therapeutics.

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## 2023 Class meetings

As a part of the annual conferences programme, the four Classes each held a Class event on 09<sup>th</sup> October to welcome the new members elected in 2022.

The four Classes each followed a similar format. This included A presentation and welcome to the AE by the Class Chair followed by a selection of new member presentations representing each Section and round table discussion sessions.

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## Reports from the Class Chairs for 2023

**Class A1 – Humanities – Chair Professor Poul Holm (Dublin):** The Class had positive interaction with representatives of the International Union of Academies which has resulted in plans for a joint meeting on cultural heritage research in connection with the AE annual meeting in Wroclaw 9 2024). Class A1 representatives participated in the TFESC (Environmental Sustainability) task force meeting in CArmsbridge in September and in the ongoing activities of the task

**Class A2 – Social and Related Sciences – Chair Professor Bjorn Wittrock (Uppsala):** In 2023, the new structure of sections of Class A 2 was coming into its own. In the autumn, one small but important change was undertaken in connexion with force.

the election of a new Chair of the section on Governance, Institutions and Policies (section 9) Thus, it was decided that the outstanding strength of the section (and its predecessor) in the field of higher education studies should be maintained. Thereby the section is also honouring its decisive role in the creation of the HERCULES group. However, there is a clear need to drop the subtitle of the section, delimiting its focus to welfare, health and education. Consequently, the overall role of studies of governance and policies has been strengthened, which is also reflected in the composition of the new section committee.

In 2023, Class A2 had the second highest number of nominations ever, making it part of a sequence of four years that jointly have seen more nominations than any previous period. Members of the Class have significantly contributed to the Academy as a whole. Its continued engagement in HERCULES has already been mentioned. The Class also plays a crucial role in the Academy's Task force on environment, climate and sustainability. Both the Chair (Peter Wagner, Chair of the Section on Social Change and Social Thought, section 12) and the Vice-Chair (Phoebe Koundouri, member of the Economics section, section 8) of the Task force come from Class A2.

The Chairs of section 10 (Maria Paradiso, Human Mobility, Governance, Environment and Space) and of section 11 (Nina Dethloff, Law) have served as members of the Governing Boards of the International Science Council and of the Scientific Commission of the German Science and Humanities Council (WR) respectively. Another member of the Law section, Rianne Letschert, is Chair of the Steering Board of CoARA, while a member of the Economics section, Carlo Carraro, is Vice-Chair at IPCC. Both of them are active members of the Class with whom I have been in contact.

The Chair of the Class was a member of the planning committee for the AE Annual Conference at the LMU in Munich, at which a record number of members participated in the Class event. He also served as Chair of the Jury for the Social Sciences and Humanities of the Fallings Walls Awards.

**Class B – Exact Sciences – Chair Professor Paolo Papale (Rome) – no report**

**Class C – Life Sciences - Chair Professor Eva Kondorosi (Budapest):** Two members of Class C, Ray Dixon (BMB) and Jane Hill (OEB), a representative of the core management team of the [Task Force for Environment, Sustainability, and Climate](#) (TFESC), attended a workshop held in Cambridge from 22-22<sup>nd</sup> September 2023, with the objective of identifying transformative actions and best practices to [promote sustainable agriculture and healthy food systems in Europe](#). *The workshop led to a draft concept note suggesting the creation of an intergovernmental panel on food security and sustainability.*

The AE CLASS C Clinick and veterinary Sciences

1.) organized monthly meetings and initiated the processing of pan-European data from the EUROSTAT database. We already have an accepted paper (<https://pubmed.ncbi.nlm.nih.gov/38627107/>).

2) We established the TEA-NET to enhance intercontinental research collaborations ([https://www.ae-info.org/ae/Acad\\_Main/News2\\_Archive/Translational%20European-Asian%20Network](https://www.ae-info.org/ae/Acad_Main/News2_Archive/Translational%20European-Asian%20Network)).

3) Additionally, we launched the Science to Society program, with the first step being the creation of an AE guideline on how researchers can facilitate the practical application of their research findings. ([https://www2.ae-info.org/ae/Acad\\_Main/News2\\_Archive/Developing%20a%20Guideline%20for%20Effective%20Policy%20Impact](https://www2.ae-info.org/ae/Acad_Main/News2_Archive/Developing%20a%20Guideline%20for%20Effective%20Policy%20Impact)).

The Organismic and evolutionary biology section changed its name to Ecology and evolution section. This name better covers the main interest of our members. Prof José María Fernández-Palacios joined the section committee to strengthen our work.

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## **SECTION 5: Academia Europaea outreach.**

### **The Academia Europaea Regional Knowledge Hubs**

Each Hub operates as an independent entity with local hosts and sponsors. Each Hub organises and delivers their own programmes of activity and assists the London HQ, where needed. The Hubs each have a complimentary thematic mission that provides a wide-range of activities delivering a wider public benefit that is in line with our charitable objectives. These activities are described in the individual Hub reports (**see annexes**).

### **AE engagement in European research policy and scientific expert advice to policymakers for general public policy (science into policy)**

- **SAPEA – Scientific Advice for general European Policy (not policy for research)**



**SAPEA: Science Advice for Policy by European Academies**

- Spanning the disciplines of engineering, humanities, medicine, natural sciences and social sciences, **SAPEA** brings together the outstanding knowledge and expertise of Fellows from over 100 Academies, Young Academies and Learned Societies in more than 40 countries across Europe
- SAPEA is part of the [European Scientific Advice Mechanism \(SAM\)](#) which provides independent, interdisciplinary and evidence-based scientific advice on policy issues to the European Commission, working closely with the [SAM High Level Group of Scientific Advisors](#)
- The project is funded through a grant from the EU's Horizon 2020 programme. It runs to the end of April 2024



= country with at least one Academy

Academies' independence, academic expertise and convening power make them a critical source of evidence for policymakers and the wider public, providing an unbiased, balanced and transparent perspective. Academies within SAPEA are members of one or more of the European Academy Networks: [Academia Europaea](#), [ALLEA](#), [EASAC](#), [Euro-CASE](#), [FEAM](#) and the [Young Academies Association \(YASAS\)](#).

All of the Networks' Member Academies across Europe are part of SAPEA and are encouraged to participate actively. Opportunities for involvement include:

- suggesting scientific topics**
- communicating their latest major scientific outputs to SAPEA**
- nominating Fellows** to the SAPEA Working Groups, or other events requiring the advice of an expert (e.g. experts' workshops or stakeholder meetings)
- hosting Working Group meetings**  
direct costs can be covered
- acting as "Lead Academies"** for a selected scientific topic
- hosting outreach events**  
event support can be provided
- raising the visibility of Academy work at a European Level** by sharing news of activities with the SAPEA Communications Office for the project website

**AE engagement in SAPEA Plus and providing expertise to public institutions and administrations at European Level**

The Horizon2020 funded project contract with the European Commission has been extended to 2024. The President is a member of the Board of Management of the project. Prof. Ole Petersen (Academic Director of the Cardiff Hub and VP ex O) was the alternate and oversees the work of the AE SAPEA Science Policy Officer - Louise Edwards, who is based at the Cardiff Hub. Louise is responsible for the day-to-day management of any AE involvement in policy advice topic work and is a member of the project coordination team. The AE Executive Secretary acts as AE contract manager in liaison with the central project coordination team. The day-to-day engagement in SAPEA is undertaken by the Science Policy team at the Cardiff Knowledge Hub. In 2023, the Cardiff Hub team managed the Academia Europaea activity within the SAPEA consortium project and is the AE lead in the successor SAPEA Plus project. AE Cardiff has undertaken literature reviews on behalf of the consortium and on behalf of the European Commission.

Full information for the project and its outputs, can be found via the official SAPEA website (<https://sapea.info/>) and through both the ae-info website [[http://www.ae-info.org/ae/Acad\\_Main/Activities/SAPEA](http://www.ae-info.org/ae/Acad_Main/Activities/SAPEA)] and the Cardiff Hub website [<http://aecardiffknowledgehub.wales/>]

Our intention throughout the SAPEA project is to work with and through the regional knowledge Hubs and with the Young Academy of Europe to ensure maximum opportunity for involvement of our members. We will also establish an outreach forum of other pan-European organisations to improve linkages and engagement of non-core partner expertise and seek to engage (through our Cardiff Hub) scholars (members and non-members) as experts from the UK and Ireland.

- **European Science Advisory Council (EASAC).**

Formed by a number of European Academies and supported by the Academia Europaea provides EU institutions and other pan-national bodies with fully independent advice on the scientific aspects of public policy.

The Academia was a founding member of this Council and collaborates with our sister Academies in making available our members' expertise where needed, for the many study groups that are established. The Academia provides a financial contribution to the running of the secretariat of EASAC. The Academia covers the costs of participation of the AE Council member and AE experts participating in specific study panels [<http://www.easac.eu/>]. The AE supports a number of members, who provide their individual expertise to EASAC studies and/or are engaged in the standing committees of EASAC. Professor Don Dingwell (trustee and VP ex o) is the AE delegate to the EASAC governing Council. The list of publications and reports can be found via the website above.



- **EASSH (The European Alliance of Social Sciences and Humanities).**



The Academia Europaea is a member of this alliance through our two Class chairs – Professor Poul Holm and Professor Bjorn Wittrock. The association seeks to promote and safeguard the position and status of the Social sciences and Humanities within the European Research area. Its activities can be found at this URL: <https://eassh.eu/>

## **AE Publications**

**The Academia Europaea in conjunction with Cambridge University Press publishes an international peer reviewed journal.**

**The European Review 2023** (volume 31). The Editor-in-chief – Professor Alban Kellerbauer (Nuclear Physics, Joint Research Centre, Karlsruhe, Germany). The journal has seen a significant increase in uncommissioned papers submitted for review and publication, from across the world.



In 2023, the European Review (ERW) volume 31 had six issues and one open access supplement. AE members had free access to the online version of the journal and to the archive. The Editor-in-chief renewed the editorial Board to include members of the Young Academy of Europe. Negotiations were completed to a transfer agreement so that from 2025 the ERW would be completely open access.

An Open Access supplement October 2023 : European Review , Volume 30 , Supplement S1 , November 2022 , pp. f1 - f3

DOI: <https://doi.org/10.1017/S1062798722000473>

Title: **Intermediality**

ERW at Cambridge Core: <https://www.cambridge.org/core/journals/european-review>

**Biology Direct:** a publication (now affiliated with the AE) at the initiative of Professor Alex Verkhatsky (former Chair of Class C – Life Sciences). Published by Springer Nature -

<https://biologydirect.biomedcentral.com/>

## **AE 'in-house' and 'grey' literature publications.**

In addition to regular corporate e-newsletters [produced on behalf of the AE HQ by the Communications group at the Cardiff Hub] and separately all of the Regional Knowledge Hubs, the AE maintained its corporate website which is managed and hosted at the technical University of Graz under a service contract. The Regional Knowledge Hubs maintain their own websites to reflect their own, independent programmes of activity.



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**SECTION 6: 2023 Events and Activity provided with AE sponsorship including projects funded through the Hubert Curien Fund, or externally organised but with with AE patronage in 2023, or externally sponsored.**

- **Report from the AE Artificial Intelligence task force: Chaired by Professor Erol Gelenbe (Chair of the Informatics Section)**

Introduction:

In 2023, the Academia Europaea (AE) Board decided the creation of an interdisciplinary Working Group on AI which aims to produce a report with a summary list of recommendations for the European academic milieu and funding agencies, so that they may take the best advantage of recent developments in AI for the benefit of research and education throughout Europe. In the meanwhile, the Chair of the TFAI also serves in representing AE on AI for the forthcoming G20 2024 meeting in Brasilia.

Members of the AE TFAI:

- Erol Gelenbe MAE, Co-Chair (PL), Chair of the AI Task Force Academia Europaea, Institute of Theoretical & Applied Informatics, Polish Academy of Sciences
- Véronique Halloin, Fellow of the Royal Acad. of Belgium, Co-Chair (BE), Secretary General of the Belgian National Research Fund, Member of the CERN Council, President of the European Science Foundation
- Guy Brasseur MAE, Max Planck Institute for Climate Change, Hamburg
- Schahram Dustdar MAE, Vienna Technical University, President of the Asia Pacific Association for AI
- Thomas Eitner MAE, Vienna Technical University, Austrian Academy of Sciences,
- Prof Alessandro Lenci, Professor of Linguistics at the University of Pisa

Several members of the TFAI make regular presentations about AI. Specifically,

- Prof Dustdar presented and will present keynotes related to AI at the following international conferences (and other events): IDEAS on 5th May, 2023; ICWE June 6, 2023; Baltic DB&IS on June 30, 2024.

- Prof Gelenbe presented and will present keynotes related to mathematical models for AI, and AI & Cybersecurity at the following international conferences (and other events): IEEE TrustCom in Exeter, UK, on November 3, 2023; the IEEE CENTERS SinConf 2023 on 20th November 2023 in Porto, the 16th International Conference on Security of Information and Networks, November 23, 2023 Online; the 2024 IEEE Cybermatics Congress, Copenhagen, Denmark, August 19-22, 2024. He is presenting the Academia Europaea position on AI at S20 the Science Advisory for the G20 Conference in Brasilia.

1) The TFAI plans to deliver a Report by October 2024, based on its activities, and in particular on the Workshop that will be held on September 4-5, 2024 at Imperial College on « Challenges of AI for European Research and Academia »

2) Brief Overview of the Contents and Conclusions of the Report

The European Union has so far prioritized the development of AI mainly through funding for R&D in its research programs, and by instituting a regulatory framework, the EU AI Act, that aims to ensure the safety of the AI systems that are developed, deployed and used, which is a first and perfectible step in regulating AI in the EU Single Market. In addition, several EU countries have created national programs for research and education in AI, and facilitated the access to venture capital in this field. The EU countries have thus recognized that AI is a key area towards sustainable re-industrialization and societal development. However, throughout our continent there is a widespread desire to establish a balance in favor of an explainable, transparent, accountable and human-centric AI, while supporting the potential economic and productivity gains that AI innovations bring, including in business, science and the dissemination of knowledge. Thus the EU AI Act can help prevent the social upheavals and legal conflicts resulting from the rapid and uncontrolled dissemination of AI innovation, for instance due to AI techniques that do not integrate the need for fairness, diversity, data privacy and the protection of creative and intellectual property. Similarly, we need to consider the impact that AI has on our education, work and skills. The additional electrical energy needs for training and using AI algorithms is also of concern. AI algorithms must also be compared and tested with calibrated anonymized open data that is widely available to the technical and scientific community.

While many Europeans understand that AI is an instance of advanced contemporary general purpose technology, the scientific and business community, citizens and policymakers, must clearly understand its potential role, advantages, limitations and consequences for science, education, business, health, social organization and security. An important concern is the ease with which AI helps the creation of fakes, whether it is for political purposes, misleading commercial information, or by imitating and plagiarizing the human creative process. Thus, all citizens and end users must be able to make informed decisions about the usage of AI.

We are at a key moment to shape the course of AI in science, with a significant increase in AI-related research and publications across most disciplines. Successful applications include protein structure prediction by AlphaFold, new antibiotics, the opportunity to develop treatments for diseases via data driven optimization offered by AI, highly accurate computer vision, the automation of manufacturing and supply chains, the automation of difficult medical procedures such as surgery, improved weather and even climate change forecasting through AI-driven models, the synthesis of hitherto unknown materials which optimize certain desirable properties, the automation of security including cyberattacks where detection and mitigation must take place within milliseconds.

While all these aspects are positive contributions of AI, it is already used to create very sophisticated cyberattacks, and the elimination of the human in the loop is a legitimate and significant concern in many decision processes, including for security and national defense.

To address these concerns, attain the needed scientific goals and share worldwide the world-leading knowledge about AI and its uses, Europe will need to build a world-class AI research and dissemination organization, whose capacity could be organized and shared jointly with our partners worldwide, as is currently done through successful organizations such as CERN.

3) Workshop Details

Venue: CNRS Abraham de Moivre Mathematics Laboratory, Dept. of Mathematics, Imperial College London, South Kensington Campus, London, UK

Sponsors: Academia Europaea & The CNRS Abraham de Moivre Mathematics Laboratory, Imperial College London

Co-Sponsor: Foundation for Science and Technology, UK

Workshop Organizing Committee: Prof Dan Crisan, Dept. of Mathematics, Imperial College London, Prof Erol Gelenbe, Institute of Theoretical and Applied Informatics, Polish Academy of Sciences, Dr Federica Pratola, Dept. of Mathematics, Imperial College London

#### Tentative Schedule

Introductory remarks by Workshop Co-Chairs: Prof Erol Gelenbe, Prof Veronique Halloin, and Prof Dan Crisan on behalf of the CNRS Abraham de Moivre Laboratory, Imperial College

Keynotes:

- Prof Eric Xing, President, Mohammed Ben Zayed University of AI (Abu Dhabi) & Carnegie Mellon University, « Title TBD »
- Ms Zeina Zakhour, CEO Global Security Eviden/ATOS, “AI for Cybersecurity and the Security of AI”, <zeina.zakhour@eviden.com>

AI Methods

- Prof Thomas Eitner MAE, Vienna Technical University, Fellow of Austrian Academy of Sciences, “Logic versus ML: Links to the Foundations of AI”
- Prof Iryna Gurevych, TU Darmstadt, “How to InterText? Modeling Text as a Living Object in Context”, iryna.gurevych@tu-darmstadt.de
- Prof Eric Moulines, Ecole Polytechnique, France “Advances in Transfer Learning”
- Dr Tolga Birdal, Imperial College, “Topological Deep Learning: Beyond Graph Data”
- Prof Yonina Eldar MAE, Hebrew University of Jerusalem, Fellow of Israel Acad. of Sciences “Signal Acquisition Learning”
- Prof Anna Korhonen, University of Cambridge, “Towards globally equitable language technologies,” anna.korhonen@gmail.com, (Sep 5)
- Prof Erol Gelenbe MAE, “Quantum Neural Networks: A Theoretical Framework”
- Dr Marco di Renzo MAE, CNRS “Smart Metasurfaces for Communications”

Brain Modelling

- Dr Samuel Laurent-Deslosieres, INRIA, “Modeling the Brain Connectome”
- Prof Dan Farina, Imperial College, “Mapping Brain and Spinal Sensorimotor Activity”

AI in Healthcare

- Prof Bernard Macq, Univ. of Louvain, « Coalition Learning for Healthcare»
- Prof Payam Barnaghi, Imperial College, “AI for Personalized Healthcare Alerts”
- James Cole (UCL) “AI in the Analysis of Brain Ageing” <https://profiles.ucl.ac.uk/32379-james-cole>

AI in Cybersecurity, Trust and Privacy

- Dr Alexandre de Montjoye, Imperial College, “Computational Privacy and AI”
- Prof Zheng Yan, Xidan University, “AI-empowered Trust and Trust-controlled AI”

AI in Engineering

- Prof Louis Wehenkel MAE, Univ. of Liege (Belgium), “Physics informed machine learning for the operation of bulk electric power systems”
- Dr Ekin Dogus Cubuk, Google DeepMind, “An autonomous laboratory for the accelerated synthesis of novel materials”
- Prof Alexandra Brintrup, Cambridge University, “Explainable AI for Supply Chains”, ab702@eng.cam.ac.uk
- Dr Emannuell Papastavridis, Kings College “Interchangeability between AI and Control Theory for the Control of Robots”
- Prof Eiman Kanjo, Nottingham Trent University and Imperial College,

“Tiny ML” ekanjo@ic.ac.uk

- Dr. Guodong Wang, CTO, Coovally Computing S.L. “AI Dev Workflow for Enterprise Efficiency” E-mail: [gwang@coovally.com](mailto:gwang@coovally.com)

- **Report from the AE Task Force on Environment, Sustainability, and Climate (TFESC): Chaired by Professor Peter Wagner (Barcelona)**

The AE Board of Trustees established the TFESC as a permanent AE activity early in 2023 after in the preceding year a preliminary Task Force: had organized an online survey among AE members about their views about possible AE engagement in this thematic area; had presented the findings of this survey at the Building Bridges conference in Barcelona in October 2022; and had solicited further expressions of interest from participants in this presentation. The insights gathered from these investigations form the background of the TF activity.

Composition:

The Task Force is composed of ten members; eight being members of AE covering all AE classes and two members of the Young Academy of Europe (YAE). The current composition is as follows (for changes during 2023 see below):

- Helena Bilandzic (communication and media studies, Germany)
- Scott Bremer (climate adaptation governance, Norway, YAE)
- Stephen Evans (engineering, United Kingdom)
- Poul Holm (history, Ireland)
- Jane Hill (ecology, United Kingdom)
- Eystein Jansen (paleoclimatology, Norway)
- Phoebe Koundouri (economics, Greece), co-chair
- Nebojsa Nakicenovic (technological and social change, Austria)
- Katalin Solymosi (plant biology, Hungary, YAE)
- Peter Wagner (social theory and historical sociology, Spain), chair

The core activity:

Knowledge bases and transformative practices with regard to food security and sustainability

A key concern shared by many respondents to our surveys is what is known as the gap between knowledge and action in environmental matters and the communication between scientists, policy-makers and the public. For its first core activity, therefore, the Task Force decided to focus on - in short - the science-policy-public interface as a key topic for investigation and action. Beyond being crucial for effective environmental action, this topic also permits to use the core characteristics of AE, namely the broad interdisciplinary expertise and the coverage of all Europe. After extended discussion, furthermore, the Task Force elected to focus on food security and sustainability as the substantive topic through which to move from environmental knowledge to transformative practices.

Against this background, a main activity of TFESC during 2023 has been the organization of a workshop on Healthy food and sustainable agriculture, held at the University of Cambridge

from 20-22 September 2023. Based on an assessment of the available knowledge, on which several reports have just appeared, the aim of the workshop was to identify practices which are levers, points of intervention with a high transformative potential. As conceptualized in this approach, transformative practices are based on knowledge about earth systems and social systems, they include knowledge about issues of governance and a normative dimension, as in law and religion, they take a long-term and international comparative approach, and are aware of the mediatization of society, and the resulting communication challenges, and create narratives rather than mere facts. To actually bring the knowledge to fruition, they use techno-social problem-solving capacities, including economic capacities.

Summarizing the results of the workshop, three accomplishments can be highlighted:

- The workshop provided a means for AE members to actively engage in AE activities on themes of an inter-disciplinary nature and of key current significance and urgency. This was much appreciated.

- The workshop showed a way for AE to move beyond scholarly exchange and evidence reports provided at request towards exploring and proposing transformative practices on selected themes of an inter-disciplinary nature and of key current significance and urgency. The workshop confirmed the view of the TF that this is a useful and even necessary move.

- With regard to the selected theme, Healthy Food and Sustainable Agriculture, the workshop was able to concretely design possible transformative practices. The key proposal was for AE to engage in, and champion, the creation of an Intergovernmental Panel on Food Security and Sustainability (IPFSS), inspired by and building on the experiences with the Intergovernmental Panel on Climate Change (IPCC) and the Intergovernmental Science- Policy Platform on Biodiversity and Ecosystem Services (IPBES). It was hypothesized that the Human Trophic Level, closely related to meat consumption, could serve as an indicator and focus global policy debate on food security and sustainability in a way similar to the IPCC focus on the limitation of global warming, expressed in temperature increase since the onset of industrialization. Further proposals for transformative practices focussed on strategies of science communication and on the elaboration of scenario analyses for the issue of food and agriculture. These proposals were meant to be aligned with the IPFSS proposal.

The workshop results were presented in a plenary session of the Building Bridges conference in Munich on 11 October 2023 and were received with great interest and support. In parallel, a concept note on the IPFSS proposal was submitted to and approved by the AE Board of Trustees. After approval by the Board and positive reception at Building Bridges, those TFESC members present in Munich held a meeting in which it was agreed to set up working groups to further advance the proposal for creating an Intergovernmental Panel on Food Security and Sustainability (IPFSS) and for the work of TFESC overall.

In this initial debate, working groups were designed to explore:

- the history of the creation of previous intergovernmental panels, in particular the IPBES but also the IPCC with a view to learning from those experiences;

- the main features of the Human Trophic Level and its usefulness as well as limitations as an action-guiding indicator for food security and sustainability;

- options for funding of future TFESC activities;

- details of the future communication strategy.

In the course of further explorations, additionally, the need emerged for gaining a more comprehensive overview of related initiatives and, where appropriate, to establish contact with relevant such activities. At the subsequent full meeting of TFESC on 30 November 2023, therefore, it was agreed to pursue work on this overview as well as to start the exploration on the first two above-mentioned topics. The aim was to be able to arrive at an analysis of the state of debate that is sufficient to concretize further steps early in 2024. Timewise, the report on this core activity during 2023 would end here. Given the intense work since the November meeting, though, we can and should report on further insights, not least because they entailed some change of direction, in two main respects. First, even though the Human Trophic Level is already used as a partial indicator in the pursuit of the United Nations Sustainable Development Goals, it emerged that it is not suitable as a key orientation for an IPFSS, due to the complexity of the issue. From the beginning, second, a main question was in how far the proposed IPFSS could complement and accentuate existing global science-policy interaction on food security and sustainability. It was envisaged that the IPFSS could provide a focus and sharpen global public debate in communication and coordination with existing permanent organisations, as in this case most centrally the Food and Agriculture Organization (FAO), as well as with research centres. Our explorations determined that there was ongoing and quite contested debate between various actors about the usefulness and orientation of an IP Food and that a non- governmental International Panel of Experts on Sustainable Food Systems (iPES Food) is already quite active across several world-regions. Against this background, the Task Force concluded that the proposal for an IPFSS risked to have a counter-productive effect on current debate. It will continue by other means to enhance global public knowledge and awareness on the urgent issue of food security and sustainability (on which more detail below).

Publications:

Upon invitation of the editor of European Review in follow-up of the panel presentation at Munich Building Bridges, the Task Force is preparing a special section of the journal under the preliminary title "Food security and sustainability: towards global coordinated action". Authored by members of the Task Force in varying combinations, the issue proposal currently consists of three articles, with tentative titles as follows:

- Food systems policy and research initiatives – an overview
- Communicating the sustainability of food and food systems to consumers: the challenge of the double jeopardy
- Knowledge shaping action:

the shifting framing of climate change through IPCC, COP, and the media

Further activities in 2023:

TFESC supported the conference The Anthropocene: from boundaries to bonds: interdisciplinary crossovers in knowledge development, organized by the University of Wrocław and Academia Europaea Wrocław Knowledge Hub and held in Wrocław from 19-20 October 2023. Scott Bremer presented the work of TFESC at the conference.

Further initiatives:

The Task Force, with the AE Munich Knowledge Hub as legal entity, is a partner in the project "Models, data and innovative approaches to enhance meat and dairy safety in a changing climate" (MEADsafe), of which the Athena Research and Innovation Center is the lead coordinator and which has been submitted for funding to Horizon Europe.

The Task Force is currently discussing a submission to the call "Science Missions for Sustainability" by the International Science Council (submission date for expressions of interest in pilot projects 31 May 2024).

Mode of operation:

At the moment of its constitution as a permanent AE activity, the Task Force was composed of nine members rather than the envisaged ten, with Verena Winiwarter (AE section history and archaeology, Austria) as chair. For health reasons, Verena Winiwarter resigned from the position as chair and later as member of the Task Force as well. The Task Force elected Peter Wagner as new chair and completed its membership by inviting Helena Bilandzic (AE section Film, Media, and Visual Studies) and Phoebe Koundouri (AE section Economics, Business, and Management Sciences) to join its activities, both of whom kindly accepted. Phoebe Koundouri was also elected as co-chair.

The Task Force was initially supported by the AE Bergen Knowledge Hub and a budget of €10.000. At its full constitution, the Board of Trustees granted a further €20.000, which served for organizing the activities in 2023, in particular the workshop at the University of Cambridge. The Task Force has received administrative support from the AE Cardiff Knowledge Hub (Juliet Davies); any expenses are currently directly paid by AEHQ in London from the allocated budget.

For the TFESC:

Peter Wagner  
Barcelona, 14 May 2024

- **The AE HERCuLES group (Higher Education, Research and Culture in European Societies)**

Under the Chairmanship of Professor Lars Engwall, the HERCuLES group co-organised with the sponsorship and support of the Wenner Gren Foundations (Sweden) an international symposium: **"Publishing in Academia: Digital Challenges"**. This was held at the Wenner-Gren Center in Stockholm, May 10-12, 2023. The group also held its annual business meeting. The symposium will be published as an open access supplement in the European Review in 2024.

