

**ANNUAL TRUSTEE (activity) REPORT**  
without individual Knowledge Hub Reports

**FOR 2021**



'The Academy of Europe'  
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**Company limited by guarantee and registered at Companies  
House. Registration number 07028223  
Registered with the Charity Commission, registration number  
1133902**

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Reports of the activity of the AE Knowledge Hubs for 2021 are available. 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="http://barcelona.acadeuro.org/">http://barcelona.acadeuro.org/</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="http://acadeuro.wroclaw.pl/">http://acadeuro.wroclaw.pl/</a>

## SECTION 1: Governance

### THE TRUSTEES OF THE ACADEMIA EUROPAEA

#### Board of TRUSTEES (at 31 December 2021)

##### Officers

<b>President:</b>	Professor Sierd Cloetingh	Utrecht, (extended by member decision to end 2021)
<b>Vice President:</b>	Professor Genoveva Marti	Barcelona, (to end 2021)
<b>Hon. Treasurer:</b>	Dr Oskar Mencer	London, (appointed <i>pro tem</i> 2020)
<b>Co-opted Members:</b>	Professor Ole Petersen Professor Theo D'haen Professor Eva Kondorosi Professor Don Dingwell Professor Poul Holm Professor Alex Verkhatsky Professor Bjorn Wittrock Professor Eystein Jansen Professor Marja Makarov	Cardiff (till end 2022) Leuven, (till end 2021) Budapest, (till end 2023) Munich, (till end 2021) Dublin, (to end 2022) Manchester, (resigned 2021) Uppsala, (till end 2022) Bergen, (till end of 2023) Helsinki [President from 1 January 2022]
President elect (from Jan 2021)		

As a result of continuing COVID-19 restrictions in the UK and across Europe, many of the AE planned physical meetings were again cancelled or postponed. We were pleased therefore to be able in late October, to run the 2021 AGM (see below) and annual conference in Barcelona. This was on a hybrid model. An election for a replacement treasurer and VP (officio) was scheduled to take place in 2022.

The list of Section chairs, as at 31 December 2021, is at annex 2 of this report. The President Sierd Cloetingh, Prof. Theo D'haen (the Editor-in-Chief of the European Review) and Professor Don Dingwell (Chair of Class B – Exact Sciences) stepped down at the end of the year. Professor Dingwell continued as a co-opted trustee and as Academic Director of the Munich Hub.

Class chairs are members of the board of trustees. At the end of 2021 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 Don Dingwell (Trustee), VP ex o  
Class C – Life Sciences – Professor Alex Verkhatsky Board member VP ex o

From January 1<sup>st</sup> 2022, Professor Paolo Papale (Rome) will be co-opted as a trustee and will take up the role of Chair of Class B - Exact Sciences.

The composition of the Board of trustees and Section committees as at 31<sup>st</sup> December 2021 is at annex 2. 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' 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 to better reflect the new working structure.

During 2021 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.

##### 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.

### **Regional Knowledge Hubs (at the 31<sup>st</sup> December 2021)**

#### **Barcelona Hub (<http://barcelona.acadeuro.org/> )**

Academic Director: Professor Ricard Guerrero

Hub manager: Ms Kimberley Katte

Communications: Mr Rubén Duro

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

Academic Director: Professor Eystein Jansen (trustee)

Hub manager: Ms Kristen Bakken

Project Manager: Ms. Trine Steensæth Pedersen

Communications: Mr Nils Olav Sæverås

#### **Budapest Hub [https://www.ae-info.org/ae/Acad\\_Main/Budapest\\_Knowledge\\_Hub](https://www.ae-info.org/ae/Acad_Main/Budapest_Knowledge_Hub)**

Academic Director: Professor Laszlo Lovasz

Hub Manager: Dr Gergely Bohm

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

Academic Director: Professor Ole Petersen (trustee).

Hub Manager: Ms Louise Edwards

Science Policy: Dr Mildred Foster

Office manager: Ms Juliet Davies

**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.

#### **Munich Hub.**

Academic Director: Professor Don Dingwell (trustee)

Hub manager: to be confirmed

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

Academic Director: Professor David Prangishvili

Hub Executive Director: Ms Sofia Kobakhidsze

Executive Officer: Ms Maia Matchavariani

#### **Wroclaw Knowledge Hub ([www.acadeuro.wroclaw.pl/](http://www.acadeuro.wroclaw.pl/))**

Academic Director: Professor Arkadius Wøjs

Hub manager: Ms Kasia Majkowska

#### **Examiner of Accounts**

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

#### **Principal Bankers**

NatWest Bank Plc  
PO Box 2AG  
63, Piccadilly  
London W1A 2AG

#### **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**

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

<http://apps.charitycommission.gov.uk/Showcharity/RegisterOfCharities/CharityWithoutPartB.aspx?RegisteredCharityNumber=1133902&SubsidiaryNumber=0>

From 1988 to incorporation, 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).

### **Governance and management**

The affairs of the Academia Europaea are managed by a Board of Trustees. 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).

The officers of the Academia (President, Vice President(s) and Honorary Treasurer) are elected by members. Other trustees are co-opted directly by the Board. The AGM 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 Charity Commission and Company House websites.

### **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 2021**

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 and the German National Academy of Sciences (Leopoldina) - a Patron member of the Academia Europaea. The trustees also thank those other foundations and organisations that have contributed to 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 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 Ole Petersen, for his varied service and also in his capacity as senior VP (ex o) in representing the AE in external project boards and meetings, including in the Horizon Europe SAPEA project and Theo D'Haen, who stepped down at the end of 2021 from his longstanding role as Editor-in-chief of our international journal – The European Review.

This reporting period was carried out against the background of the continuing impact of limitations resulting from the global COVID-19 pandemic. It was possible however to run a hybrid annual conference in Barcelona in October, and a Hybrid AGM. These are reported above. The office manager was put into the UK government furlough scheme during the compulsory lockdown period. Furlough continued part-time into early 2021. The AE received financial compensation from the government during this time. Despite this, the AE continued to operate the member nomination and election process. The continued lack of sponsored events contributed positively to the financial position of the AE for the year. The Horizon 2020 funded SAPEA activity continued virtually (see later report). The European Review continued to be published and generated some royalty income. The net result as expressed in the annual accounts for 2020 was an unrestricted funds reserves carried forward to 2021 of £119,401

The trustees wish to record their thanks specifically the Technical University of Graz for their dedicated I.T. and corporate web support and to Professor Balazs Gulyas for his management of the Erasmus Medal process.

The trustees are pleased to report, that in 2021, our inter – organisational links were further strengthened with a number of European federation organisations (ALLEA, FEAM, EASAC and euroCASE). Cardiff and London worked on the AE participation in a successor to the European SAPEA project. This work reached a successfully conclusion the European Commission's approval of a new project, to be funded through the EU Horizon Europe framework and scheduled to start in Spring of 2022. Despite ongoing problems associated with BREXIT and the non-association of the UK to the EU Horizon programme, the AE will be a consortium member but will be funded through UK government sources. The President and other trustees engaged in a number of specific activities that responded to policy issues across Europe. Each of the seven Regional Knowledge Hubs, has its own distinct mission and identity and 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.

The trustees are pleased to report a further widening of the membership of the Academia Europaea with the admission in 2021 of 355 scholars. The list is at annex 1. Member statistics can be found on the AE website at [ae-info.org](http://ae-info.org). The trustees also continued to support the further 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 also Foreign members from beyond Europe. The trustees consider, that following the completion of the BREXIT process, the risks to the continuation of the Academia as a UK registered and domiciled charity to be negligible at this time. The situation will be kept under review and any necessary steps will be taken to ensure a continuation. This may include any beneficial changes in jurisdiction, if needed.

The Trustees place on record 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. The AE and the Hubs have separately and in response to local and national instructions, put into place plans for a continuation of AE business during the ongoing COVID emergency.

## **Public benefit statement**

Over the year the Academia and the Regional Knowledge Hubs, has published articles and papers in commercial journals; organised a number of virtual academic meetings across the continent that are open to members, young scholars and to the interested public in all areas of operation. The Academia has provided prizes and awards to support and recognise 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 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, the establishing of a pilot 'Academia Europaea College of Excellence' and to support the expansion of outreach through the network of regional Hubs. We will explore alternative models of financing and support for provision of communications infrastructure. 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 (and from 2022 the new SAPEA PLUS). The trustees will endeavour to find additional core funding and sponsorship sources for linked activity. 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. To reflect the growth in the AE, resources will be allocated to recruit/and/or outsource a communications officer (part-time). Other support will be secured on an ad hoc basis, to meet workload demands, including by buying time of Hub staff, or through temporary recruitment.

## SECTION 4: Centrally co-ordinated activities during the period, 1 January 2021 – 31 December 2021

### The 32<sup>nd</sup> annual Building Bridges conference of members 20-21 October, 2021

The conference of the Academia Europaea took place at the PRBB (Biomedical Park) in Barcelona.

This was a hybrid event, with 55 physical delegates and over 250 who participated virtually.

Sessions included:

**Erasmus Medal award and AE-Heinz-Nixdorf Erasmus Lecture**  
**AE Gold award and accompanying lecture**

### Building Bridges 2021



Academia Europaea  
Barcelona Knowledge Hub  
19-22 October 2021

#### Key lectures by:

- **Balzan Prize Lecture I: ““The Amazon and Global Change”**. 2020 Balzan Prize Winner: **Susan Trumbore**, Max Planck Institute for Biogeochemistry.
- **“Volcanism: from wonder and fear to experiment and intervention”**. **Don Dingwell**, LMU Munich and AE Munich Knowledge Hub.
- **Welcome and introduction from the AE President-Elect Marja Makarow**, Professor, University of Helsinki, and Director, Biocenter Finland
- **Balzan Prize Lecture II: “How Should We Think About Freedom?”** 2006 Balzan Prize Winner: **Quentin Skinner**, Queen Mary University of London.
- **André Mischke Young Academy of Europe Prize 2021 for Science and Policy**. winner: **Marian Verhelst**, KU Leuven
- Introduction: **Gemma Modinos**, Chair, Young Academy of Europe (YAE). *Laudatio*: **Arild Husby**, Uppsala University
- **Young Academy of Europe (YAE) Panel: “Redefining Rewards & Recognitions for European Scholars”**. Chair: **Gemma Modinos**, Chair, Young Academy of Europe (YAE). Panellists: **Michael Murphy**, European University Association; **Konstantinos Glinos**, Unit for Open Science, European Commission; **Rebecca Lawrence**, F1000Research (TBC); **Moniek Tromp**, Vice-Chair, Young Academy of Europe (YAE).
- **“The mysteries of memory: how it is stored (the engram) and how it is retrieved (the ephory). How to erase, manipulate or cure memory loss”**. **Mara Dierssen**, Centre for Genomic Regulation – Barcelona.

### The Academia Europaea Erasmus Medal



**The 2020 Academia Europaea Erasmus Medal was awarded to the renowned international Physicist and Mathematician Roger Penrose.**

The medal was presented, at a small event held at Wadham College in Oxford on 24<sup>th</sup> September. The presentation was filmed.

The 2020 Heinz-Nixdorf Erasmus Lecture was also recorded at the event and then streamed to AE members during the Barcelona 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: “Upside-Down: Revolutions in Physics, Old and New”**

The recorded lecture can be viewed at: [https://www.ae-info.org/ae/Acad\\_Main/Activities/Awards\\_and Prizes/Erasmus\\_Medal/PastWinners](https://www.ae-info.org/ae/Acad_Main/Activities/Awards_and Prizes/Erasmus_Medal/PastWinners) . There is also an interview with Sir Roger at the same URL.

**ABSTRACT:** *The Copernican revolution tuned upside-down the prevailing view about the motions of the Earth and Sun. But it took Galileo’s dynamical understandings to explain why we do not feel the Earth’s motion, as in a carriage drawn by rapidly moving horses. The work of Kepler and Newton further refined this dynamics, but the speed of light, as explained by Maxwell’s 19th century electromagnetism, seemed to pose a paradox that has only finally been resolved in the 20th century by Einstein’s special and general theories of relativity. This latter theory (GR), has of itself led to the seeming catastrophe of singularities in large-scale gravitational collapse.*

*That same century gave us quantum mechanics (QM) for the physics of the small. A common view, is that, when correctly applied to GR, singularities would not arise. However, there are strong reasons to expect that this cannot suffice, and should be turned upside down, for GR to resolve inherent problems in QM, again turning upside down current viewpoints relating quantum measurement to conscious experience.*

#### Bio for Roger Penrose

AFFILIATION: Professor (emeritus) of Mathematics at the University of Oxford, UK.

LINK TO WEBPAGE: <https://penroseinstitute.com/about/roger-penrose/>

#### Citation:

Roger Penrose has conducted outstanding research in pure mathematics and theoretical physics for more than 60 years. He is most widely acclaimed for his work on singularities, such as black holes, which he proved could arise from the gravitational collapse of massive, dying stars. He has also made important contributions that explore possible connections between physics and consciousness, and set these out in best-selling books such as *The Emperor's New Mind* (1989).

Roger Penrose revolutionised the mathematical tools that we use to analyse the properties of spacetime. Previously, work on the curved geometry of general relativity had been confined to configurations with sufficiently high symmetry for Einstein's equations to be soluble explicitly, and by investigating small perturbations away from their symmetry. His more radical approach instead concentrated just on the topology of the space, or at most its conformal structure, since it is the latter — as determined by the lay of the lightcones — that determines the trajectories of light-like geodesics, and hence their causal relationships. The importance of Penrose's epoch-making paper "Gravitational collapse and space-time singularities" was not only its result (roughly that if an object such as a dying star implodes beyond a certain point, then nothing can prevent the gravitational field getting so strong as to form some kind of singularity). It also showed a way to obtain similarly general conclusions in other contexts, notably that of the cosmological Big Bang, which he dealt with in collaboration with Stephen Hawking.

Roger invented [twistor theory](#), a key tool in quantum theory. He proposed the cosmic censorship hypothesis — an idea of how the effects of the unpredictability of singularities are 'hidden' from us. Even his recreations have been creative: his discovery of a non-periodic form of tiling — [Penrose tiling](#) — has since been observed experimentally in quasicrystals.

He has (with the possible exception of Hawking, for whom he was a mentor and collaborator) done more than anyone since Einstein, to deepen our understanding of space, time, and gravity. Moreover, alongside these 'core' efforts he has, throughout his long career, displayed exceptionally wide-ranging originality and intellectual energy; through his books and lectures, he has been an immense cultural stimulus. He has already received many honours, but his wide-ranging and sustained career has the breadth and impact that renders him an especially distinguished recipient of the Erasmus Medal

#### Other Bios:

<https://biography.yourdictionary.com/roger-penrose>

[https://en.wikipedia.org/wiki/Roger\\_Penrose](https://en.wikipedia.org/wiki/Roger_Penrose)

**The Erasmus lecture is sponsored by the**

## **Heinz Nixdorf Stiftung**

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

At the Oxford presentation on 24<sup>th</sup> September, the laudation for the award was given by Professor the Lord Rees of Ludlow (Martin Rees) – a former President of the Royal Society of London and the Astronomer Royal.

The event was introduced by Professor Ole Petersen (on behalf of the AE President). The trustees are most grateful to the Warden of Wadham College - Robert Hannigan, who kindly hosted the event and provided the participants with a celebratory luncheon in honour of Professor Penrose. A recording of the medal presentation can be found at: [https://www.ae-info.org/ae/Acad\\_Main/Activities/Awards\\_and\\_Prizes/Erasmus\\_Medal/PastWinners](https://www.ae-info.org/ae/Acad_Main/Activities/Awards_and_Prizes/Erasmus_Medal/PastWinners)

**Presentation of the Academia Europaea Gold Award to Professor Ole H Petersen CBE MAE ML FRS. On 20 October, 2021 - Barcelona**



**Citation:** This award is only rarely given, and is made "... to those members and non-members of the Academia and to organisations, in recognition of the contribution made to European science through inspiration, public support, management expertise or by financial means. "



The Board of trustees of the Academia Europaea are pleased to recognise the substantial and sustained contribution that Ole Petersen has made to the Academia Europaea. As one of the founder members (elected 1988), Ole has maintained a close and active engagement in all aspects of the Academy. He has at various times served as a Council member, as a trustee and Board member, as a Section chair (for Physiology and Neurosciences) and as the first Class chair for Life Sciences. He continues to serve on the Board as a Vice president. Ole was instrumental in the establishing of the Class structure of the Academia and the nomination of new members' process that we have today. More recently, Ole has overseen the Cardiff Knowledge Hub as its Academic Director and in that position, represents the Academia alongside the President on the Board of the EU Horizon project 'SAPEA', where the AE plays a significant role. The outstanding and selfless service that Ole has given to the Academia Europaea over the past 30 plus years remains unmatched. The Gold award of our Academy is a fitting mark of recognition of this service.

**Lecture title: "Science, Scientific Publishing and Scientific Advice for Policy: 50 years of personal experiences"**

**ABSTRACT:** *Science, scientific publishing and scientific advice are three different, but of course closely interconnected, activities. In the more than 50 years I have been an active publishing scientist, they have all undergone major transformations. My own field of biomedical science has been radically transformed from a mostly organ-based 'black box' approach to a mechanistic science based on molecular biology and biophysics, with dramatically increased opportunities for translation into clinical practice. The results have been impressive and have markedly increased the healthy, active life span. Science funding has increased enormously in many parts of the world, but scientific activity is now more heavily concentrated in a relatively small number of affluent countries than it was 50 years ago and in these countries it is still the case that the most influential and well-funded scientists are predominantly white and male. Publishing and reading published papers have also been completely changed with a vastly increased volume and speed of transmission as well as Open Access. In spite of the truly remarkable search engines and the improved readability of papers in the leading journals, it has become ever more difficult to keep up with the rapidly expanding literature. A vastly increased number of review journals and many more conferences have not been able to solve this problem. Evaluation of scientific work by metrics, although widely regarded as unsound, is nevertheless a stark reality in many parts of the world. Scientific advice to inform policy decisions has also changed dramatically during my scientific life, from being largely secret and based on opinions of individuals hand-picked by government to an institutionally-based activity with evidence and conclusions openly published (at least in the case of the European Union). In my lecture, I'll try to draw all these trends together into as coherent a picture as possible, based on my personal experiences as a Professorial Principal Investigator in several different European universities, editor of several journals, member (and also President, Vice-President, Secretary General) of many academies, academic societies and funding bodies as well as, in the last 5 years, my involvement in the European Scientific Advice Mechanism.*

**BIOGRAPHICAL NOTE:**

Ole Petersen CBE FRS is one of the Founding Members of Academia Europaea. He succeeded the Nobel Laureate Sir Martin Evans FRS, as Director of the School of Biosciences at Cardiff University in 2010, completing his 5-year term in 2015. He continues at Cardiff University as Professor of Biosciences and Director of Academia Europaea's Cardiff University Knowledge Hub. Before joining Cardiff University, Petersen was George Holt Professor of Physiology at the University of Liverpool for 28 years. Petersen discovered ion channels in epithelial cells and their critical role in controlling secretion (Nature 1982-1989). He discovered local calcium signals and intracellular calcium tunnels in exocrine gland cells (Cell 1990-1997) and, more recently, unravelled the molecular events in the development of the often fatal human disease Acute Pancreatitis (AP) (PNAS 2000-2013). He has very recently developed a new evidence-based theory for the initiation of AP, involving necrotic amplification loops between three different cell types (Physiol Rev 2021). His current h-index is 101 (Google Scholar) or 86 (Web of Science). Petersen is a Fellow of the Royal Society (Vice-President 2005-2006), a Member of the German National Academy of Sciences Leopoldina (Leopoldina Lecture 2012) and Fellow/Member of five other European Academies. In 2021, he was elected one of the thirty inaugural members worldwide of the International Union of Physiological Sciences' (IUPS) Academy of Physiology. Petersen was appointed Commander of the Order of the British Empire (CBE) by Queen Elizabeth II in 2008 'for services to science'. He chaired the Biological Sciences Panel in the UK Government's 2014 Research Excellence Framework (REF2014) and has served as Secretary-General of IUPS, European Executive Editor of the American Physiological Society's flagship journal Physiological Reviews and Chair of an ERC Grant Panel. In 2020, he became Editor-in-Chief of the American Physiological Society's new Open Access journal Function. Petersen has received several prizes for his research on the physiology and pathophysiology of the pancreas, including the NOVO Nordisk Foundation's Jacobaeus Prize, the Czech Science Academy's Purkyne Medal and, in 2018, the American Physiological Society's highest honour, the Walter B Cannon Memorial Lecture Award. In October 2021, he will deliver the first Sir Michael Berridge Memorial Lecture at the FASEB conference on 'Calcium and Cell Function'.

**Presentation of a Gömböc G1466 to Roger Penrose**, in recognition of his achievements and to coincide with the 2020 Erasmus Medal.



Also, and as a part of the dedicated Oxford event for Roger Penrose, the Academia Europaea was deeply honoured to be able to collaborate with Professor Gabor Domokos, who had arranged to present Prof. Penrose with a unique sculptural and scientific piece - the Gömböc G1466. The designation number coincides with the birth of Erasmus of Rotterdam – thus establishing a link between the AE Erasmus prize and the GOMBOC award. This complex piece, based on mathematics, was one of only a very few previously made and awarded. Professor **Gábor Domokos**, as the originator of the science behind the piece, was unable to participate,

due to COVID restrictions. But, the event was honoured by the presence of his excellency **Dr Ferenc Kumin**, the Ambassador for the Republic of Poland to the Court of St James. The Ambassador made the presentation and gave a laudation on behalf of Dr Domokos. The event took place on 24<sup>th</sup> September, at Wadham College Oxford, at the kind invitation of the Warden - Robert Hannigan,

The Gömböc G1466 presentation was filmed and the recording can be found at: [https://www.ae-info.org/ae/Acad\\_Main/Activities/Awards\\_and\\_Prizes/Erasmus\\_Medal/PastWinners](https://www.ae-info.org/ae/Acad_Main/Activities/Awards_and_Prizes/Erasmus_Medal/PastWinners)

Further information about the GOMBOC: [https://en.wikipedia.org/wiki/G%C3%B6mb%C3%B6c#Individual\\_g%C3%B6mb%C3%B6c\\_models](https://en.wikipedia.org/wiki/G%C3%B6mb%C3%B6c#Individual_g%C3%B6mb%C3%B6c_models)

## 2021 Class meetings

As a part of the annual conferences programme, the four Classes each held a virtual Class event to welcome the new members elected in 2020. Due to the ongoing COVID restrictions on numbers it was not possible to arrange for physical Class sessions during the Barcelona conference proper, or a plenary welcome to new members ceremonial session.

The four Classes each followed a similar format. This included: A pre-recorded presentation and welcome to the AE by the President. Individual profile presentations by new members and a keynote lecture.

Keynote speakers were:

Classes A1 Humanities and A2 Social and Societal Sciences – Professor Quentin Skinner MAE “A bridge between art and philosophy: the case of Thomas Hobbes”.

Class B Exact Sciences – Professor Domenico Giardini MAE “Mars Missions”

Class C Life Sciences – Kaitlin Kariko “Vaccine development and use of mRNA technology in other diseases”.

The Board of trustees wish to thank the staff of the Bergen Hub, the Cardiff Hub and the Munich Hub, each of which organised and hosted one of the virtual platforms for the Class sessions.

## Valedictory Lecture by outgoing President, Professor Sierd Cloetingh – Hungarian Academy of Sciences - December 10<sup>th</sup>

The trustees would like to thank the President Professor Tamas Freund of the Hungarian Academy of Sciences who hosted a final Board of Trustees meeting under the Presidency of Professor Sierd Cloetingh. Following the trustees meeting, Professor Cloetingh delivered a publicly streamed lecture entitled “Europe: Natural Laboratory for Frontier Research in Earth Sciences”. The lecture can be viewed on Youtube at: <https://mta.hu/english/farewell-lecture-by-professor-sierd-cloetingh-outgoing-president-of-academia-europaea-at-the-hungarian-academy-of-sciences-in-budapest-111872>



## **ABSTRACT:**

Integrated studies of the full Earth system across space and time scales are rapidly advancing.

The International Lithosphere Program (ILP), connecting geophysical and geological sciences at their interfaces, promotes frontier research in Solid-Earth science, with high societal impact in the domains of geo-environment, geohazards and geo-resources. Probably one of the important developments in Solid-Earth science over the past decade has been the recognition of the importance of linking deep Earth dynamic processes with surface and near-surface geologic processes (e.g., Cloetingh and TOPO-EUROPE Team, 2007, Global and Planetary Change; Cloetingh et al., 2013, Tectonophysics; Cloetingh, 2020, Encyclopaedia of Solid Earth Geophysics). Deep Earth research, encompassing fields such as seismology and mantle geodynamics, has traditionally operated distinctly from fields focusing on dynamics near the Earth’s surface, such as sedimentary geology, geomorphology, and climate/paleoclimate. However, as realized by ILP, these endeavours have in common the study of Earth’s topography and the prediction of its origin and rates of change. Observations from surface studies, such as basin stratigraphy, geomorphology of landscapes, changes in surface elevation, and changes in sea level (Cloetingh and Haq, 2015, Science), provide some of the principal constraints on geodynamic and tectonic models. Conversely, deep geodynamic processes give rise to topography, thereby modifying regional climate, erosion, and sediment generation that are the basis of surface geology. The lithosphere, due to its stratified rheological structure, acts as a non-linear “filter” for deeper sources, attenuating long deformation wavelength and creating new, shorter wavelength deformation; giving a surface response more complex than that of the mantle source. It is the surface manifestations of these deep geodynamic processes modified by mantle-lithosphere interactions that have significant societal impact by (1) creating natural hazards, such as earthquakes and mass movements, and (2) controlling the distribution of natural resources including fossil fuels and geothermal energy. The relevance of research conducted in both the deep Earth and surface regimes is thus strongly enhanced through a focus on their interaction. Long-term inner Earth processes, such as mantle flow, drive the system of mantle-surface interaction. However, short-term outer Earth processes such as erosion and climate tune the response. The

continental lithosphere transforms deformation generated at its base by mantle flow, but surface processes control many of the observables such as topography, sedimentation and exhumation rates, and thus further filter the source and even tune the response through cyclic processes such as climate. However, little is known on how far these interactions may go, or how these different processes are coupled or feed back into the dynamic system. At the same time, many modelling or theoretical studies suggest that erosion and sedimentation do impact the subsurface evolution of crustal deformation, changing flow patterns and magnitudes in the ductile crust and mantle through changing gravitational stresses or kinematics. Europe through its well-studied natural laboratories, such as the Northwestern European Atlantic continental margin and the Pannonian Basin-Carpathian Mountain system of Central and Eastern Europe, is an excellent place to further advance insights in the interaction of deep Earth and surface processes. The high level of integrated solid Earth science, the existence of platforms for community building, such as Academia Europaea, TOPO-EUROPE and the European Plate Observing System EPOS are also crucial in this respect. This provides a solid foundation to connect frontier science and societal relevance in the domains of geo-energy and natural hazards on a full pan-European scale. The science base in Europe is now rapidly developing to bring geothermal energy into power in plate interiors, significantly enhancing its contribution to the energy transition in Europe and elsewhere.

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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 provides assistance to 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 from November 2016- to the end of April 2022.



 = 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](#) and [FEAM](#). SAPEA will provide a means for closer collaboration between Academies, combining Fellows' expertise in engineering, human, medical, natural, social and technical sciences in a unique way.

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)  
Fellows' travel costs will be reimbursed
- **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 and providing expertise to public institutions and administrations at European Level

The Horizon2020 funded project contract with the European Commission started at the end of 2016 and has been extended to 2022. 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) is our 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. Louise Edwards is supported by Dr Mildred Foster.

In 2021, the Cardiff Hub team managed the Academia Europaea activity within the SAPEA consortium project. One high profile activity that Cardiff played a major lead role in was [Biodegradability of plastics](#). Our focus this year has been on outreach activities for the SAPEA Evidence Review Report, *Biodegradability of plastics in the open environment*. The Evidence Review Report was co-ordinated by the Cardiff Hub for Academia Europaea, and published at the end of 2020.

The Cardiff Hub co-organised the launch webinar for the Evidence Review Report, which attracted an international audience of almost 170. Held on 4th February, the webinar brought together a panel of speakers from the Group of Chief Scientific Advisors, SAPEA and the European Commission, to respond to the question, *'Taking action on plastics pollution: Are biodegradable plastics the answer?'*

*'Biodegradable plastics: How do we engage with consumers and society?'* was the focus of our second webinar, on 21st May. Attendees from 38 countries joined our panel of experts. The webinar was organised with SAPEA, in partnership with the Royal Irish Academy.



Our third webinar *'Plastics pollution: Are biodegradable plastics a solution?'*, held on 16th June, was hosted by MEP Mohammed Chahim and chaired by Professor Ole Petersen. Panellists included Members of the European Parliament, the Chair of the Group of Chief Scientific Advisors (Professor Nicole Grobert MAE), Members of the SAPEA Working Group and representatives from industry and NGOs. Over 300 people attended the webinar.

The Cardiff Hub also oversaw a mapping review of recent research evidence on the topic, which was published by SAPEA in February. Specialists in systematic review at Cardiff University undertook the review, with the Cardiff Hub co-ordinating the work. It forms a complementary report to the SAPEA Evidence Review on *Biodegradability of plastics in the open environment*.

Full information for the project and its outputs, can be found via the official SAPEA website (<https://www.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 also 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.