**Symposium programme organisers were: HERCuLES members - Lars Engwall (Chair), Kirsten Drotner, Theo D'haen and Marcel Swart**

**Objective:** Modern information technology has provided opportunities for a faster dissemination of information, including the presentation of research results and data from scientific projects. In this way, there are today unprecedented opportunities for an open science. Any information is possible to upload when a researcher finds it appropriate to do so. In this situation, a consortium of major national research agencies and funders from twelve European countries launched the initiative Plan S requiring by 2020 researchers who benefit from public funding to publish their work in open repositories or in journals that are available to all.

In principle, the idea behind Plan S is very logical: the outcome of publicly funded research should be regarded public property. However, in practice it is associated with both opportunities and challenges. At the same time as the ease of publication implies prospects for faster and wider diffusion of research result, it may lead to quality problems. It also appears that the publishing industry is taking advantage of the project by means of profitable payment models. This in turn has implications for the role of libraries and the economic conditions of universities. Above all, there are indications that the digitalization of academic publishing has repercussions for early and mid-career researchers. Against this backdrop, the symposium will include sessions with expert presentations, followed by discussion, on recent developments in the publishing industry, the role of libraries, repercussions for researchers at different stages of their career and quality assessments.

## Programme speakers included:

### Key-note – State of the Art Johan Rooryck, MAE, Open Access Champion

#### *Wednesday May 10<sup>th</sup>*

##### **Session 1: The Publishing Industry**

Chris Graf, Committee on Publication Ethics, COPE and Springer Nature  
Dominic Mitchell, Operations Manager, Directory of Open Access Journals  
Masja Horn, Brill Publishing

##### **Session 2: The Role of Libraries**

Lars Burman, Chief Librarian of Uppsala University  
**Alexandra Vraneš, Library Studies, University of Belgrade, Belgrade, Serbia**

#### *Thursday May 11*

Session 3: Repercussions for Early Career Researchers  
Marina Rantanen Modeer, Board Member, Marie Curie Alumni Association  
Scott Bremer, Representative of the Young Academy of Europe  
Pil Maria Saugmann, Eurodoc Secretariat Coordinator

##### **Session 4: Repercussions for Senior Researchers**

Peter Scott  
Stefan Helgesson, Professor of English, Stockholm University, Stockholm, Sweden  
Christine Musselin, Professor of Sociology, SciencePo, Paris, France

##### **Session 5: East European Countries**

George Sharvashidze, Former Rector of Ivane Javakishvili Tbilisi State University Georgia, Former Deputy Minister of Education and Science of Georgia  
Liviu Papadima, Dean of Faculty of Letters, University of Bucharest

##### **Session 6: Beyond Europe**

Abel Packer, SciELO (Scientific Electronic Library OnLine), a bibliographic database, digital library, and cooperative electronic publisher for open access journals for Latin America and Caribbean.  
Chengzhou He, Dean of Arts, Nanjing University.  
Osman Aldirdiri, Director at FORCE 11 (The Future of Research Communications and e-Scholarship) and Executive Committee Member at SPARC Africa (Scholarly Publishing and Academic Resources Coalition Africa).

#### *Friday May 12*

##### **Session 7: Quality Assessment of OA publishing**

Sven Stafström, Former Director General, the Swedish Research Council  
Sierd Cloetingh, Past President Academia Europaea, Vice President ERC  
Charlotte Wien, Director of Research, University Library of Southern Denmark

Session 8: Financial Consequences for Universities  
Astrid Söderbergh-Widding, Rector of Stockholm University, Sweden  
Bjørn Stensaker, Vice-Rector of University of Oslo, Norway

##### **Concluding Panel**

###### **Chair: Lars Engwall**

Theo D'haen, Former Editor of the European Review, Professor Emeritus of English and Comparative Literature  
Alban Kellerbauer, Editor of the European Review, Scientific officer, European Commission, Joint Research Centre, Karlsruhe, Germany  
Katalin Solymosi, Vice-Chair of the Young Academy of Europe, Assistant Professor of Plant Biology at the Eötvös Loránd University in Budapest.  
Milena Žic-Fuchs, AE Board Member, Professor of Linguistics, University of Zagreb, Former Croatian Minister of Science and Technology

- **Other Hubert Curien grant funded initiatives (member and/or Hub initiated) in 2023**

**The Anthropocene- from Boundaries to Bonds.** Interdisciplinary crossovers in Knowledge development (19-20 October 2023): held in collaboration with the AE Wrocław Knowledge Hub. Convened by professor LArw Walloe (former AE President) in collaboration with the Olga Tokarczuk Ex-Centre Prof Dorota Kolodziejczyk MAE

11 -12 October 2023 - **Writing Transcultural Literary History in a Globalised World**. – Professor Theo D’Haen, in co-sponsorship with the Swedish Collegium for Advanced Study and the Kungliche Humanistiska Vetenskaps-Samfundet i Uppsala. To be published in the European Review in 2024.

**Artificial Intelligence in Ophthalmology** 2023. June 22-23. Organised through the Wrocław Knowledge Hub by prof. Andrzej Grzybowski

- See: [https://www.ae-info.org/ae/Acad\\_Main/Past\\_Events/2011-present](https://www.ae-info.org/ae/Acad_Main/Past_Events/2011-present) for the full list of all AE linked events

In addition to the events listed above. The Board approved the establishing of a new international collaboration research network (TEA NET) The AE Translational Medicine Working Group (TMWG) network. It started its work on 1 January 2023. Its primary objective is to process, analyze, and interpret high-quality macro and micro data collected in the field of biomedical sciences with full European coverage. TMWG and training of talented research and clinical scientists dedicated to translational medicine are strongly promoted within AE, which is coordinated by the AE Clinical and Veterinary Section under the overall direction of Professor Peter Hegyi (Academic Director of the AE Budapest Knowledge Hub).

The **European partners** of the TEA NET will be Semmelweis University and the National Biomedical Foundation.

The **Asian partners** will be the Chinese University of Hong Kong (CUHK) in Hong Kong (coordinating site), and its collaborating or affiliated institutions in Shenzhen, including the Shenzhen Institute of Advanced Technologies [SIAT], CUHK Shenzhen Research Institute [SZRI], and CUHK Shenzhen Innovation and Technology Research Institute (Futian) [FITRI] at this stage.

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## **SECTION 7: Corporate, Hubs and membership**

### **2023 New members elected**

On 28th April 2023, the trustees (via zoom) approved the recommendation of the Classes and elected new members as follows: Class A1 (Humanities) – 67 new members; Class A2 (Social and Related Sciences) – 55 new members; Class B (Natural Sciences) – 80 new members and Class C (Life Sciences) – 140 new members. A full list of 2023 new members, allocated by Class and Section is at Annex 1.

The Class chairs responsible for oversight of the nominations process in 2023 were:

Class A1 – Humanities and Arts – Sections A1-A6 [Chair Professor Poul Holm (Trustee)]  
Class A2 – Social and related sciences – Sections A7 – A10 [Chair Prof Bjorn Wittrock (Trustee)]  
Class B – Exact and Natural Sciences – Sections B1 –B5 [Professor Paolo Papale (Trustee)]  
Class C – Life Sciences – Sections C1 – C5 [Professor Eva Kondorosi (Trustee)]

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### **Communications**

The Hubs and HQ (via the Cardiff Hub Communications team) issued regular electronic newsletters throughout the year. The Graz Data centre maintained the ae-info.org website and both Graz and Wrocław ensured that member data was updated, including for the new members elected in 2023. All new members were notified of the AE GDPR policy and members were asked to opt-in to that policy at the time of their election. Newsletters are archived on the ae-info website at:

### **Governance meetings held in 2023**

#### **The Trustees, Council and their subcommittees**

The Board of Trustees met to transact business virtually on 5 occasions throughout the year and in a physical Board meeting on 16<sup>th</sup> January and 8<sup>th</sup> October. All meetings were quorate. Minutes were filed.

A physical/virtual hybrid AGM took place on 9<sup>th</sup> October in Munich

Individual (virtual) Class meetings (of Section chairs) took place to decide on recommendations for election of new members.

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#### **35th Annual Business Meeting 2023 (AGM) – Munich 9th October held at 17:00 – 19:00 (CET)**

This was a hybrid meeting. The President Marja Makarow chaired the AGM. There were forty-eight physical delegates and forty-six virtual delegates present

**A number of electronic member-wide ballots had taken place in advance of the AGM (20 – 30 September. The results were reported to all members at the AGM.**

**Motion to adopt the examined accounts for the year ending 31 December 2022 - adopted**  
**Motion to adopt the trustees (activity report) for the year ending 31 December 2022 - adopted**  
**Motion to re-appoint the auditors (examiners) - approved**  
**Motion to set the level of membership fees for the year 2024 - approved**

**Large majorities had approved all motions.**

The President, Professor Marja Makarow welcomed members to Munich and thanked the local organisers (Professor Don Dingwell and Dr Friederike Brandthaus).

The announcement of the AGM had been published on the AE website and made known to all members by E-newsletter more than 21 days in advance. A series of online ballots had been announced and taken (between 20 – 30 September) on specific items of business (adoption of the annual accounts, annual activity report, re-appointment of examiners and recommended membership subscriptions for 2024). The draft agenda and all papers associated to the AGM were available on the website in advance and had been tabled for delegates in the room. No motions or resolutions from the membership had been received in advance, as set out in the notice for the AGM. The motion to approve the draft agenda was adopted by the members present.

The Honorary Treasurer (Professor Stephen Evans) summarised the financial position as set out in the accounts for 2022 and additionally gave indications of the current year. He reported that the financial position of the AE was stable. He highlighted the reliance of the AE on member donations for all areas of activity and reminded members that annual contributions were a vital part of their acceptance as members. He pointed out that there were still a significant number who did not contribute at all. He also raised the issue of the very small base of external financial support from non-member organisations.

A note of thanks was recorded for sponsors as follows: For the Heinz-Nixdorf Foundation (Erasmus prize and lecture), the sponsors of the Brenner Prize. Professor Eva Kondorosi for the Adam Kondorosi Plant Sciences awards, To the Swedish Riksbankens Jubileumsfonds for their support to Wroclaw Hub activities in 2021/22 and to the Wenner Gren Foundations for their continuing support to HERCuLES group activity.

Elections of Officers and appointments of trustees. There were no scheduled election in 2023

#### Appointments and co-options to the Board of trustees

A. A document had been tabled that set out the terms of service for those trustees that had been co-opted. Members present approved a proposal to renew the co-option for a fixed term for the following trustees:

- Professor Poul HOLM (Dublin) – Class chair (A1) Humanities – to 31st December 2025
- Professor Bjorn WITTROCK (Uppsala) – Class chair (A2) – Social and Societal Sciences – to 31st December 2024
- Professor Paolo PAPALE (Rome) – Class chair (B) – Exact Sciences – to 31st December 2027
- Professor Eva KONDOROSI (Budapest) – Class chair (C) - Life Sciences – to 31st December 2026

B. Members present also approved a proposal to continue the co-option of the following trustees on a renewable basis. As follows:

Professor Ole PETERSEN (Academic Director of the Cardiff Knowledge Hub) – to 31st December 2023  
Professor Eystein JANSEN (Academic Director of the Bergen Knowledge Hub) – to 31st December 2024  
Professor Milena ZIC-FUCHS – to 31st December 2025

#### Other reports

Professor Petersen (Academic Director of the Cardiff Hub), reported on AE involvement in the SAPEA and SAPEA Plus projects.

There followed a series of presentations by Hub managers as follows:

Barcelona (Prof. Jaume Bertranpetit Academic Director, Ms Maite Sánchez Riera - Hub Manager).

Bergen (Prof. Eystein Jansen Academic Director, Ms Kristen Baaken - Hub Manager).

Budapest (Prof Andras Baldi, Dr Gergely Bóhm, Hub manager).

Cardiff (Prof. Petersen Hub Director).

Tbilisi (Prof David Prangishvili – Academic Director, Ms Sofia Kobakhidze – Hub Manager),

Wroclaw Hub (Prof. Arkadiusz Wojs Academic Director, Ms Kasia Majkowska – Hub Manager),

Graz Data Centre (Dr Helmut Leitner – Centre manager, Ms Dana Kaiser manager)

Professor Alban Kellerbauer, the Editor-in-Chief of the journal – The European Review, gave a synopsis of the 2023 volume and reported on the translation into an Open Access Journal from 2025.

The President and Vice President then reported on developments at the Munich Hub, and announced the creation of a new independent legal entity – The Academia Europaea e.V. Professor Makarow reported that as of 20th September 2023, and new AE Munich legal entity (Academia Europaea e.V.) had been formally established. This development had been strongly endorsed by the AE Independent Advisory Group in 2022. All members of the AE had been informed of the plans at the AGM of 2022 and the strategic plan refers to the Board of trustees keeping the post-BREXIT situation under review. The background and motivation for this development was that the AE has its legal base in the UK and is a UK registered company and not-for-profit charity. None of the current Hubs is, in themselves, legal entities. Until Brexit, the UK was a full member of the Horizon programmes and our original

SAPEA funding came through the EU to London and Cardiff. Post-Brexit, the AE was still a member of the consortium of SAPEA Plus, but unable to be a beneficiary of EU funds. Current SAPEA plus funds that flows to the AE and Cardiff comes via the UK Research Funding Agency under UK-EU post-Brexit arrangements. This situation was a risk and was not guaranteed to be available for future SAPEA/Horizon programmes with the potential of exclusion of the AE from future EU funding streams. The Board and the IAG therefore agreed that the establishing of a separate legal entity at Munich (in an EU member state) would guarantee future AE participation, not only in SAPEA, but also in other possible EU funded projects. Since the creation of the new legal entity, the UK government has agreed to re-associate to the Horizon Europe programme that ends in 2027. However, this does not alter the current funding arrangements for SAPEA plus and the AE. Therefore, the intention is that the new Munich entity will become the AE HQ for all dealings with the EU and facilitate access for all members of the AE. The President then reported, that planning for SAPEA three is underway and is anticipated to cover five years, the period from 2025 to 2029. The call will open in 2024. The President also reported that the establishing of the new legal entity would not affect members. Both entities would continue for the foreseeable future and would co-administer aspects of the AE on behalf of all members. Members are de facto, members in common of both entities. These will still be a single identity for the AE, as far as external audiences are concerned.

There were no questions from the floor or interventions and the 2023 AGM was declared closed at 19:30pm

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## **SECTION 8: Statement of Trustees' Responsibilities**

The trustees (who are also the directors of 'The Academia Europaea – The Academy of Europe', for the purposes of company law) are responsible for preparing the Trustees' Report and the financial statements in accordance with applicable law and United Kingdom Accounting Standards (United Kingdom Generally Accepted Accounting Practice).

Company law requires the trustees' must not approve the financial statements unless they are satisfied that they give a true and fair view of the state of affairs of the charitable company and of the incoming resources and application of resources, including the income and expenditure, of the charitable company for that period. In preparing these financial statements, the trustees are required to:

- select suitable accounting policies and then apply them consistently;
- observe the methods and principles in the Charities SORP;
- make judgements and estimates that are reasonable and prudent;
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the charitable company will continue in operation.
- state whether applicable UK Accounting Standards have been followed, subject to any material departures disclosed and explained in the financial statements; and

The Trustees are responsible for keeping accounting records that are sufficient to show and explain the company's transactions and disclose with reasonable accuracy at any time the financial position of the charitable company and enable them to ensure that the financial statements comply with the Companies Act 2006. They are also responsible for safeguarding the assets of the charitable company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

In so far as the Trustees are aware:

- there is no relevant information of which the charitable company's examiner of accounts is unaware; and
- the trustees have taken all steps that they ought to have taken to make themselves aware of any relevant information and to establish that the examiner of accounts is aware of that information.

The Trustees are responsible for the maintenance and integrity of the corporate and financial information included on the charitable company's website. Legislation in the United Kingdom governing the preparation and dissemination of financial statements may differ from legislation in other jurisdictions

### **Risk assessment**

The trustees have assessed the major risks to which the charity is exposed, in particular, those relating to the operations and finances of the charity and post BREXIT impacts and are satisfied that systems are in place to mitigate our exposure to these risks. However, the situation will be kept under constant review and any necessary steps taken.

### **Financial Report**

The trustees confirm that suitable accounting policies have been used and applied consistently and that reasonable and prudent judgements and estimates have been made in the preparation of the financial statements for the year 1 January 2023 - 31 December 2023 The Trustees also confirm that applicable accounting standards have been followed and that the financial statements have been prepared on the going concern basis. The assets are available and adequate to fulfil obligations on a fund - by - fund basis.

The Academia is required by UK law to present its accounts in Pounds Sterling. A version expressed in Euros could be prepared by converting the figures at the exchange rate for a particular date, but this would not be accurate since transactions are spread



across the financial year, during which a range of exchange rates have existed. Any significant foreign exchange impacts are described in the notes to the accounts. The full accounts have been published separately to this activity report.

### **Reserves policy**

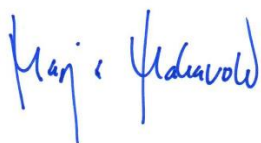
The total unrestricted funds for the year ended 31 December 2023 was £4,266 [YE 31 December 2022, £96,286]. The reserves were decreased by £54,042 due to the grant costs in regard to legal advice for the creation of the Academia Europaea e.V. It is the policy of the trustees to maintain sufficient reserves for the Academia Europaea to continue its charitable activities and in view of this, the trustees aim to achieve reserves equal to approximately six months of operations. Trustees are responsible to review the reserves policy every year. It is worth noting that there is a 10% deferred income from lifetime members that are recognised in the statement of financial activities annually. For the accounts year ended 31 December 2023 the deferred income in the creditors amounted to £175,684 while for the previous year 2022, it was £165,182.

### **Income and expenditure for the period ended 31 December 2023 (summary overview)**

The year was one of a cautious, continuing relaxation in expenditures as impacts of COVID loosened further and more physical events became possible. Our total income for the year was £319,607. Total expenditure was £514,713 the balance of funds brought forward to 2024 from 2023 was £183,710.

The AE as a charity seeks to operate an effective zero balance budget. We are essentially dependent upon members' donation income. In 2023, this was at £281,211 and life membership payments totalled £30,022 this represented a further, positive increase over previous years and a demonstration that members maintain an interest in the life of the academy. The Trustees stress to all members the importance of supporting the Academia by making a donation every year, preferably at the recommended level. Without more members making a payment, the AE will not be able to grow the range and type of activity and support for member initiatives that we need to deliver our obligations as a charity. Whilst a voluntary scheme remains our policy, the Trustees reviewed this policy and decided to levy a recommended general fee rate, linked to an age-related banding for annual donations, per member. Sponsorship continued to be successful for individual activity, and we thank the Wenner Gren Foundations (Sweden), The Heinz-Nixdorf Foundation (Germany), and The Balzan Foundation (Switzerland) for their support and the support of other sponsors. The Board continued to recognise the ongoing difficulty in obtaining core financial support from public and private institutions and expect that the Finance and Sponsorship sub-committee will try to address this.

The examiner's accounts for 2023 are filed separately and can be viewed through the Academia Europaea website, the UK government Companies House and the Charities Commission of England and Wales websites respectively.



**Marja Makarow, President**  
**On behalf of the Board of Trustees**

**August 2nd 2024**

**Annex 1: Members elected in 2023 and who received an invitation to accept membership**

**Class A1 – Humanities – Chair: Professor Poul Holm (Dublin))**

Class A1: Humanities and Arts  
 ACADEMIA EUROPAEA NOMINATIONS 2022/2023  
 Class Chair: Poul Holm  
 All nominations: 76  
 Foreign nominees: 2

Sect.		Full name	Country	Date of birth	Membership type
<b>A1</b>		<b><u>History &amp; Archaeology (13)</u></b>	<b>c. Amélia Polónia</b>		
A1	1	Bauer Stefan	United Kingdom	1972-09-26	ORDINARY
A1	2	Borhy László Rezső	Hungary	1963-04-24	ORDINARY
A1	3	Burghartz Susanna	Switzerland	1956-05-16	ORDINARY
A1	4	Echevarria Arsuaga Ana	Spain	1967-06-26	ORDINARY
A1	5	Ekroth Gunnel	Sweden	1963-??-??	ORDINARY
A1	6	Fernández-Götz Manuel	United Kingdom	1983-11-23	ORDINARY
A1	7	Hellman Lisa	Sweden	1984-06-08	ORDINARY
A1	8	Körner Axel	Germany	1967-10-11	ORDINARY
A1	9	Moscoco Javier	Spain	1966-02-23	ORDINARY
A1	10	Oosterbeek Luiz	Portugal	1960-08-24	ORDINARY
A1	11	Power Ronika	Australia	1975-07-28	FOREIGN
A1	12	Rapp Claudia	Austria	1961-06-20	ORDINARY
A1	13	Weltecke Dorothea	Germany	1967-06-10	ORDINARY
<b>A2</b>		<b><u>Classics &amp; Oriental Studies (5)</u></b>	<b>c. Gerd Haverling</b>		
A2	2	D'Alessio Giovan Battista	Italy	1966-10-20	ORDINARY
A2	4	Ragagnin Elisabetta	Italy	1972-10-07	ORDINARY
A2	5	Shanzer Danuta	Austria	1956-07-??	ORDINARY
A2	6	Sijpesteijn Petra	The Netherlands	1971-02-02	ORDINARY
<b>A3</b>		<b><u>Linguistic Studies (14)</u></b>	<b>c. Pier Marco Bertinotto</b>		
A3	1	Arkadiev Peter	Germany	1982-06-15	ORDINARY
A3	2	Boeckx Cedric	Belgium	1976-01-06	ORDINARY
A3	3	Costa João	Portugal	1972-11-04	ORDINARY
A3	4	Daniel Michael (Mikhail)	France	1972-09-13	ORDINARY
A3	6	Demirdache Hamida	France	1961-02-03	ORDINARY
A3	7	Demonte Violeta	Spain	1944-06-27	ORDINARY
A3	8	Dobrushina Nina	Germany	1968-09-28	ORDINARY
A3	9	Espinal Farré Maria Teresa	Spain	1956-11-02	ORDINARY
A3	10	Hilpert Martin	Switzerland	1977-06-04	ORDINARY
A3	11	Janse Mark	Belgium	1959-08-31	ORDINARY
A3	12	Nichols Johanna	United States	1945-01-01	FOREIGN
A3	13	Petit Daniel	France	1967-07-15	ORDINARY

A3	14	Poletto Cecilia	Germany	1962-07-17	ORDINARY
<b>A4</b>		<b><u>Literary &amp; Theatrical Studies (12)</u></b>	<b>c. Françoise Lavocat</b>		
A4	1	Alfano Giancarlo	Italy	1968-01-12	ORDINARY
A4	2	Bokobza Kahan Michèle	Israel	1957-11-09	ORDINARY
A4	4	Engberg-Pedersen Anders	Denmark	1980-??-??	ORDINARY
A4	5	Frank Søren	Denmark	1972-??-??	ORDINARY
A4	6	Louis Annick	France	1964-11-25	ORDINARY
A4	8	Mikkonen Kai	Finland	1965-05-03	ORDINARY
A4	10	Pulham Patricia	United Kingdom	1959-03-06	ORDINARY
<b>A5</b>		<b><u>Musicology and Art History (7)</u></b>	<b>c. Ulrich Pfisterer</b>		
A5	1	de Divitiis Bianca	Italy	1974-09-11	ORDINARY
A5	2	Flamm Christoph	Germany	1968-07-20	ORDINARY
A5	3	Grave Johannes	Germany	1976-03-22	ORDINARY
A5	4	Mücke Panja	Germany	1970-??-??	ORDINARY
A5	5	Piéjus Anne	France	1966-05-12	ORDINARY
A5	6	Shyp Serhiy	Ukraine	1950-09-17	ORDINARY
A5	7	Wöllner Clemens	Germany	1978-09-19	ORDINARY
<b>A6</b>		<b><u>Philosophy, Theology &amp; Religious Studies (15)</u></b>	<b>c. Mircea Dumitru</b>		
A6	1	Ben Menahem Yemima	Israel	1946-12-23	ORDINARY
A6	3	Crupi Vincenzo	Italy	1974-07-12	ORDINARY
A6	5	Edgington Dorothy	United Kingdom	1941-04-29	ORDINARY
A6	6	Fabre Cécile	United Kingdom	1971-02-02	ORDINARY
A6	7	Jalobeanu Daniela	Romania	1970-04-23	ORDINARY
A6	8	Kleingeld Pauline	The Netherlands	1962-10-30	ORDINARY
A6	9	List Christian	Germany	1973-11-07	ORDINARY
A6	10	Löwe Benedikt	Germany	1972-04-18	ORDINARY
A6	11	Miroiu Mihaela	Romania	1955-03-10	ORDINARY
A6	12	Tamer Georges	Germany	1960-06-12	ORDINARY
A6	13	Timmermann Jens	United Kingdom	1970-05-01	ORDINARY
A6	14	Valentini Laura	Germany	1982-01-23	ORDINARY
A6	15	Weber Marcel	Switzerland	1964-10-05	ORDINARY
<b>A7</b>		<b><u>Film, Media and Visual Studies (10)</u></b>	<b>c. Göran Bolin</b>		
A7	1	Bajomi-Lazar Peter	Hungary	1963-12-23	ORDINARY
A7	2	Beullens Kathleen	Belgium	1980-12-03	ORDINARY
A7	3	d'Haenens Leen	Belgium	1966-03-12	ORDINARY
A7	4	Kennedy Helen	United Kingdom	1965-??-??	ORDINARY
A7	6	Ribeiro Nelson	Portugal	1976-02-09	ORDINARY
A7	7	Rožukalne Anda	Latvia	1965-??-??	ORDINARY
A7	8	Sanchez Biosca Vicente	Spain	1957-??-??	ORDINARY
A7	9	Scolari Carlos Alberto	Spain	1963-10-16	ORDINARY
A7	10	Sousa Helena	Portugal	1967-??-??	ORDINARY

**RECOMMENDED FOR ELECTION: 67 (87 % of the total nominations)**  
**Ordinary members ... (85 % of the nominations for Ordinary membership)**  
**Foreign members ... (100% of the nominations for Foreign membership)**

**Class A2 - Social and Societal sciences: Class chair Professor Bjorn Wittrock (Uppsala)**

Class A2: Social and Related Sciences  
 ACADEMIA EUROPAEA NOMINATIONS 2022/2023  
 Class Chair: Björn Wittrock  
 All nominations: 58  
 Foreign nominees: 3

Sect.		Full name	Country	Date of birth	Membership type
<b>A8</b>		<b><u>Economics, Business and Management Sciences (15)</u></b>	<b>c. Martin Kahanec</b>		
A8	1	Czakon Wojciech	Poland	1975-11-08	ORDINARY
A8	2	Daianu Daniel	Romania	1952-08-30	ORDINARY
A8	3	Gerber Anke	Germany	1970-??-??	ORDINARY
A8	4	Havrankova Zuzana	Czech Republic	1985-12-31	ORDINARY
A8	5	Kocenda Evzen	Czech Republic	1963-01-31	ORDINARY
A8	6	Kramarz Francis	France	1958-03-08	ORDINARY
A8	7	Molina José Alberto	Spain	1963-09-02	ORDINARY
A8	8	Nillesen Eleonora	The Netherlands	1975-11-05	ORDINARY
A8	9	Pagano Marco	Italy	1956-11-26	ORDINARY
A8	10	Saint-Paul Gilles	France	1963-02-08	ORDINARY
A8	11	Tyran Jean-Robert	Austria	1967-04-29	ORDINARY
A8	12	Tyrowicz Joanna	Poland	1980-11-25	ORDINARY
A8	13	Van Tulder Rob	The Netherlands	1956-06-10	ORDINARY
A8	14	Weber Andrea	Austria	1965-01-12	ORDINARY
A8	15	Woessmann Ludger	Germany	1973-07-01	ORDINARY
<b>A9</b>		<b><u>Governance, Institutions And Policies: Education, Health and Welfare (14)</u></b>	<b>c. Peter Scott</b>		
A9	1	Aligica Dragos Paul	Romania	1966-10-17	ORDINARY
A9	2	Andreescu Gabriel	Romania	1952-04-08	ORDINARY
A9	3	Callender Claire	United Kingdom	1954-04-26	ORDINARY
A9	6	Leisyte Liudvika	Germany	1974-05-06	ORDINARY
A9	7	Lundqvist Åsa	Sweden	1968-07-28	ORDINARY
A9	8	Lyngstad Torkild	Norway	1976-08-20	ORDINARY
A9	9	Markkola Pirjo	Finland	1959-07-22	ORDINARY
A9	10	Randma-Liiv Tiina	Estonia	1968-08-08	ORDINARY
A9	11	Salles Marie-Laure	Switzerland	1965-08-14	ORDINARY