### **AE Publications**

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

**The European Review 2021** (volume 29). The Editor-in-chief – Professor Theo D'Haen (University of Leuven) stepped down at the end of the year and Professor Alban Kellerbauer (Nuclear Physics, Joint Research Centre, Karlsruhe, Germany), took up the role. The Board wishes to record their grateful thanks for the significant work that Professor D'Haen put into the Review over many years as its editor. The journal has grown from a quarterly to its present size and has seen a significant increase in uncommissioned papers submitted for review and publication, from across the world.

In 2021, the European Review (ERW) volume 29 had six issues. 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.

Volume 29 had the following focus issues:

Literature in Times of Crisis and Vulnerability (issue number 3 June 2021)

Symmetry, Proportion and Seriality: The Semantics of Mirroring and Repetition in Science and the Arts.

Introduction to Special Issue (issue number 2 April 2021)



**Open access issues** – 20 articles were published open access

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 Verkhratsky (Chair of Class C – Life Sciences). Published by Springer Nature - <https://biologydirect.biomedcentral.com/>

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### **AE 'in-house' Publications.**

In addition to regular e-newsletters produced by the centre and all of the Regional Knowledge Hubs, The AE published a number of statements on policy issues and issues relating to the status of members in a number of European countries. These are archived on our website ([www.ae-info.org](http://www.ae-info.org)).

No annual member directory was issued in 2021.

The AE maintained its corporate website and all Regional Knowledge Hubs maintain their own websites, that reflect their own, independent programmes of activity.

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## **SECTION 6: Events provided with AE sponsorship through the Hubert Curien Fund, or with AE patronage in 2021, or externally sponsored**

Twenty-two events were supported during the year. 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)

The Curien Fund supported the following member initiated proposals that were postponed because of the COVID pandemic to future dates.

- Class of Social and Related Sciences (Hosted at Wroclaw) event. “Collective Identities, Nations and Social Spheres” (postponed to 2021)
- The Riksbankens Jubileumsfonds (Sweden) supported the History & Archaeology Section event – Hosted at the Wroclaw Hub: “ICONOCLASM : PAST & PRESENT ISSUES” postponed from 2020. The event took place on 4-6 October

The Regional Knowledge Hubs organised a number of online events and webinars under the AE banner throughout 2021. These are reported as appropriate in each individual Hub annual report.

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

### **2021 New members elected**

On June 8<sup>th</sup>, The trustees approved the recommendation of the Classes and elected new members as follows: Class A1 (Humanities) – 105 new members; Class A2 (Social and societal sciences) – 52 new members; Class B (Natural Sciences) – 110 new members and Class C (Life Sciences) – 94 new members. A full list of 2020 new members, allocated by Class and Section is at Annex 1.

The Class chairs responsible for oversight of the nominations process in 2021 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 Don Dingwell (Trustee)]  
Class C – Life Sciences – Sections C1 – C5 [Professor Alex Verkhatsky (Trustee until October, then Professor Eva Kondorosi (Trustee)]

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### **Communications**

The Hubs and HQ issued regular electronic newsletters throughout the year. A letter from the President was issued to all members on a quarterly basis. The Graz Data centre maintained the ae-info.org website and both Graz and Wroclaw ensured that member data was updated, including for the new members elected in 2021 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.

### **Governance meetings held in 2021**

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

Because of continuing COVID-19 restrictions across Europe, the Board of Trustees met virtually on four occasions as follows: April 16, April 17, June 8, and 20 October. All meetings were quorate. In addition the trustees met in physical meetings in October and on December 10<sup>th</sup>. A physical/virtual hybrid AGM took place on 21<sup>st</sup> October.

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

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### **33rd Annual Business Meeting 2021(AGM) – Barcelona 21<sup>st</sup> October held at 09:00am – 11:00am (CET)**

This was a hybrid meeting. The President (Sierd Cloetingh) chaired the AGM. There were nineteen physical delegates and fifty seven virtual delegates present

**A number (5) of electronic member-wide ballots had taken place in advance of the AGM (6 – 10 October). The results were reported to all members at the AGM.**

**Motion to approve or reject the note**

**Motion to adopt the examined accounts for the year ending 31 December 2020**

**Motion to adopt the trustees (activity report) for the year ending 31 December 2020**

**Motion to re-appoint the auditors (examiners)**

**Motion to set the level of membership fees for the year 2022**

**Large majorities had approved all motions.**

At the AGM, the President welcomed all participants. He gave a slide presentation summarising the AE. He then reported on activities carried out in the previous year (2020) and some highlights of 2021. The members present adopted the draft agenda. The President then reported on the results of the online ballots that had been taken before the AGM. The note of the 2020 actions taken has been approved and the Chair signed the note.

The Honorary Treasurer, summarised the financial position as set out in the accounts for 2020 and additionally gave indications of the current year. He reported that the financial position of the AE was stable and had in fact benefitted to a limited extent (financially) from the lockdowns and limitations caused by the COVID-19 Pandemic and the necessary suspension of normal activities. The AE, as a UK registered charity, had also benefitted from UK government support schemes during this period. 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 again pointed out that there were still a significant number who did not make any contribution at all.

Professor Petersen (Academic Director of the Cardiff Hub), reported on AE involvement in the SAPEA project and updated members on progress for a new SAPEA project that was under preparation.

The President-elect – Professor Makarow, gave a short presentation on some of her upcoming Presidential priorities.

The President listed those trustees who were scheduled to step down from the Board at the end of 2021:

Alex Verkhatsky – Class C Life Sciences Chair (co-opted) – actually resigned in October.

Theo D'haen – Editor –in-chief of the European Review (co-opted).

The current, elected Vice President – Professor Genoveva Marti. A call for nominations for election of a Vice President (Officer) of the Academia Europaea will be made in the first quarter of 2022.

The current (pro tem) Hon.Treasurer – Dr Oskar Mencer was co-opted in late 2019, following the resignation of Prof. Milutinovic. A call for nominations and a ballot of members will be held in 2022 to formally elect a Treasurer.

Don Dingwell retires as Chair of Class B (Exact and physical Sciences), but will remain on the Board as a co-opted member (Academic Director of the Munich Hub).

A vote of thanks for the service of these trustees was recorded.

A further review of the Board composition would take place in 2022.

The President closed the meeting at 11:00am CET.

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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 2021 - 31 December 2021. 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

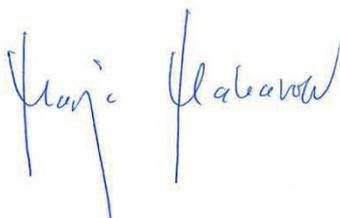
The total funds for the year ended 31 December 2021 was £393,771 [YE 31 December 2020, £283,546]. It is the policy of the trustees to maintain sufficient reserves for the Academia Europaea to continue its charitable activities and in view of this, the trustees aim to achieve reserves equal to approximately six months of operations. A review of reserves policy is undertaken every year.

## Income and expenditure for the period ended 31 December 2021 (summary overview)

The year was one of a cautious, small relaxations in expenditures as some of the impacts of COVID loosened and some physical events became possible. The COVID-19 pandemic did have an ongoing impact on the financial position of the AE. Our total income for the year was £634,042. Total expenditure was £484,369. The balance of funds brought forward to 2021 from 2020 were £283,546. The figures also include some partial subsidies received from the UK government in support of the COVID-19 lockdown and the furlough of one member of AE staff at the London office and a £50,000 government loan at preferential rates, to support future growth post-COVID. Repayments for the loan would commence in spring 2022.

The AE as a charity seeks to operate an effective zero balance budget. We are essentially dependent upon members' donation income. In 2021, this was at £227,308 (net) and life membership payments totalled £51,035. This represented a positive increase over previous years. 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, and our Patron member The German Academy of Sciences (Leopoldina). 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 2021 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**

20 July 2022

**Annex 1: Members elected in 2021 and who subsequently accepted an invitation into membership**

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

<b>Sect.</b>		<b>Full name</b>	<b>Country</b>	<b>Membership type</b>
<b>A1</b>		<b><u>History &amp; Archaeology (15)</u></b>	<b>c. Nikita Harwich-Vallenilla</b>	
A1	1	Berger Stefan Heinrich	Germany	ORDINARY
A1	2	Catoni Maria Luisa	Italy	ORDINARY
A1	3	Devine Thomas Martin	United Kingdom	ORDINARY
A1	4	Elina Ol'ga (Olga)	Russia	ORDINARY
A1	5	Esders Stefan	Germany	ORDINARY
A1	6	Kahl Thede	Germany	ORDINARY
A1	7	Levillain Charles-Edouard	France	ORDINARY
A1	8	Manfredi Antonio	Holy See (Vatican City State)	ORDINARY
A1	9	Mantzourani Eleni	Greece	ORDINARY
A1	10	Marconi Clemente	Italy	ORDINARY
A1	11	McNeill John Robert	United States	FOREIGN
A1	12	Millett Martin John	United Kingdom	ORDINARY
A1	13	Pop Ioan-Aurel	Romania	ORDINARY
A1	14	Tortarolo Edoardo	Italy	ORDINARY
A1	15	Zubkova Elena Iourievna	Russia	ORDINARY

<b>A2</b>		<b><u>Classics &amp; Oriental Studies (6)</u></b>	<b>c. Gerd Haverling</b>	
A2	1	Avram Alexandru	France	ORDINARY
A2	2	Bietak Manfred	Austria	ORDINARY
A2	3	Cassio Albio Cesare	Italy	ORDINARY
A2	4	Cereti Carlo Giovanni	Italy	ORDINARY
A2	5	Clackson James	United Kingdom	ORDINARY
A2	6	Kadar Zoltan Daniel	Hungary	ORDINARY

<b>A3</b>		<b><u>Linguistic Studies (20)</u></b>	<b>c. Pier Marco Bertinetto</b>	
A3	1	Aikhenvald Alexandra	Australia	FOREIGN
A3	2	Ameka Felix	The Netherlands	ORDINARY
A3	3	Ariel Mira	Israel	ORDINARY
A3	4	Bakró-Nagy Marianne	Hungary	ORDINARY
A3	5	Corver Norbert	The Netherlands	ORDINARY
A3	6	Cristofaro Sonia	France	ORDINARY
A3	7	Geeraerts Dirk	Belgium	ORDINARY
A3	8	Ginzburg Jonathan	France	ORDINARY
A3	9	Guasti Maria Teresa	Italy	ORDINARY
A3	10	Hunyadi László	Hungary	ORDINARY
A3	11	Joseph Brian Daniel	United States	FOREIGN
A3	12	Ledgeway Adam	United Kingdom	ORDINARY

A3	14	Li Wei	United Kingdom	ORDINARY
A3	15	Lohndal Terje	Norway	ORDINARY
A3	16	Marchello-Nizia Christiane	France	ORDINARY
A3	17	Németh Enikő	Hungary	ORDINARY
A3	18	Pană Dindelegan Gabriela	Romania	ORDINARY
A3	19	Pirrelli Vito	Italy	ORDINARY
A3	20	Xu Song Dan	France	ORDINARY

<b>A4</b>		<b><u>Literary &amp; Theatrical Studies (18)</u></b>	<b>c. Vladimir Biti</b>	
A4	1	Basch Sophie	France	ORDINARY
A4	3	Decout Maxime	France	ORDINARY
A4	4	Fang Weigui	China	FOREIGN
A4	5	Hansen Hans Lauge	Denmark	ORDINARY
A4	6	Jiang Hongxin	China	FOREIGN
A4	7	Kohlmann Benjamin	Germany	ORDINARY
A4	8	Limon Jerzy	Poland	ORDINARY
A4	9	Luckhurst Roger	United Kingdom	ORDINARY
A4	10	Moore Helen	United Kingdom	ORDINARY
A4	11	Nordal Gudrun	Iceland	ORDINARY
A4	12	Reynolds Matthew	United Kingdom	ORDINARY
A4	13	Rothberg Michael	United States	FOREIGN
A4	14	Saunders Max	United Kingdom	ORDINARY
A4	15	Spariosu Mihai	Romania	ORDINARY
A4	16	Vazquez Lydia	Spain	ORDINARY
A4	17	Wilmer Stephen	Ireland	ORDINARY
A4	18	Witte Georg	Russia	ORDINARY

<b>A5</b>		<b><u>Musicology &amp; Art History (8)</u></b>	<b>c. Laurenz Lutteken</b>	
A5	1	Delaere Mark	Belgium	ORDINARY
A5	2	Goettler Christine	Switzerland	ORDINARY
A5	3	Petrauskaitė Danutė	Lithuania	ORDINARY
A5	4	Popović Mladjenović Tijana	Serbia	ORDINARY
A5	5	Seroussi Edwin	Israel	ORDINARY
A5	6	Tadday Ulrich	Germany	ORDINARY
A5	7	Vrachliotis Georg	The Netherlands	ORDINARY
A5	8	Walton Benjamin	United Kingdom	ORDINARY

<b>A6</b>		<b><u>Philosophy, Theology &amp; Religious Studies (12)</u></b>	<b>c. Genoveva Marti</b>	
A6	3	Hon Giora	Israel	ORDINARY
A6	4	Kaiser Matthias	Norway	ORDINARY
A6	5	Knuuttila Tarja	Austria	ORDINARY
A6	6	Kõiva Mare	Estonia	ORDINARY
A6	7	Leonelli Sabina	United Kingdom	ORDINARY
A6	8	Machinist Peter	United States	FOREIGN
A6	9	Nida-Rümelin Martine	Switzerland	ORDINARY
A6	10	Schoene-Seifert Bettina	Germany	ORDINARY
A6	11	Seibt Johanna	Denmark	ORDINARY

A6	12	Werndl Charlotte	Austria	ORDINARY
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<b>A7</b>		<b>Film, Media and Visual Studies (14)</b>	<b>c. Göran Bolin</b>	
A7	1	Balčytienė Auksė	Lithuania	ORDINARY
A7	3	Das Enny	The Netherlands	ORDINARY
A7	4	Deuze Mark	The Netherlands	ORDINARY
A7	5	Drzewiecka Jolanta	Switzerland	ORDINARY
A7	6	d'Inverno Mark	United Kingdom	ORDINARY
A7	7	Kiriya Iliya	Russia	ORDINARY
A7	8	Metag Julia	Germany	ORDINARY
A7	10	Nikunen Kaarina	Finland	ORDINARY
A7	11	Nimrod Galit	Israel	ORDINARY
A7	12	Parikka Jussi	United Kingdom	ORDINARY
A7	13	Peruško Zrinjka	Croatia	ORDINARY
A7	14	Siibak Andra	Estonia	ORDINARY

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

Sect.		Full name	Country	Membership type
<b>A8</b>		<b>Economics, business &amp; management sciences (21)</b>	<b>c. Klaus Zimmermann</b>	
A8	1	Bénassy-Quéré Agnès	France	ORDINARY
A8	2	Comes Tina	The Netherlands	ORDINARY
A8	3	Crespo Cuaresma Jesus	Austria	ORDINARY
A8	4	Dosi Giovanni	Italy	ORDINARY
A8	5	Feld Lars	Germany	ORDINARY
A8	6	Fornero Elsa Maria	Italy	ORDINARY
A8	7	Gambardella Alfonso	Italy	ORDINARY
A8	8	Harmon Colm	United Kingdom	ORDINARY
A8	9	Kitchen Philip	France	ORDINARY
A8	10	Kritikos Alexander	Germany	ORDINARY
A8	11	Maurel Mathilde	France	ORDINARY
A8	12	Moore John	United Kingdom	ORDINARY
A8	13	Nakicenovic Nebojsa	Austria	ORDINARY
A8	14	Ricart Joan Enric	Spain	ORDINARY
A8	15	Rochet Jean-Charles	Switzerland	ORDINARY
A8	16	Salas Fumas Vicente	Spain	ORDINARY
A8	17	Sanver Remzi	France	ORDINARY
A8	18	Wang Mo	United States	FOREIGN
A8	19	Welter Friederike	Germany	ORDINARY
A8	20	Winter-Ebmer Rudolf	Austria	ORDINARY
A8	21	Zamir Shmuel	Israel	ORDINARY

<b>A9</b>		<b><u>Governance, Institutional Policies: Education, health and Welfare (8)</u></b>	<b>c. Peter Scott</b>	
A9	1	Birkelund Gunn Elisabeth	Norway	ORDINARY
A9	2	Bucchi Massimiano	Italy	ORDINARY
A9	3	Rafael de Miguel Gonzalez	Spain	ORDINARY
A9	4	Freitas Lopes Teixeira Pedro Nuno	Portugal	ORDINARY
A9	5	Goastellec Gaële	Switzerland	ORDINARY
A9	6	Kwiek Marek	Poland	ORDINARY
A9	7	Petersen Klaus	Denmark	ORDINARY
A9	8	Skivenes Marit	Norway	ORDINARY

<b>A10</b>		<b><u>Human Mobility, Governance, Environment and Space (5)</u></b>	<b>c. Maria Paradiso</b>	
A10	3	Foody Giles	United Kingdom	ORDINARY
A10	4	Fra Paleo Urbano	Spain	ORDINARY
A10	5	Robinson Jennifer	United Kingdom	ORDINARY

<b>A11</b>		<b><u>Law (6)</u></b>	<b>c. Nina Dethloff</b>	
A11	1	Büchler Andrea	Switzerland	ORDINARY
A11	2	Häcker Birke	United Kingdom	ORDINARY
A11	3	Kiener Regina	Switzerland	ORDINARY
A11	4	Masing Johannes	Germany	ORDINARY
A11	5	Novak Barbara	Slovenia	ORDINARY
A11	6	Pistor Kathrina	United States	FOREIGN

<b>A12</b>		<b><u>Social Change and Social Thought (15)</u></b>	<b>c. Peter Wagner</b>	
A12	1	Arnason Johann	Czech Republic	ORDINARY
A12	2	Beckert Jens	Germany	ORDINARY
A12	3	Brooks Tom	United Kingdom	ORDINARY
A12	4	Fabiani Jean-Louis	Austria	ORDINARY
A12	5	Fassin Didier	United States	Ordinary
A12	6	Green Sarah Francesca	Finland	ORDINARY
A12	7	Hart Johnathan	Canada	FOREIGN
A12	8	Keskitalo Eva Carina Helena	Sweden	ORDINARY
A12	9	Lacey Nicola	United Kingdom	ORDINARY
A12	10	Mau Steffen	Germany	ORDINARY
A12	11	Narotzky Susana	Spain	ORDINARY
A12	12	Rogowski Ronald	United States	FOREIGN
A12	13	Soskice David	United Kingdom	ORDINARY
A12	14	Tribe Keith	United Kingdom	ORDINARY
A12	15	van Gelderen Martin	The Netherlands	ORDINARY

<b>A13</b>		<b>The Human Mind and its Complexity (5)</b>	<b>c. Yuri Allik</b>	
A13	1	Bender Andrea	Norway	ORDINARY
A13	2	Meciacci Luciano	Italy	ORDINARY
A13	3	Nummenmaa Lauri	Finland	ORDINARY
A13	4	Olofsson Jonas	Sweden	ORDINARY
A13	5	Suckling John	United Kingdom	ORDINARY

**Class B - Exact and Natural Sciences: Chair Don Dingwell(Munich)**

<b>Sect.</b>		<b>Full name</b>	<b>Country</b>	<b>Membership type</b>
<b>B1</b>		<b>Mathematics (25)</b>	<b>c. Philippe Michel</b>	
B1	1	Albeverio Sergio	Germany	ORDINARY
B1	2	Ammari Habib	Switzerland	ORDINARY
B1	3	Breillard Emmanuel	United Kingdom	ORDINARY
B1	4	Bárány Imre	Hungary	ORDINARY
B1	5	Coron Jean-Michel	France	ORDINARY
B1	10	Jin Shi	China	FOREIGN
B1	11	Kaloshin Vadim	Austria	ORDINARY
B1	12	Krivelevich Michael	Israel	ORDINARY
B1	13	Laptev Ari	United Kingdom	ORDINARY
B1	14	Longo Roberto	Italy	ORDINARY
B1	16	Matomaki Kaisa	Finland	ORDINARY
B1	17	Meleard Sylvie	France	ORDINARY
B1	18	Nesterov Yurii	Belgium	ORDINARY
B1	19	Niziol Wieslawa	France	ORDINARY
B1	20	Seiringer Robert	Austria	ORDINARY
B1	21	Tschinkel Yuri	United States	FOREIGN
B1	22	Vega Luis	Spain	ORDINARY
B1	23	Viazovska Maryna	Switzerland	ORDINARY
B1	24	Zehnder Eduard	Switzerland	ORDINARY
B1	25	Ziegler Tamar	Israel	ORDINARY

<b>B2</b>		<b>Informatics (44)</b>	<b>c. Schahram Dustdar</b>	
B2	1	Chen Chang-Wen	United States	FOREIGN
B2	2	Czumaj Artur	United Kingdom	ORDINARY
B2	5	Di Renzo Marco	France	ORDINARY
B2	9	Hoefer Torsten	Switzerland	ORDINARY
B2	11	Jiao Licheng	China	FOREIGN
B2	12	Jin Yaochu	United Kingdom	ORDINARY
B2	20	Pardalos Panos	United States	FOREIGN
B2	21	Ranjan Rajiv	United Kingdom	ORDINARY
B2	22	Sagiv Shmuel	Israel	ORDINARY
B2	25	Singh Munindar	United States	FOREIGN
B2	27	Su Zhendong	Switzerland	ORDINARY

B2	29	Szpankowski Wojciech	United States	FOREIGN
B2	30	Vallecillo Antonio	Spain	ORDINARY
B2	32	Wang Jun	Hong Kong	FOREIGN
B2	36	Xu Dong	Australia	FOREIGN
B2	38	Yang Kun	United Kingdom	ORDINARY
B2	39	Yang Laurence Tianruo	Canada	FOREIGN

<b>B3</b>		<b>Physics and Engineering Sciences (51)</b>	<b>c. Pavel Exner</b>	
B3	1	Atatüre Mete	United Kingdom	ORDINARY
B3	4	Cuniberti Gianurelio	Germany	ORDINARY
B3	5	Curran Henry	Ireland	ORDINARY
B3	6	Falko Vladimir	United Kingdom	ORDINARY
B3	9	Galiotis Costas	Greece	ORDINARY
B3	10	Gao Huijun	China	FOREIGN
B3	12	Han Qing-Long	Australia	FOREIGN
B3	14	Ilday Fatih Ömer	Turkey	ORDINARY
B3	15	Jex Igor	Czech Republic	ORDINARY
B3	16	Jiang Zhong-Ping	United States	FOREIGN
B3	18	Kalinin Sergei	United States	FOREIGN
B3	19	Kang Jian	United Kingdom	ORDINARY
B3	20	Kapitaniak Tomasz	Poland	ORDINARY
B3	21	Karimi Hamid Reza	Italy	ORDINARY
B3	22	Kharzeev Dmitri	United States	FOREIGN
B3	23	Križan Peter	Slovenia	ORDINARY
B3	25	Litov Leandar	Bulgaria	ORDINARY
B3	26	Liu Derong	United States	FOREIGN
B3	27	Liu Guo-Ping	United Kingdom	ORDINARY
B3	30	Martinez-Pinedo Gabriel	Germany	ORDINARY
B3	31	Mitra Subhasish	United States	FOREIGN
B3	32	Nieminen Risto	Finland	ORDINARY
B3	34	Païdoussis Michael	Canada	FOREIGN
B3	36	Rafelski Johann	United States	FOREIGN
B3	37	Razeghi Manijeh	United States	FOREIGN
B3	38	Ritchie David	United Kingdom	ORDINARY
B3	39	Rudolf Petra	The Netherlands	ORDINARY
B3	40	Ruggeri Tommaso	Italy	ORDINARY
B3	44	Sun Zhipei	Finland	ORDINARY
B3	46	Törmä Päivi	Finland	ORDINARY

<b>B4</b>		<b>Chemical Sciences (53)</b>	<b>c. Graham Hutchings</b>	
B4	2	Armstrong Fraser	United Kingdom	ORDINARY
B4	3	Baglioni Piero	Italy	ORDINARY
B4	4	Bahnemann Detlef Werner	Germany	ORDINARY
B4	5	Bankova Vassya	Bulgaria	ORDINARY
B4	7	Beletskaya Irina	Russia	ORDINARY
B4	8	Biscarini Fabio	Italy	ORDINARY
B4	9	Bourissou Didier	France	ORDINARY

B4	10	Coperet Christophe	Switzerland	ORDINARY
B4	12	Echavarren Antonio	Spain	ORDINARY
B4	14	Gennari Cesare	Italy	ORDINARY
B4	15	George Michael	United Kingdom	ORDINARY
B4	16	Gong Jinlong	China	FOREIGN
B4	17	Grela Karol	Poland	ORDINARY
B4	19	Hashmi Stephen	Germany	ORDINARY
B4	20	Humphrey Mark	Australia	FOREIGN
B4	21	Islam Saiful	United Kingdom	ORDINARY
B4	23	Jungwirth Pavel	Czech Republic	ORDINARY
B4	26	Klymchenko Andrey	France	ORDINARY
B4	27	Kosloff Ronnie	Israel	ORDINARY
B4	28	Krylov Anna	United States	FOREIGN
B4	31	Marek Ilan	Israel	ORDINARY
B4	32	Midgley Paul	United Kingdom	ORDINARY
B4	34	Naaman Ron	Israel	ORDINARY
B4	36	Pagliariario Mario	Italy	ORDINARY
B4	37	Parvulescu Vasile	Romania	ORDINARY
B4	38	Pericàs Miquel	Spain	ORDINARY
B4	40	Rogach Andrey	Hong Kong	FOREIGN
B4	41	Schlögl Robert	Germany	ORDINARY
B4	42	Sels Bert	Belgium	ORDINARY
B4	44	Spaldin Nicola	Switzerland	ORDINARY
B4	45	Studer Armido	Germany	ORDINARY
B4	47	Tang Junwang	United Kingdom	ORDINARY
B4	48	Turner Nicholas	United Kingdom	ORDINARY
B4	51	Viñas Teixidor Clara	Spain	ORDINARY
B4	52	Williams Charlotte	United Kingdom	ORDINARY
B4	53	Winpenny Richard Eric Parry	United Kingdom	ORDINARY

<b>B5</b>		<b>Earth and Cosmic Sciences (28)</b>	<b>c. Paolo Papale</b>	
B5	1	Becker Thorsten	United States	FOREIGN
B5	3	Bonadonna Costanza	Switzerland	ORDINARY
B5	4	Chen Jianmin	China	FOREIGN
B5	5	Chen Kun-Shan	China	FOREIGN
B5	6	Conrad Clinton	Norway	ORDINARY
B5	7	Costa Antonio	Italy	ORDINARY
B5	8	Daddi Emanuele	France	ORDINARY
B5	9	Edmonds Marie	United Kingdom	ORDINARY
B5	11	Francis Jane	United Kingdom	ORDINARY
B5	12	Garrett Michael	United Kingdom	ORDINARY
B5	13	Guzzetti Fausto	Italy	ORDINARY
B5	14	Hassanizadeh Majid	The Netherlands	ORDINARY
B5	15	Hering Janet	Switzerland	ORDINARY
B5	16	Legendre Louis	France	ORDINARY
B5	17	Lohmann Gerrit	Germany	ORDINARY
B5	18	Mather Tamsin	United Kingdom	ORDINARY

B5	19	Meylan Georges	Switzerland	ORDINARY
B5	20	Nenes Athanasios	Switzerland	ORDINARY
B5	22	Pósfai Mihály	Hungary	ORDINARY
B5	23	Salje Ekhard	United Kingdom	ORDINARY
B5	24	Sobolev Stephan	Germany	ORDINARY
B5	25	Starck Jean-Luc	France	ORDINARY
B5	27	Weng Qihao	United States	FOREIGN
B5	28	Wu Fengchang	China	FOREIGN

**Class C – Life Sciences: Chair Alex Verkhratsky; Vice-chair Robert Zorec**

Sect.		Full name	Country	Membership type
<b>C1</b>		<b><u>Biochemistry and Molecular Biology (28)</u></b>	<b>c. Eva Kondorosi</b>	
C1	1	Agathos Spiros	Belgium	ORDINARY
C1	2	Aro Eva-Mari	Finland	ORDINARY
C1	3	Blume Yaroslav	Ukraine	ORDINARY
C1	4	Bullard Belinda	United Kingdom	ORDINARY
C1	5	Böckmann Anja	France	ORDINARY
C1	6	Costantino Paolo	Italy	ORDINARY
C1	7	De Reuse Hilde	France	ORDINARY
C1	8	Delarue Marc	France	ORDINARY
C1	9	Geiszt Miklós	Hungary	ORDINARY
C1	11	Jones Simon Arnett	United Kingdom	ORDINARY
C1	12	Jonjic Stipan	Croatia	ORDINARY
C1	13	Lu Zhimin (James)	China	FOREIGN
C1	14	Martin Carlos	Spain	ORDINARY
C1	15	Martínez-Salas Encarnación	Spain	ORDINARY
C1	16	Matic Ivan	France	ORDINARY
C1	17	Mazel Didier	France	ORDINARY
C1	18	Mylyharju Johanna	Finland	ORDINARY
C1	19	Naef Felix	Switzerland	ORDINARY
C1	21	O'Connell Mary Anne	Czech Republic	ORDINARY
C1	22	Parkhill Julian	United Kingdom	ORDINARY
C1	23	Plaseska-Karanfilska Dijana	North Macedonia	ORDINARY
C1	24	Plavec Janez	Slovenia	ORDINARY
C1	25	Rao Zihe	China	FOREIGN
C1	26	Serpell Louise	United Kingdom	ORDINARY
C1	27	Toncheva Draga	Bulgaria	ORDINARY
C1	28	Ule Jernej	Slovenia	ORDINARY
C1	30	van Rij Ronald	The Netherlands	ORDINARY
C1	31	Vértessy G. Beáta	Hungary	ORDINARY