A9	12	Sylva Kathy	United Kingdom	1940-01-01	ORDINARY
A9	13	Vanhuyse Pieter	Belgium	1974-12-24	ORDINARY
A9	14	White Jonathan	United Kingdom	1978-??-??	ORDINARY
<b>A10</b>		<b><u>Human Mobility, Governance, Environment and Space (4)</u></b>	<b>c. Maria Paradiso</b>		
A10	1	Gandy Matthew	United Kingdom	1965-05-04	ORDINARY
A10	2	Scherbov Sergei	Austria	1952-08-13	ORDINARY
A10	4	Witlox Frank	Belgium	1967-09-08	ORDINARY
<b>A11</b>		<b><u>Law (12)</u></b>	<b>c. Nina Dethloff</b>		
A11	1	Chanturia Lado	France	1963-04-14	ORDINARY
A11	2	De Franceschi Alberto	Italy	1978-12-15	ORDINARY
A11	3	Ebbesson Jonas	Sweden	1963-11-17	ORDINARY
A11	4	Halberstam Daniel	United States	1966-12-02	FOREIGN
A11	5	Lehmann Matthias	Austria	1972-01-13	ORDINARY
A11	6	Lemaitre Ripoll Julieta	Colombia	1969-10-18	FOREIGN
A11	7	Lindahl Hans	The Netherlands	1958-02-12	ORDINARY
A11	8	Mansel Heinz-Peter	Germany	1958-01-05	ORDINARY
A11	9	Meissel Franz-Stefan	Austria	1966-04-23	ORDINARY
A11	10	Nielsen Peter Arndt	Denmark	1965-03-19	ORDINARY
A11	11	Samuelsson Joel	Sweden	1973-06-06	ORDINARY
A11	12	Wudarski Arkadiusz	Poland	1972-12-07	ORDINARY
<b>A12</b>		<b><u>Social Change and Social Thought (7)</u></b>	<b>c. Peter Wagner</b>		
A12	1	Brunner Jose	Israel	1954-06-22	ORDINARY
A12	2	Carsten Janet	United Kingdom	1955-10-23	ORDINARY
A12	3	Corsín Jiménez Alberto	Spain	1973-01-12	ORDINARY
A12	4	Goldhill Simon	United Kingdom	1957-03-17	ORDINARY
A12	5	Lahlou Saadi	France	1960-02-19	ORDINARY
A12	6	Roessler Beate	The Netherlands	1958-??-??	ORDINARY
A12	7	Tamm Marek	Estonia	1973-11-04	ORDINARY
<b>A13</b>		<b><u>The Human Mind And Its Complexity (6)</u></b>	<b>c. Jüri Allik</b>		
A13	1	Kujala Teija	Finland	1964-05-31	ORDINARY
A13	2	Muñiz José	Spain	1949-12-24	ORDINARY
A13	3	Peiro Silla Jose	Spain	1950-03-05	ORDINARY
A13	4	Räikkönen Katri	Finland	1963-10-03	ORDINARY
A13	5	Snowling Margaret (Maggie)	United Kingdom	1955-07-15	ORDINARY
A13	6	Winkielman Piotr	United States	1966-03-20	FOREIGN

RECOMMENDED FOR ELECTION: ... (... % of the total nominations) **55 (94,8 %)**  
 Ordinary members ... (... % of the nominations for Ordinary membership) **52 (94,5 %)**  
 Foreign members ... (... of the nominations for Foreign membership) **3 (100 %)**

**Class B - Exact Sciences: Chair Paolo Papale (Rome)**

Class B: Exact Sciences ACADEMIA EUROPAEA 2022/2023 Class Chair: Paolo Papale All nominations: 203 Foreign nominees: 95					
Sect.		Full name (Surname first)	Country	Date of birth	Membership type
<b>B1</b>		<b><u>Mathematics (11)</u></b>	<b>c. Philippe Michel</b>		
B1	1	Ball Keith	United Kingdom	1960-12-26	ORDINARY
B1	2	Carrillo de la Plata Jose Antonio	United Kingdom	1969-12-29	ORDINARY
B1	3	Chambert-Loir Antoine	France	1971-04-26	ORDINARY
B1	5	Farkas Gavril	Germany	1973-03-19	ORDINARY
B1	6	Fokas Athanasios	United Kingdom	1952-06-30	ORDINARY
B1	7	Hesthaven Jan Sickmann	Switzerland	1965-12-10	ORDINARY
B1	8	Markowich Peter	Saudi Arabia	1956-12-16	FOREIGN
B1	9	Peng Shige	China	1947-12-08	FOREIGN
B1	10	van der Vaart Aad (Adrianus Willem)	The Netherlands	1959-07-12	ORDINARY
B1	11	Xu Jinchao	United States	1961-06-23	FOREIGN
<b>B2</b>		<b><u>Informatics (77)</u></b>	<b>c. Erol Gelenbe</b>		
B2	1	Alpaydin Ethem	Turkey	1966-06-23	ORDINARY
B2	2	Baeza-Yates Ricardo	Spain	1961-03-21	ORDINARY
B2	4	Blazewicz Jacek	Poland	1951-08-11	ORDINARY
B2	5	Bovik Alan	United States	1958-06-25	FOREIGN
B2	6	Chellappa Ramalingam	USA	1953-04-08	FOREIGN
B2	14	De Moor Bart	Belgium	1960-07-12	ORDINARY
B2	15	Denning Peter	United States	1942-01-06	FOREIGN
B2	16	Deriche Rachid	France	1954-06-05	ORDINARY
B2	17	Di Pietro Roberto	Qatar	1970-02-27	FOREIGN
B2	19	Eldar Yonina	Israel	1973-01-25	ORDINARY
B2	20	Ersoy Cem	Turkey	1963-09-28	ORDINARY
B2	21	Garofalakis Minos	Greece	1969-02-02	ORDINARY
B2	28	Khoussainov Bakhadyr	China	1961-01-31	FOREIGN
B2	40	Moniz Pereira Luís	Portugal	1947-12-20	ORDINARY
B2	46	Pollefeys Marc	Switzerland	1971-05-01	ORDINARY
B2	47	Ponce Jean	France	1958-08-15	ORDINARY
B2	50	Samarati Pierangela	Italy	1965-10-12	ORDINARY

B2	52	Seidel Raimund	Germany	1959-??-??	ORDINARY
B2	57	Skowron Andrzej	Poland	1943-10-06	ORDINARY
B2	62	Tannen Val	United States	1953-09-24	FOREIGN
B2	63	Tassiulas Leandros	United States	1965-01-12	FOREIGN
B2	77	Zhao Guoying	Finland	1977-11-20	ORDINARY
<b>B3</b>		<b>Physics and Engineering Sciences (54)</b>	<b>c. Pavel Exner</b>		
B3	3	Chen Long-Qing	United States	1962-12-16	FOREIGN
B3	8	Criado Regino	Spain	1960-06-07	ORDINARY
B3	10	Dai Jian Sheng	United Kingdom	1954-02-22	ORDINARY
B3	11	Domokos Peter	Hungary	1970-03-01	ORDINARY
B3	12	Ernst Thomas	France	1974-06-06	ORDINARY
B3	13	Ferroni Fernando	Italy	1952-01-12	ORDINARY
B3	21	Koivunen Visa	Finland	1905-04-17	ORDINARY
B3	22	Kunt Murat	Switzerland	1945-01-16	ORDINARY
B3	23	Kurizki Gershon	Israel	1952-10-29	ORDINARY
B3	25	Lelebici Yusuf	Turkey	1962-08-14	ORDINARY
B3	28	Nandi Asoke	United Kingdom	1954-01-01	ORDINARY
B3	29	Nori Franco	Japan	1959-07-07	FOREIGN
B3	32	Rabczuk Timon	Germany	1972-02-05	ORDINARY
B3	33	Riedo Elisa	United States	1971-09-23	FOREIGN
B3	34	Rittel Daniel	Israel	1956-09-29	ORDINARY
B3	36	Shao Jian-Fu	France	1961-10-09	ORDINARY
B3	43	Wen Dongsheng	Germany	1975-10-02	ORDINARY
B3	52	Zhu Yuntian	China	1963-06-05	FOREIGN
<b>B4</b>		<b>Chemical Sciences (31)</b>	<b>c. Ulrike Diebold</b>		
B4	1	Balasubramanian Shankar	United Kingdom	1966-09-30	ORDINARY
B4	3	Dai Liming	Australia	1961-10-10	FOREIGN
B4	7	Fensterbank Louis	France	1967-12-22	ORDINARY
B4	8	Ghosh Abhik	Norway	1964-06-12	ORDINARY
B4	10	Haran Gilad	Israel	1960-01-16	ORDINARY
B4	11	Jiang Lei	China	1965-03-24	FOREIGN
B4	12	Keserű György Miklós	Hungary	1967-08-31	ORDINARY
B4	13	Klenerman David	United Kingdom	1959-09-09	ORDINARY
B4	14	Kolb Ute	Germany	1963-03-08	ORDINARY
B4	15	Kónya Zoltán	Hungary	1971-01-10	ORDINARY
B4	17	Libuda Jörg	Germany	1968-05-29	ORDINARY
B4	20	Malliaras George	United Kingdom	1969-06-05	ORDINARY
B4	22	Salleo Alberto	United States	1971-04-03	FOREIGN
B4	24	Strasser Peter	Germany	1969-04-18	ORDINARY
B4	25	van Hest Jan	The Netherlands	1968-09-27	ORDINARY
<b>B5</b>		<b>Earth and Cosmic Sciences (30)</b>	<b>c. Mike Burton</b>		
B5	1	Bakke Jostein	Norway	1972-11-29	ORDINARY
B5	3	Bernier-Latmani Rizlan	Switzerland	1972-07-19	ORDINARY

B5	4	Cai Zongwei	China	1962-01-28	FOREIGN
B5	5	Carcas Razvan	France	1973-06-06	ORDINARY
B5	6	Cesare Bernardo	Italy	1963-08-12	ORDINARY
B5	7	Conticelli Sandro	Italy	1959-05-19	ORDINARY
B5	9	Gamba Paolo	Italy	1965-04-05	ORDINARY
B5	10	Gleeson Sarah	Germany	1970-03-05	ORDINARY
B5	13	Horne Richard	United Kingdom	1955-10-05	ORDINARY
B5	14	Jiang Tong	China	1962-08-27	FOREIGN
B5	15	Kohn Tamar	Switzerland	1973-07-03	ORDINARY
B5	16	Lugaro Maria	Hungary	1970-05-26	ORDINARY
B5	17	Marone Chris	Italy	1959-05-24	ORDINARY
B5	18	McDonnell Jeffrey	Canada	1959-10-20	FOREIGN
B5	24	Qiao Fangli	China	1966-08-18	FOREIGN
B5	30	Zhang Yang	United States	1965-10-19	FOREIGN

**RECOMMENDED FOR ELECTION: 80 (39.9 % of the total nominations)**

**Ordinary members 60 (55.6 % of the nominations for Ordinary membership)**

**Foreign members 22 (23.2 % of the nominations for Foreign membership)**

**Class C – Life Sciences: Chair Eva Kondorosi. Vice-chair Robert Zorec**

Class C: Life Sciences  
ACADEMIA EUROPAEA 2022/2023, Class Chair. Eva Kondorosi

Sect.		Full name	Country	Date of birth	Membership type
<b>C1</b>		<b>Biochemistry and Molecular Biology (18)</b>	<b>c. Ray Dixon</b>		
C1	1	Atilgan Canan	Turkey	1969	ORDINARY
C1	4	Grune Tilman	Germany	1962	ORDINARY
C1	6	Ivaska Johanna	Finland	1972	ORDINARY
C1	7	Liang Xing-Jie	China	1972	FOREIGN
C1	8	Lilley Kathryn	United Kingdom	1964	ORDINARY
C2	9	Mannervik Bengt	Sweden	1943	ORDINARY
C2	10	Meisinger Chris	Germany	1967	ORDINARY
C2	11	Saleh Maria Carla	France	1971	ORDINARY
C2	12	Sansom Mark	United Kingdom	1957	ORDINARY
C2	13	Schwartz Olivier	France	1962	ORDINARY
C2	14	Silvennoinen Olli	Finland	1960	ORDINARY
C2	15	Tollervey David	United Kingdom	1955	ORDINARY
C2	16	Vlahoviček Kristian	Croatia	1971	ORDINARY
C2	18	Zažimalová Eva	Czech Republic	1955	ORDINARY
<b>C2</b>		<b>Cell and Developmental Biology (9)</b>	<b>c. Crisanto Gutierrez</b>		
C2	2	Echard Arnaud	France	1972	ORDINARY



C2	5	Martin Seamus	Ireland	1966	ORDINARY
C2	6	van Kooyk Yvette	The Netherlands	1961	ORDINARY
C2	7	Zaccolo Manuela	United Kingdom	1963	ORDINARY
C2	9	Zurzolo Chiara	France	1960	ORDINARY
<b>C3</b>		<b><u>Physiology and Neuroscience (19)</u></b>	<b>c. Balázs Gulyás</b>		
C3	1	Annaert Wim	Belgium	1963	ORDINARY
C3	3	Dalkara Turgay	Turkey	1952	ORDINARY
C3	5	Harris Kenneth	United Kingdom	1971	ORDINARY
C3	7	Jia Wei	China	1965	FOREIGN
C3	8	Kooy R. Frank	Belgium	1959	ORDINARY
C3	9	Li Peifeng	China	1963	FOREIGN
C3	10	Lipp Hans-Peter	Switzerland	1947	ORDINARY
C3	11	Mansvelder Huibert	The Netherlands	1968	ORDINARY
C3	14	Morrone Maria Concetta	Italy	1955	ORDINARY
C3	15	Nogueiras Rubén	Spain	1977	ORDINARY
C3	16	Reiner Orly	Israel	1958	ORDINARY
C3	17	Schoofs Liliane	Belgium	1962	ORDINARY
C3	18	Smith Godfrey	United Kingdom	1957	ORDINARY
<b>C4</b>		<b><u>Organismic and Evolutionary Biology (15)</u></b>	<b>c. András Báldi</b>		
C4	1	Batáry Péter	Hungary	1976	ORDINARY
C4	2	Boitani Luigi	Italy	1946	ORDINARY
C4	3	Borges Paulo	Portugal	1965	ORDINARY
C4	4	Elena Santiago	Spain	1967	ORDINARY
C4	5	Lambrechts Louis	France	1980	ORDINARY
C4	6	Magurran Anne	United Kingdom	1955	ORDINARY
C4	7	Martin-Lopez Berta	Germany	1980	ORDINARY
C4	8	Menzel Annette	Germany	1966	ORDINARY
C4	9	Peres Carlos	United Kingdom	1963	ORDINARY
C4	10	Plieninger Tobias	Germany	1971	ORDINARY
C4	13	Storch David	Czech Republic	1970	ORDINARY
C4	14	Sutherland William	United Kingdom	1956	ORDINARY
<b>C5</b>		<b><u>Clinical and Veterinary Science (103)</u></b>	<b>c. Péter Hegyi</b>		
C5	1	Aarestrup Frank	Denmark	1966	ORDINARY
C5	2	Adami Hans-Olov	Sweden	1942	ORDINARY
C5	3	Agyemang Charles	The Netherlands	1968	ORDINARY
C5	4	Akslen Lars Andreas	Norway	1957	ORDINARY
C5	5	Barentsz Jelle	The Netherlands	1956	ORDINARY
C5	6	Baron Jean-Claude	France	1949	ORDINARY
C5	7	Bockaert Joël	France	1945	ORDINARY
C5	8	Bourhy Hervé	France	1960	ORDINARY
C5	9	Brewin Chris	United Kingdom	1953	ORDINARY
C5	10	Buitelaar Jan	The Netherlands	1953	ORDINARY

C5	11	Bustin Stephen	United Kingdom	1954	ORDINARY
C5	12	Dahlback Björn	Sweden	1949	ORDINARY
C5	13	Daly Ann	United Kingdom	1957	ORDINARY
C5	14	Davies Michael	Denmark	1960	ORDINARY
C2	15	Dayan Peter	Germany	1965	ORDINARY
C5	16	de Herder Wouter	The Netherlands	1960	ORDINARY
C5	17	De Wit Ronald	The Netherlands	1955	ORDINARY
C5	18	Delles Christian	United Kingdom	1969	ORDINARY
C5	19	Dorobantu Maria	Romania	1951	ORDINARY
C5	20	Duda Dan Gabriel	United States	1968	FOREIGN
C5	21	Efferth Thomas	Germany	1960	ORDINARY
C5	22	Einsele Hermann	Germany	1958	ORDINARY
C5	23	Elbert Thomas	Germany	1950	ORDINARY
C5	24	Engel Andreas Karl	Germany	1961	ORDINARY
C5	25	Esiri Margaret	United Kingdom	1941	ORDINARY
C5	26	Fauser Bart	The Netherlands	1954	ORDINARY
C5	27	Filippatos Gerasimos	Greece	1961	ORDINARY
C5	28	Gabbiani Giulio	Switzerland	1937	ORDINARY
C5	29	Gallese Vittorio	Italy	1959	ORDINARY
C5	30	Galvin Kathleen Theresa	United Kingdom	1964	ORDINARY
C5	31	Ganser Arnold	Germany	1954	ORDINARY
C5	32	Geddes John	United Kingdom	1961	ORDINARY
C5	34	Goldman Michel	Belgium	1955	ORDINARY
C5	35	Gordon Siamon	United Kingdom	1938	ORDINARY
C5	37	Hassabis Demis	United Kingdom	1976	ORDINARY
C5	38	Hemmer Bernhard	Germany	1963	ORDINARY
C5	39	Homey Bernhard	Germany	1968	ORDINARY
C5	40	Houlston Richard	United Kingdom	1956	ORDINARY
C5	41	Jarżab Barbara	Poland	1952	ORDINARY
C5	43	Joels Marian	The Netherlands	1956	ORDINARY
C5	44	Joensuu Heikki	Finland	1956	ORDINARY
C5	45	Key Timothy	United Kingdom	1955	ORDINARY
C5	46	Kiechl Stefan	Austria	1965	ORDINARY
C5	47	Klockgether Thomas	Germany	1956	ORDINARY
C5	48	Kuskowska-Wolk Alicja	Sweden	1951	ORDINARY
C5	49	Lambrecht Bart	Belgium	1968	ORDINARY
C5	50	Lau Chak-sing	Hong Kong	1959	FOREIGN
C5	51	Le Moal Michel	France	1934	ORDINARY
C5	52	Libra Massimo	Italy	1970	ORDINARY
C5	53	Lindvall Olle	Sweden	1946	ORDINARY
C5	54	Ljunggren Hans-Gustaf	Sweden	1961	ORDINARY
C5	55	Lord Christopher	United Kingdom	1970	ORDINARY
C5	56	Middeldorp Saskia	The Netherlands	1966	ORDINARY
C5	57	Misrahi Micheline	France	1955	ORDINARY
C5	58	Ning Guang	China	1963	FOREIGN
C5	59	Nolan Jerry	United Kingdom	1959	ORDINARY
C5	60	Opdenakker Ghislain	Belgium	1956	ORDINARY

C5	61	Ott German	Germany	1959	ORDINARY
C5	62	O'Neill Luke	Ireland	1964	ORDINARY
C5	63	Pekkanen Juha	Finland	1957	ORDINARY
C5	64	Peters Godefridus Johannes	The Netherlands	1952	ORDINARY
C5	65	Pickles Andrew	United Kingdom	1954	ORDINARY
C5	66	Pybus Oliver	United Kingdom	1974	ORDINARY
C5	67	Qiao Jie	China	1964	FOREIGN
C5	68	Qin Ling	China	1959	FOREIGN
C5	69	Raitakari Olli	Finland	1963	ORDINARY
C5	70	Rathmann Wolfgang	Germany	1958	ORDINARY
C5	71	Rees Geraint	United Kingdom	1967	ORDINARY
C5	72	Reitsma Pieter	The Netherlands	1950	ORDINARY
C5	73	Rello Jordi	Spain	1961	ORDINARY
C5	74	Ripatti Samuli	Finland	1969	ORDINARY
C5	75	Rose-John Stefan	Germany	1954	ORDINARY
C5	76	Rymaszewska Joanna	Poland	1968	ORDINARY
C5	77	Sanak Marek	Poland	1958	ORDINARY
C5	78	Sander Josemir	United Kingdom	1957	ORDINARY
C5	80	Sattar Naveed	United Kingdom	1967	ORDINARY
C5	81	Schapira Anthony	United Kingdom	1954	ORDINARY
C5	82	Schultz Wolfram	United Kingdom	1944	ORDINARY
C5	83	Schulze-Osthoff Klaus	Germany	1960	ORDINARY
C5	84	Skakkebaek Niels Erik	Denmark	1936	ORDINARY
C5	85	Snieder Harold	The Netherlands	1965	ORDINARY
C5	86	Sonuga-Barke Edmund	United Kingdom	1962	ORDINARY
C5	87	Spillantini Maria Grazia	United Kingdom	1957	ORDINARY
C5	88	Spiller Robin	United Kingdom	1950	ORDINARY
C5	89	Sprangers Mirjam	The Netherlands	1957	ORDINARY
C5	90	Swaab Dick	The Netherlands	1944	ORDINARY
C5	91	Tsatsakis Aristidis	Greece	1957	ORDINARY
C5	92	Turner Robert	United Kingdom	1946	ORDINARY
C5	93	Tzourio Christophe	France	1958	ORDINARY
C5	94	Undas Anetta	Poland	1965	ORDINARY
C5	95	Unterberg Andreas	Germany	1955	ORDINARY
C5	96	Van der Poll Tom	The Netherlands	1961	ORDINARY
C5	98	Vonk Noordegraaf Anton	The Netherlands	1969	ORDINARY
C5	99	Walsh Timothy	United Kingdom	1964	ORDINARY
C5	101	Xu Qingbo	United Kingdom	1958	ORDINARY
C5	102	Yu Jun	China	1963	FOREIGN

TOTAL NUMBER OF NOMINATIONS: 164

Recommended for election: 140

Not elected this year: 24

"FOREIGN MEMBERS

TOTAL: 16"

"FOREIGN MEMBERS

APPROVED: 9"

## **Annex 2 Trustees, 'Council', and Section Committee composition as at 31<sup>st</sup> December 2023 for AE London**

At the AGM in September 2015, the Regulations were amended to allow the appointment by the Board of a variable number of Vice Presidents (ex officio) to provide flexibility to the President and that serve a VP term limited to that of the President. These changes are within the overall limits set for the Trustees in the Articles of Incorporation and do not impact on the role or seniority of the elected officers. The Articles prescribe a Board made up of not less than 3 and NOT MORE than 15 members. The Articles describe a Board made up of elected officers (President, Vice Presidents and the Treasurer – all elected by the membership (at a general meeting); a number of members (appointed by the 'Advisory Council' – the Class chairs) and a number of co-opted (by the Board) members. The subsidiary Regulations are used to determine numbers and balance up to the limit of 15. The current formula is President, elected Vice presidents (up to two were approved by AGM in 2012); Treasurer.

In November 2015 the Board approved the designation of several existing Trustees as Vice Presidents ex officio, to reflect new portfolios. In 2023 these were Professor Paolo Papale (Class Chair); Professor Poul Holm (Class Chair) Professor Bjorn Wittrock (Class Chair) and Professor Eva Kondorosi (Class Chair). Governance and incorporation documents can be found on the website ([www.ae-info.org](http://www.ae-info.org)).

### **Members of the Board of Trustees (at 31<sup>st</sup> December 2023)**

Elected officers:

The President – Professor Marja Makarow until end of 2024, then renewable

Treasurer - Professor Stephen Evans from January 2023 until end of 2026, then renewable.

The Vice President (officio) – Professor Don Dingwell from January 2023 to end of 2026, then renewable.

Trustees

Ole Petersen (UK) co-opted (to end of 2023), Academic Director, Cardiff Hub,

Poul Holm (IRL) – Class chair – Class A1 (Humanities) co-opted Vice president *ex officio*; until end of 2025,

Paolo Papale – Class Chair – Class B (Natural Sciences) co-opted Vice president *ex officio*. Until end of 2027,

Eva Kondorosi (HUN)– Class Chair – Class C (Life Sciences) co-opted Vice President *ex officio* until end of 2026,

Bjorn Wittrock (SWE) - Class chair from January 2018 co-opted Vice president *ex officio* until end of 2024,

Professor Eystein Jansen (NOR) co-opted until the end of 2024. Academic Director of the Bergen Hub

Professor Don Dingwell trustee 2021 - end of 2022, then Elected VP from January 2023 – end of 2025, renewable

Professor Milena Zic-Fuchs (Croatia) co-opted from January 2023 until the end of 2026, renewable

Note: that the same Board of trustees reported here as operating for AE London, also functions under identical terms of office and regulations for election and appointment as the Board of trustees for the Academia Europea Munich e.V legal entity. In all essentials the AE London and the AE Munich entities operate as a single coordinated functional unit with commonly derived statutes, with the same mission and objectives and all members of the Academia Europea on election and pre-the creation of AE Munich are de facto members of both legal entities without exception and discrimination. The two entities do however maintain independent financial systems and management responsibilities and the accounts are not consolidated as both entities are independent legal personalities. The Board of trustees maintains a common oversight of both organisations.

### **Academia Europaea - Composition of the Advisory Council (at 31 December 2023)**

Following the establishment of the Class structure and the allocation of Sections into the four Classes, the role for a single Advisory Council (hereinafter The Council) meeting only annually and with a very limited function, has been replaced by a variable configuration composed of the four classes. The Section chairs (as members of the Council) are all members of one of the Class committees. Within each Class configuration, each Section chair has a term three years, with the possibility of renewal for one further period of three years. The Class chairs are independently appointed and are members of the Board of trustees, and therefore they act as the (independent) representative of the Council (the Sections) on the Board. This structure ensures stronger flow of information and consultation between the Board of trustees and the Advisory Council (the four Class committees) than was formerly the case. This structure has also facilitated a greater devolving of responsibility to the Class level than had been possible under the old Council formation.

### **Academia Europaea Section Committees Chairpersons and Committee Members<sup>1</sup>**

At 31 December 2023

#### **Academia Europaea Section Committees Chairpersons and Council Members<sup>1</sup>**

A CLASS A1

Class Chair, Poul Holm (Trinity, Dublin, R of Ireland) [holmp@tcd.ie](mailto:holmp@tcd.ie) (to end of 2025)

Deputy chair: Professor Göran Bolin, Sweden [Goran.bolin@sh.se](mailto:Goran.bolin@sh.se) (to end of 2026)

### **A1 History & Archaeology**

Chairperson<sup>2</sup>: Amélia Polónia (to December 2025, renewable)<sup>4</sup>

Department of History, Political and International Studies, University of Porto

[amelia.polonia@gmail.com](mailto:amelia.polonia@gmail.com) [https://www.ae-info.org/ae/Member/Pol%C3%B3nia\\_Am%C3%A9lia](https://www.ae-info.org/ae/Member/Pol%C3%B3nia_Am%C3%A9lia)

Committee<sup>3</sup>: Nikita Harwich (till end 2025, renewable); Korine Amacher (till end 2025); Maxine berg (till end 2025); Markus Denzel (till end 2025); Bogdan Szlachta (till end 2025); Manuel Lucena-Giraldo (till end 2025); Guido Abbattista (until end of 2025, renewable); Judith Pollman (until end of 2025, renewable).

### **A2 Classics & Oriental Studies**

Chairperson: Gerd Haverling (to end of 2025)

[gerd.haverling@lingfil.uu.se](mailto:gerd.haverling@lingfil.uu.se)

Uppsala University, Dept. of Linguistics & Philology

Committee: Gianfranco Agosti (till end of 2024), Alessandro Bausi, (to end of 2024), Irmela Hijiya-Kirschner (to end 2025); Joachim Kurtz (to end of 2025, renewable), Eva Cancik-Kirschbaum (to end of 2025, renewable).

### **A3 Linguistic Studies**

Chairperson: Pier Marco Bertinetto (till end 2025).

SNS, Pisa, Italy

[Pierremarco.bertinetto@sns.it](mailto:Pierremarco.bertinetto@sns.it)

<http://linguistica.sns.it/PaginePersonal/Bertinetto.htm>

Committee : Alain Peyraube (to end 2025), Angela Ralli, to end of 2025), Katalin E. Kiss (to end of 2023, renewable), Louise McNally (to end of 2026, renewable), Martin Kümmel (to end of 2026, renewable), Mark Steedman (to end of 2026, renewable).