<b>C2</b>		<b>Cell and Developmental Biology (10)</b>	<b>c. Crisanto Gutierrez</b>	
C2	2	Chuva de Sousa Lopes Susana	The Netherlands	ORDINARY
C2	3	Helleday Thomas	Sweden	ORDINARY
C2	5	Koonin Eugene	United States	FOREIGN
C2	6	Leyser Ottoline	United Kingdom	ORDINARY
C2	7	Santoro Maria Gabriella	Italy	ORDINARY
C2	8	Schneider Robert	Germany	ORDINARY
C2	9	Stark Alexander	Austria	ORDINARY
C2	10	ten Dijke Peter	The Netherlands	ORDINARY
C2	11	Torres-Padilla Maria-Elena	Germany	ORDINARY
C2	12	Turner Martin	United Kingdom	ORDINARY

<b>C3</b>		<b>Physiology and Neuroscience (18)</b>	<b>c. Tibor Harkany</b>	
C3	1	Adam-Vizi Vera	Hungary	ORDINARY
C3	3	Bestmann Sven	United Kingdom	ORDINARY
C3	4	Candi Eleonora	Italy	ORDINARY
C3	5	Castrén Eero	Finland	ORDINARY
C3	6	De Bono Mario	Austria	ORDINARY
C3	7	De Vries Jolanda	The Netherlands	ORDINARY
C3	8	DeFelipe Javier	Spain	ORDINARY
C3	9	Denes Adam	Hungary	ORDINARY
C3	11	Galea Elena	Spain	ORDINARY
C3	13	Ji Weizhi	China	FOREIGN
C3	14	Kalueff Alan	Russia	ORDINARY
C3	15	Kossut Małgorzata	Poland	ORDINARY
C3	16	Meijer Johanna	The Netherlands	ORDINARY
C3	17	Paterson David	United Kingdom	ORDINARY
C3	18	Shaw Christopher Edward Dennistoun	United Kingdom	ORDINARY
C3	19	Tchanturia Kate	United Kingdom	ORDINARY
C3	20	Treves Alessandro	Italy	ORDINARY
C3	21	Wisden William	United Kingdom	ORDINARY

<b>C4</b>		<b>Organismic and Evolutionary Biology (11)</b>	<b>c. Christophe Thébaud</b>	
C4	1	Bertranpetit Jaume	Spain	ORDINARY
C4	2	Fernández-Palacios José María	Spain	ORDINARY
C4	3	Hartel Tibor	Romania	ORDINARY
C4	4	Hill Jane	United Kingdom	ORDINARY
C4	5	Holm Patricia	Switzerland	ORDINARY
C4	6	Jin Li	China	FOREIGN
C4	8	Ronce Ophélie	France	ORDINARY
C4	9	Rozas Julio	Spain	ORDINARY
C4	10	Schartl Manfred	Germany	ORDINARY
C4	11	Van der Putten Wim	The Netherlands	ORDINARY
C4	12	Wei Fuwen	China	FOREIGN

C5		<b>Clinical and Veterinary Science (21)</b>	<b>c. Stephen Holgate</b>	
C5	1	Bousema Teun	The Netherlands	ORDINARY
C5	2	Cai Zhiming	China	FOREIGN
C5	3	Chambers Mary	United Kingdom	ORDINARY
C5	4	Cooper Cyrus	United Kingdom	ORDINARY
C5	5	Esteller Manel	Spain	ORDINARY
C5	6	Gallagher Anthony	Belgium	ORDINARY
C5	7	Godfrey Keith	United Kingdom	ORDINARY
C5	8	Hafsteinsdóttir Thóra Berglind	The Netherlands	ORDINARY
C5	9	Kuijpers Taco	The Netherlands	ORDINARY
C5	10	Ma Daqing	United Kingdom	ORDINARY
C5	11	Majeti Ravikumar	United States	FOREIGN
C5	12	McInnes Iain	United Kingdom	ORDINARY
C5	13	Primrose John Neil	United Kingdom	ORDINARY
C5	14	Prins Judith	The Netherlands	ORDINARY
C5	15	Roussos Charalambos	Greece	ORDINARY
C5	16	Schwartz Robert	United States	FOREIGN
C5	17	Swedberg Karl	Sweden	ORDINARY
C5	18	Toes Reinaldus Everardus Maria	The Netherlands	ORDINARY
C5	19	Wang Chen	China	FOREIGN
C5	20	Williams Graham Richard	United Kingdom	ORDINARY
C5	21	Zhang Liwei	China	FOREIGN

## **Annex 2 Trustees, 'Council', and Section Committee composition as at 31<sup>st</sup> December 2021**

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 2020 these were Professor Don Dingwell (Class Chair); Professor Poul Holm (Class Chair) Professor Bjorn Wittrock (Class Chair) and Professor Ole Petersen. 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 2021)**

Elected officers:

The President – Professor Sierd Cloetingh (Utrecht) from AGM 2014 to the end of 2021

Treasurer - Professor Vejko Milutinovic (elected at the AGM 2018) resigned in 2020, replaced by Professor Oskar Mencer (UK) as pro tem treasurer until the end of 2021

The Vice President (*officio*) – Professor Genoveva Marti to the end of 2021

Trustees

Ole Petersen (UK) co-opted (to AGM 2020), Vice president (*ex officio*), Deputy Treasurer and Academic Director, Cardiff Hub

Theo D'haen, (B) Editor-in-chief – European Review – (co-opted 2014); retires end of 2021

Poul Holm (IRL) – Class chair – Class A1 (Humanities) co-opted Vice president *ex officio*;

Don Dingwell (D) – Class Chair – Class B (Natural Sciences) co-opted Vice president *ex officio*; retires end of 2021.

Alex Verkhatsky (UK) – Class Chair – Class C (Life Sciences) co-opted retires end of 2021 {resigned in October 2021}

Bjorn Wittrock (SWE) - Class chair from January 2018 co-opted Vice president *ex officio*

Eva Kondorosi (HUN) from January 2016, co-opted

Professor Eystein Jansen (NOR) co-opted from January 2021 until the end of 2023. Academic Director of the Bergen Hub

Professor Marja Makarow elected as President-elect from January 2021 until the end of 2021, then President.

### **Academia Europaea - Composition of the Advisory Council (at 31 December 2021)**

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 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 2021

#### **A CLASS A1**

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

**Vice-chair: Professor Göran Bolin, Sweden [Goran.bolin@sh.se](mailto:Goran.bolin@sh.se)**

#### **A1 History & Archaeology**

Chairperson2: Nikita Harwich Vallenilla (until December 2022 not renewable)<sup>4</sup>

[harwich.nikita@noos.fr](mailto:harwich.nikita@noos.fr)

University of Paris X-Nanterre, 35 Rue de Noailles, 78100 Saint-Germain-en-Laye, France

Committee: Amalia Polónia, (till end 2022 Section chair from Jan 2023); Olga Katsiardi-Hering (till end 2022), Korine Amacher (till end 2022, renewable); Maxine Berg (till end 2022, renewable), Leonard Blusse van Oud Alblas (till end 2022, renewable); Markus Denzel (till end 2022, renewable); Bogdan Szlachra (till end 2022, renewable); Manuel Lucena-Giraldo (till end 2022, renewable)

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

Chairperson: Gerd Haverling (to end of 2022, renewable)

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University of Uppsala, Dept. of Linguistics & Philology

Committee: Barbara Borg (till end 2022), Eun-Jeung Lee (till end 2022), Alexander Lubotsky (till end 2022), Gianfranco Agosti (till end of 2021, renewable), Alessandro Bausi, (to end of 2021, renewable), Alexander Vovin (to end of 2021, renewable), Irmela Hijija-Kirschner (to end 2022, renewable)

### **A3 Linguistic Studies**

Chairperson: Pier Marco Bertineto (till end 2022, renewable).  
bertineto@sns.it  
SNS, Pisa, Italy  
<http://linguistica.sns.it/PaginePersonal/Bertineto.htm>

Committee : Asifa Majid Vice Chair (to end of 2023), Nigel Vincent (to end of 2023), Alain Peyraube (to end 2022, renewable), Angela Ralli, to end of 2022, renewable), Harald Baayen (to end of 2022, renewable). Katalin E. Kiss (to end of 2023, renewable)

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

Chairperson: Vladimir Biti (to end of 2021)  
vladimir.biti@univie.ac.at [http://www.ae-info.org/ae/User/Biti\\_Vladimir](http://www.ae-info.org/ae/User/Biti_Vladimir)  
University of Vienna, Institut für Slawistik, Spitalgasse 2-4, Hof 3, 1090 Vienna, Austria

Committee: César Dominguez, Vivian Liska (to end 2023), Martin Middeke (to end of 2021, renewable), Françoise Lavocat (to end of 2023, renewable). Catriona Seth (to end of 2023, renewable)

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

Chairperson: Laurenz Lütteken (till end 2022)  
University of Zurich. [luetteken@access.uzh.ch](mailto:luetteken@access.uzh.ch)  
[http://www.ae-info.org/ae/Member/L%C3%BCtteken\\_Laurenz](http://www.ae-info.org/ae/Member/L%C3%BCtteken_Laurenz)

Committee: Melanie Wald-Fuhrmann (until end of 2021, renewable), Tanja Michalsky (to end of 2022, renewable), Barbara Baert (to end of 2023 renewable), Thierry Favier (to end of 2023, renewable), Ulrich Pfisterer (to end of 2023, renewable), Caroline van Eck, Cambridge (to end of 2023, renewable).

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

Chairperson: Genoveva Martí (till end 2022)  
ICREA and Universitat de Barcelona, Departament de Filosofia, Montalegre 6, 08001 Barcelona  
[genoveva.marti@gmail.com](mailto:genoveva.marti@gmail.com)

Committee: Martin Carrier (to end of 2022, renewable), Cinzia Ferrini (to end of 2022, renewable), Margit Sutrop (to end of 2022, renewable), Timothy Williamson (to end of 2022, renewable), Alex Fidora (to end of 2022, renewable)

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: Maren Hartmann and Fausto Colombo (to end of 2020, renewable), Helena Bilandzic (to the end of 2021, renewable), Gustavo Cardoso (to end of 2023, renewable).

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## **CLASS A2**

**Class Chair Björn Wittrock, Uppsala (Swedish Collegium). [bjorn.wittrock@swedishcollegium.se](mailto:bjorn.wittrock@swedishcollegium.se)**  
**Vice-chair: Professor Shalini Randeria, Vienna [randeria@iwm.at](mailto:randeria@iwm.at)**

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

Chairperson: Martin Kahanec (to end of 2023, renewable)  
[kahanecm@spp.ceu.edu](mailto:kahanecm@spp.ceu.edu) Central European University, Vienna, and Central European Labour Studies Institute (CELSI, Bratislava)

Committee: Amelie Constant, Mirjana Radovic-Markovic, Reinhilde Veugelers (all to end of 2021), Andreu Mas-Colell (to end of 2022, renewable), Martin Kahanec (to end 2022, renewable), Klaus Zimmermann (to end of 2023, renewable)

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

Chairperson: Peter Scott (to June 2022)- extended to June 2022  
[p.scott@ioe.ac.uk](mailto:p.scott@ioe.ac.uk) <https://www.ioe.ac.uk/staff/51229.html>  
University of London, Institute of Education, 20 Bedford Way, London WC1H 0AL, UK

Committee: Johan P. Mackenbach, (to end 2022), Pauli Kettunen (to end of 2022, renewable), Archana Singh-Manoux (to end of 2022)

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

Chairperson: Maria Paradiso (to end 2023)  
[maria.paradiso@unimi.it](mailto:maria.paradiso@unimi.it)  
Department DEMM of Social Sciences. Geography Unit. University of Sannio, Piazza Arechi II, 82 - 82100 Benevento, Italy

Committee: Sture Öberg (to end 2022), Leo van Wissen (until end of 2022, renewable), Michael Keating (to end of 2022, renewable), Benno Werlen (until the end of 2022, renewable), Tovi Fenster (until end of 2024, renewable), Jennifer Robinson (until end 2024, renewable)

#### **A11 Law**

Chairperson: Nina Dethloff (to end 2022, renewable)  
dethloff@uni-bonn.de  
Faculty of Law, University of Bonn

Committee: Rosa Greaves (until end 2022), Dagmar Coester-Waltjen Vice Chair (until end 2022), Marit Jäntärä- Jareborg (to end of 2022, renewable), Christina Gonzales-Beilfuss (to end of 2022, renewable), Dieter Gosewinkel (until end of 2022, renewable); Tatjana Josipović (until end of 2023, renewable). Rianne Letschert (until end of 2023, renewable). Christopher Thornhill (to end of 2023, renewable)

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

Chairperson: Peter Wagner (to end of 2022, renewable)  
Peter.Wagner@ub.edu  
Catalan Institute for Research and Advanced Studies, Barcelona

Committee: Wolfgang Knöbl (to end of 2022, renewable), Lars Magnusson (to end of 2022, renewable), Marilyn Strathern (to end of 2021, renewable)

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

Chairperson: Jüri Allik (to end of 2022, renewable)  
juri.allik@ut.ee  
Dept. Psychology, Tartu, Estonia

Committee: Kimmo Alho (to end of 2022, renewable), Gian Vittorio Caprara (to end of 2022), Kurt Pawlik (to end of 2022), Mara Dierssen (to end of 2023, renewable)

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#### **CLASS B**

**Class Chair: Don Dingwell, LMU, Munich to end of 2021.** Then Paolo Papale (from 1 January 2022 until end of 2024, renewable once)

paolo.papale@ingv.it  
Istituto Nazionale di Geofisica e Vulcanologia, Italy

#### **B1 Mathematics**

Chairperson: Philippe Michel (to end of 2022, renewable)  
philippe.michel@epfl.ch  
Ecole Polytechnique Federale de Lausanne

Committee: Jean-Benoît Bost (to end 2021, renewable), Martin Hairer (to end 2021, renewable), (Volker Mehrmann (to end 2021, renewable), Amie Wilkinson (to end 2022, renewable), Maria Esteban (to end 2022, renewable), Karen Vogtmann (to end of 2024, renewable).

#### **B2 Informatics**

Chairperson: Schahram Dustdar (until end 2022)  
dustdar@dsg.tuwien.ac.at  
TU Wien, Distributed Systems Group, Argentinierstrasse 8, 1040 Vienna. Austria

Committee: Manuel Hermenegildo (to end of 2021, renewable), Onur Mutlu (to end of 2021, renewable), Erol Gelenbe (to end of 2021, renewable), Wil van der Aalst (to end of 2023, renewable), Rajiv Ranjan (until end of 2024, renewable)

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

Chairperson: Pavel Exner (until end of 2024)  
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), Elvira Fortunato (to end of 2023, renewable), 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)

#### **B4 Chemical Sciences**

Chairperson : Graham Hutchings (to end 2022)  
hutch@cf.ac.uk  
Cardiff Catalysis Institute, School of Chemistry, Cardiff University Cardiff, CF10 3AT UK

Committee: Carmen Claver (to end of 2022), Janine Cossy (to end of 2022), Joachim Sauer (to end of 2022), Bert Weckhuysen (to end 2022), Valentine Ananikov (to end of 2022, renewable), Ulrike Diebold (to end of 2023, renewable, new chair from Jan 2023)

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

Chairperson: Mike Burton (to end of 2024, renewable)

mike.burton@manchester.ac.uk

School of Earth and Environmental Sciences, University of Manchester, UK

Committee: Tuija Pulkkinen (till end 2021), John Ludden (till end 2021), Gerald Gilmore (till end of 2023), Todd Ehlers (till end 2022, renewable)

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### **CLASS C**

**Class Chair, Eva Kondorosi (to end of 2024, renewable once) 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

John Innes Centre, Norwich, UK

Committee : Witold Filipowicz (to end 2022), Brigitte GICQUEL (to end of 2023, renewable), Annalisa PASTORE (to end of 2023, renewable), Mart SAARMA (TO END OF 2023, renewable)

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

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

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](https://www.ae-info.org/ae/Member/Gutierrez_Crisanto)

Committee: Meinrad Busslinger (to end of 2022), Austin Smith (to end 2022), Christine Mummery (to end of 2024), Maria-Elena Torres-Padilla (to end of 2024, renewable), Ivan Dikic (to end of 2024, renewable)

### **C3 Physiology and Neuroscience**

Chairperson: Balazs Gyulas (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

Committee: Alfonso Araque (till end 2021), Robert Zorec (until 30 June 2022), Riitta Salmelin (till 30 June 2022), Barbara Franke (till 30 June 2022), Dmitri Rusakov (to end 2022, renewable), Alexey Semyanov (until the end of 2023, renewable), Michaela Matteoli (until end of 2023, renewable), Karin Sipido (until end of 2024, renewable), Zaal Kokaia (until end of 2024, renewable).

### **C4 Organismic and Evolutionary Biology**

Chairperson: Christophe Thébaud (To end 2022)

christophe.thebaud@univ-tlse3.fr

UMR 5174 CNRS 'Evolution et Diversité Biologique', Université Paul Sabatier, 31 062 Toulouse cedex 4, France

Committee: Per Ahlberg (to end of 2022, renewable); Dianne Edwards (to end 2022, renewable), Andras Baldi (to end 2022, renewable); Louise Fresco (to end 2022, renewable); Mike Hassell (until end 2022, renewable). Richard Bardgett (to end 2022, renewable)

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

Chairperson: Peter Hegyi (To end 2024, renewable)

hegyi2009@gmail.com

Semmelweis University, Budapest

Committee: Christopher Griffiths (until end 2022), Paul Matthews (until end 2022), Richard Frackowiak (until end 2022)

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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



## 2021 Annual Report of Activities



## 2021 ANNUAL REPORT OF ACTIVITIES

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# 2021 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.

The AE-BKH office is located at the Institute for Catalan Studies (IEC) in downtown Barcelona. Its staff consists of: an Academic Director, Prof. Ricard Guerrero; a Hub Manager, Kimberly Katte; and a Communications Manager, Rubén Duro. AE-BKH's partners are the Barcelona City Council and the Government of Catalonia (Universities and Research Secretariat).

### 1.2 Annual programming in 2021

2021 was the second year of annual programming marked by the COVID-19 pandemic. In spite of numerous challenges, the AE-BKH successfully carried out its activities, either by moving them to an all-virtual environment, reducing the capacity of in-person attendance, or combining the use of virtual tools with limited in-person attendance in a 'hybrid' format (such as the Building Bridges 2021 conference, described in point 1.3). As in previous years, the pillars of its annual programming featured educational and social outreach events open to the general public:

- AE-BKH Women's Week 2021, "(Dis)lodged women: theories of domestic spaces and subjectivity"
- Concert, "East-West: a Dialogue Among Souls," part of the "Music in the Cloister" series
- *Disputatio of Barcelona 2021*: "Mental health and pandemics: burden and resilience."

### 1.3 Building Bridges 2021

Following its cancellation in 2020 due to COVID-19, the 32nd Annual Conference of Academia Europaea (AE) and 10th of the Young Academy of Europe (YAE), was hosted by the AE-BKH at the Barcelona Biomedical Research Park (PRBB) on 20-21 October. The plenary programme, featuring leading international scholars from a wide variety of academic disciplines, was presented in a new 'hybrid' format that enabled virtual attendance in addition to in-person attendance; a total of 329 attendees (55 in-person, 274 virtual) representing 41 different countries were present. Prior to the plenary programme in Barcelona on 20-21 October, the four Classes comprising AE held their respective preconference meetings in an entirely virtual environment, highlighting keynote presentations by renowned experts and presentations by Members of the AE Class of 2020.

### 1.4 Hypatia Prize

On June 1, 2021, the Barcelona Hypatia European Science Prize in its second edition (Life and Health Sciences) was presented to Ilaria Capua, Italian virologist and Director of the One Health



Center of Excellence at the University of Florida in the Gothic Saló de Cent (Barcelona City Council's Main Hall), in front of city officials, representatives from Barcelona's scientific community and Academia Europaea (AE) Members. Also on the occasion of the prize ceremony, a recorded interview with Prof. Capua was conducted by AE-BKH Manager Kimberly Katte on the Living Terrace of the Natural Science Museum of Barcelona, and an institutional visit to the Barcelona Biomedical Research Park with city officials and local scientists was arranged.

### 1.5 Special projects

In 2021, the AE-BKH developed three special projects in collaboration with key partner institutions:

- Collaboration on the Barcelona Science Plan 2020-2023, launched by the Barcelona City Council as a science and university policy with the goal of turning Barcelona into a European capital for research and innovation.
- Co-organisation of "City Unfinished", within the framework of +Biennial
- Co-organisation of "Cooperation, an Evolutionary Force. Lynn Margulis, 10 years later."

### 1.6 Web communications, social media and digital content

Finally, given the extensive use of online platforms during 2021 to keep its activities accessible during the COVID-19 pandemic, the AE-BKH witnessed an especially strong growth in the audiences reached through its on-line communication tools and social media platforms. In particular, its websites, Facebook and Twitter accounts and 'Barcelona-in-Action' digital archive saw a large increase in user activity, in particular, near the dates of the Building Bridges 2021 conference.

In conclusion, despite facing numerous challenges during 2021 on various levels, the AE-BKH managed to maintain the overall quantity and quality of its programming. The activities carried out position our Hub for continued growth in 2022, which we hope will move us a step closer to recovering normalcy.

**Ricard Guerrero**, Academic Director

**Kimberly Katte**, Hub Manager

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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 2021.

### 2.2 Mission and Vision

#### The AE- Barcelona Knowledge Hub

- 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**.

While most activities organised by the AE-BKH have, during its early history, take place in Barcelona, an increasing number of activities has taken place in cities in Spain. This is reflected in the information gathered in the present annual report.

- History and main objectives

In 2012, the Government of Catalonia (*Generalitat de Catalunya*), the Barcelona City Council (*Ajuntament de Barcelona*) and the "la Caixa" Banking Foundation (*Fundació Bancària "la Caixa"*) created the Barcelona Knowledge Hub (from then on, AE-BKH) to promote activities of the AE in southern Europe and the Mediterranean region. In 2013, the AE-BKH began its operations and held its first activities, many of which have, over time, become staples in its annual programming, such as Women's Week and the *Disputatio* of Barcelona (see corresponding sections).

The Government of Catalonia and the Barcelona City Council have remained partners of the AE-BKH since its foundation, while the Institute for Catalan Studies (IEC) houses and supports the Hub's office within its central headquarters located in the old city, holding historical ties with local medical and scientific institutions.



- **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 IEC, a mid-17th century historical building very conveniently located in the centre of the city of Barcelona. Since August 2014, Prof. Ricard Guerrero of the UB, Emeritus, and Adjunct Professor of the University of Massachusetts-Amherst, serves as Academic Director. In 2021, Kimberly Katte continued to serve as Hub Manager, overseeing the daily operations of the Hub and planning and implementation of activities, while Rubén Duro continued to manage the website, digital content, social media, and the audio-visual section (i.e., AE-BKH “Barcelona in Action” Video Channel).

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### 3. ANNUAL PROGRAMMING IN 2021

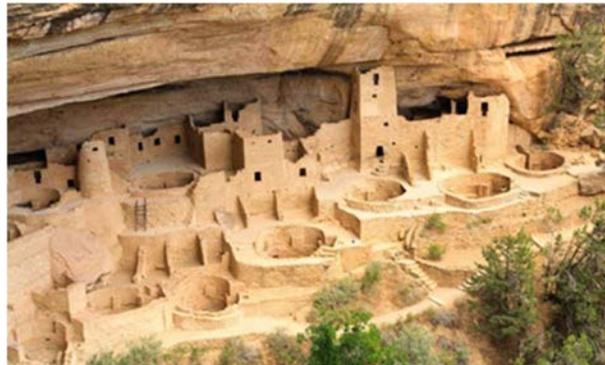
#### 3.1 AE-BKH WOMEN'S WEEK 2021 (11 MARCH)

##### (Dis)lodged women: theories of domestic spaces and subjectivity

On March 11th, the Barcelona Knowledge Hub of Academia Europaea (AE-BKH) celebrated **AE-BKH Women's Week 2021**, in commemoration of UN International Women's Day, and in collaboration with the UNESCO Chair on Women, Development and Cultures. In line with similar celebrations around the world, AE-BKH Women's Week serves, on the one hand, to recognise the important contributions made by women to different fields of human knowledge, and, on the other, to claim women's rights and promote gender equality.



This year's edition, the ninth since the series began in 2013, the same year that the Hub opened, helped consolidate the initiative as one of the main pillars of the AE-BKH's annual programming. Featuring a new collaboration with the UNESCO Chair on Women, Development and Cultures and the University of Barcelona (UB), the all-virtual event was entitled "**(Dis)lodged women: theories of domestic spaces and subjectivity**" and took place (in Catalan) on March 11, 2021.

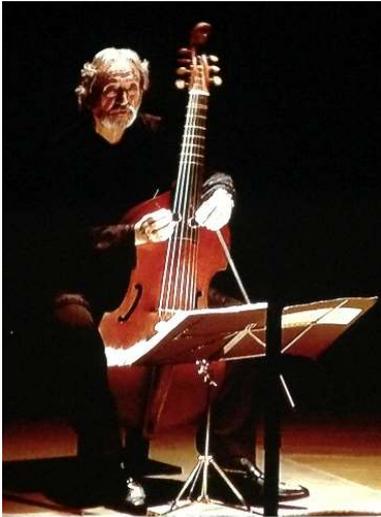


*Photo: Mesa Verde National Park, Xander Folmer  
(Huginn's Heathen Hof LLC)*

Coordinated by **Mònica Rius Piniés**, Director of the aforementioned UNESCO Chair, it began with a conversation between professors **Rodrigo Andrés** and **Cristina Alsina**, members of the UB research group, Troubling Houses: Dwellings, Materiality, and the Self in American Literature. Popular literary topics such as domestic spaces, power, belonging, subjectivity, confinement and gender were then discussed as a mirror of contemporary society, during the debate portion that followed.

### 3.2 CONCERT, “EAST-WEST: A DIALOGUE AMONG SOULS” (12 JUNE 2021)

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Jordi Savall. (Photo credit: FÁWá, CC BY-SA 4.0 <<https://creativecommons.org/licenses/by-sa/4.0/>>, via Wikimedia Commons).

On June 12, 2021, AE-BKH collaborated with the Institute for Catalan Studies (IEC) on a special concert featuring world-renowned musician **Jordi Savall**, “**East-West: a Dialogue Among Souls**”, organised by the IEC within the framework of the series, Music in the Cloister 2021.

**Jordi Savall**, on rebab, soprano viola de gamba and rebec, accompanied by percussionist **Pedro Estevan**, invited attendees on a historical and cultural journey exploring the relationships and dialogue among different musical styles native to different cultures in the Mediterranean region, as well as certain musical traditions dating back to medieval times. Anthropological and musicological research has shed new light on how the relationships among these cultures have created the foundation for the development of present-day music in Catalonia and beyond.

More information, including the programme and artist biographies, can be found at <http://barcelona.acadeuro.org/home/annual-programming/music-in-the-cloister/east-west-a-dialogue-among-souls/>

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### 3.3 DISPUTATIO OF BARCELONA 2021

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An annual activity of the Academia Europaea-Barcelona Knowledge Hub

#### “Mental health and pandemics: burden and resilience.”

While the COVID-19 pandemic is considered an important burden for mental health systems worldwide, it also serves as an unprecedented global experiment that provides unique opportunities for understanding genetic pathways shared between infectious disease and neurodegeneration, as well as for studying the predictors and mechanisms of increased resilience to dementia on both individual and societal levels.

In this context, AE-BKH held its *Disputatio of Barcelona 2021* entitled, “**Mental health and pandemics: burden and resilience**,” on Wednesday, December 1, 2021, at the Institute for Catalan Studies (IEC). With the goal of providing an invaluable dialogue among expert scientists on the relationship between mental health and pandemics, the session sought to find consensus on priorities and possible paths forward. Serving as the two *disputantes* for the debate were: **Arcadi Navarro**, MAE, ICREA Research Professor at Pompeu Fabra University and Director of the Pasquall Maragall Foundation, Barcelona; and **Eider Arenaza-Urquijo**, Research Team Leader at the BarcelonaBeta Brain Research Center, Barcelona. **Ricard Guerrero**, MAE, AE-BKH Academic Director, introduced the disputantes and directed questions from the audience to them.

Dr. Navarro began by offering an overview on current research on how COVID-19 may trigger degenerative effects leading to cognitive impairment and even AD symptoms, outlining the main questions that researchers are attempting to answer. Dr. Arenaza-Urquijo, for her part, offered interesting results from ongoing research on how the brain builds resilience against ageing, stress and other risk factors for Alzheimer's disease. Both *disputantes* highlighted the urgency to promote mental health and stress resilience as a means of promoting healthy ageing, notably in the context of pandemics. The role of vaccines was also featured as an important player in improving mental health outcomes.



*Disputatio of Barcelona 2021.*  
From left to right: Arcadi Navarro, Ricard Guerrero and Eider Arenaza-Urquijo.

A video recording of the debate is available on YouTube at <https://youtu.be/JUVdvptZVo> . For more information, please visit: <http://barcelona.acadeuro.org/home/annual-programming/disputatio-of-barcelona/disputatio-of-barcelona-2021/>

### 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.

The nine editions of the modern-day *Disputationes* organised by the AE-BKH have covered a wide variety of topics in the exact, natural and social sciences, following a similar format consisting of a brief exposition by each of the two *disputantes*, followed by questions (total duration between 90 and 120 minutes). As is tradition, the two invited *disputantes* will interact with the audience, comprised of members of the local academic community.