### **A4 Literary & Theatrical Studies**

Chairperson: Françoise Lavocat (to end of 2025, renewable)

Department of Comparative Literature, University Paris 3-Sorbonne nouvelle

[https://www.ae-info.org/ae/Member/Lavocat\\_Francoise](https://www.ae-info.org/ae/Member/Lavocat_Francoise) [francoise.lavocat@sorbonne-nouvelle.fr](mailto:francoise.lavocat@sorbonne-nouvelle.fr)

Committee: Vladimir Biti (to end of 2025, renewable), Vivian Liska (to end 2023), Martin Middeke (to end of 2024), Catriona Seth (to end of 2023, renewable), Massimo Fusillo (to end of 2025, renewable).

### **A5 Musicology & Art History**

Chairperson: Ulrich Pfisterer (to December 2025, renewable)

Institut für Kunstgeschichte der LMU, Munich

[ulrich.pfisterer@lrz.uni-muenchen.de](mailto:ulrich.pfisterer@lrz.uni-muenchen.de) [https://www.ae-info.org/ae/Member/Pfisterer\\_Ulrich](https://www.ae-info.org/ae/Member/Pfisterer_Ulrich)

Committee:-Melanie Wald-Fuhrmann (until end of 2024), Tanja Michalsky (to end of 2025), Barbara Baert (to end of 2023, renewable), Thierry Favier (to end of 2023, renewable), Anne Piéjus (to end of 2026, renewable).

### **A6 Philosophy, Theology & Religious Studies**

Chairperson: Mircea Dumitru (to December 2025, renewable)

University of Bucharest [mirdumitru@yahoo.com](mailto:mirdumitru@yahoo.com) [https://www.ae-info.org/ae/Member/Dumitru\\_Mircea](https://www.ae-info.org/ae/Member/Dumitru_Mircea)

Committee: Genoveva Marti (till end of 2025, renewable); Martin Carrier (to end of 2025), Cinzia Ferrini (to end of 2025), Margit Sutrop (to end of 2025), Timothy Williamson (to end of 2025), Alex Fidora (to end of 2025).

### **A7 Film, Media and Visual Studies** Chairperson: Göran Bolin (to end 2024)

[Goran.bolin@sh.se](mailto:Goran.bolin@sh.se) School of Culture and Communication, Södertörn University, Sweden

Committee: Helena Bilandzic (to the end of 2024), Gustavo Cardoso (to end of 2023, renewable), Sonia Livingstone (to end of 2025, renewable), Auksė Balčytienė (to end of 2025, renewable), Jo Pierson (to end of 2026, renewable).

## **CLASS A2**

**Class Chair Björn Wittrock, Uppsala University and Swedish Collegium for Advanced Study.**

[bjorn.wittrock@swedishcollegium.se](mailto:bjorn.wittrock@swedishcollegium.se) (to end of 2024)

**Deputy chair: Professor Shalini Randeria, Central European University, Vienna and Budapest.**  
[president@ceu.edu](mailto:president@ceu.edu) (to end Of 2025)

#### **A8 Economics, Business and Management Sciences**

Chairperson: Martin Kahanec (to end of 2026)

[kahanecm@spp.ceu.edu](mailto:kahanecm@spp.ceu.edu) Central European University, Vienna, and Central European Labour Studies Institute (CELSI, Bratislava)

Committee: Andreu Mas-Colell (to end of 2025), Klaus Zimmermann (to end of 2026), Marie Claire Villeval (to end of 2025, renewable). Karine Nyborg (to end of 2026, renewable)

#### **A9 Governance, Institutions and Policies: Education, Health and Welfare**

Chairperson: Professor Pauli Kettunen, University of Helsinki (to end of 2026, renewable)

[pauli.kettunen@helsinki.fi](mailto:pauli.kettunen@helsinki.fi) Faculty of Social Sciences, Political History, University of Helsinki, Finland.

Committee: Archana Singh-Manoux (to end of 2022), Stefano Bartolini (to end of 2026, renewable), Liudvika Leisyte (to end of 2026, renewable), Liviu Matei (to end of 2026 renewable), Jonathan White (to end of 2026, renewable).

#### **A 10. Human Mobility, Governance, Environment and Space**

Chairperson: Benno Werlen (to end of 2026, renewable)

[benno.werlen@gmail.com](mailto:benno.werlen@gmail.com)

Friedrich Schiller University, Jena, Germany

Committee: Leo van Wissen (until end of 2025), Tovi Fenster (until end of 2024, renewable), Jennifer Robinson (until end 2024, renewable), Ilona Palne Kovacs (to end of 2026, renewable), Kene Henkens (to end of 2026, renewable).

#### **A11 Law**

Chairperson: Nina Dethloff (to end 2025)

[dethloff@uni-bonn.de](mailto:dethloff@uni-bonn.de)

Faculty of Law, University of Bonn

Committee: Maarit Jäntäerä- Jareborg (to end of 2025), Christina Gonzalez-Beilfuss (to end of 2025), Dieter Gosewinkel (until end of 2025); Tatjana Josipović (until end of 2026). Rianne Letschert (until end of 2026). Christopher Thornhill (to end of 2026), Bea Verschraegen – Vice Chair (until end of 2025, renewable).

#### **A 12. Social Change and Social Thought**

Chairperson: Peter Wagner (to end of 2025)

[Peter.Wagner@ub.edu](mailto:Peter.Wagner@ub.edu)

Catalan Institute for Research and Advanced Studies and University of Barcelona

Committee: Lars Magnusson (to end of 2025), Chris Hann (to end of 2026, renewable), Penelope Harvey (to end of 2026, renewable).

#### **A 13. The Human Mind and Its Complexity**

Chairperson: Jüri Allik (to end of 2025)

[juri.allik@ut.ee](mailto:juri.allik@ut.ee)

Dept. of Experimental and Cognitive Psychology, University of Tartu, Estonia

Committee: Kimmo Alho (to end of 2025), Gian Vittorio Caprara (to end of 2023), Mara Dierssen (to end of 2026), Alexandra Bendixen (to end of 2026, renewable), Mats J. Olsson (to end of 2026, renewable), Anu Realo (to end of 2026, renewable).

#### **CLASS B**

**Class Chair: Paolo Papale (To end of 2027)**

[paolo.papale@ingv.it](mailto:paolo.papale@ingv.it)

Instituto Nazionale di Geofisica e Vulcanologia, Italy

**Deputy Chair: vacant**

#### **B1 Mathematics**

Chairperson: Philippe Michel (to end of 2025)

[philippe.michel@epfl.ch](mailto:philippe.michel@epfl.ch)

Ecole Polytechnique Federale de Lausanne

Committee: Jean-Benoît Bost (to end 2024), Martin Hairer (to end 2024), (Volker Mehrmann (to end 2024), Amie Wilkinson (to end 2025), Karen Vogtmann (to end of 2024, renewable), Benoit Perthame ( to end of 2025, renewable).

### **B2 Informatics**

Chairperson: Erol Gelenbe (to end of 2025, renewable)

Institute of Theoretical and Applied Informatics, Polish Academy of Sciences

[gelenbe.erol@orange.fr](mailto:gelenbe.erol@orange.fr) <https://www.ae-info.org/ae/Member/Gelenbe> Erol

Committee: Schahram Dustdar (to end of 2025, renewable), Wil van der Aalst (to end of 2023, renewable), Rajiv Ranjan (until end of 2024, renewable), Pierangela Semerati (to end of 2026, renewable), Thomas Eiter ( to end of 2026, renewable), Carlo Ghezzi (to end of 2026, renewable)

### **B3 Physics and Engineering Sciences**

Chairperson: Pavel Exner (until end of 2024)

[exner@ujf.cas.cz](mailto:exner@ujf.cas.cz) Doppler Institute, Brehova 7, 11519, Prague, Czech Republic

Committee: Michael Peter Kennedy (until end 2023), Angela Bracco – Vice Chair (until end 2023), Ursel Fantz (until end of 2024), Itamar Procaccia (until the end of 2023, renewable), Paul Linden (until the end of 2023, renewable), Päivi Törmä (from Jan 2022 to end of 2024, renewable), Fabio Zwirner ( until the end of 2024, renewable); Tomasz Dietl ( until end of 2026, renewable).

### **B4 Chemical Sciences**

Chairperson : Johannes Lercher (to end of 2026, renewable)

[johannes.lercher@tum.de](mailto:johannes.lercher@tum.de)

TU München

Department Chemie

Committee: Janine Cossy (to end of 2022), Bert Weckhuysen (to end 2022), Valentine Ananikov (to end of 2022, renewable), Hans-Peter Steinrueck (to end of 2025, renewable), Gianfranco Pacchioni (to end of 2025, renewable), Eleanor Campbell (to end of 2025, renewable).

### **B5 Earth and Cosmic Sciences**

Chairperson: Professor Valerio Acocella (until end of 2026, renewable)

[valerio.acocella@uniroma3.it](mailto:valerio.acocella@uniroma3.it) Università Roma Tre

Committee: Gerald Gilmore (till end of 2023), Todd Ehlers (till end 2025), Liane G. Benning (to end of 2025, renewable), Laszlo Kiss (to end of 2026, renewable), Pilar Ruiz-Lapuente ( to end of 2026, renewable).

## **CLASS C**

**Class Chair, Eva Kondorosi (to end of 2026)**

[eva.kondorosi@gmail.com](mailto:eva.kondorosi@gmail.com)

**Deputy Chair. Vacant**

### **C1 Biochemistry and Molecular Biology**

Chairperson: Ray Dixon (to end of 2024, renewable)

[ray.dixon@jic.ac.uk](mailto:ray.dixon@jic.ac.uk) John Innes Centre, Norwich, UK

Committee : Brigitte GICQUEL (to end of 2023, renewable), Annalisa PASTORE (to end of 2023, renewable), Mart SAARMA (TO END OF 2023, renewable), Maria Carmo-Fonseca (to end of 2025, renewable), Kathryn Lilley (to the end of 2026, renewable), Anja Böckmann ( to end of 2026, renewable).

### **C2 Cell and Developmental Biology**

Chairperson: Crisanto Gutierrez ( to end of 2023, renewable)

[cgutierrez@cbm.csic.es](mailto:cgutierrez@cbm.csic.es)

Centro de Biología Molecular Severo Ochoa, Spanish National Research Council (CSIC), Madrid, Spain

<https://www.ae-info.org/ae/Member/Gutierrez> Crisanto

Committee: Christine Mummery (to end of 2024), Maria-Elena Torres-Padilla (to end of 2024, renewable), Ivan Dikic (to end of 2024, renewable), Elaine Dzierzak (to end of 2025, renewable), Lena Claesson-Welsh (to end of 2025, renewable).

### **C3 Physiology and Neuroscience**

Chairperson: Balazs Gulyas (to end of 2024, renewable)

Karolinska, Stockholm and

Centre for Neuroimaging Research at NTU. Lee Kong Chian School of Medicine. Hong Kong

[balazs.gulyas@ntu.edu.sg](mailto:balazs.gulyas@ntu.edu.sg)

Committee: Dmitri Rusakov (to end 2025), Alexey Semyanov (until the end of 2026), Michaela Matteoli (until end of 2026), Karin Sipido (until end of 2024, renewable), Zaal Kokaia (until end of 2024, renewable). Mara Dierssen (to end of 2025, renewable), Thomas Perlmann (to end of 2025, renewable).

### **C4 Ecology and Evolution**

Chairperson: András Báldi (to end of 2025, renewable)

Centre for Ecological Research, Hungarian Academy of Sciences

[baldi.andras@ecolres.hu](mailto:baldi.andras@ecolres.hu) [https://www.ae-info.org/ae/Member/B%C3%A1ldi Andr%C3%A1s](https://www.ae-info.org/ae/Member/B%C3%A1ldi_Andr%C3%A1s)

Committee: Cristophe Thebaud (to end of 2025), Per Ahlberg (to end of 2025); Dianne Edwards (to end 2025), Louise Fresco (to end 2025); Mike Hassell (until end 2025). Richard Bardgett (to end 2025), José Maria Fernández-Palacios ( to end of 2026, renewable)

### **C5 Clinical and Veterinary Science**

Chairperson: Peter Hegyi (To end 2024, renewable)

[hegyi2009@gmail.com](mailto:hegyi2009@gmail.com)

Semmelweis University, Budapest

Committee: Antonia Trichopoulou (to end of 2024, renewable), Helena Leino-Kilpi (to end of 2024, renewable), Jose J Céron (to end of 2024, renewable), Lajos Kemény (to end of 2024, renewable), Rebecca Fitzgerald (to end of 2024, renewable), John Neoptolemos (to end of 2024, renewable), Jacek Jassem (to end of 2024, renewable), András Varró (to end of 2024, renewable).

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**1 Committees** are elected by the members of the section accordance with the Regulations for Section Committees. At least 50% of the committee has to be elected by a ballot of the membership of the Section. All members of the Section are eligible to stand for election as Committee candidates. The exact procedure for rotation and elections is decided by the Committees themselves. The Chair must ensure the committees reflect a balance of representation of the fields within the Section and should ensure a regular rotation of members of the committee.

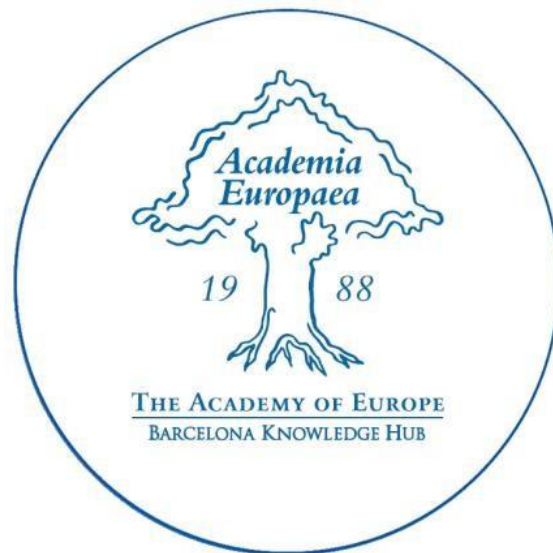
**2 Chairs** serve a three term, renewable once only for a further three years.

**3 Committee members** serve a three year term that can be renewed once only for a further three year period.

**4** (date first term ends / date second and final term ends subject to agreement of the committee and Council)



# Academia Europaea | Barcelona Knowledge Hub



## 2023 Annual Report of Activities

10 January 2024



## 2023 ANNUAL REPORT OF ACTIVITIES

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# 2023 ANNUAL REPORT OF ACTIVITIES

## 1. EXECUTIVE SUMMARY

### 1.1 Overview

The Barcelona Knowledge Hub (AE-BKH), founded in 2013, is the node of Academia Europaea (AE) in southern Europe and the Mediterranean region. Its main aim is to promote activities of interest for AE Members in this area and for the scientific community in general, with the end goal of helping consolidate a genuine European area of research, education and innovation.

Since this year, the AE-BKH is currently hosted by the Catalan Foundation for Research and Innovation (FCRI), a private organization that disseminates research and innovation among society to promote scientific culture, careers in science and technology and public-private relationships and entrepreneurship in these fields. The FCRI, headquartered in Barcelona and directed by Dr. Jordi Mas, provides the AE-BKH with the institutional framework necessary to carry out its activities.

Its staff consists of an Academic Director, Prof. Jaume Bertranpetit and a Hub Manager, Maite Sánchez. AE-BKH's partners are the Barcelona City Council and the Government of Catalonia (Universities and Research Secretariat). The hosting in the FCRI allows the hub to interact and ask for help to the staff that covers many different areas of administration (Design, communication, computer service..etc).

A new Steering Committee and a new Advisory Board have been put in place and they have already begun their role. Steering Committee had had two annual meetings (2<sup>n</sup> of March and 29<sup>th</sup> of November) while the Advisory Committee meeting has been appointed by the 18<sup>th</sup> of January 2024.

### 1.2 Annual programming Scientific Dialogues and work sessions

The AE-BKH successfully have carried out its activities, combining the use of virtual tools with limited in-person attendance in a 'hybrid' format. As in previous years, the pillars of its annual program featured educational and social outreach events open to the general public:

- Kick off meeting (25<sup>th</sup> of April 2023), presentation and 1<sup>st</sup> Seminar
- Scientific Dialogues (October to December 2023)

### 1.3 *Disputatio of Barcelona 2023: "The Origin of Human Violence."* (13<sup>th</sup> of November 2023)

AE-BKH held the annual activity at the Barcelona city council (Saló de Cròniques) under the title: "The Origins of Human Violence" on the 13<sup>th</sup> of November at 18 p.m. Next *Disputatio* is planned to take place in October-November 2024.



## 1.4 Building Bridges 2023

The 34th Annual Conference of Academia Europaea (AE) and 13th of the Young Academy of Europe (YAE), took place in Munich as it was hosted by the AE Munich Hub on 9-11 October. The plenary program, featuring leading international scholars from a wide variety of academic disciplines, was presented in a 'hybrid' format that enabled virtual attendance in addition to in-person attendance.

More than 300 attendees in-person, representing 41 different countries were present. For further information click the following link:

[https://www.ae-info.org/ae/Acad\\_Main/Plenary\\_Conferences/Building%20Bridges%202023%20Munich](https://www.ae-info.org/ae/Acad_Main/Plenary_Conferences/Building%20Bridges%202023%20Munich)

Both members of the Barcelona Hub attended to the meeting in person.

## 1.5 Barcelona Hypatia Prize Award

This year has been the fourth edition of the European Hypatia Science Prize. It awarded €30,000 to an individual who has developed a trajectory of excellence, primarily in a European country, in the field of Science and Technology including Mathematics. With this call, a new triennial cycle begins, which will continue in the next 2 years, awarding an individual from the field of Life Sciences and Health (2024) and the field of Humanities and Social Sciences (2025).

The jury for the 2023 prize met in november and nominated a winner that will be public at the beginning of 2024.

## 1.6 Special project

In 2023, the AE-BKH has begun to develop a special project in collaboration with key partner institutions: Art and Science project.

## 1.7 Web communication and social media

Finally, the AE-BKH has created its own website and it's currently updated in Instagram, facebook, linkedin and twitter. It has witnessed an especially strong growth in the audiences reached through its on-line communication tools and social media platforms.

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## 2. OVERVIEW

### 2.1 Presentation

The present Annual Report provides an overview at the activities of the Barcelona Knowledge Hub of Academia Europaea (AE-BKH) during the year 2023.

### 2.2 Mission and Vision

#### • Introduction and area of influence

**Academia Europaea (AE)** is a pan-European, non-governmental association acting as an Academy. Its members are scientists and scholars who collectively aim to promote education and research. Founded in 1988, it currently has approximately 4,800 Members, leading experts from a variety of different fields including the physical sciences, technology, biological sciences, medicine, mathematics, literature, humanities, social sciences, cognitive sciences, economics and law. The **Barcelona Knowledge Hub (BKH)** is the AE's branch office for the **Mediterranean and Southern European region**, including Turkey and Israel.

The main goal of AE-BKH is the promotion of activities of interest for the Members of AE in its area of influence, and for the scientific community in general, with **special emphasis on multi-disciplinary activities** that include **transversal perspectives of the natural and exact sciences, the social sciences and the humanities**. The vision of AE-BKH is to **help consolidate a genuine European area of research, education and innovation**.

This year all the activities organized by the AE-BKH have taken place in Barcelona but it is planned to organize some in other cities of the Mediterranean European region in the following years.

#### • Current specific objectives of the AE-BKH include:

- Increasing the quantity and quality of its programming while maintaining sustainability
- Strengthening collaborations and partnerships with academic and research institutions in its area of influence
- Recognising and supporting excellent research conducted by individual scholars
- Improving the visibility and impact of its actions

#### • Office and staff

The AE-BKH office is located on the premises of the Catalan Foundation for Research and Innovation (FCRI) in the center of Barcelona. The Academic Director is professor Jaume Bertranpetit and Maite Sanchez is the Hub Manager.

### 3. ANNUAL PROGRAMMING IN 2023

#### 3.1 AE-BKH WORK SESSION, PRESENTATION AND FIRST SEMINAR

##### AE-BKH work session (25<sup>th</sup> of April in the morning)

The president of the Europaea Academy, Marja Makarov, the general secretary, David Coates, the academic director, Jaume Bertranpetit and the director of the FCRI, Jordi Mas, met to establish the strategic lines: citizen participation, science-art interrelationships, and actions to increase visibility.



##### AE-BKH presentation of the AE-BKH (25<sup>th</sup> of April in the afternoon)

Presentation of the AE-BKH at the Royal Academy of Sciences and Arts of Barcelona (RACAB). Its new program of activities and structure was presented, which enhance the organization's science promotion and dissemination actions, bringing them closer to the public.

Program:

- **Prof. Jordi Isern**, President of the Royal Academy of Sciences and Arts of Barcelona (RACAB)
- **Prof. Jordi Mas**, Executive Director of the Catalan Foundation for Research and Innovation
- **Prof. Jaume Bertranpetit MAE**, AE-BKH Academic director
- **Prof. Marja Makarow MAE**, President of the Academia Europaea
- **Prof. Andreu Mas-Colell MAE**, AE-BKH Steering Committee Member
- **Prof. Joan Gómez Pallarès**, General Director of the Research and University Department, Government of Catalonia



**2nd of June:** Northeastern University seminar at the RACAB under the agreement with the AE-BKH. Mònica Bello, Eduard Vallory, Jaume Bertranpetit and Milne Jo took part.



## 3.2 SCIENTIFIC DIALOGUES: FRONTIERS AND AGORA

### 4th of October: I Scientific Dialogue Frontiers

#### Understanding the brain: neurobiology or neuro computer sciences?

**Mara Dierssen**, Center for Genome Regulation, Barcelona

**Gustavo Deco**, ICREA at UPF, Center of Brain and Cognition, Barcelona

Moderator: **Chiara Santolín**, UPF, Barcelona



#### Summary:

Starting with the work of Cajal more than 100 years ago, neuroscience has sought to understand how the cells of the brain give rise to cognitive functions. How far has neuroscience and more precisely neurobiology, progressed in this endeavour? On the other side, to learn how cognition is implemented in the brain, computational neuroscience has built computational models that can perform cognitive tasks, and test such models with brain and behavioural experiments.

Neurobiology, psychology and computational neurosciences are different approaches to the study of the brain, even if the Human Brain Project (funded by the European Union) has mainly invested in computational aspects. Deciding where to allocate funding for brain research between neurobiology and computational neuroscience depends on various factors, including research goals, available expertise, technological advancements, and the specific questions being pursued. Where are we now? Is there a conflict or is there a balanced approach that supports collaboration between these fields?

### 8th of November: I Scientific Dialogue Agora

#### Podrem parar l'envelliment i la mort?

**Salvador Macip**, Open University of Catalonia (UOC) and University of Leicester, UK

**Maria Begoña Román**, Faculty de Philosophy, UB, Barcelona

Moderator: **Cristina Sáez**, Science and Health journalist



**Summary:**

La controvèrsia entre biologia i ètica sobre aturar l'envelliment i la mort és un tema que ha generat un intens debat a la societat i entre els experts en diverses disciplines. Existeixen arguments a favor i en contra de la recerca de la immortalitat o la prolongació indefinida de la vida.

Quines implicacions pràctiques, socials i ètiques de qualsevol avenç en la ciència hem de considerar? El debat continuarà evolucionant a mesura que la ciència avanci i la societat explori noves possibilitats.

**22nd of November: II Scientific Dialogue Frontiers**

**The bases of language: from tabula rasa to biological determinism**

**Cedric Boeckx**, ICREA Research Professor at the Department of Linguistics, University of Barcelona

**Ramon Ferrer-i-Cancho**, Professor of Computer Science at Universitat Politècnica de Catalunya

Moderator: **Toni Badia**, Pompeu Fabra University, Barcelona



**Summary:**

The transition from the concept of language as a "tabula rasa" to one influenced by "biological determinism" represents a significant shift in our understanding of language acquisition and development. These two perspectives offer different explanations for how humans acquire and use language, and they have been central to debates in linguistics, psychology, and biology. The "tabula rasa" perspective, often associated with philosophers like John Locke, suggests that the human mind is a blank slate at birth, and language acquisition is primarily a result of environmental factors and learning experiences. On the other side, the "biological determinism" perspective posits that humans have innate, biologically predetermined mechanisms for language acquisition.

In contemporary discussions, many researchers and theorists seek to reconcile these perspectives. Where are we in the debate? Has the incursion of computer sciences and physics changed the arena?



## 13th of December: II Scientific Dialogue Àgora

### Intel·ligència artificial generativa: bases tecnològiques i implicacions socials

**Enric Plaza**, Artificial Intelligence Research Institute, CSIC, Bellaterra and fellow d'EurAI

**Núria Vallés**, Post-doctoral researcher Margarita Salas, UAB-UPC

Moderator: **Toni Pou**, Scientific journalist



### Summary:

La intel·ligència artificial (IA) generativa, en les seves múltiples aplicacions com els 'grans models de llengua' del GPT, han captat l'atenció de l'opinió pública global. Aquestes aplicacions generatives són el resultat de les últimes tecnologies en xarxes neuronals aplicades a l'aprenentatge i transformació de texts, imatges, so, i vídeo. Aquesta última onada d'innovació en tecnologies d'IA ha despertat nombrosos debats i polèmiques sobre les conseqüències del seu ús.

Cal entendre d'on ve i què ofereix aquesta "IA generativa", les seves limitacions tant com les seves capacitats, així com la narrativa que l'acompanya. Cal examinar i discutir la situació actual sense les exageracions utòpiques i distòpiques que s'han propagat, per tal de poder valorar els efectes d'aquest tipus de tecnologia.

For further information: [www.aebarcelona.eu](http://www.aebarcelona.eu)

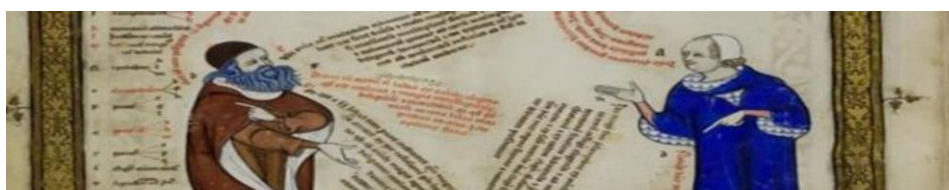


### 3.3 DISPUTATIO OF BARCELONA 2023

An annual activity of the Academia Europaea-Barcelona Knowledge Hub

#### “The Origins of Human violence”

AE-BKH held its *Disputatio of Barcelona 2023* entitled, “The Origins of Human Violence,” on Monday, November 13th, 2023, at the Barcelona City Council (Saló de Cròniques). It was chaired by Deputy Mayor Jordi Valls. The Franco-American cultural anthropologist **Scott Atran**, from the University of Michigan (USA), and the Argentinian paleoanthropologist, **Marta Mirazón Lahr**, from the University of Cambridge (United Kingdom), discoverer of the Nataruk site, in Kenya - with the first prehistoric bone remains with signs of violence between humans 10,000 years ago - debated the origin of the phenomenon from the interrelationship of evolutionary, genetic, environmental, social and neurobiological perspectives. **Òscar Vilarroya**, Director of Research at the Department of Psychiatry and Legal Medicine of the UAB and of the research group "Cognitive Neuroscience Research Unit" (URNC), of the same university, moderated the event.



Karlsruhe, Badische Landesbibliothek, St. Peter perg. 92, f. 11v

ACADEMIA EUROPAEA BARCELONA KNOWLEDGE HUB  
Disputatio 2023  
THE ORIGINS OF HUMAN VIOLENCE

MONDAY, 13TH OF NOVEMBER, 2023 AT 18.00 h.

SALÓ DE CRÒNIQUES, BARCELONA CITY COUNCIL (PLAÇA DE SANT JAUME, 1, BARCELONA)

Disputants:

**Scott Atran**, Artis International and University of Michigan, USA

**Marta M. Lahr**, University of Cambridge, UK

Moderator:

**Òscar Vilarroya**, Autonomous University of Barcelona, Hospital del Mar Research Institute, Barcelona

To attend the event in person, please RSVP by e-mail: [aebarcelona@fundaciorecerca.cat](mailto:aebarcelona@fundaciorecerca.cat)

With the collaboration of:



Ajuntament  
de Barcelona



Generalitat de Catalunya  
Departament de Recerca  
i Universitats



fcri  
Fundació  
Catalana per a  
la Recerca i la  
Innovació

A video recording of the debate is available on YouTube at:

[https://www.youtube.com/watch?v=VF\\_swTtcgU](https://www.youtube.com/watch?v=VF_swTtcgU).

#### About the *Disputatio of Barcelona* series



The *Disputatio of Barcelona* is a series of annual debates in English organised by the Academia Europaea – Barcelona Knowledge Hub (AE-BKH) and held between two renowned experts (*disputantes*) holding different viewpoints on a common topic of social relevance. The series, inaugurated in 2013, was inspired by the original *Disputatio* held in Barcelona in 1263, a theological debate between Christian and Jewish intellectuals presided by King James I of Aragon Kingdom.