## 4. “BUILDING BRIDGES 2021”, THE 32th AE ANNUAL CONFERENCE

### Highlights from Building Bridges 2021



AE President Sierd Cloetingh during the closing of BB2021 at the PRBB.

AE-BKH is pleased to have hosted the AE 32nd Annual Conference and the 10th of the Young Academy of Europe (YAE), **Building Bridges 2021**, bringing together a total of 329 experts (55 on-site delegates and 274 virtual delegates) representing 41 different countries and a wide variety of academic disciplines. Following the cancellation of the 2020 conference due to COVID-19, this year's conference took place in a new hybrid format featuring activities conducted on-site at the Barcelona Biomedical Research Park (PRBB) and online. Furthermore, the event marked the last annual conference for AE President **Sierd Cloetingh** (Utrecht University), who steps down at the end of 2021 after leading the academy for seven years.

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.

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

### 4.1 CLASS MEETINGS (VIRTUAL), 14-18 OCTOBER

Prior to the plenary programme in Barcelona on 20-21 October, the four Classes comprising AE held their respective preconference meetings in an entirely virtual environment, highlighting keynote presentations by renowned scholars and presentations by Members of the AE Class of 2020. Class A1-Humanities, chaired by **Poul Holm** (Trinity College Dublin), and Class A2- Social and Related Sciences, chaired by **Björn Wittrock** (Uppsala University and Swedish Collegium for Advanced Study), held a joint meeting on 14 October, organised by the AE Bergen Knowledge Hub and featuring historian and 2006 Balzan Prize winner **Quentin Skinner** (Queen Mary University of London). Then, Class B- Exact Sciences, chaired by **Donald Dingwell** (Ludwig-Maximilians-University Munich), conducted its meeting on 15 October, organised by the AE Munich Knowledge Hub and featuring a talk on recent missions to Mars by seismologist and earth scientist **Domenico Giardini** (ETH Zurich). Finally, Class C- Life Sciences, chaired pro tem by **Eva Kondorosi** (Biological Research Centre, Szeged), carried out its online meeting on 18 October from the Barcelona Knowledge Hub facilities. This meeting was organised by the Cardiff Knowledge Hub and featured a talk on mRNA therapies by **Katalin Kariko** (University of Pennsylvania).

### 4.2 PLENARY CONFERENCE (IN-PERSON AND VIRTUAL), 20-21 OCTOBER

The AE sessions comprising the Building Bridges 2021 plenary programme in Barcelona on 20-21 October highlighted leading international academic figures, including: physicist Sir **Roger Penrose** (Oxford University), recipient of the 2020 AE Erasmus Medal (laudation given by Astronomer Royal Lord **Martin Rees** (University of Cambridge)); **Ole Petersen** (Cardiff University), AE Vice-President and recipient of the AE Gold Award; **Susan Trombore** (Max Planck Institute for Biogeochemistry),



expert on carbon cycle processes and 2020 Balzan Prize Winner; **Quentin Skinner** (Queen Mary University of London), historian of modern political thought and 2006 Balzan Prize Winner; **Mara Dierssen** (Centre for Genomic Regulation), cellular and systems neurobiologist; and **Donald Dingwell**, (Ludwig-Maximilians-University Munich), volcanologist. Following a period marked by COVID-19, the aforementioned plenary programme combined on-site and online lectures delivered live with a limited number of prerecorded lectures as a step forward towards regaining normalcy in the programming offered by Academia Europaea.

The YAE, for its part, contributed toward the plenary programme with the André Mischke YAE Prize 2021 for Science and Policy, awarded to **Marian Verhelst** (KU Leuven), who has worked to promote the participation of girls and women in STEM fields (science, technology, engineering and mathematics); **Arild Husby** (Uppsala University) provided the corresponding laudation. Also, a panel of experts, convened by YAE Chair **Gemma Modinos**, discussed redefining academic recognitions, which included: **Michael Murphy** (European University Association); **Konstantinos Glinos** (Unit for Open Science, European Commission); **Rebecca Lawrence**, F1000Research; and **Moniek Tromp** (University of Groningen).

More information on Building Bridges 2021, including a link to the corresponding gallery of photos, is available at <http://barcelona.acadeuro.org/home/building-bridges/building-bridges-2021/> (Videos will be added soon.)



## 5. HYPATIA PRIZE

### 5.1 AWARD CEREMONY, BARCELONA HYPATIA EUROPEAN SCIENCE PRIZE, 2ND EDITION, LIFE & HEALTH SCIENCES (1 JUNE 2021)



*From left to right:* Joan Subirats and Júlia Miralles, Barcelona City Council; Ilaria Capua, Hypatia Prize winner; and Kimberly Katte and Ricard Guerrero, AE-BKH.

On June 1, 2021, the **Barcelona Hypatia European Science Prize** in its second edition (**Life and Health Sciences**) was presented to **Ilaria Capua**, Italian virologist and Director of the One Health Center of Excellence at the University of Florida in the Gothic *Saló de Cent* (Barcelona City Council's Main Hall), in front of city officials, representatives from Barcelona's scientific community and Academia Europaea (AE) Members.

Presided by Joan Subirats, Deputy Mayor for Culture, Education, Science and Community, the ceremony also featured a previously recorded message by AE President **Sierd Cloetingh**. **Lluís Ferrer**, Chair of the Scientific Advisory Council for the Barcelona Science Plan

2020-2023, introduced Prof. Capua, who delivered a lecture entitled, "**Circular Health: capitalizing on the One Health concept to meet post-pandemic needs**", in which she identified how big data can be harnessed to facilitate a systemic approach to health while improving sustainability.

The Barcelona Hypatia European Science Prize in its second edition was awarded to Prof. Capua for her contributions to science policy and leadership in the promotion of open access to genetic information on emerging viruses, and for the social impact that she has made through her contributions to the multidisciplinary concept of "one health". Prof. Capua has taken this concept one step further by identifying how big data technology can be harnessed for the benefit of "circular health" to co-advance human and planetary health.

The five members comprising the selection jury were: **Eva Kondorosi**, Jury President and Member of the Board of Trustees of Academia Europaea; **Ricard Guerrero**, Jury Secretary; **Paola Bonfante**, **Lluís Ferrer**, and **Cristina Pujades**.

#### About the Hypatia Prize

The Barcelona Hypatia European Science Prize is awarded by the Barcelona City Council in collaboration with the AE-BKH. Part of the Barcelona Science Plan, which seeks to boost the city of Barcelona as a European capital of science, the prize, in the amount of 30,000 euros, recognises an outstanding researcher who has conducted her/his career primarily in Europe and at the highest international level, with a strong influence on various fields of knowledge and a positive impact on society.





Candidates for the Hypatia Prize must be nominated by a Member of the Academia Europaea (MAE) (Nominator 1), from any Section, and must have the support of an additional MAE (Nominator 2), also from any Section. Nominator 1 can propose only one candidate. The two nominating MAEs must be from different countries. Although nominators must be MAEs, the candidate does NOT have to be a MAE, nor a native of a European country, but she/he must have developed her/his career mostly in Europe.

The Hypatia Prize follows a three-year cycle and rotates each year among three major areas of knowledge: a) Science and Technology, b) Life and Health Sciences, c) Humanities and Social sciences, as reflected in the current sections of the AE and in the different areas of the European Research Council (ERC).

The first edition of the prize, in the area of Science and Technology, was awarded to mathematician **László Lovász**, Professor at Eötvös Loránd University in Budapest, Hungary; in 2021, Prof. Lovász was named Abel Prize Laureate by the Norwegian Academy of Science and Letters. The winner of the second edition of the prize, centred on Life and Health Sciences, is Italian virologist **Ilaria Capua**, as explained above, while the winner of the third edition, focused on the Humanities and Social Sciences, will be announced in early 2022.

## 5.2 VIDEO RECORDING OF INTERVIEW WITH HYPATIA PRIZE WINNER ILARIA CAPUA AND INSTITUTIONAL VISIT TO THE BARCELONA BIOMEDICAL RESEARCH PARK (PRBB)

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An oral interview with virologist **Ilaria Capua**, winner of the second edition of the Barcelona Hypatia European Science Prize (second edition, Life and Health Sciences), was conducted by AE-BKH Manager **Kimberly Katte** on the Living Terrace of the Natural Science Museum of Barcelona, on May 31, 2021. In it, Capua reveals her views on circular health, pandemics, women in science, data sharing and interdisciplinarity.

A video recording of the interview if available on YouTube in the Hypatia Prize Video Gallery: [http://barcelona.acadeuro.org/home/barcelona-in-action-digital-archive/video\\_gallery/hypatia-prize-video-gallery/](http://barcelona.acadeuro.org/home/barcelona-in-action-digital-archive/video_gallery/hypatia-prize-video-gallery/).

Also on the occasion of the prize, an **institutional visit** to the **Barcelona Biomedical Research Park** with city officials and local scientists was arranged.

## 5.3 CALL FOR NOMINATIONS, 3RD EDITION, HUMANITIES AND SOCIAL SCIENCES, AND SELECTION BY THE INTERNATIONAL JURY

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The **Call for Nominations** for the 3rd Edition of the **Barcelona Hypatia European Science Prize**, in the area of **Humanities and Social Sciences**, opened on July 8, 2021, and closed on September 30, 2021. 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.

The International Jury responsible for the evaluation and selection of candidates convened on December 3, 2021, once nominations had been validated for compliance with eligibility criteria.

The jury is composed of five academic members proposed by Academia Europaea and by the Barcelona City Council, as follows: **Björn Wittrock** (President), Professor Emeritus at Uppsala University and Founding Director and Permanent Fellow at the Swedish Collegium for Advanced Study, Sweden, who in addition serves as AE Vice-President ex officio and Chair of Class A2 (Social and Related Sciences); **Genoveva Martí** (Member), ICREA Research Professor at the University of Barcelona, Vice-President of AE, Member of AE Class A1 (Humanities) and Chair of the Section devoted to Philosophy, Theology and Religious Studies; **Alexander Fidora** (Member), ICREA Research Professor at the Universitat Autònoma de Barcelona and Member of the AE Class A1 (Humanities); **Maria Dolors Garcia-Ramon** (Member), Professor Emeritus at the Universitat Autònoma de Barcelona and Member of AE Class A2 (Social and Related Sciences); and Ricard Guerrero (Secretary), Academic Director of AE-BKH.

The winner of the Hypatia Prize will be announced in early 2022, with the prize ceremony set to take place at the Barcelona City Council headquarters within the first trimester.

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## 6. SPECIAL PROJECTS DURING 2021

### 6.1 COLLABORATION ON THE BARCELONA SCIENCE PLAN 2020-2023



The AE-BKH continues to collaborate with one of its supporters, the Barcelona City Council, on the implementation of the Barcelona Science Plan 2020-2023, a comprehensive science policy developed in conjunction with representatives from Barcelona's research and innovation ecosystem, with the aim of projecting Barcelona as a European capital of science and innovation. Launched in March 2020 just days before the COVID-19 pandemic broke out, the plan was expanded in 2021 to position science at the forefront of Barcelona's post-pandemic recovery.

The plan is built on four main axes: projection of Barcelona as a European capital of science; municipal support for research to tackle urban challenges; promotion of citizen participation in science; and relationships among science, art, innovation and society. The plan lays out 15 specific objectives and 51 actions, with the Barcelona Hypatia European Science Prize (see Section 5), representing one of those actions.

Also within the framework of the Barcelona Science Plan, in 2021 the Barcelona City Council celebrated its second "City and Science" Biennial on June 8-13, with the goal of bridging science and society through nearly a week of activities, including debates, exhibits, workshops, lectures and performances. This edition focused on the limits of knowledge and science, divided into nine different thematic sections, each led by a curator or expert. Of special interest was the section that explored The Future of Humanity, directed by Ricard Solé, Member of Academia Europaea and ICREA Research Professor at the Universitat Pompeu Fabra. With Barcelona as World Capital of Sustainable Food 2021, another section was devoted to the development of sustainable food systems.

For its part, AE-BKH organised an activity as part of +Biennial (see Section 6.2), a programme of complementary activities held at different venues throughout Barcelona; details will be announced later this spring.

## 6.2 +BIENNIAL: “CITY UNFINISHED”



From left to right: Bettina Bremme, Kathrin Golda-Pongratz and Zaida Muxí.

On June 15, 2021, the AE-BKH held a screening of the documentary, *Ciudad Infinita – Voces de El Ermitaño* (Lima, 2018), in the auditorium of the **Goethe-Institut Barcelona**, followed by a debate on the main topics of the film: public space, community building, housing, memory and identity.

The debate, moderated by journalist and author **Bettina Bremme**, with the participation of architect and urban planner **Zaida Muxí** and urban researcher and *Ciudad Infinita* film director **Kathrin Golda-Pongratz**, MAE, provided thought-provoking insight into the role of public space and housing

in the construction of identity in different cultures, including our own. In this sense, the self-built neighbourhood of *El Ermitaño*. Lima, Peru, provides ideas for incentivising similar initiatives aimed at improving and consolidating neighbourhoods and communities.

This event, which was also streamed live, was featured as part of +Biennial, a programme of complementary activities held at different venues throughout Barcelona, following the conclusion of the second “City and Science” Biennial (June 8-13, 2021), organised by the Barcelona City Council.

## 6.3 "COOPERATION, EVOLUTIONARY FORCE. LYNN MARGULIS, 10 YEARS LATER"

In commemoration of the tenth anniversary of her passing, between October and December 2021 the AE-BKH co-organised, alongside numerous academic and cultural institutions from Spain, a series of more than twenty activities celebrating renowned biologist Lynn Margulis (1938-2011) and her theory of endosymbiosis, which helped advance evolutionary biology in the late twentieth century.



“**Cooperation, evolutionary force. Lynn Margulis, 10 years later**” consisted of round tables, lectures, film screenings and an exhibit of texts and photographs, held between 13 October and 3 December 2021, at a number of different venues, including the Contemporary Culture Centre of Barcelona (CCCB), CosmoCaixa and the Marine Sciences Institute - Spanish National Research Council (ICM-CSIC).

More information, including photos, available at: <http://barcelona.acadeuro.org/home/special-projects/cooperation-evolutionary-force/>

In particular, the AE-BKH organised and co-organised four activities that deserve special mention:



1.- **“THE LEGACY OF LYNN MARGULIS”**, held on Wednesday 13<sup>th</sup>, October, at the Centre de Cultura Contemporània de Barcelona (CCCB).

The activity consisted of a conversation with Margaret McFall-Ngai, biologist, physiologist and biochemist; Ricard Guerrero, microbiologist and AE-BKH Academic Director, and Carme Puche, filmmaker and convenor.

The video-recording of this activity can be viewed on the CCCB website through this link: <https://www.cccb.org/es/multimedia/videos/margaret-mcfall-ngai-ricard-guerrero-y-carme-puche/237410>.