PRESS COVERAGE



PAÍS: España  
PÁGINAS: 60  
AVE: 25156 €  
ÁREA: 862 CM² - 76%

FRECUENCIA: Diario  
DIFUSIÓN: 58318  
OTS: 360000  
SECCIÓN: CONTRAPORTADA

21 Noviembre, 2023



Victor M. Amela - Inés Sánchez - Lluís Anigué

**Marta M. Lahr, va desenterrar a Kènia les primeres restes humanes amb signes de violència**

Tinc 58 anys, que de vegades sento com 90 i d'altres, com 20. Vaig néixer a l'Argentina, vaig créixer al Brasil i em vaig doctorar i casar-me a Cambridge. Fe? sóc biòloga evolutiva i de centres esquerra alarmada per la polarització de les majories. Col·laboro amb l'Academia Europaea (AE-EKH) i FCRI de la Generalitat

**“Som primats violents, però els únics capaços de reconciliar-se”**



**El sexe i el gènere del fòssil**

La prehistòria explica tant el que vam ser com el que som. Lahr ha dirigit excavacions a Kènia, el Sàhara, l'Índia o les illes Salomó i sempre ha pogut entendre's amb les cultures locals. Ara obre encara més l'entorn per connectar amb les dels seus alumnes a Cambridge, on és interrompuda en ocasions, quan explica paleoantropologia amb un fòssil que defineix com "Homo", però veus que E pregunten pel seu "gènere". També dialoga amb els qui, volent ser paleoantropòlegs, lamenten la falta de sensibilitat de la ciència quan aborda la mort o la creua d'imatges, com la d'una embarassada lligada i assassinada pels seus congeneres amb el fetus visible, i demanen que porti l'advertència que pot "ferir sensibilitats". Els humans no deixem de sorprendre'ns a nosaltres mateixos a través dels mitjans.

**N**o vam tenir mai un avantpassat pacífic i feliç? Temo que som violents des que som humans...  
**Què trèia?**  
 ...Per ser humans també em dona una capacitat que no té cap altre primate: la de reconciliar-se o després d'haver-nos agredit.  
**Franç de Waal ja va explicar aquí que els ximpanzés planifiquen i reconcilien.**  
 Els ximpanzés planifiquen, és cert, assenyalen congèneres, però els humans, en canvi, solucioneu les seves disputes...  
**De Waal va observar que amb vegades les...**  
 ...Però no està demostrat que els nostres avantpassats fossin premeditadament violents com els ximpanzés.  
**Vostà va excavar fòssils de paleo humans que es veia relacionats amb matança planificada.**  
 La vaig descobrir per casualitat, però em treballava amb fòssils molt més antics que els d'ella a Turkana. I va ser casual trobar l'evidència d'aquella matança de fa 100.000 anys.  
**Aquella matança mostra que sempre ens hem matat i no va existir cap subespecie feliç?**  
 Diguem que és una evidència més a favor

dels qui pensen que la violència és innata en els humans i en contra dels qui, al contrari, creuen que les matances planificades només es van produir més tard i només com a conseqüència de l'ínici de l'agricultura i, amb aquesta, de la propietat privada.  
**L'humà nòmada sense tenir territori era tan agressiu com els que ja tenien?**  
 Alguns col·legues creuen que abans de l'agricultura i la propietat de la terra no eren violents i que només amb les possessions van començar a planificar la violència i les civilitzacions, exèrcits, pàtries i religions...  
**El caçador nòmada no mataven per les zones de caça o les preses?**  
 És cert que en els bipèdics que van viure fins fa 2 milions d'anys res no demostra que hi hagués conflicte entre grups, i que van trobar violència, canibalisme... però aquells fòssils només són per ara trosets.  
**Per què no volen per provar violència?**  
 Perquè... com ve que aquest tros de fòssil alliberava signes de violència no és una eina d'agressió per un enmig momentari i en cap cas una matança planificada?  
**No és igual matar un enmig d'una picabaralla que planificar la matança d'una tribu?**

No és el mateix en absolut: planificar no és rellevant. I hi ha evidència d'homicidis afilats al paleolític, però abans de l'agricultura no n'hem trobat de matança organitzada. És canvi, al neolític, ja amb l'agricultura i la propietat, la violència entre agricultors és endèmica. I, a més, enterraven les víctimes erementàries.

**Vostà també creu que l'agricultura va ser una trista regressió per als humans?**  
 Els fòssils mostren que els primers agricultors van viure menys i molt pitjor que els últims caçadors recol·lectors nòmades, però també que els nòmades van deixar de ser-ho perquè la caça ja no donava per sobrevisar tothom.

**Vam ser agricultors i pastors perquè, si no, ens moríem de gana?**  
 I gairebé ens vam morir de gana quan vam passar de la caça nòmada a l'agricultura: els fòssils dels primers agricultors demostren que estaven molt més mal alimentats i més malalts que els nòmades.

**Doncs per què van continuar cultivant?**  
 Perquè una vegada esperat aquest primer estadi de necessitat, fan i malalta, van millorar les tècniques agrícoles i van començar a generar i emmagatzemar excedents i, així a desenvolupar la cultura i a progressar.

**No va ser progrés no més per alguns?**  
 Es va crear una jerarquia social: als qui mataven els va anar millor que als que els obedi. El món del caçador nòmada era primitiu però igualitari; el de l'agricultor pastor era jeràrquic i desigual, però culte. Si no tenia menjar emmagatzemat i qui el control per tu, no tenia temps per escriure i poesia.

**A Austràlia on fins fa poc només hi havia nòmades es hi havia violència?**  
 Tremenda, i per això no crec que la violència organitzada aparegui amb l'agricultura, sinó molt abans.

**Des de quan som violents?**  
 Des de fa 100.000 anys i molt abans ja érem violents: ho som des que som humans, però et que ens fa ser-ho també és la capacitat de reconciliar-nos.

**De reconciliar-nos i tornar a lluitar i tornar a reconciliar-nos... és un dia polític?**  
 En les societats tradicionals, encara es reconcilien amb-se i intercanvien bestes. I, fins i tot, amics, i capacitat, que notrem en els ximpanzés, de regular-nos per normes, educació moral, principis que ens fan predecibles.

**Predecibles també per agredir?**  
 El ximpanzé no es baralla per idees, però també aquestes idees ens permeten l'últim pas: el progrés de la convivència i la cooperació fins a l'assassinat de ser 8.000 milions d'humans el risc que posen en perill l'equilibri del planeta.

LLUÍS ANIGUÉ

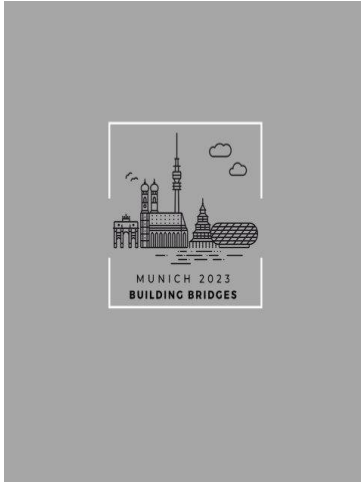
Interview to Scott Atran (radio 14th of November, 2023)

<https://www.cmca.cat/3cat/scott-atran-lextrema-dreta-es-comporta-com-els-jihadistes/audio/1188691/>



## 4. “BUILDING BRIDGES 2023”, THE 34th AE ANNUAL CONFERENCE

### Highlights from Building Bridges 2023



The 34th Annual Conference of Academia Europaea (AE) and 13th of the Young Academy of Europe (YAE), took place in Munich as it was hosted by the AE Munich Hub on 9-11 October. The plenary program, featuring leading international scholars from a wide variety of academic disciplines, was presented in a ‘hybrid’ format that enabled virtual attendance in addition to in-person attendance.

More than 300 attendees in-person, representing 41 different countries were present. For further information on Building Bridges 2023 is available at: [https://www.ae-info.org/ae/Acad\\_Main/Plenary\\_Conferences/Building%20Bridges%202023%20Munich](https://www.ae-info.org/ae/Acad_Main/Plenary_Conferences/Building%20Bridges%202023%20Munich).

Building Bridges is the name, since 2018, of the annual plenary conferences of Academia Europaea. These conferences aim to engage the interests of all thematic areas of the academy and are therefore broad in scope and of a highly interdisciplinary nature.

On this occasion, both the Academic Director, Jaume Bertranpetit and the Hub Manager, Maite Sánchez, attended the conference. Professor Bertranpetit had an oral talk explaining the activities of the HUB.



The Academia Europaea-Barcelona Knowledge Hub has hosted the AE annual plenary conference on four different occasions (in 2014, 2018, 2019 and 2021, respectively).



## 5. HYPATIA PRIZE

### 5.1 AWARD CEREMONY, BARCELONA HYPATIA EUROPEAN SCIENCE PRIZE, 4TH EDITION

On March 4th, 2024, the **Barcelona Hypatia European Science Prize Ceremony** in its fourth edition (**Science and Technology, including Mathematics**) will take place.

It will be presided by **Jaume Collboni**, Mayor of Barcelona and it will be also featured by AE President **Marja Makarov**.

The five members comprising the selection jury were: **Jaume Bertranpetit**, Jury President, **Ana Achúcarro**, **Ernest Giralt**, **Paolo Papale** and **Caterina Biscari**. They met in November 2023 and took a decision that will be public in January 2024.

### 5.2 CALL FOR NOMINATIONS, 5TH EDITION, LIFE AND HEALTH SCIENCES, AND SELECTION BY THE INTERNATIONAL JURY

The **Call for Nominations** for the 5th Edition of the **Barcelona Hypatia European Science Prize**, in the area of **Life and Health Sciences**, will open in May, 2024. The Hypatia Prize, in the amount of 30,000 euros, recognises an outstanding researcher who has achieved a career of excellence at the highest international level in Europe and has made a significant contribution toward different fields of knowledge, as well as a positive impact on society.





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## 6. SPECIAL PROJECT DURING 2024

### 6.1 ART AND SCIENCE PROJECT

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A new important strategic line of the AE-BKH encompasses the interrelationships between Art and Science, aimed at exploring and developing synergies between these areas as complementary ways of understanding and interpreting the world. The AE-BKH seeks to enrich the dialogue that has begun between artists and scientists in its area of influence and to dynamise relations.

In an initial phase, the AE-BKH organises dialogues, round table discussions and joint work sessions focused on harnessing science-art synergies; then, in a later phase, it plans to promote the development and production of artistic projects, built on partnerships with scientists and/or residencies at research centres, with the goal of exhibiting these projects both locally and internationally, highlighting their added value for scientists, artists, and others.

The AE-BKH aspires to make this line of action innovative, creative, and interdisciplinary, appealing to all stakeholders involved.

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## 7. WEB COMMUNICATION AND SOCIAL MEDIA

The Barcelona Knowledge Hub of the Academia Europaea (AE-BKH) devotes special attention to its web communication, social media and digital content, as this area serves a double purpose: first, it enables the AE-BKH to promote and share news of its activities in a timely and visually striking way; and second, it permits the AE-BKH to create an international academic community of both AE Members and non-Members in a way that bears in mind their geographic dispersion.

The AE-BKH has created its own website: <https://aebarcelona.eu/en/> where all the information is updated. The Catalan version will be available at the end of March, 2024.

### 7.1 SOCIAL MEDIA

#### FACEBOOK PROFILE

The AE-BKH manages the Facebook account [Barcelona Knowledge Hub, @ae.bkh](#). It posts information regarding all AE-BKH activities and events. By the end of 2023, the account had a total of 1k **followers**.

#### X PROFILE

The AE-BKH manages one Twitter account: [Barcelona Knowledge Hub \(@ae\\_barcelona\)](#) and it has **993 followers**.

#### INSTAGRAM PROFILE

The AE-BKH manages since 2023 its own account: [Barcelona Knowledge Hub](#) and has 76 followers.

#### LINKEDIN PROFILE

The AE-BKH manages since September 2023 the LinkedIn account: [Barcelona knowledge Hub](#) and has 26 followers.

## 8. PARTNERS OF THE AE-BKH

Since the Barcelona Knowledge Hub of the Academia Europaea (AE-BKH) was first launched 2013, the **Government of Catalonia** and the **Barcelona City Council** have acted as the main sponsors and promoters of the AE-BKH, in order to consolidate Barcelona as a hub of science and innovation in southern Europe and the Mediterranean region. Their continued support, along with the collaboration of the **Catalan Foundation for Research and Innovation (FCRI)**, provides the AE-BKH with the stability needed to undertake new activities and to plan for future growth and expansion.



Partners:



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Innovació



# Academia Europaea Bergen Knowledge Hub

# Annual Report 2023



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## Introduction

**By Eystein Jansen, Professor at the Department of Earth Science, University of Bergen, Academic Director of Academia Europaea Bergen Knowledge Hub.**

Dear all,

The Academia Europaea Bergen Hub (AE Bergen) is pleased to present our annual report for 2023. As you will see from the report, 2023 was a year of selected major projects for the hub, but also a year for diverse forms of outreach and discussion through lectures and workshops on a variety of topics.

Our work and daily life both as citizens and scientists have been severely impacted by the geopolitical situation characterised by increased conflicts and turmoil. This has also had an impact on the activities of our Hub. Research cannot be performed in isolation. Scientists must provide and share their knowledge but should if possible, also engage in opportunities to use research and scientific collaboration to reduce tensions through cross-border contacts; often called 'science diplomacy'.

One of our Hub's main strategic priorities has always been 'the Arctic', and scientific cooperation in this region is now highly affected by the Russian ongoing attack on Ukraine and the following sanctions. During 2022-2023 we carried out a project analysing some of these effects. We interviewed many stakeholders of Arctic research and science diplomacy, and organised a successful event on the topic with many key stakeholders at the 2023 Arctic Frontiers conference. Main findings from this project can be read in the report [The Future of Arctic Science and Science Diplomacy](#). See also textbox on page 10. We have also been interviewed on this issue in the [SAPEA podcast](#).

A critical effect of the Russian invasion is loss of key scientific data from the Arctic. We are following up our engagement by a new 'Rethinking Arctic Collaboration' project funded by UArctic and with

in-kind support from our host, the University of Bergen (UiB). The project includes academic and non-academic partners from Canada, USA and Europe, seeking knowledge from experts and stakeholders to further map the situation and hopefully advise as to how Arctic scientific collaboration and science diplomacy can be recovered again.

Continuing outreach activity from previous years, our Hub also in 2023 organised a series of lectures in cooperation with academies like The Norwegian Academy of Technological Sciences, and UiB, on topics like cancer in the light of evolution, seabed mining and biodiversity conservation in the deep sea, nuclear energy, Arctic Ocean exploration, and on 'green' vs 'blue' focus on nature and sustainability'.

I will use this opportunity to wish new members from the Nordic and Baltic region heartily welcome. I hope you will engage with AE and our Hub. We welcome all suggestions of topics, events and initiatives. I also will urge our members to nominate new members, as our current membership is increasing in age. We need influx of active younger scholars from all fields. Our Hub provides some communication and administrative support for the Young Academy of Europe. We see this as a fruitful means of supporting the activity and integration of young scholars into AE activities.

One activity I am very hopeful for, is the work of the Academia Europaea Task Force on Environment, Sustainability and Climate, which I am part of. The Task Force came about after polling the wide interest in our membership to engage in these areas. We held a fruitful workshop in Cambridge in September, the outcome of which was presented at the AE Annual Meeting in Munich in October. We first aim to spearhead activities in the area of a sustainable food system, and more initiatives will follow.

As vice-president of the ERC for the Physical Sciences and Engineering Domain I see a potential for synergies between Academia Europaea and ERC. One way I hope to utilise this potential could be to involve both the Academia Europaea and the ERC in the International Decade for Science for Sustainability, an initiative just decided by the UN General Assembly.

Eystein

(Bergen, February 4th, 2024)



Academic Director of Academia Europaea Bergen, Eystein Jansen.  
Photo: ERC

## Our Mission

Our Hub aims to be a catalyst for collaboration, knowledge exchange and ideas to:

- Engage research and scholarship with policymaking in Europe and in the Nordic and Baltic Regions, on behalf of Academia Europaea and in close collaboration with national academies of the region.
- Promote excellent research from and about the Nordic and Baltic Region, its surrounding seas, and the Arctic with emphasis on marine and maritime research, sustainability, and the Nordic social model, through scholarly workshops and public events.
- Demonstrate the importance of scientific scholarship and maximise engagement with our members, policymakers, private and public entities and the wider public.
- Stimulate scientists to accomplish stringent and unequivocal communication and interaction with decision makers, media, and the public.

## Our main strategic priorities

- Our major framing perspectives are marine and Arctic issues, our cooperation with SAPEA (Scientific Advice for Policy by European Academies), and advocacy for establishing independent national science advice mechanisms throughout our region. Our hub will promote sustainability issues including the UN Sustainable Development Goals (SDGs), emphasizing sustainable use of the ocean and marine resources, climate change, energy transformation and policies for the development of governance and welfare, as well as promoting the arctic as a military low-tension area.
- We emphasize the importance of collaborative efforts from scholars from the natural sciences, the social sciences, and the humanities, to solve major human challenges.
- Our Strategic Plan runs from 2021 to 2024. A more thorough outline of the strategic areas of the AE-Bergen Hub, can be found in the [Strategic Plan](#). A concentrated version is found below:

## Strategic areas for the AE-Bergen Hub

### Area 1 - Science-policy interface

- We aim to contribute to evidence reports for science-policy interactions, including to propose future SAPEA topics, and to promote science advice and science diplomacy in general. The Hub will advocate independent national science advice mechanisms, comparable to the EUs' Science Advice Mechanism (SAM). Our advocacy for establishing national independent scientific advice mechanism, will primarily focus on the need for processes providing independent and transdisciplinary scientific/knowledge-based reviews, and to clearly separate such reviews from political recommendations.
- As outlined in our Strategy Plan, we will organize debates and dialogues on scientific topics re-



levant to policymaking. We will engage with SAPEA and EU's Scientific Advice Mechanism (SAM), including nomination of candidates to SAPEA activities. In addition, we will engage with national mechanisms for science advice to policymakers in our region. We will continue as an active partner of the multi-stakeholder forum Arctic Frontiers.

### **Area 2 – Promote and showcase excellent research and scholarship**

- We will promote and showcase research and scientific excellence within our region and beyond, through various events and communication channels, engaging with our membership base and members of the Young Academy of Europe in our region. We will pose critical research-based questions, contribute to scientific debates, and illuminate scientific breakthroughs and outcomes from meetings and conferences.
- From 2021 we have co-organised science lectures with UiB's Horizon lecture series on a regular basis, highlighting excellent research on cross-disciplinary issues for a broad science-interested public. We also co-organise events with the Bergen programme-committee of the Norwegian Academy of Technological Sciences (NTVA).

### **Area 3 – Visibility and regional engagement**

- We will increase our visibility in the region and strengthen our engagement with relevant actors and communities (private, public and NGOs). To fulfill our mission, we aim to further develop the Hub's portfolio of activities and sponsorships at the intersection of science and the wider society.
- By sharing publications and reports, news items and interviews, we aim to make our website an engaging showcase of our activities and engagements. We will establish and update a calendar of activities and events, aiming to attract a broad audience from the academic, public, and private sectors. In addition to in-person events, we will communicate broadly through webinars, our website, newsletters, and social media channels. We will participate in relevant local forums and arenas that match our priorities, both to increase our visibility and to actively seek collaboration with others.

### **Area 4 - Cooperation with national academies in our region and the other AE Hubs in Europe**

- We aim to establish good connections to the national academies of our region. In this endeavour we will emphasize AE's strengths in science advice for policy, its pan-European perspectives, and strong connections to leading European research institutions e.g., the European Research Council, in addition to the thematic areas of our Hub. We aim to strengthen the interaction between academic communities across Europe, starting with collaboration with other AE Hubs. We will engage in inter-Hub meetings to discuss possibilities for e.g., joint events, activities, mutual learning and sharing of resources.

# Highlights from 2023 activities

## January

A meeting between the staff of AE-Bergen and Young Academy of Europe (YAE) Board members was held on January 16th. This was the first meeting between AE-Bergen and YAE after the new YAE Board members were elected in October 2022. The meeting included discussion of specifics of the AE-Bergen support to the YAE.

## February

On February 3rd, AE-Bergen co-organised a well-attended side event at the Arctic Frontiers Conference 2023 Moving North, in Tromsø. The event [The Future of Arctic Science and Science Diplomacy](#), included a panel of major stakeholders of research, research policy and politics concerning the Arctic. The event was part of AE-Bergen's investigation on the status and prospects of Arctic science and science diplomacy in light of the Russian war against Ukraine, later in the year to result in the report [The Future of Arctic Science and Science Diplomacy](#), initiated by Academia Europaea Bergen. The event illuminated grave examples of how longstanding Arctic cooperation, academic friendships and scientific observational data have been terminated or are rapidly withering due to both the war, the sanctions against Russian institutions and the freeze of science diplomacy efforts. Following the event, an opinion piece by Eystein Jansen, Ole Øvretveit and Lise Øvreås was published Nordlys (Northern Norway's biggest newspaper) and in Khrono (the website of Norwegian higher education).



Ole Ramus Øvretveit, 3rd from left, moderated our side event at the Arctic Frontiers Conference 2023 Moving North, in Tromsø.



Darwin Day & Horizon lecture, February 13th: Professor in medicine Jarle Breivik explored the evolutionary logic of cancer.

AE-Bergen co-organised a Darwin Day & Horizon lecture, February 13th: Professor in medicine Jarle Breivik explored the evolutionary logic of cancer under the title [Making Sense of Cancer](#). In this lecture, Breivik drew lines from the evolution of the species, through embryologic development, to aging and malignant transformation. What will it take to get rid of cancer? Should society rather learn to live with it?

AE-Bergen continued our involvement as co-organiser of a well-established meeting series (mainly held in Norwegian) together with the Bergen offices of the Norwegian Academy of Technological Sciences (NTVA Bergen) and The Norwegian Society of Graduate Technical and Scientific Professionals (Tekna Bergen). The first series meeting of 2023, [on nuclear power and sustainability](#), was held on February 14th. Lectures were given by Professor Jan Petter Hansen (UiB/NHH) and Niels Berger (CFO) from ThorCon ([thorconpower.com](http://thorconpower.com)).

## April

AE-Bergen was co-organizer of the Horizons Lecture, April 20th: [Seabed Mining and Biodiversity Conservation in the Deep Sea: Where Science meets Policy](#). In her lecture, Lisa A. Levin, from the Scripps Institution of Oceanography, explored how the deep-sea ecosystems are being targeted for seabed mining, their biodiversity and why it matters, potential threats and management challenges.

## May

AE-Bergen's communication advisor Nils Olav Sæverås participated in the ['Publishing in Academia: Digital Challenges'](#) symposium at the Wenner-Gren Centre in Stockholm, May 10th to 12th. The symposium was co-organised by the HERCulES group of the Academia Europaea and the Wenner-Gren Foundation.



A meeting of administrative and communication staff from the AE hubs during the anniversary celebration of the Academia Europaea Wrocław Knowledge Hub.

Nils Olav Sæverås also represented AE-Bergen at the [celebration of the anniversary the Academia Europaea Wrocław Knowledge Hub](#) on May 19th. The regional branch of Academia Europaea in Wrocław, Poland, was established in 2011.

## June

The annual meeting of the Academia Europaea Bergen steering group took place on June 12th. Topics were activities and plans, with emphasis on the Hubs engagement on how the Russian attack on Ukraine influences the prospects of Arctic research and science diplomacy.



The annual meeting of the Academia Europaea Bergen steering group took place on June 12th.

## July

Project manager Ole Øvretveit and AE-Bergen Academic Director Eystein Jansen were guests of the SAPEA podcast, hosted by Toby Wardman, in a podcast episode released in July. The topic was our



Project manager Ole Øvretveit and AE-Bergen Academic Director Eystein Jansen were guests of the SAPEA podcast, hosted by Toby Wardman.

“Science Diplomacy in the Arctic”-project. [The podcast is available from the SAPEA website, but can also be found on Spotify and YouTube.](#) “Genuinely one of the most important topics I’ve ever discussed on this podcast”, host and interviewer Toby Wardman says in his introduction to the episode. The podcast starts with some general information about the Arctic and how it is governed by the 8 Arctic countries, as well as the function of the Arctic Council. This as a background for the discussion on the current state of Scientific Diplomacy in the Arctic and the current lack of exchange of scientific data from the Arctic as a consequence of the Russian invasion of Ukraine.

## August



University of Bergen rector Margareth Hagen presenting at the 2023 Rosendal Week .

Since the first Rosendal Week in 2020, Academia Europaea Bergen has been represented at this regional conference on climate change and energy transitions in Western Norway. Our representative at the 2023 Rosendal Week (August 7th – 8th) was Hub Manager Kristin Bakken.

## September

September 20th-22nd, Academic Director Eystein Jansen participated as a selected member of the Academia Europaea, at the Academia Europaea’s Task Force on Environment, Sustainability and Climate (TFESC) workshop in Cambridge. AE-Bergens Steering Group member Matthias Kaiser

also participated. The primary objective of this gathering was to explore innovative strategies and approaches to advance Healthy Food and Sustainable Agriculture in Europe, while maintaining a global perspective.

## October

Academic Director Eystein Jansen and Hub Manager Kristin Bakken participated at the 34th Annual Conference of Academia Europaea in Munich, October 9th - 11th. A presentation of the Hub's activities and plans at AE-Bergen was given by Eystein Jansen.



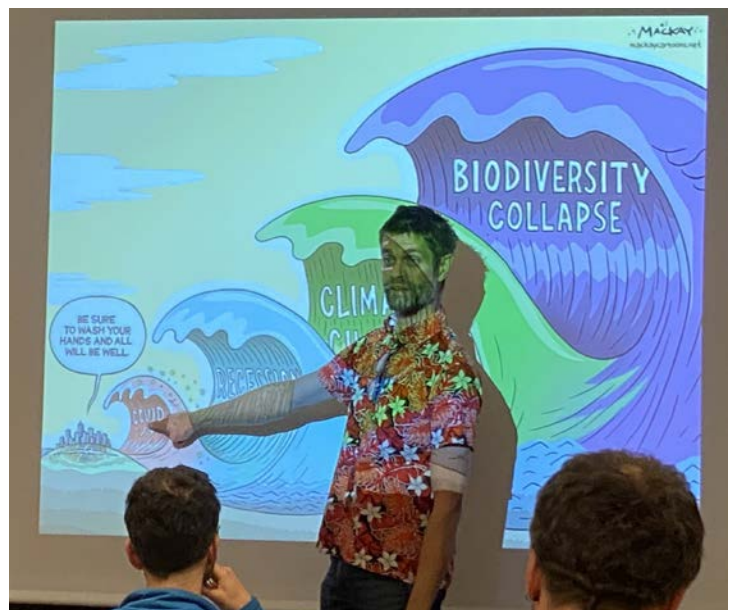
The inaugural Sydney Brenner Medal was presented to Gene Yeo, PhD, MBA, professor of cellular and molecular medicine, at the 34th Annual Conference of Academia Europaea in Munich.

The high North is Norway's most important strategic foreign policy area. The national GoNorth project has completed two expeditions into the Arctic Ocean. On October 17th, AE-Bergen facilitated a seminar in Bergen for NTVA, titled [GoNorth – Exploring the Arctic Ocean](#). The seminar presented discoveries from the 2023 summer expedition along the mid sea ridge northwest of Svalbard, including hydrothermal vent fields that have never previously been explored.

## November

On November 14th, a lecture in the AE-Bergen, NTVA Bergen and Tekna Bergen lecture series was held, titled [The “green” vs the “blue” lens on nature and sustainability](#). Professor of marine ecology at UiB, Christian Jørgensen, explored some of the comparisons between what happens at land and in the oceans, in the myriad of data on global resource use and potential impacts.

The final report on our “The Future of Arctic Science and Science Diplomacy” project was published on our website. For more on the findings in the report, see page 10. The report was referenced at the website EUobserver.



Professor of marine ecology at UiB, Christian Jørgensen.

AE-Bergen's engagement in science and science diplomacy in the Arctic was strengthened by a grant of 400 000 NOK from UArctic for 2023-2025 for the international [‘Rethinking Arctic collaboration’](#) project, to be led by AE-Bergen and Eystein Jansen. Partners are the Alfred Wegner Institute,



Germany, Nord University, Norway, Dartmouth College, USA, The Macdonald-Laurier Institute, Canada as well as the international NGO International Center of Reindeer Husbandry. There is also a Steering Group for the project. The project had its start-up-meeting for partners and Steering Group members on November 29th. It was decided that a first task should be to prepare a session-proposal on the topic at the [Arctic Circle Berlin](#) forum in May 2024.



Initial meeting of the “Rethinking Arctic Collaboration”-project.

## December

AE-Bergen with co-organisers got acceptance for a proposed side-event for the [Arctic Frontiers 2024 conference](#). The side-event (held on February 1st 2024), [exploring the new Arctic energy mix in light of major electrification projects](#), was a success and [is available on youtube](#).

## Arctic climate data unavailable to science following Russia sanctions

**Currently, Arctic climate research does not have access to climate data from 45% of the Arctic area. This is because climate data from the Russian Arctic areas is largely no longer available to the global research community, as a by-product of the Russia sanctions.**

This is one of the findings in the report [‘The Future of Arctic Science and Science Diplomacy’](#), initiated by AE-Bergen. The report describes the situation for scientific cooperation and science diplomacy in the Arctic in the wake of the Russia sanctions since February 2022, with a particular focus on effects on sharing of climate data and access to the collection of data.

Both scientific and evidence-based state-to-state cooperation has historically been intertwined and of high importance in the Arctic. This tight connection between science and (science) diplomacy has helped to reduce geopolitical tensions and facilitated international management programs. In line with the current sanction regime, western countries and the EU have paused bilateral and institutional collaboration and contact with Russia after the full-scale invasion of Ukraine in 2022. This applies to scientific organisations as well. The current war involves a high risk of severe drawbacks in the international Arctic cooperation needed for security, climate change mitigation, biodiversity, combatting pollution, ecosystem conservation, and food security.

The temperature increase is three times faster in the Arctic than the global average, leading to continued loss of sea ice and melting glaciers. Another critical aspect is the thawing of the permafrost with resulting methane emissions. Monitoring climate changes accurately requires data from all Arctic areas, including the Russian ones that are lacking today.

## History and organisation

Academia Europaea (AE), or The Academy of Europe, is a Pan-European non-for-profit company association of individual scientists and scholars established in 1988. The members are experts and leaders in their own subject areas as recognized by their peers. The Young Academy of Europe (YAE) is independent but affiliated to Academia Europaea.

Academia Europaea operates through its sections and disciplinary classes, but also through a network of regional knowledge hubs, so far in Barcelona, Cardiff, Wroclaw, Bergen, Tbilisi, Munich, and Budapest. The Budapest Hub is hosted by the Hungarian Academy of Sciences, established in December 2020 to support academics, scholars, and independent research in Hungary, facing a challenging political environment.

The AE-Bergen Hub was established in 2014 and hosted by The University of Bergen (UiB) from 2016. UiB sponsors the running of the Hub, including qualified personnel, appropriate spaces and services for its correct operation and full functioning. AE-Bergen is headed by an Academic Director appointed by UiB, currently AE member (MAE) professor Eystein Jansen (from 2018). The cooperation agreement between AE and UiB states that the Academic Director, an Advisory Board, and a Steering Group shall ensure strategic direction and activities in line with AE's purpose and the intentions of the agreement. The contract between AE and UiB was renewed on May 25th 2021, ensuring that UiB will host and provide facilities and personnel for the running of the AE-Bergen Hub until 2025.

## Academic Director and Hub Administration of AE-Bergen



Academic Director

**Professor Eystein Jansen**

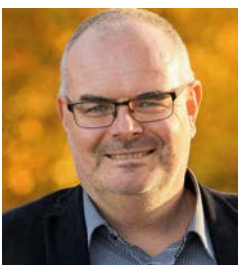
Eystein.Jansen@uib.no (part time dedication)



Hub Manager

**Kristin Bakken**

Kristin.Bakken@uib.no (part time dedication)



Communication Adviser

**Nils Olav Sæverås**

Nils.severas@uib.no (part time dedication)

## Advisory **Board** members in 2023

- Margareth Hagen; Chair, Rector and Professor, University of Bergen, Norway (Italian Literature)
- Erland Källén; MAE, Professor, University of Stockholm, Sweden (Meteorology/Climate)
- Kirsten Drotner; MAE, Professor, University of Southern Denmark, (Media)
- Carl G. Gahmberg; MAE, Professor Emeritus, University of Helsinki, Finland (Molecular and Integrative Biosciences)
- Björn Wittrock; MAE, Professor Emeritus, Uppsala University and Vice President AE
- Jüri Allik; MAE; Univ. of Tartu, Estonia (Psychology)
- Ole Arve Misund; MAE, Director/Professor Tromsø (Marine and fisheries biology)
- Martin Fernø; MYAE, Professor, University of Bergen (Physics)

## Steering Group members in 2023

- Kjersti Fløttum; MAE, Univ. Bergen (Linguistics)
- Petter Bjørstad; MAE, Univ. Bergen (Informatics)
- Dieter Roerich; MAE, Univ. Bergen (Physics)
- Svein Sundby, MAE, Professor, Institute for Marine Research, Bergen (Oceanography)
- Anne Gro Salvanes, MAE, Professor, Univ. of Bergen (Marine biology)
- Dag L. Aksnes; MAE, Professor, Univ. of Bergen (Marine biology)
- Sigrid Eskeland Schütz; Professor Univ. of Bergen (Law)
- Matthias Kaiser; MAE, Professor, Univ. of Bergen (Philosophy of science)
- Stein Kuhnle; MAE, Professor, Univ. of Bergen (Political science)
- Hans Z. Munthe-Kaas; MAE, Professor, Univ. of Bergen (Mathematics)
- Ole Øvretveit, Project manager, (Pilot Digital Coast)
- Lise Øvreås; MAE, Professor, Univ. Bergen (Geomicrobiology)
- Marc Bezem; MAE, Professor, Univ. Bergen (Informatics)

## AE-Bergen office and contact

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E-mail: [AEbergen@uib.no](mailto:AEbergen@uib.no)

Website: <https://aebergen.w.uib.no>

## Terms of reference (TOR) for the Advisory Board

- Formulate an overall strategy for the Hub
- Provide input to the strategic and annual plans of the Hub in terms of meetings, discussions, and events.
- Ensure the development of science advice for policy within the Nordic/Baltic political context.
- Ensure that the Hub is visible and has activities on a Nordic/Baltic scale, including engagement in activities outside of the Bergen region.
- Provide links with international and national academic networks.
- Provide links to AE members and academic environments in the Nordic/Baltic Region and activate these in Hub activities.

## Terms of reference (TOR) for the Steering Group

- Develop strategic and annual plans together with the Academic Director and the Hub management team.
- Develop collaborations and broad linkages with the society of Bergen and Western Norway, such as: The regional academic institutions and research environments, regional and municipal authorities and their organisations, regional industry, business environments and industry clusters and the public.
- Link high level academic scholarship with key societal issues, e.g. through the SDGs.
- Stimulate knowledge-based policy development, and actively pursue science for policy options on the national and European levels through existing science for policy mechanisms and other activities, as well as taking part in nominating suitable candidates for such tasks.
- Establish scoping processes to identify policy challenges at the regional, national and/or the European levels that can be enlightened by scientific evidence and advice.
- Propose engagements and opportunities for the Hub in terms of conferences and public events.
- Provide links with international and national academic networks.



To promote excellent research from and about the Nordic and Baltic Region, its surrounding seas, and the Arctic, is part of the mission statement of AE-Bergen.



THE ACADEMY OF EUROPE  
BERGEN KNOWLEDGE HUB

**Hosted by**



UNIVERSITY OF BERGEN

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# ANNUAL REPORT 2023

OF

## THE ACADEMIA EUROPAEA BUDAPEST KNOWLEDGE HUB





# INTRODUCTION

2

**2023 was the third year since the launch of the operations of the Budapest Hub on January 1st, 2021.**

During the last twelve months, each of the four thematic missions of the Budapest Hub – “Widening European Participation”, “Danube Region”, “Methodology of Science Education” and “Urban Sustainability” – went on with their event agendas respectively. In organizing their public conferences or workshops, they collaborated with other organizations such as the European Academies Science Advisory Council (EASAC) or the Young Academy of Europe (YAE). In the first quarter of the year, the leadership of the Hub seriously considered the idea of submitting an application to a COST call, but after consultations with all possible stakeholders, they finally concluded it was better to postpone submission to a later date, so as to make sure that by the time of the application the necessary network of collaborators has been built up for a really successful and impactful COST project.

At the “Building Bridges” annual meeting of Academia Europaea, this year hosted by the newly-established Munich Hub in early October, the Budapest Hub was represented by three of its Co-Chairs: Professor Eva Kondorosi (Co-Chair for Widening European Participation), Professor András Báldi (Co-Chair for the Danube Region) and Dr Katalin Solymosi (Co-Chair for the Danube Region). The Hub leadership and staff were happy to congratulate Katalin Solymosi on her election as the next Chair of the Young Academy of Europe, the organization which held its General Assembly in Munich in parallel with the Building Bridges conference of AE. In preparation for the Building Bridges event, the Budapest Hub staff provided administrative assistance to the Class C (Life Sciences) of Academia Europaea for the inauguration of new Members of the Class.

The year was marked by the launch of regular online meetings of all AE Hubs’ communication staff, coordinated by the AE Cardiff Hub, with a view to coordinating communication actions of all kinds of the various Hubs, at the visual as well as the content level. As far as the visual aspect is concerned, this is part of the branding refresh initiative of AE, also launched this year.

**The output of the Budapest Hub in 2023 is presented below in the context of its four thematic missions:**





## Widening European Participation thematic mission

*Co-chairs of the thematic mission:*

**Professor Éva Kondorosi**, Member of AE and MTA

**Dr Gergely Toldi**, Alumnus of GYA, Member of HYA

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### AIMS:

1. Monitor the growth of AE membership from Danube countries;
2. Establish close collaborations with a representative AE member and an early-career researcher from each Danube country;
3. Identify the strength of countries and potential common scientific interests (in association with the other three thematic missions of the Hub);
4. Involve AE members in mentoring programs;
5. Collaborate with other AE Hubs and the Young Academy of Europe

### ACTIVITIES IN 2023

#### Meeting of regional “Widening Partners” (carried out under Aim 3)

Meeting of the Academia Europaea **Budapest Hub leadership** and the delegation of the **Academy of Sciences of Moldova (ASM) to discuss cooperation on 27 January 2023, at the Palace of the Academy, Budapest:**

The participants discussed possible forms of future scientific collaboration, including the joint preparation of a COST Action proposal which could focus on water science from a viewpoint based on common concerns of Danube Region countries related to climate change, water supply challenges, floods and droughts.

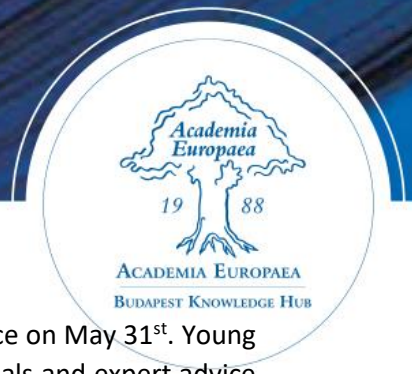
As a follow-up to the meeting, the Academy of Sciences of Moldova officially nominated three scientists – experts respectively in sustainable agriculture, hydrobiology and conservation of biodiversity – who could be involved in the Budapest Hub’s future activities. The Budapest Hub established contact with them. After more in-depth consultations with domestic stakeholders, though, the Hub leadership concluded that planning of and preparations for a COST proposal would take more time and more preliminary coordination with possible partners, which meant the idea of a COST project was put off to a later date.

**Young Academy of Europe and AE Budapest Hub joint ERC Starting Grant Mentoring Event – 31 May, 2023, online** (carried out under Aims 4 and 5)

*Online visibility: 786 views on YouTube in 7 months*







The third edition in the mentoring series of Young Academy of Europe took place on May 31<sup>st</sup>. Young researchers wishing to apply to the ERC Starting Grant could listen to testimonials and expert advice at the online event co-organized by YAE and AE Budapest Hub.

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31 May 2023 (online, Zoom)  
15:00 - 16:20 CET

Agenda:

1. Introduction to ERC funding and evaluation
2. Introduction to narrative CVs
3. Positive testimonial with narrative CV and ERC StG evaluation

Started by the Young Academy of Europe back in September 2020, the mentoring event series aimed at young researchers having the ambition to apply to an ERC Grant call (typically a Starting Grant) has been a great success in the virtual arena of mentoring and grant application training events. Organized in collaboration with the Academia Europaea Budapest Knowledge Hub, the third event took place - again online - on May 31<sup>st</sup> 2023, from 15:00 to 16:20 hrs (CET). The focus now was on narrative CVs and the evaluation of ERC applications.

The AE Budapest Hub's Academic Director, Professor László Lovász, who is currently also a member of the Scientific Council of the European Research Council, gave his closing remarks at the end.

The online event was recorded, the full recording can be viewed on YAE's YouTube channel: <https://www.youtube.com/watch?v=TZjesMzOQeQ>



## Danube Region thematic mission

*Co-chairs of the thematic mission:*

**Professor András Báldi**, Member of AE

**Dr Katalin Solymosi**, Member of YAE and HYA

### AIMS:

1. Facilitate networking and interdisciplinary collaboration between scientists (especially AE and YAE members) working in the Danube region.
2. Highlight the natural values of the Danube region from an “artistic” perspective to strengthen the interdisciplinary and “Arts and Science” aspects of the Hub
3. Support and involve early-career researchers from the region in the activities of the Hub
4. Foster participation of researchers from the region in science policy

### ACTIVITIES IN 2023

**Open session on EASAC’s report on Neonicotinoids 29 March 2023, Palace of MTA, Budapest** (carried out under Aim 4)

*Online visibility: 485 views on YouTube in 9 months*



On 29 March 2023, EASAC's latest report on Neonicotinoids and their substitutes in sustainable pest control was presented to the public at a launch event at the Hungarian Academy of Sciences, in cooperation with the AE Budapest Hub. At the open session, EASAC’s experts delivered presentations



about the report which was released on 28 February 2023. The presentations were followed by invited comments from Hungarian experts and a roundtable discussion. A summary of the key messages in English is available on MTA's website (<https://mta.hu/english/easacs-new-report-on-neonicotinoids-presented-at-the-headquarters-of-the-hungarian-academy-of-sciences-112976>).

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The full recording of the event can be viewed here:

<https://www.youtube.com/watch?v=NklVgcev6ps&list=PLfs1ZvoZ3qYRuUv8Bc84RFD9z60e-BSqA&index=27>

## Methodology of Science Education thematic mission

*Co-chairs of the thematic mission:*

**Professor Csaba Pléh**, Member of AE and MTA

**Dr Eszter Gselmann**, Member of HYA

### AIMS:

1. Develop and promote new methodologies in science education to help the transfer of scientific knowledge at all stages of education, from primary school to university science curricula.
2. Identify the new challenges of distance education, brought to the forefront by the COVID pandemic.
3. Contribute to more social and gender equality in access to science education and STEM careers.
4. Promote the exchange of ideas and experience at all levels of education among countries in the region and in Europe

### ACTIVITIES IN 2023

**“Science Education Can Build Bridges” - the third edition of the science education methodology workshop series took place on 20 February 2023** (carried out under Aims 1 and 4)

*Online visibility: 133 views on YouTube in 10 months*

The on-going programme of the Hungarian Academy of Sciences in science education methodology aims to serve as the basis for the development of the activities of the AE Budapest Hub under the thematic mission “Methodology of Science Education”, which in turn offers the possibility to widen



the scope of the programme by incorporating the latest advances in education methodology on a European level.

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Started in 2021 with an online international and an in-person domestic event, the third edition in the workshop series was held on February 20, 2023, bearing the title “Science education can build bridges”, and featuring experts from Finland, Estonia, Germany, and Hungary. **Jari Lavonen**, Professor of Physics and Chemistry Education at the Department of Teacher Education, University of Helsinki, Finland, held a talk entitled “Engaging secondary students in physics learning through project-based learning”. In his talk, he explained what is new in the science curriculum in Finland: namely the emphasis on learning of disciplinary core ideas, learning and using scientific and engineering practices, students’ active role in knowledge-building, collaboration between students, and the use of digital tools and media in education. **Miia Rannikmäe**, Professor of Science Education and Head of the Centre for Science Education at the University of Tartu, Estonia, talked in her presentation about “New teaching methodologies in science education”. The talk was based on four recent or on-going projects, in which researchers had been looking for ways to reverse the negative tendency of students’ lacking awareness of science careers and of their ensuing lack of motivation to consider pursuing a scientific career. **Eckhard Klieme**, Professor of Educational Science at Goethe University in Frankfurt am Main and Director of the Department for “Educational Quality and Evaluation” at the Leibniz Institute for Research and Information in Education (DIPF), Germany, gave a lecture entitled “An experimental study on adaptive science education in primary school”. Being a general researcher in educational science rather than a specialist in science education, he focused in his lecture on the findings of a project which investigated three areas of educational research: generic teaching quality, inquiry-based science education (more specifically guided inquiry) and adaptive teaching. As the fourth speaker, **Benő Csapó**, Professor and Head of the Doctoral School of Education at the University of Szeged, Hungary, delivered a talk entitled “Supporting early science learning with online assessment”. His talk was about the development of an online assessment system for supporting students’ personalized learning, that is, learning adjusted to the needs of the students.

The four presentations were followed by a thought-provoking panel discussion moderated by Professor Csapó. The full recording of the event can be viewed here: <https://www.youtube.com/watch?v=xONs8CHMFM4>



*Later in the year Professor Csapó died in an accident. The AE Budapest Hub had been honoured to have Benő Csapó as a speaker at workshops organized by the Hub’s thematic mission for Science Education Methodology. He was always ready to offer his expertise as well as his ideas and suggestions in (public) educational matters. His contribution to the Hub’s efforts in Science Education Methodology, as well as to all areas relevant for the improvement of public education in general, will be greatly missed.*



## Urban Sustainability thematic mission

*Co-chairs of the thematic mission:*

**Professor Gábor Stépán**, Member of AE and MTA

**Professor Péter Török**, Member of YAE and HYA

### AIMS:

1. Discuss historical drivers, special opportunities and challenges of urban sustainability in the Visegrad countries and other parts of Central Europe;
2. Integrate and assess the specific sets of goal functions and constraints used by the different research areas related to urban sustainability;
3. Define the possible synergies and unavoidable trade-offs while entering the era of smart cities, digital transportation systems, and clean energy;
4. Organize thematic regional workshops and public lectures in urban sustainability;
5. Develop regular and European-wide knowledge exchange and transfer in urban sustainability with the involvement of other AE Hubs.

### ACTIVITIES IN 2023

**“Frontlines of Urban Conservation and Restoration”, a special session on the issues of urban greening, organized by the AE Budapest Hub, held on 22 March 2023, at MTA, Budapest (carried out under Aim 4)**

*Online visibility: 171 views in 9 months*

Only 3% of the surface area of the Earth is urbanised, yet more than half of the Earth’s human population live in towns or cities. The impacts of the complex process of urbanisation constitute the most serious sustainability challenge of the 21st century, from an environmental, economic and social perspective. It is no coincidence that urbanisation as a phenomenon is often labelled as something negative, even though, as **Péter Török**, Co-Chair of the special session and Co-chair for the Urban Sustainability thematic mission of the AE Budapest Hub, pointed out in his welcome address at the start of the session, urbanisation does offer a number of opportunities in terms of sustainability when it comes to the creation of smart cities, green spaces, or the conservation of natural or semi-natural habitats and the provision of environmental education.



At the full-day session, **Monika Egerer** (Technical University of Munich, Germany) presented her study of community gardens in the urban landscapes of Munich and Berlin. As she explained, the research results demonstrate that well-designed urban gardens supporting a variety of functions, contribute to an adequate level of connectivity among green patches, leading to climate change mitigation and an increase in biodiversity. A similar conclusion was drawn by **Christina Fischer** (Anhalt University of Applied Sciences, Bernburg, Germany), who explained how wildflower patches along motorways contribute to an increase in biodiversity and pollinator abundance. In urban habitats, depending on the level of disturbance, there is a great degree of variation in the quality of green areas, to which the communities living there adapt in various ways. Taking leaf size and leaf dry-matter content as indicators, **Carlo Ricotta**, from the Sapienza University of Rome (Italy), studied the adaptation strategies of urban plants and reported on the results in his presentation.

The role of pollinators is truly invaluable for both ecology and economy. Several presentations have addressed the issues of what kind of impact human activities have on the pollinator communities of urban environments and in what ways the abundance and diversity of pollinators can be increased in urban habitats. The functional traits of bees (body size, food specialization, reproduction and active period) determine their ability to adapt to human disturbance in their actual habitats. Analysing these traits, **Weronika Banaszak-Cibicka**, from Poznań University (Poland), found that urban bee communities are predominantly made up of common, cosmopolitan and eusocial species with a long active period. Solitary species (potentially brood parasites) with a shorter active period are more sensitive to human disturbance and tend to occur in smaller numbers in urban habitats. **Federico**



**Morelli**, from the Czech University of Life Sciences Prague (Czechia), highlighted, among other things, the importance of the careful planning of urban green areas for birds in terms of taxonomy, functionality and phylogenetics. **Csilla Stenger-Kovács** (University of Pannonia, Veszprém, Hungary), described in her presentation the complex effects of agricultural land use and urbanisation on aquatic ecosystems. A fresh perspective was taken by **Veronika Bókony**, from the Centre for Agricultural Research at the Eötvös Loránd Research Network, Budapest (Hungary), who primarily studies populations of species rather than multispecies communities. Bókony studied the functional traits of the common toad and those of the agile frog to show how amphibians cope with urbanisation. **Péter Batáry**, from the Centre for Ecological Research, Vácrátót (Hungary), Co-Chair of the conference, presented a set of meta-analyses he and his colleagues had made of primary studies related to the topics covered in this special session, showing in particular how bird communities change along an urbanisation gradient. **Béla Tóthmérész**, from University of Debrecen (Hungary), defined the homogenisation hypothesis and tested it through an analysis of ground beetles (carabids). In contrast to most urbanization studies, he concluded from his results that urban habitats can also be characterised by increased species richness, and a great number of species have been found in his study to live exclusively in urban environments, completely missing from suburban and rural habitats.

One might think urbanisation has a positive effect on the cognitive abilities of birds. From time to time videos go viral on the internet showing birds rummaging in trash cans, opening up abandoned food cans or picking up cigarette butts. But do urban birds really differ in their cognitive abilities from birds living in natural habitats? Testing the problem-solving skills of avian species, **Ernő Vincze**, from Lund University (Sweden), showed that on the whole this is not the case, even though in certain situations better cognitive abilities may contribute to a better adaptation to urban environments.

As **Péter Batáry**, one of the co-chairs of the session remarked, preserving and restoring urban green habitats is just as essential as understanding the impacts of urbanisation on these natural communities. This is exactly the aim of the experts who presented their latest research results on this topic at the special session held in the Small Lecture Hall of the Palace of the Hungarian Academy of Sciences.

***One-off event that did not belong to any of the Hub's thematic missions:***

**“Picturing the Quran: representations of the Muslim holy book in European iconography, 15th-18th centuries” by Professor John Tolan, MAE – lecture delivered on 16 June 2023, at MTA, Budapest**

Hungarian experts of Islam and historians specializing in Oriental Studies gathered at the Budapest Hub to listen to Professor John Tolan (MAE) lecturing about how the Muslim holy book appeared in various accounts in Europe from the 15th to the 18th centuries. The public lecture was opened by AE Budapest Hub Academic Director László Lovász, who stressed how glad he was to see on the agenda of the Hub an event which showed the multidisciplinary nature of the Hub's activities and an important topic that



helps also the general public understand more of the religious and cultural relations and interaction between the Muslim and Judeo-Christian worlds.

Professor Tolan highlighted how authors in Medieval and Early Modern Europe (from the 15th to the 18th centuries) depicted the Quran as “a feigned revelation of a false prophet” and Muhammad as the false prophet himself. Initially, the message of the Muslim holy book was downright rejected by its European critics, but later, with actual translations of the Quran into European languages, the Quran was viewed rather as a rival scripture compared to the Gospels or the Torah, and it has even become a tool for polemics between Protestants and Catholics. Also, as evidenced by the works presented in Professor Tolan’s lecture, Christian scholars and dignitaries have come to apply a scholarly analysis and comparison of scriptures in their efforts to convert Muslims to Christianity through argumentation, through confronting and refuting the Quran.

Member of Academia Europaea since 2013, Professor Tolan is a regular visitor to Budapest where he has collaborated with scholars from different institutions. He and his colleagues in the “European Quran” ERC research project are hoping to organize in 2025 an exhibition in Budapest on the place of the Quran in European culture.





## Web communication and social media:

The AE Budapest Hub joined two social media platforms in April, 2023, with the creation of both a Facebook and a Twitter/X account. The AE Budapest Hub's Facebook Page is available here: <https://www.facebook.com/profile.php?id=100091939061650&sk=about>. We use the username/handle @aebudapest for our X (formerly known as Twitter) [Academia Europaea Budapest](#) profile. News, updates about the activities of MAEs, and events organised by our Hub's thematic missions are shared regularly. The profiles of all the other AE Hubs are also followed, thereby promoting their activities, too. The Budapest Hub staff are especially grateful to the staff of the Cardiff Hub for their support.

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## Finance:

Under the Collaboration Agreement between Academia Europaea and the Hungarian Academy of Sciences (MTA) signed in December 2020 for a period of 4 years, MTA provides the administrative services required for the operation of the Hub, as well as the agreed annual funding to support the Hub activities.



## AE Budapest Hub staff:

*László Lovász*, Academic Director

*Gergely Bőhm*, Hub Manager

*Nóra Deák*, Hub Officer

*Katalin Borvölgyi*, Hub Communications Officer

*Katalin Fodor*, Head of International Relations Department of the Secretariat of MTA

### Co-chairs of the thematic missions:

*Éva Kondorosi and Gergely Toldi*: Widening European Participation

*András Báldi and Katalin Solymosi*: The Danube Region

*Csaba Pléh and Eszter Gselmann*: Methodology of Science Education

*Gábor Stépán and Péter Török*: Urban Sustainability

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### **About Academia Europaea**

**Founded in 1988. Now has more than 5000 leading scientists and scholars as members, including over 70 Nobel laureates. Operates through a network of knowledge hubs in Barcelona, Bergen, Budapest, Cardiff, Munich, Tbilisi and Wrocław.**





ACADEMIA EUROPAEA  
CARDIFF KNOWLEDGE HUB

ANNUAL REPORT 2023

PROMOTING  
**RESEARCH  
EXCELLENCE**  
FOR **POLICY AND  
PROGRESS**

**CARDIFF**  
UNIVERSITY  
PRIFYSGOL  
**CAERDYDD**

# WELCOME TO OUR ANNUAL REPORT 2023

We are delighted to share with you this summary of the Cardiff Hub's highlights and achievements.

The most important news for the Hub came with the announcement of an agreement for the UK to become an Associated Country in the Horizon Europe and Copernicus programmes. Core to the Hub's mission is our involvement in the European Scientific Advice Mechanism via the SAPEA (Science Advice for Policy by European Academies) consortium. We have greatly appreciated the grant from UK Research and Innovation (UKRI) to continue our participation in this important work. Nonetheless, the UK's association means we can look forward with greater certainty to continuing our involvement over the coming years. Indeed, our contribution to SAPEA has been significant this past year. We have completed a number of systematic literature reviews, not only for SAPEA but also the Group of Chief Scientific Advisors and the European Group on Ethics. We are leading the evidence review on *Solar radiation modification*, expecting to deliver the report in the autumn of 2024.

In our other European project, we have completed our work in CALIPER, a Horizon 2020-funded initiative that promotes gender equality in research and innovation, particularly STEM.

It has been good to return to physical meetings and events, whilst still continuing our programme of webinars. In the summer, a celebration of the 30th Anniversary of Academia Europaea's journal *European Review* was held at Wolfson College, Cambridge. We were delighted to have the active participation of Lord Rees of Ludlow OM FRS MAE, Sir Leszek Borysiewicz FRS FLSW MAE and many other distinguished European scientists and scholars. In November, we hosted a successful event, *Beyond borders: strengthening EU-UK research collaboration*. Among our excellent panellists were Professor Christopher Smith FRSE MAE, Executive Director of the Arts & Humanities Research Council and UKRI International Champion, and Professor Hywel Thomas CBE MAE FLSW FRS, President of the Learned Society of Wales.

My thanks go to the outgoing Vice-Chancellor of Cardiff University, Colin Riordan CBE FLSW MAE, for his enthusiastic support for the Cardiff Hub since its establishment in 2016 and for his active participation in the work of the Hub's Steering Group. I am happy that our new Vice-Chancellor, Wendy Larner FRSNZ, has kindly accepted to become a member of the Group. My thanks to the other members of the Steering Group, led by our Chair Sir Mark Walport FRS FRSE MAE, and of course, to our Hub team of dedicated professionals.

Ole H Petersen CBE MAE ML FRS



Director of the AE Cardiff Knowledge Hub





# CONTEXT

Our achievements in 2023 are set out in the context of the four priorities in the Strategic Plan 2020-2023:

1. Continue to play a major role in providing science advice for policymaking
2. Promote excellence through showcasing outstanding research and engaging with our membership base
3. Build connections with the wider group of stakeholders
4. Ensure future sustainability

In line with these priorities, our focus in 2023 has been to:

- Deliver on our project commitments in SAPEA and CALIPER
- Offer an engaging programme of events and conferences, as a mix of online-only and physical/hybrid
- Strengthen and coordinate communications for Academia Europaea and its hubs
- Develop our strategy for 2024-onwards, including renewal of the Cooperation Agreement between Academia Europaea and Cardiff University

# HIGHLIGHTS IN 2023

■ The Cardiff Hub continued to play an effective role in two externally-funded projects, SAPEA and CALIPER. In SAPEA, we have delivered systematic literature reviews to the European Scientific Advice Mechanism and the European Group on Ethics, as well as coordination of a new evidence review on *Solar radiation modification*. The Cardiff Hub has also led work on a new SAPEA Strategic Development Plan.

The CALIPER project, focusing on gender equality, came to a close at the end of the year, with Cardiff having led on external communications, overseeing the launch of an engaging series of role model videos showcasing women in STEM.



■ In July, the Cardiff Hub organised a successful landmark event for Academia Europaea. Members of Academia Europaea (MAEs) and other invited guests gathered at Wolfson College Cambridge to mark the 30th anniversary of *European Review*, the journal of Academia Europaea. The event was held in collaboration with Cambridge University Press.



■ In November, the AE Cardiff Hub, together with Connects UK, hosted a successful event aimed at strengthening EU-UK research collaboration. This networking event, held in Cardiff University's Council Chamber, brought together researchers and leading organisations to find ways to nurture the research relationship between the EU and the UK, following the UK's association to Horizon Europe and Copernicus.



## STRATEGIC PRIORITY 1:

Continue to play a major role in providing science advice for policymaking

We will continue to play a full role in delivering high-quality evidence reviews for policymaking in the SAPEA project and explore other opportunities for providing science advice.

### SAPEA project

In February, the European Commission made a formal request to SAPEA for a literature review on *Democracy in a digital age*, on behalf of the European Group on Ethics (EGE). The review was undertaken at Cardiff and the EGE's Opinion was published in June.

In July, the European Commission issued a request for policy advice on the topic of *Solar radiation modification*. This work is being led by the Cardiff Hub and the report will be published in Autumn 2024.

The Cardiff Knowledge Hub provided significant input to the evidence base for the SAPEA Evidence Review Report, *Towards sustainable food consumption*, published in June. Working with Cardiff University's European Information Hub and Specialist Unit for Review Evidence (SURE), the Cardiff Hub carried out a series of literature reviews on different aspects of the topic, along with a mapping of the policy landscape in Europe.

The Cardiff Hub supported SAPEA's outreach for its report on *Strategic crisis management in the EU*. In January, we hosted a webinar *Putting people first: how do we care for each other, build resilience and solidarity in a world in crisis?* Chaired by Professor Ole Petersen, a panel of experts discussed key dimensions of crisis management, particularly the roles that values and ethics play. This was a joint event between the European Group on Ethics, SAPEA and Academia Europaea. A second webinar, *Be prepared: Can we forecast the next crisis and be ready to manage it?*, was held in April. A panel of experts discussed the main factors involved in anticipating and preparing for future crises.

The Cardiff Hub has led work on a new *Strategic Development Plan* for SAPEA, which is due to be published in 2024. The Plan is based on an internal review of the current Plan, alongside a stakeholder consultation that has involved a mix of survey work and interviews, with a total of 91 stakeholders from 5 different stakeholder groups.

Hub Director Professor Petersen continued as an active member of the SAPEA Working Group, advising on the revision of the SAPEA *Quality assurance guidelines and procedures on science advice for policy and society*, a new edition of which was published in September.



## STRATEGIC PRIORITY 2:

Promote excellence through showcasing outstanding research and engaging with our members

We will showcase outstanding research, particularly by Academia Europaea Members, as well as work led by us in projects, for example, SAPEA. We will engage in public debate on topical issues in research, for example, open access, interdisciplinary approaches, research impact, international collaboration, translational research etc.



Alban Kellerbauer MAE

### Interview series with MAEs

As part of our popular Interview Series, we interviewed *European Review* Editor-in-Chief Alban Kellerbauer MAE, shining a spotlight on the journal's 30th anniversary celebrations.



Istvan Hargittai MAE

We also interviewed Istvan Hargittai MAE, who discussed his motivation for writing his latest book *Brilliance in exile*, which explores the lives of Hungarian émigré scientists who have made significant contributions to science after leaving their country of birth.

### Standing with Ukraine

AE Cardiff continues to stand wholeheartedly with Ukraine, since the February 2022 invasion. In January, we published *A letter from Ukraine: an insight into life during war*. In this personal 'New Year letter', Dr Oleksiy Gryshchenko MAE writes about his daily life in Kyiv.



## Leadership in communications

Following a request from Academia Europaea, the Cardiff Hub led on communications to the AE membership. We assumed responsibility for AE's quarterly newsletter, which we redesigned, along with a monthly bulletin. The Hub was again asked to lead on communications work for the AE Annual Conference, held in Munich in early October. We published in-depth interviews with medal winners including:

- Jean Pierre Changeux, winner of Academia Europaea's Erasmus medal
- Michael Udvardi, recipient of the Adam Kondorosi Academia Europaea Award for Advanced Research 2023
- Eugene Yeo, inaugural recipient of the Academia Europaea Sydney Brenner Medal.

We also interviewed speakers at the Conference including:

- Donald Dingwell, Vice-President of Academia Europaea and Conference host
- Johanna Ivaska, Professor of Molecular Cell Biology at the University of Turku in Finland
- Katalin Solymosi, newly-elected Chair of the Young Academy of Europe.

To further support the conference, we ran a successful social media campaign from Academia Europaea's main Twitter/X account, boosting impressions and increasing engagement significantly.



## Briefing Series

Under our Briefing Series, we published five papers on:

- Strategic crisis management
- Building resilience and solidarity
- Inclusive research and innovation ecosystems in Europe
- Climate change
- Succeeding in a STEM career

Each paper in the series summarises key points of discussion at our webinars, with the aim of providing a useful resource on the topic.



## Impact

The number of visits to our website has increased by **26%** this year.

Twitter/X continues to help us reach new audiences and raise awareness of our work. Our number of followers has again increased this year, by **10%**.



Summary of online marketing impact, comparison between 2022 and 2023. Data from 1st January – 31st December 2023

	Indicator	2022	2023	Performance improvement compared to same period 2022
Website	Number of visits to the Hub website	14,109	17,843	↑ 26.5%
Twitter	Number of Twitter followers	752	833	↑ 10.7%

## STRATEGIC PRIORITY 3:

### Build connections with the wider group of stakeholders

We will reach out to and engage with a wider group of Hub stakeholders, including higher education and research institutions, political bodies, academies and the general public.

#### Engagement through events

Our webinars continued to attract an international audience. This year, we have returned to holding major physical events.

In March, we held a two-day international symposium, *Physiology & pathophysiology 2023 symposium*, which brought together around 100 scientists from across the world. The symposium was jointly organised by the American Physiological Society (APS), the German National Academy of Sciences Leopoldina (Leopoldina) and the Cardiff Hub. Later in the year, the American Physiological Society journal, *FUNCTION*, released a special *Physiology & pathophysiology 2023 symposium* virtual issue, highlighting articles arising from the symposium.



Again in March, we contributed to a very special international symposium, *Celebrating life in calcium signalling, physiology and pathology* to mark the 80th birthday of AE Cardiff Hub Director, Professor Ole Petersen.



In July, Members of Academia Europaea and other invited guests gathered at Wolfson College Cambridge to mark the 30th anniversary of *European Review*, the journal of Academia Europaea. The event also celebrated 35 years since Academia Europaea was founded, with its initial meeting held in Cambridge in 1988.



In September, AE Cardiff Hub organised a workshop on behalf of Academia Europaea's Task Force for Environment, Sustainability, and Climate (TFESC) at Wolfson College, University of Cambridge. The purpose of the workshop was to determine Academia Europaea's capacity to take an active role in addressing pressing climate and environmental challenges.



In November, Academia Europaea Cardiff, together with Connects UK, hosted a successful event aimed at strengthening EU-UK research collaboration. This networking event, held in Cardiff University's Council Chamber, brought together researchers and leading organisations to find ways to nurture the research relationship between the EU and the UK.



At the very end of the year, Hub Director Ole Petersen officially represented AE at a special event at the 2023 Semmelweis Symposium in Budapest, where a co-operation agreement between AE, Semmelweis University and the Chinese University of Hong Kong was signed. The symposium and the following event in Szeged were also a joint celebration of the 10th Anniversary of the Nobel Prize Award to Thomas Südhof and Randy Schekmann, as well as Ole Petersen's 80th birthday.

## CALIPER project: Gender equality in research and innovation

As part of the CALIPER project, we conducted a series of interviews with inspirational women who work in STEM research and innovation, exploring what motivated them to choose their career, their experiences and the barriers they faced. To further support the CALIPER project, we created an interview series with Members of Academia Europaea discussing Equality, Diversity and Inclusion (EDI), their experiences and the importance of the CALIPER project in addressing the gender balance in STEM fields. They included Dame Athene Donald MAE, Magdolna Hargittai MAE, Susan Wray MAE, Jeremy Sanders MAE and Ann-Christine Davis MAE.

In October, we hosted a webinar where a panel of inspirational women shared their experiences and advice on addressing the opportunities and challenges of a STEM career. Chaired by Dr Gemma Modinos, past Chair of the Young Academy of Europe (YAE), the webinar was co-organised by the AE Cardiff Hub and CALIPER. Speaking alongside our keynote, Professor Simonetta Manfredi (Oxford Brookes University, UK), were two role models, Professor Karine Van Doninck (Université libre de Bruxelles, Belgium) and Dr Virginia Petre (University Politehnica of Bucharest, Romania).

In November, the Cardiff Hub contributed to the final CALIPER conference, which took place in Belgium. A video created by Cardiff, *Be inspired! Women from academia tell their stories*, was presented by Moniek Tromp, Chair of the Young Academy of Europe (YAE), and featured interview clips with accomplished women in STEM, shedding light on their experiences and insights.



Dame Athene Donald MAE



Magdolna Hargittai MAE



Jeremy Sanders MAE



Susan Wray MAE



Ann-Christine Davis MAE



## STRATEGIC PRIORITY 4:

Ensure future sustainability

We aim to achieve ongoing sustainability of the Cardiff Knowledge Hub.



### Funding for the SAPEA project

The current SAPEA project runs from 1st May 2022 to 31st December 2024, with the possibility of extension into 2025. The funding for the Cardiff Hub's work for SAPEA in this period is provided by a grant from the UK Government's UKRI through Innovate UK and has allowed us to continue to deliver Academia Europaea's contributions to SAPEA, leading evidence reviews on behalf of the consortium, as well as leading the work package on strategic development. Academia Europaea and Cardiff University formally agreed to extend their Collaboration Agreement, which is now valid until 30th June 2025.



### CALIPER

The Cardiff Hub has been part of a consortium working on the Horizon 2020-funded project, CALIPER. This project supports nine research organisations, predominantly in Southern and Eastern Europe, to establish Gender Equality Plans. The Cardiff Hub has collaborated closely with the Young Academy of Europe (YAE) in leading on international communications and encouraging wider engagement with the project. The project came to a close in December 2023.

## Staffing



**Academic Director**  
**Professor Ole Petersen**  
CBE FLSW FMedSci FRS MAE



**Knowledge Hub Manager**  
**Louise Edwards**



**Executive Officer**  
**Juliet Davies**



**Communications Officer**  
**Alice Sadler**



**Executive Officer – Science for Policy**  
**Dr Rafael Carrascosa Marzo**

## Finance

Under the Cooperation Agreement between Academia Europaea and Cardiff University, the University meets defined salary and non-staff costs. Additional income has been derived from the Cardiff Hub's two externally-funded projects, SAPEA and CALIPER.

## Acknowledgements

The Cardiff Hub would like to thank colleagues of all organisations that have given us their support in 2023, in particular:

Academia Europaea, in particular Members who have supported and engaged with the Hub, our colleagues across Europe and the AE Task Force for Environment, Sustainability and Climate (TFESC)

Academia Europaea Cardiff Hub Steering Group

APS (American Physiological Society) and *FUNCTION*

Cardiff University, in particular the European Information Hub and Specialist Unit for Review Evidence (SURE)

CALIPER

Connects UK

European Group on Ethics (EGE)

European Group of Chief Scientific Advisors

*European Review*

German National Academy of Sciences Leopoldina

Learned Society of Wales (LSW)

Newington Design

Science Advice for Policy by European Academies (SAPEA)

Welsh Centre for Public Policy (WCPP)

Welsh Higher Education Brussels (WHEB)

Wolfson College, University of Cambridge

Universities Policy Engagement Network (UPEN)

UK Research and Innovation (UKRI)

Young Academy of Europe (YAE)



## About Academia Europaea

Founded in 1988, Academia Europaea has more than 5000 leading scientists and scholars as members, including over 80 Nobel laureates. AE operates through a network of knowledge hubs in Barcelona, Bergen, Budapest, Cardiff, Munich, Tbilisi and Wrocław.

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# ACADEMIA EUROPAEA

## WROCLAW KNOWLEDGE HUB



## Annual Report 2023



# INTRODUCTION

It is our pleasure to present the Annual Report of Academia Europaea Wrocław Knowledge Hub, a comprehensive chronological overview of activities carried out by our hub, achievements, and impact over the past year. This report underscores the dedication and collaboration of our members, partners, and staff in advancing the mission and objectives of Academia Europaea.

Throughout the report, you'll find highlights of our initiatives, projects, and events aimed at fostering excellence in scholarship, promoting interdisciplinary dialogue, and advocating for the advancement of knowledge across Europe and beyond.

This proved to be a noteworthy year as, despite pandemic delays, we successfully commemorated the 10th anniversary of the hub, reflecting on past achievements and setting new goals, with esteemed intellectuals such as Nobel laureate Prof. Erwin Neher in attendance.

In response to the challenges of our era, including public health emergencies, climate change, and geopolitical tensions, Academia Europaea plays a vital role in fostering collaboration and knowledge exchange to address pressing issues. One notable initiative from 2023 was continuing our support for a project providing scholarships to young scholars fleeing war-torn regions of Ukraine, demonstrating our commitment to advancing science and development amid chaos.

In pursuit of the same goal, our Hub has initiated the "Anthropocene" conference, enriching intellectual responses to challenges arising from an increasingly unstable reality.

The year concluded with the conferral of an honorary doctorate by the Wrocław University of Science and Technology to Academia Europaea President Prof. Maria Makarov, recognizing her outstanding scientific achievements and close ties to Poland and Wrocław.

As we reflect on the past year's accomplishments, we also look forward to the opportunities and challenges that lie ahead. We are confident that Academia Europaea Wrocław Knowledge Hub will remain a beacon of academic excellence and a catalyst for positive change and extend our gratitude to all who have contributed to our success. The following report delves into our shared journey towards a brighter future in scholarship and innovation





# The publication of scientific works

01 April 2023

HORYZONTY POLITYKI  
HORIZONS OF POLITICS



Instytut  
Europy Środkowej  
Institute of Central Europe



## Continuation of the Project from 2022 "Towards development of mediatization research VI: Mediatization of War"

The release of thematic issues in 2 journals: "Horizons of Politics" (Horyzonty Polityki) and "Yearbook of the Institute of East-Central Europe" (Rocznik Instytutu Europy Środkowo-Wschodniej) was a continuation of the discussions initiated during the seminar "Towards development of mediatization research VI: Mediatization of War," co-organized in 2022 in collaboration with the Academia Europaea Wrocław Knowledge Hub Office, operating within the structures of Wrocław University of Science and Technology.

### Publishers:

- "Horizons of Politics/Horyzonty Polityki" published by the Ignatianum Academy in Krakow under the working title: "Mediation and mediatization of the contemporary warfare", the thematic issue editors: Katarzyna Kopecka-Piech, Anna Jupowicz-Ginalska, Dorota Dyksik (accessible via the website: <https://horyzontypolityki.ignatianum.edu.pl/>).
- "Yearbook of the Institute of East-Central Europe" (Rocznik Instytutu Europy Środkowo-Wschodniej) under the working title: "(Dis)information in contemporary armed conflicts", published by the Institute of East-Central Europe; the editors: Katarzyna Kopecka-Piech, Anna Jupowicz-Ginalska, Dorota Dyksik " (accessible via the website: <https://ies.lublin.pl/rocznik/>)



# Academia Europaea Wroclaw Knowledge Hub Jubilee Event

19 May 2023



**In May 2023, Academia Europaea Wroclaw Knowledge Hub celebrated the anniversary of its presence in Poland.**

The regional branch of Academia Europaea was established in Wroclaw in 2011. Over the years, it has been actively involved in organizing academic meetings and events, as well as applying resources of the Academia Europaea Association to support the local scientific milieu.

The jubilee celebration of the Academia Europaea Wroclaw Hub held special significance, serving as an exceptional platform to champion Academia's mission and objectives: fostering open-mindedness, groundbreaking research, and scientific excellence. The event attracted distinguished scholars from across Europe.



The meeting's agenda featured a session summarizing over a decade of the Academia Europaea Wrocław Knowledge Hub, scientific lectures, and a panel discussion involving young researchers.

## Keynote Speakers:

- Professor Erwin Neher, the Nobel Laureate in Physiology and Medicine, giving a lecture on „Ion Channels: Their Discovery, their Function and their Role in Biomedicine and Pharmacology“;
- Prof. Dr. Ir. David F. Rivas, distinguished member of the Young Academy of Europe, giving a lecture on „An Empathic Engineering Journey and The Future Under Our Skin“

## Ion Channels: Their Discovery, their Function and their Role in Biomedicine and Pharmacology

### Short abstract

"The concept of bioelectricity emerged in the late 18th century, based on the experiments of Italian scientists Luigi Galvani and Alessandro Volta. 60 years ago British Physiologists Alan Hodgkin & Andrew Huxley showed that the nerve impulse is a result of permeability changes of the nerve membrane. This provoked the question of what the molecular mechanisms of such permeability changes might be. In 1976 Bert Sakmann and myself were able to show that so-called ion channels – proteins, which gate ion fluxes across membranes – mediate these responses.



The research over the last 40 years has shown that ion channels are not only present in electrically excitable cells, such as in nerve and muscle, but also in basically all cell types of our body, mediating a variety of physiological functions. We now know that they are prime drug targets, and that dysfunction of ion channels underlies a variety of diseases" .

Professor Erwin Neher





## „An Empathic Engineering Journey and The Future Under Our Skin”.

### Short abstract:

"How can chemistry, process intensification, applied physics and engineering contribute to a topic like reducing pain? Needle-based injections improve living conditions and the health of millions of people and animals. One timely example is the injection of vaccines. Needles have been praised for centuries, but also feared, and in the last decades there is renewed interest in getting rid of them.

I want to share salient moments on my ongoing quest in developing ways to inject without needles, using lasers and microfluidics. In the BuBble Gun project (<https://bubble-gun.eu>), we want to change the lives of people who fear them, and open new therapeutic opportunities to treat diseases. Moreover, reducing the use of needles and the plastic packaging they require can reduce accidental finger-pricking and contamination caused by traditional healthcare procedures.





Moreover, I am excited to present a novel approach that helps to increase empathy in people having different points of view, and to understand or predict the perspectives of stakeholders 1,2. I will also share the latest progress in The Future Under Our Skin (FUOS) , an international stakeholder forum bundling scientists, dermatologists, tattoo artists, philosophers, other experts, and patients. We share a vision of quality-of-life improvements with skin as a technological platform, and I look forward to recruiting more collaborators."

Dr. Ir. David F. Rivas

## Participants:

The event's significance was underscored by the presence of Professor Marja Makarow, President of Academia Europaea, along with chairs of Academic Sections and numerous distinguished academic figures. Among them were Polish Members of MAE, the Advisory Board of Wrocław Knowledge Hub, the Young Academy of Europe, Academia Iuvenum (Wrocław Tech), and the Academy of Young Scholars and Artists (Wrocław)

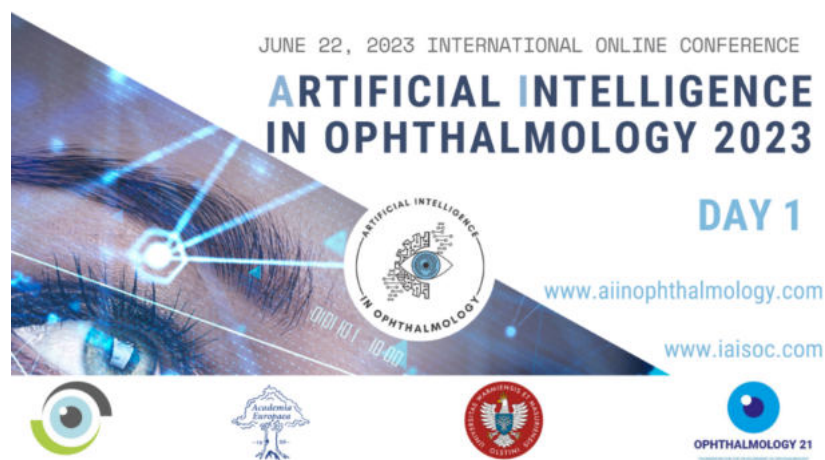
The event was streamed online, and the video recording can be accessed through the Hub's YouTube channel:

[https://www.youtube.com/watch?v=mGSUq\\_vQHfE](https://www.youtube.com/watch?v=mGSUq_vQHfE)



# AI in Ophthalmology 2023

June 22, 2023



Conference venue: University of Science and Technology, H-14 building, Wrocław, Poland

On the 22nd of June, a distinguished scientific conference was orchestrated by the Foundation for the Development of Ophthalmology "Okulistyka 21," in close collaboration with the Department of Ophthalmology at the University of Warmia and Mazury, the International AI in Ophthalmology Society, and Academia Europaea.

Professor Grzybowski, a distinguished member of Academia Europaea and Chair of Ophthalmology at the University of Warmia and Mazury, Olsztyn, Poland, as well as Head of the Institute for Research in Ophthalmology, Poznan, Poland, played a pivotal role as one of the chief organizers of this esteemed event. His efforts were supported by a grant from The Hubert Curien Initiatives Fund.

The Hubert Curien Initiatives Fund is a grant program designed to support projects and activities that benefit the academic community. It aims to foster new initiatives



**ACADEMIA EUROPAEA**  
**HUBERT CURIEN FUND**



that contribute to the advancement of scholarship and knowledge.

More information about Hubert Curien Initiatives Fund can be found here:  
[https://www.ae-info.org/ae/Acad\\_Main/Activities/Curien\\_Fund](https://www.ae-info.org/ae/Acad_Main/Activities/Curien_Fund)



During the conference, speakers from around the world presented the latest scientific achievements in the use of innovative artificial intelligence solutions in the diagnosis and treatment of eye diseases.

## Programme:

The program offered a comprehensive array of topics intricately linked with AI in Ophthalmology, encompassing a diverse range of subjects, including but not limited to:

- Artificial Intelligence transforming medical care
- AI in retinal disorders
- Predicting Children’s Myopia Risk: A Monte Carlo Approach to Evaluating the
- Trustworthiness of Machine Learning Models AI of the eye images to detect non-eye disorders
- AI in Ophthalmology: From algorithm to solutions and products
- Deceptive tricks in artificial intelligence: adversarial attacks in ophthalmology
- Can artificial intelligence assess the extent of optic nerve damage from MRI images?
- Applications of AI in retinopathy of prematurity
- AI models to learn from visual fields to detect different stages of glaucoma and progression of glaucoma objectively.

The complete programme can be found at the following location:

<https://iaisoc.com/aiino-2023/>

## Speakers:

Prof. Michael Goldbaum, Prof. Pearse Keane. Dr. Wiktor Stopyra, Dr. Louis Arnould Prof. Xiulan Zhang, Prof. Kerry Goetz, Prof. Michelle Hribar, Prof. Kang Zhang, Prof. Jin Wook Jeoung, Prof. T. Y. Alvin Liu, Prof. Paweł Strumiłło, Dr. Sheila John Dr. Kai Jin, Prof. Haoyu Chen, Prof. Leopold Schmetterer.



# Grants for refugees from Ukraine

September 2023



## Scholarly Assistance Initiative: Grants for Ukrainian Refugee Scientists, Scholars, and Doctors fleeing the war in Ukraine

In a continuation of its commitment from the previous year, Academia Europaea reaffirmed its solidarity with Ukrainian members of the academic community who have been compelled to seek refuge from the conflict, endeavoring to establish new professional and residential footholds across various regions of Europe. As a gesture of unity, the Academy donated the 2022 Hubert Curien Initiatives Fund resources to support Ukrainians. The Wroclaw Knowledge Hub, invited applications for financial support intended for purchasing equipment essential to continue scientific work in the new circumstances.



**ACADEMIA EUROPAEA**  
**HUBERT CURIEN FUND**

The special committee provides annual seed funding to support initiatives led by AE Sections. With the ravaging war in Ukraine and the situation of the refugees in mind, the Academia Europaea Board of Trustees decided to donate 30,000.00 EUR to support the academics who settled in the neighbouring countries. Three regional





hubs of Academia Europaea: Wrocław, Tbilisi, and Budapest shared the expenses to support Ukrainians in need.

In the previous year, twelve grants were donated to the refugees who were forced to abandon their workplaces, scientific careers, projects, and research projects. The donation offered was a limited, one-time financial support of 3,000.00 PLN per person towards purchasing work tools (laptops, programs, etc).

The financial operator of the whole process  
Was the foundation *Fundacja MANUS*  
– the partner of the Wrocław Hub.

F u n d a c j a  
**manus**

# First annual meeting of Academy Communications Professionals

17-18 October 2023

**Venue:** Polish Academy of Sciences in Warsaw.

Academia Europaea: SAPEA and ALLEA jointly organised a first annual 2-day workshop aimed at anyone working on communications for a scientific academy, young academy or learned society from across Europe.



## Aims:

- Facilitating discussions on the challenges, experiences, and best practices associated with effectively communicating the activities of academic







The aim of the conference was to bring together diverse scholars in order to facilitate multidisciplinary reflection on the Anthropocene. Keynote speakers represented disciplines as diverse as Paleobiology, Philosophy, Geography and Cultural Studies. The main conference themes oscillated around such themes as literary representations of the human-non-human relationships, the role of arts in navigating the challenges of the Anthropocene, education in times of the planetary crisis, as well as new ontologies and models of politics in the Anthropocene, and many others.



The most important area of scientific reflection in the submitted papers was the challenge posed to science by the new geological era. the mining industry and its impact on the ecology of countries, including water levels; green energy and (geo)political difficulties in introducing it in various contexts; reports on the work of scientific teams, including the AE Anthropocene Task Force; geological evidence for the Anthropocene; education and ecology, philosophy and ecocritical thought.



Anthropocene and ethical challenges for politics, culture and science were just some of the topics presented at the conference. One of the conference plenary speakers, Prof. Dipesh Chakrabarty from the University of Chicago, has been for several decades the key voice on the issue of climate change in the global humanities. As one of the main representatives of postcolonial studies within the discipline of history, Prof. Chakrabarty has been engaged in the debate on the implications of climate change for our understanding of history, global politics and the role of humanities today. Prof. Chakrabarty's keynote lecture was followed by a short book launch, as his book had just come out in Poland.

The project sought to uncover opportunities for mutual inspiration and forge new connections between the systems, methodologies, and disciplines governing science and knowledge. By bringing together scholars from many scientific areas, the seminars aimed at exploring the possibility of inter- and multidisciplinary scholarly work on developing accountable knowledge that needs to be subsequently translated into social and cultural narratives.



They aimed to educate society while cultivating a broader civic responsibility and heightened awareness of our planetary interconnectedness. Those lectures meticulously examined the nascent opportunities within the established framework of humanity's custodianship of the Earth.

Amongst conference members, three of them were conference participants or organizers (Prof. Tomasz Dobrogoszcz, Prof. Ewa Domańska, Prof. Dorota Kołodziejczyk). All plenary speakers presented their innovative and globally recognized research. It is important to mention that the conference hosted two scholars taking part in the stratigraphy commission on the Anthropocene: Prof. Mark Williams from Leicester University and prof. Jan Zalasiewicz of Leicester University (who joined the conference online) gave a summing-up commentary.

The event was video-recorded and streamed via the Hub's YouTube channel. The video is available here:

<https://www.youtube.com/@academia-europaea-wroclaw/streams>

The lectures were given by most famous academic authorities, like: Professor Dipesh Chakrabarty - University of Chicago; Professor Orit Halpern - Technische Universität Dresden; Professor Sean Hand MAE - University of Warwick; Professor Jeremy David Bendik-Keymer - Case Western Reserve University, Professor Peter Kraftl - University of Birmingham; Professor Valerio Lucarini MAE - University of Reading; Professor Mark Williams - University of Leicester; Professor em. Jan Zalasiewicz - University of Leicester.





The conference was a huge attendance success. The number of participants amounted to 94, and only due to the time and venue limitations. The Organizing Committee had to reject many excellent proposals. Over a half of participants came from abroad. The event also attracted the local public.

Below you will find the statistics splitted into categories.

1. 53 women and 41 men (total: 94),
2. 42 participants from Poland,
3. 52 participants from abroad:

Australia: 1 Participant Austria: 1 Participant Belgium: 2 Participants Bulgaria: 1 Participant Chile: 1 Participant Czech Republic: 6 Participants Finland: 3 Participants	Germany : 6 Participants Hungary: 2 Participants India: 1 participants Italy: 4 participants Lithuania: 1 participant Netherlands: 2 participants Norway: 2 participants	Portugal: 1 participant Romania: 1 participant Scotland: 1 participant Slovakia: 2 participants Sweden: 2 participants UK: 7 participants USA: 5 participants
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## Main topics:

- The geopolitics of modernization: capitalist (Capitalocene) and socialist (communist) models; extractivism and coloniality
- Cartographies of Anthropocene-generated displacements
- Anthropocene(s) in critical thought, arts and cultural narratives: apocalyptic narratives; ecomodernism and narratives of hope; the role of art in imagining better futures; the Anthropocene art
- Social temporalities (political, cultural, etc.) and planetary (geological) temporalities



- Programs promoting climate care: forms of intervention, the appealing value, viability of plans, translationality/transferability of premises,
- Local struggles and resilience: decarbonization, transition to renewable energy, grassroots and cross-border practices of sustainability and restoration
- Anthropocene pedagogies: how and what to teach about the Anthropocene to various social and age groups?
- Affective Anthropocene: anxiety, grief, mourning, denial, hope,
- Indigenous knowledges as models for sustainability and environmental justice struggles,
- Planetarity of ecological imagination and thought vs. globalism of consumer markets,
- New ontologies: ecological catastrophe as an example of “hyperobjects”; materials and their processes; interdependencies of life and non-life; non-human (more-than-human) agencies and the possibilities of new relationality for the human, the non-human and more-than-human.



## Detailed Programme:

[https://acadeuro.wroclaw.pl/wp-content/uploads/2023/10/Program-ANTHROPOCENE-10\\_18\\_2023.pdf](https://acadeuro.wroclaw.pl/wp-content/uploads/2023/10/Program-ANTHROPOCENE-10_18_2023.pdf)

The event was hosted at the premises of the Wrocław University of Science and Technology, thanks to the generosity of the Academia Europaea Wrocław Knowledge Hub Academic Director, Prof. Arkadiusz Wójs (MAE), the Rector of WUST. The event consisted of plenary sessions and parallel sessions, taking place simultaneously in three conference rooms.



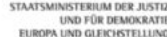


## Organizers:

1. Olga Tokarczuk Ex-Centre. Academic Research Centre affiliated at the University of Wrocław and chaired by the conference initiator and academic coordinator, dr. habil. Dorota Kołodziejczyk (MAE), and her Organizing Committee team: prof. Justyna Deszcz, dr. Urszula Lisowska, prof. Helena Duffy, prof. Katarzyna Majbroda, prof. Katarzyna Nowak-McNeice, dr. Małgorzata Kolankowska, and two PhD candidates: Ewelina Adamik and Anna Maciejewska
2. Academia Europaea Wrocław Knowledge Hub, especially hub manager, Katarzyna Majkowska as the budget designer, project coordinator and member of the Organizing Committee
3. The international Organizing Committee members: Prof. Lars Walløe, University of Oslo (MAE), Prof. Göran Bolin, Södertörn University (MAE), Prof. Ewa Domańska, University of Adam Mickiewicz and University of Stanford, Prof. Mark Jackson, University of Bristol, prof. Mirja Lecke, University of Regensburg.

## The conference was supported financially by:

- Academia Europaea Hubert Curien Initiatives Fund,
- The Saxon State Ministry of Justice and for Democracy, European Affairs and Gender Equality,
- The Wrocław University Research Fund,
- Erasmus Mundus programme at the University of Wrocław coordinated by prof. Justyna Deszcz,
- Wrocław University of Science and Technology, where the AE Hub is based.



# Honorary doctorate for professor Marja Makarow

15 November 2023

Meeting venue: University of Science and Technology, H-14 building, Wrocław, Poland

On November 15th, Wrocław University of Science and Technology had the privilege of awarding an honorary doctorate to the esteemed Finnish biochemist and molecular biologist from the University of Helsinki, who also holds the prestigious position of President of Academia Europaea. The ceremony took place in the distinguished surroundings of the auditorium at Wrocław University.

Professor Marja Makarow was awarded the honorary title of doctor honoris causa in recognition of her remarkable contributions to scientific policy and research organization. Her accomplishments include formulating and implementing scientific strategies, managing renowned scientific institutions, and promoting innovation and high-quality research. Additionally, her dedication to Wrocław University of Science and Technology was also acknowledged.



The honorary doctorate was promoted by Professor Katarzyna Chojnacka from the Faculty of Chemistry. The Rector's plenipotentiary for European cooperation.

Prof Marja Makarow's career is an inspiration to many women in academia. She is not only a renowned scientist, but also a scientific activist of international significance. Expert recommendations confirm the enormous respect she enjoys in the scientific community and her undeniable contribution to the development of science worldwide," she said in her laudation. - However, Prof Makarow's recognition extends beyond academia, as evidenced by her numerous distinctions and awards, which confirm her unique role in the world of science and her constant pursuit of excellence, she added.





Prof. Katarzyna Chojnacka emphasized that the new doctor honoris causa of Wroclaw Tech is not only deeply involved in the development of science at the European level, but was also instrumental in bringing the Wrocław Hub *Academia Europaea* to our university.

Thanks to that decision, scientists from Poland, including those from Wroclaw University of Science and Technology, can more easily collaborate with leading researchers in Europe, which fosters the exchange of knowledge. Professor Makarow has also played an important role in the process of integrating the Wroclaw academic community into Europe. It was thanks to her commitment that Wroclaw University began efforts to join various networks, which opened the door to broad international cooperation,' stressed Prof. Katarzyna Chojnacka.



## Towards development of mediatization research VII

27 November 2023

### Mediatization of Sport, Physical Activity and Recreation

Continuing the research meetings focused on specific issues of mediatization research chaired by eminent experts :Göran Bolin (2017), Johan Fornäs (2018), Andreas Hepp (2019), Mark Deuze (2020) André Jansson (2021), Andrew Hoskins (2022)). Last year workshop was featured by Professor Kirsten Frandsen, Aarhus University.



The meeting took place online and adopted the format of a discussion panel and workshop, following a proven formula from previous editions.

## The workshop's focus was allocated towards the following topics:

- Mediatization of sport
- Mediatization of amateur / para-professional sport activity
- Mediatization and life-style sports
- Mediatization of sports journalism
- Mediatization and disability sports
- Everyday physical activity of regular digital media users
- The role of media in recreation and active leisure
- Gender, sport and mediatization
- Mediatization and processes of datafication in sports
- Mediatization and sports betting
- Institutional, constructivist and technological approaches in mediatization of sport
- Contemporary challenges in research on sport-media nexus (methodologically, theoretically, collaboratively)

## Partners:

Institute of Social Communication and Media Studies  
 Department of Mediatization of Maria Curie-Skłodowska University in Lublin  
 Wrocław Academic Centre  
 Academia Europaea Wrocław Knowledge Hub



**UMCS**  
 UNIWERSYTET MARIII CURIE-SKŁODOWSKIEJ



**WCA** Wrocław  
 Academic  
 Hub



# Christmas Meeting of Polish MAE

11 December 2023



Meeting venue: University of Science and Technology, H-14 building, Wrocław, Poland

On the 11<sup>th</sup> of December Academia Europaea Wrocław Knowledge Hub hosted a Christmas Meeting of the Academia Europaea Members from Poland.

The meeting was convened at the University of Science and Technology. The agenda encompassed the introduction of new Academia members from Poland: Prof. Jacek Blazewicz, Prof. Joanna Rymaszewska, Prof. Marek Sanak, and Prof. Anetta Undas, marking the second gathering of Academia Europaea's Polish members. The meeting also provided an excellent platform for fostering connections among participants, facilitating the exchange of ideas, and exploring potential future collaborations



# Professor Peter Gärdenfors' Lecture in Wroclaw University of Science and Technology

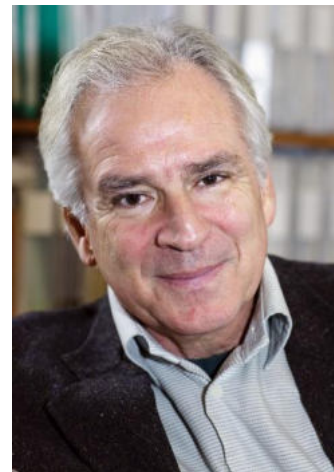
14 December 2023

## “How to Socialize with Robots”

Meeting venue: University of Science and Technology, A-1 building, Wroclaw, Poland

On December 14th in the auditorium of the Wroclaw University of Science and Technology Professor Gärdenfors, distinguished Academia Europaea member, delivered a lecture entitled "How to Socialize with Robots".

Prof. Peter Gärdenfors is an expert in the field of cognitive science and one of Sweden's foremost philosophers. He is affiliated with Lund University's Faculty of Philosophy, where he conducts research primarily focused on belief revision, decision theory, philosophy of science, conceptual spaces, and the evolution of language.



The professor is a member of various prestigious institutions, including the Royal Swedish Academy of Sciences, Deutsche Akademie für Naturforscher, and Academia Europaea. Until 2017, he served as a member of the Nobel Committee for the Prize in Economic Sciences. He is also the recipient of the Gad Rausing Prize.



## Publications:

- "Conceptual Spaces: The Geometry of Thought,"
- "The Dynamics of Thought,"
- "The Geometry of Meaning: Semantics Based on Conceptual Spaces,"
- Polish edition of "How Homo Became Sapiens: On the Evolution of Thought."

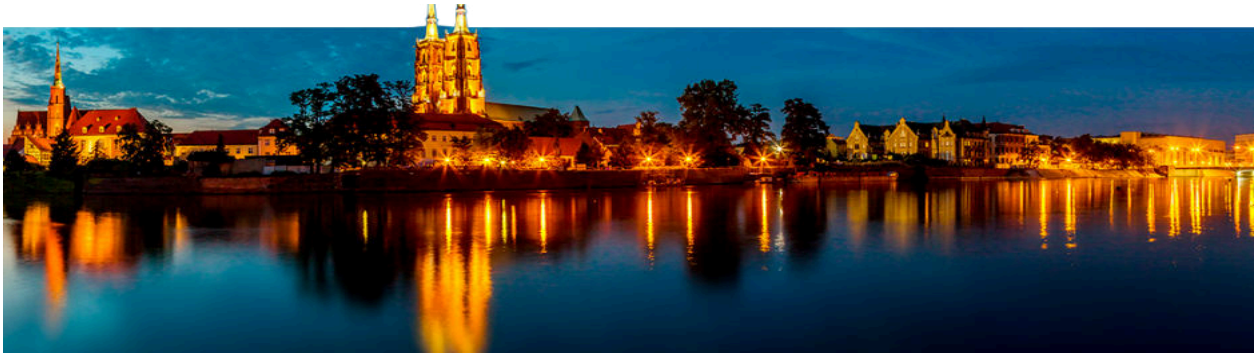
During his lecture at Wroclaw University of Science and Technology, Professor Gärdenfors delved into the intricacies of enabling robotic systems to comprehend not only human emotions and intentions but also the underlying cognitive processes that drive them. He was emphasizing that for robots to truly interact effectively with humans, mere task performance might be inadequate.

Professor Gärdenfors was reflecting on the importance of a deeper understanding of human emotions, intentions, beliefs, and desires, enabling robots to interpret and respond to human behavior in a more nuanced and empathetic manner. He underscored the importance of advancing artificial intelligence and robotics research towards this goal, highlighting the necessity of interdisciplinary collaboration between cognitive science, psychology, philosophy, and engineering to achieve a deeper understanding of human-robot interaction.

The lecture was open to all interested individuals free of charge, requiring registration. Additionally, it was translated into Polish for attendees' convenience.

## Academia Europaea Wroclaw Knowledge Hub

15 Na Grobli Street Building L-1 room 345  
Wroclaw , PL



2023

# ANNUAL REPORT



# Academia Europaea Tbilisi Knowledge Hub

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# Organization

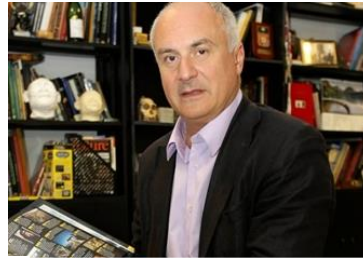
The *AE* Tbilisi Knowledge Hub is operating since 2019 and is hosted by Tbilisi State University. David Lordkipanidze, MAE, is the current Academic Director, appointed by the Rector of the Tbilisi State University. The Academic Director and the Advisory Board ensure the strategic direction and activities of the Hub.



**ALEXANDER TSISKARIDZE**



**BEZHAN TCHANKVETADZE**



**DAVID LORTKIPANIDZE**



**DAVID PRANGISHVILI**



**EVA KONDOROSI**



**GEORGE GEGELASHVILI**



**GEORGE SHARVASHIDZE**



**KATE TCHANTURIA**



**MERAB KOKAIA**



**MIKHEIL CHKHENKELI**



**SIERD CLOETHING**



**ZAAL KOKAIA**



**ZAZA SKHIRTLDADZE**





# Series of Panel Sessions

## From the First Democratic Republic of Georgia to the New Georgia

As part of a series of panel sessions, the second session titled **"From the First Democratic Republic of Georgia to the New Georgia"** took place on December 26, 2023, at the Tinatin Tsereteli Auditorium of Tbilisi State University.

The session featured lectures by distinguished speakers including Malkhaz Matsaberidze from Tbilisi State University, Shorena Murusidze from the National Center of Manuscripts, and Manana Darchashvili from the Technical University of Georgia.

During the panel, the speakers explored the establishment of a unified Georgian state, whose independence was formally recognized by leading European nations. The first democratic republic of Georgia, which existed from 1918 to 1921, provided a solid foundation and framework of political values for the modern Georgian state, particularly in its efforts to align with European standards of governance and statecraft.



# Series of Panel Sessions

## May 26 in the Context of the Politics of Memory

On the initiative and under the organization of AE Tbilisi Knowledge Hub, another panel session titled "**May 26 in the Context of the Politics of Memory**" was held at Tbilisi State University. This session, part of the panel series dedicated to Georgia's Independence Day, aimed to delve into the historical significance of this important date.

The first democratic republic of Georgia existed for less than three years (1918-1921) but left a lasting impact on our country's history. It was a democratic republic that, preceding many developed countries, conducted universal elections with the participation of citizens of both sexes. It adopted a constitution, established state institutions, developed legislation to protect national and religious minorities, promoted women's rights, and served as a notable example of governance under a multi-party system. Additionally, it fostered a culture of political thought and debate.

During the panel session, the speakers discussed various aspects, including the factors leading to the declaration of the First Republic, the formation of the Transcaucasian Democratic Federal Republic, and a comparative analysis of the First and Second Republics, highlighting their similarities and differences. The significance of May 26 as a symbol of Georgia's independence was also a focal point. The session also touched upon the complex issue of the "formation of the national government" and the celebration of Independence Day in Abkhazia.

The panel session was conducted in a hybrid format, allowing members of the Scientific Board of Tbilisi Hub and other interested individuals to participate via Zoom. The event drew a diverse audience, including professors, students, and young scholars.

It is noteworthy that the lectures generated significant interest and enthusiasm amongst secondary school students, providing them with a valuable opportunity to engage with the latest research and insights in the field.



# Series of Panel Sessions

## Noe Zhordania - the European Leader of the First Democratic Republic of Georgia

Within the series of panel sessions, entitled "*The First Democratic Republic of Georgia - The Way to Europe*", a two-day panel was held on December 9 and 10, 2023, in the municipalities of Batumi and Lanchkhuti. The event featured the participation of academic staff from Tbilisi State University and Batumi Shota Rustaveli State University. On December 9, hosted by Batumi State University, a panel discussion titled "**Soviet Legacy of Post-Soviet Georgia**" took place.

The speakers included:

Malkhaz Matsaberidze - Tbilisi State University

Irakli Chkhaidze - Tbilisi State University

Nino Chikovani - Tbilisi State University

Tamar Orjonikidze - Tbilisi State University

Irakli Manvelidze - Batumi University

Natalia Lazba - Batumi University

On the same day, Professor Malkhaz Matsaberidze presented his monograph titled "**Soviet Union: Rise and Fall of Communist Totalitarianism**", which was published with the support of the Shota Rustaveli National Science Foundation.

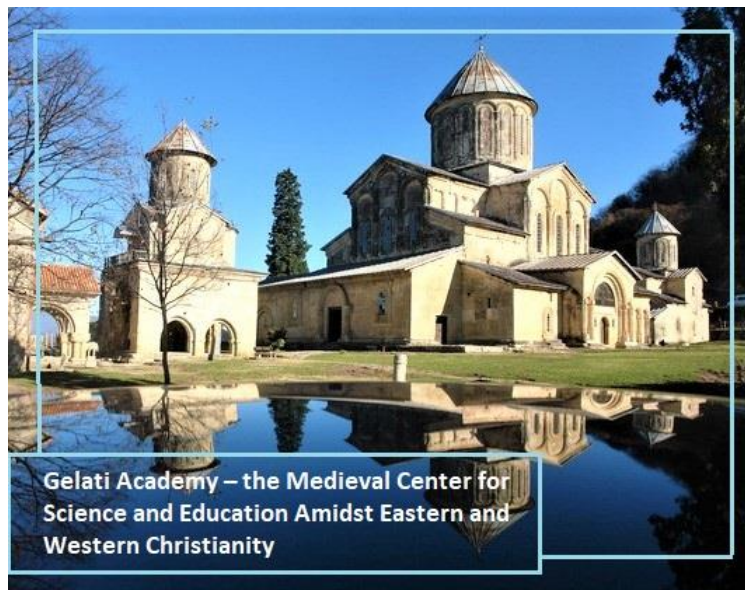
On December 10, another panel discussion titled "**Noe Zhordania - the European Leader of the First Democratic Republic of Georgia**" was held at the local history museum of Lanchkhuti municipality. The panel was chaired by Malkhaz Matsaberidze, professor of Tbilisi State University and doctor of political sciences. Through this event, the AE Tbilisi Knowledge Hub paid tribute to the memory of Noe Zhordania, a Georgian statesman, politician, publicist, and chairman of the government of the Democratic Republic of Georgia. University professors and young researchers participated in the panel discussion, and the museum received the latest literature on the mentioned topic as a gift.



# Scientific Conference and Workshops

## “Gelati Academy – the Medieval Center for Science and Education Amidst Eastern and Western Christianity”

*Academia Europaea* Tbilisi Knowledge Hub - in collaboration with *Iv. Javakhishvili Tbilisi State University (TSU)* and the *Center of the for Eastern Christian Studies of TSU* – has launched a large-scaled project “**Gelati Academy – the Medieval Center for Science and Education Amidst Eastern and Western Christianity**”, with the objective to introduce the Gelati Academy as one of the oldest and most important scientific and educational centers in the Christendom to the wider international community. The project was inaugurated at the special workshop organized by the Hub in 2020 in Telavi, the center of Kakheti region.



*Gelati Academy was founded in 1106 next to Gelati Monastery (West Georgia) on the initiative of the Georgian King David the Builder. Here David brought together the most prominent Georgian scholars of that time contributing to the establishment of the Gelati Academy as one of the most important theological-scientific and educational centers of the Christendom. At the end of the 11th c., after the closing of the Academy of Mangana (Constantinople, Byzantine Empire) and the Seljuk conquest of Jerusalem, according to the King David's historian, the Gelati Academy became “a second Jerusalem of all the East for the learning of all that is of value, for teaching of knowledge – a second Athens, far exceeding the first in divine law, a canon for all ecclesiastical splendors”. The curriculum of the Academy mainly included the subjects of trivium (geometry, arithmetic, music) and quadrium (three types of philosophy, three types of rhetoric, grammar and astronomy).*

# Scientific Competitions and Workshops

## “Gelati Academy – Its Epoch and Legacy”

Within the framework of the above mentioned project, AE Tbilisi Knowledge Hub held a hybrid conference of young scientists "Gelati Academy - Its Epoch and Legacy" on April 28, 2023 at Tbilisi State University. The purpose of the event was to support young researchers in researching various issues related to Gelati Academy. Young researchers from various educational and research institutions participated in the conference, such as Gelati Theological Academy and Seminary, National Center of Georgian Manuscripts named after Korneli Kekelidze and Scientific and Research Center for the Study of Ancient Georgian Manuscripts "Orion" named after Akaki Shanidze (TSU).

The event was attended by professors, students and invited guests.

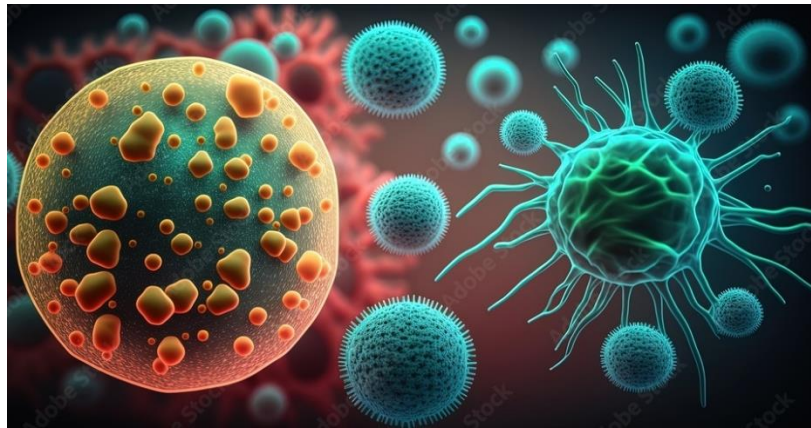


# A series of public lectures

## Microbial World and a Human

The Georgian Association for General and Applied Microbiology (GE-GAGAM), in collaboration with AE Tbilisi Knowledge Hub, organized a series of public lectures titled "**Microbial World and a Human**". The aim of the lectures was to spark and cultivate interest among 8th to 12th-grade schoolchildren in the field of microbiology and deepen their understanding of this subject. The project received funding from the Shota Rustaveli National Science Foundation and the American Society for Microbiology.

### Microbial World and a Human



The series of lectures was delivered by leading scientists in the field from various universities and scientific institutes, including:

- Acad. Davit Frangishvili, Honorary Professor at the Pasteur Institute of Paris and Guest Professor at TSU
- Acad. Davit Lortkipanidze, Ivane Javakhishvili Tbilisi State University
- Prof. Nino Gachechiladze, Ivane Javakhishvili Tbilisi State University
- Prof. Nina Chanishvili, New Vision University and the G. Eliava Bacteriophage Institute
- Prof. Sofo Rigvava, International University of the Caucasus and the G. Eliava Bacteriophage Institute

As part of the mentioned project, the first meeting with school students was held on April 23, 2023, at Akaki Tsereteli State University in Kutaisi.

# Presentation of a book followed by a public lecture

The presentation of Rusudan Gorgiladze's book "Taste of Dictatorship" took place at Tbilisi State University on May 16, organized by Tbilisi State University and the Tbilisi Regional Center of the European Academy.

The book delves into crucial aspects of the personal and public lives of three dictators—Stalin, Mussolini, and Hitler. It sheds light on the political instrumentalization of food in the Soviet Union, Fascist Italy, and Nazi Germany. Written in an accessible style, the book explores the unique features of each regime, including their distinct food ideologies and their roles in campaign strategies.

While the twenty-one-year history of Fascist Italy and the twelve-year history of Nazi Germany are framed by the rise to power and deaths of their creators, Benito Mussolini and Adolf Hitler, the narrative around the Soviet Union, spanning almost seventy years, extends beyond Stalin. As such, the Soviet section of the book covers both the pre-Stalin (and more precisely, the pre-Stalinist) era and the post-Stalin period, although the primary focus is on Stalin's rule.

Published in 2021, "Taste of Dictatorship" received the prestigious "Saba" literary prize.

ევროპის აკადემიის  
თბილისის რეგიონული ცენტრი

თბილისის სახელმწიფო  
უნივერსიტეტი

16 მაისი  
14:00

რუსუდან გორგილაძის  
წიგნის პრეზენტაცია და საჯარო ლექცია  
„დიქტატურის გემო“

მისამართი: ი. ჯავახიშვილის გამზ. #1

თსუ, I კორპუსი  
აუდიტორია #107

Tbilisi State University/Academia  
Europaea Tbilisi Knowledge Hub



# International Conference

## Viruses of Microbes - 2023

The series of biannual conferences on Viruses of Microbes, which was launched in Paris in 2010 and since then travelled all around Europe, reached Tbilisi in 2023.

The conference marked a new era in viral research which has begun with the recognition of viruses of microorganisms – viruses of bacteria, archaea, and microbial eukaryotes as predominant component of the biosphere and led to the identification of these viruses as major players in the global ecology, public health, microbial physiology, and evolution.

The international conference on microbial viruses, the most numerous and mysterious part of the viral world, focused on discussing the evolution and diversity of viruses that infect microorganisms. It also addressed their roles in the environment and the human body, along with other fundamental issues. Attention was paid to aspects using viruses of microorganisms, such as the creation of new nano-biotechnologies and the use of bacterial viruses (bacteriophages) in medical practice.

The Rector of Ivane Javakhishvili Tbilisi State University, Academician Jaba Samushia welcomed more than 500 scientists from 54 countries of all five continents, members of various scientific academies of America, Europe and Asia, who were participating in the international conference “Viruses of Microbes.” The conference lasted for 5 days at TSU.

One of the pioneers and recognized leaders in the use of bacteriophages in medical practice is the Tbilisi-based Giorgi Eliava Bacteriophage Institute, which celebrated its 100th anniversary this year. Georgian scientists occupy leading positions not only in research of bacterial viruses (bacteriophages), but also in research of another type of microorganisms - viruses of archaea. It is precisely for these reasons that the World Forum of Microbial Virologists was being held in Tbilisi, which, in turn, contributed to highlighting the importance of this field in the Georgian scientific space and its further development.

The conference was jointly held by Ivane Javakhishvili Tbilisi State University, the Georgian Association of Microbiologists and the Eliava Bacteriophage Institute. The organizers of the conference were Professor Nina Chanishvili and Honorary Professor David Prangishvili of the Pasteur Institute, on whose initiative a series of “Viruses of Microbes” conferences was launched at the Pasteur Institute in 2010. Previous conferences were held in Belgium, Switzerland, Poland, England and Portugal.

# Academia Europaea 34th Annual Conference Building Bridges 2023

The 34th Annual Conference of Academia Europaea (AE), entitled "Building Bridges- 2023," was hosted this year by the Academia Europaea Munich Knowledge Hub at Ludwig Maximilians University (LMU) from October 9-11, 2023. The event included the AE Hub's annual general meeting and the conference of Young Academy of Europe, which saw participation from representatives of the AE Tbilisi Knowledge Hub. The Tbilisi Knowledge Hub delegation attended the above mentioned event to present their Annual Report 2022-2023, summarizing the hub's accomplishments to date.



## AE Wroclaw Knowledge Hub Jubilee Meeting

As part of the AE Wroclaw Knowledge Hub anniversary celebration, which provided a unique opportunity to showcase the Pan-European Academy's mission and goals, particularly in advancing innovative research and scientific excellence, a workshop for the Academia Europaea hubs was conducted. The meeting aimed to facilitate the exchange of experiences and foster deeper cooperation amongst the hubs. Representatives from the Academia Europaea Knowledge Hubs and the Graz Information Center deliberated on key aspects of the hubs' activities, including past and upcoming events, strategies, approaches, and accomplishments.



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