2.- **“EXHIBITION OF PHOTOGRAPHS AND TEXTS BY LYNN MARGULIS”**, from Monday 15<sup>th</sup>, November, until Sunday 28, November, at the hall of the Marine Sciences Institute (ICM-CSIC), Barcelona. The curator of this exhibition was Carmen Chica, collaborator of the AE-BKH. Organised by AE-BKH.



3.- **“SYMBIOSIS, EVOLUTIONARY FORCE”**, held on Monday 22<sup>nd</sup>, November, at the Àgora Hall of the Science Museum-CosmoCaixa (Barcelona). The activity consisted of the screening of the documentary film “Symbiotic Earth. How Lynn Margulis rocked the boat and started a scientific revolution”, by John Feldman (60’), and a round table with Eva Barreno (University of Valencia), Iñaki Ruiz-Trillo (Institute of Evolutionary Biology CSIC-UPF), Ricard Guerrero (AE-BKH) and Begoña Vendrell (ICM-

CSIC). The round table was conducted by scientific journalist Pere Estupinyà. Co-organised by “La Caixa” Foundation (CosmoCaixa) and the AE-BKH. During this activity, Prof. Eva Barreno (University of Valencia) presented a new species of symbiotic alga of the genus *Trebouxia*, dedicated to Lynn Margulis. The new species has been named *Trebouxia lynnae* Barreno, 2021.



4.- **“GEOMICROBIOLOGY OF A GAIAN SYSTEM: THE DEEP SUBSOIL”**, held on Friday 3<sup>th</sup>, December, at the Institut de Ciències del Mar ICM-CSIC (Barcelona). The activity consisted in the lecture by Ricardo Amils, MAE, Professor Emeritus of the Autonomous University of Madrid (UAM) and researcher at the Centro de Astrobiología (CAB.INTA-CSIC), with the presentation by Ricard Guerrero, MAE, microbiologist and academic director of the Barcelona Knowledge Hub

of the Academia Europaea. Co-organised by the ICM-CSIC and the AE-BKH.

The video-recording can be seen on the ICM-CSIC YouTube Channel through this link: s activity, Prof Eva Barreno <https://www.youtube.com/watch?v=8wXxYiftQ>



## 7. WEB COMMUNICATIONS, SOCIAL MEDIA AND DIGITAL CONTENT

The Barcelona Knowledge Hub of the Academia Europaea (AE-BKH) devotes special attention to its web communications, 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.

During 2021, the AE-BKH was exceptionally active in this area, as restrictions on in-person activities due to COVID-19 equated with an **increase in on-line activities**.

As in the past, scientific communications specialist Rubén Duro continued to serve the Hub as web-master and manager of digital content, social media, and web communications.

### 7.1 WEB COMMUNICATIONS

The AE-BKH manages the following websites to communicate information about its activities:

#### **AE-BKH institutional website, [barcelona.acadeuro.org](http://barcelona.acadeuro.org)**

In early 2021, the **AE-BKH** web server suffered technical problems that unfortunately resulted in a loss of historical data, such as accumulated totals of visitors and page views. Records starting on March 16, 2021, indicate that, by the end of 2021, the institutional website received a total of **7,421 new visitors**, with a total of **21,412 page views**.

During 2020, **13 new pages** were created and **261 updates** made to the AE-BKH website.

#### **Building Bridges conference website, [buildingbridges-acadeuro.org](http://buildingbridges-acadeuro.org)**

The **Building Bridges** website was again managed by external collaborator Manners Conferences & Events Barcelona, the professional conference organiser (PCO) hired for the event. After the cancellation of the conference in 2020 due to COVID-19, activity on this website resumed during 2021, in particular, between the three months prior to the conference.

### 7.2 SOCIAL MEDIA

#### **FACEBOOK PROFILES**

The AE-BKH manages two Facebook accounts:

- **Barcelona Knowledge Hub**, @ae.bkh
- **Disputatio de Barcelona**, @DisputatioBarcelona

The first one (@ae.bkh) posts information regarding all AE-BKH activities and events, while the second one (@DisputatioBarcelona) is used exclusively to provide information about the annual *Disputatio* of Barcelona. Thus, the latter has a greatly reduced level of activity as compared to the former, which is limited to the dates surrounding the event.

By the end of 2021, the two accounts together had a total of **333 followers**.

#### **TWITTER PROFILE**

The AE-BKH manages one Twitter account:



- **Academia Europaea (@ae\_barcelona)**

During 2021, the aforementioned account had received a total of **71,321 impressions**, **4,150 engagements** and **897 followers**. These data represent increases of **+100.77%**, **+558.73%** and **+7.81%**, respectively, with regards to the previous year.

The table below shows the increase in activity on the AE-BKH websites and social media accounts:

On-line impact comparison between 2020 and 2021 (Data from 1st January - 31st December 2021)				
	Indicator	2020	2021	Performance improvement
WEBSITE	Accumulated visitors	67,901	75,322	+10.99%
	Page views	1,243,339	1,264,751	+1.72%
FACEBOOK	Followers	297	333	+11.78%
	Reached	5821	6221	+6.87%
TWITTER	Impressions	35,573	71,321	+100.77%
	Engagements	630	4,150	+558.73%
	Followers	832	897	+7.81%

### 7.3 DIGITAL CONTENT

In terms of digital content, AE-BKH carries out various specific actions. The main two are:

1. **Barcelona-in-Action Digital Archive**, a repository of photographs and videos filmed and edited by AE-BKH. The **Photo Gallery** is located on the AE-BKH website server at <http://barcelona.acadeuro.org/home/barcelona-in-action-digital-archive/gallery/> , while the **Video Gallery** (with 2,800+ total views) is on the **YouTube** and **Vimeo** platforms, with links available at [http://barcelona.acadeuro.org/home/barcelona-in-action-digital-archive/video\\_gallery/](http://barcelona.acadeuro.org/home/barcelona-in-action-digital-archive/video_gallery/) .

During 2021, **3 new videos** were added to the Video Gallery, all on YouTube.

2. **BarceloNEWS**, the digital AE-BKH newsletter containing news of past and upcoming activities. This publication is also sent by e-mail several times a year to AE subscribers.

During 2021, **4 new editions** were published and distributed on-line at <http://barcelona.acadeuro.org/home/barcelona-in-action-digital-archive/documents/barcelonews/>

Given the demonstrated capacity of the on-line tools used to reach new audiences, the AE-BKH anticipates continued growth during 2022 in the area of web communications and social media.



## 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 **Institute for Catalan Studies** (IEC), provides the AE-BKH with the stability needed to undertake new activities and to plan for future growth and expansion.



The AE-BKH wishes to express its heartfelt gratitude to its partners.

<http://barcelona.acadeuro.org/>

### PARTNERS:



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# Academia Europaea Bergen Knowledge Hub

# Annual Report 2021

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## Introduction

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

Dear all,

The Bergen Hub is pleased to send out our annual report from 2021. Yet another year dominated by the effects of the pandemic.

We hope that during 2022 we will return to a new but probably different post-pandemic normality. The uneven global distribution of vaccines does however leave the majority of the global population unvaccinated, thus providing perfect conditions for new mutations of the virus. Lesson learned during the pandemic is the importance of basic research (which gave us vaccines), the key role of a just global distribution of vaccines and the importance of sharing scientific knowledge. These aspects are also at the heart of the mission of Academia Europaea and the Bergen Hub.

While writing this introduction, a new crisis is unfolding in Europe with the brutal and unprovoked Russian Government's invasion of Ukraine. UN predicts that this might be the most devastating disaster in Europe since the second world war. Research can only thrive when openness and democracy prevail, and the invasion is a major setback also for science and scholarly work. While it is necessary to express our solidarity with our Ukrainian members and Academics in general, who now have their work and livelihood shattered, it is important to also support and connect researchers in both Ukraine and Russia. Hopefully Academia Europaea can contribute to bridging understanding in a time where dangerous divides are threatening the peace and stability of our part of the world.

Despite covid restrictions, 2021 was a productive year for the hub. Amongst our activities we are proud of having produced a short film about Academia Europaea, the Bergen Hub and SAPEA. Academia Europaea has renewed its contract with the University of Bergen (UiB) providing a 4-year

prolongation of UiB hosting our Hub, thereby securing support for our Hub in the coming years. A strategy plan for our Hub has been approved by both our Steering Group and our Nordic/Baltic Advisory Board. We have organised and been partner to several events, mainly online, but also some physical meetings when the pandemic allowed this.

To highlight some of our activities: We organized a side event of the Arctic Frontiers conference on sustainable transport in the Arctic, we took active part in the Rosendal-week, a regional meeting place for industry, politics, and researchers on the green transition, and we have co-organised an online gathering of polar researchers in Norway and Estonia in collaboration with the Estonian

Academy of Sciences and the Norwegian Embassy in Tallin. We have also participated in dissemination activities for the SAPEA-report on Energy Transition in Europe and marine Plastic pollution. We were also responsible for technical and administrative support of the (online) annual class meetings for the AE classes A1 and A2.



Academic Director of the AE-Bergen Knowledge Hub, Eystein Jansen.

Our network has been extended by an agreement to co-organise seminars with the local branch of the Norwegian Academy for Technological sciences, and a meeting place for interactions between the various science academies in Norway has been established. We are very keen to arrange similar meeting points with Academies in the Nordic and Baltic countries in the future. We have expanded the Hub's activities in Science Advice by becoming a partner in the new SAPEA project under Horizon Europe, seeking a more active role under the leadership of the Cardiff Hub in

organising activities and contributions to the production of evidence reports for the Science Advice Mechanism of the European Commission.

In 2021 Academia Europaea established a Task Force to provide plans for extending its visibility in the areas of Environment, Climate and Sustainability under the leadership of Professor Verena Winiwarter from Vienna. The Bergen Hub organises this activity on behalf of Academia Europaea. The output of this process, including a completed member survey, will hopefully better align Academia Europaea with some of our time's most urgent global challenges. As a member of the Task Force, I hope that we can engage a high number of eminent scholars from the AE membership to take part in future activities.

I am grateful for our good collaboration within the Academy, its Hubs, The Graz office, the central London Office in London and the Board. I will pay a special tribute to our past president Sierd Cloetingh for his strong support for our work and encouragement in terms of extending our role and wish our new president Marja Makarow welcome, whom we already have a very good relationship with through her former role in our Advisory Board. Not least I will thank the staff of our hub for their dedication and enthusiasm for our work and mission.

(Bergen, March 2022)

## 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.

2021 was the first year of our new Strategic Plan, which 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 on <https://aebergen.w.uib.no/>. 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 EU's 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 relevant 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 will co-organise 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 will 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.



AE-Bergen Hub at the Norwegian regional conference on the green transition Rosendalsveko, August 9-11. Academic Director Eystein Jansen moderated the session "Western Norway in a Global Perspective".

## 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.

## ACTIVITIES IN 2021 - HIGHLIGHTS

### January

- Production of [a video describing the mission of AE, AE-Bergen Hub and SAPEA](#) for the Arctic Frontiers conference 2021 'Building Bridges' (see below).
- Inaugural meeting of the joint AE-Bergen – Horizon lectures committee.
- Meeting between AE-Bergen Hub and the Estonian Academy of Science (EAS) to plan a conference on "The changing Arctic" (due on April 14th) initiated by The Norwegian Embassy in Tallinn to mark both 100 years of diplomatic cooperation between Norway and Estonia and the application of Estonia for an observer seat in the Arctic Council. We also discussed other possibilities for cooperation between EAS and AE-Bergen.

### February

- Participation at the online Arctic Frontiers conference 'Building Bridges' in Tromsø. AE-Bergen Hub was represented by a virtual stand showing [our new video](#) (also presented in the main programme) and AE-strategy documents.
- Participation at the online national SDG conference in Bergen.

### March

- Several meetings with the NGO Pacific Environment in Alaska for planning of an upcoming webinar on Arctic shipping (see below).



In January, AE-Bergen Knowledge Hub produced a video describing the mission of AE, AE-Bergen Hub and SAPEA, which premiered at the Arctic Frontiers conference 2021 'Building Bridges'. The video now has 4 179 views on YouTube.

### April

- The webinar "Arctic Marine Operations and Shipping: Green Initiatives and Challenges" was

The webinar "Arctic Marine Operations and Shipping: Green Initiatives and Challenges"<sup>1</sup> was organised by AE-Bergen Hub, Pacific Environment, University of Bergen, and Arctic Frontiers on April 7th.

Arild Moe (The Fridtjof Nansen Institute), Mellisa Johnson (Bering Sea Elders Group), and Sian Prior (Clean Arctic Alliance).

organised by AE-Bergen Hub, Pacific Environment, University of Bergen, and Arctic Frontiers on April 7th. The event was recorded and [can be watched here](#). The event had two keynote speakers: Dr. Lawson Brigham (Polar Institute of the Wilson Center) on "Challenges and policies for Arctic marine operations and shipping" and Morten Mejlender-Larsen (DNV) on "The green transition for arctic shipping". The event was chaired by Jim Gamble, Arctic Programme Director of Pacific Environment and a panel discussion was moderated by Academic Director Eystein Jansen. Panelists were Hege Økland (Maritime CleanTech),

- Academic director Eystein Jansen gave an overview of the Arctic/polar research landscape in Norway at the webinar “The Changing Arctic” on April 14th, a joint Estonian-Norwegian scientific event. Organisers were The Estonian Academy of Sciences, Tallinn University of Technology, the Bjerknes Centre for Climate Research/UiB, AE-Bergen Hub and the Norwegian Embassy in Tallinn.

## May

- During a digital ceremony on May 25th, the UiB and Academia Europaea renewed its contract, stating that UiB will host and provide facilities and personnel for the running of the AE-Bergen Hub for four more years (2021-2025). David Coates, Executive Secretary of AE chaired the event. The contract was signed by AE President Sierd Cloetingh and by UiB Rector Margareth Hagen. Hagen stated that the collaboration will help the University of Bergen maintain a strong link to European policy development in the coming years. A recording of the ceremony is available both on the [AE-Bergen](#) and the UiB website.



During a digital ceremony on May 25th, the UiB and Academia Europaea renewed its contract, signed by AE President Sierd Cloetingh and by UiB Rector Margareth Hagen.

- AE-Bergen Advisory Board online meeting was held on May 27th. Vice Rector of University in Bergen, Annelin Eriksen chaired the meeting on behalf of UiB Rector Margareth Hagen (being new chair succeeding the previous UiB rector Dag Rune Olsen). In the meeting, the Advisory Board approved the

Strategic Plan 2021-2024 for the AE-Bergen Hub.

## August

- Norwegian regional conference on the green transition Rosendalsveko, August 9-11. AE-Bergen Hub supported a youth camp leading up to the conference and Academic Director Eystein Jansen moderated a session “Western Norway in a Global Perspective”. The conference coincided with the publication of the first findings of the sixth IPCC climate report, adding urgency to the event.

- A meeting of all Norwegian Science Academies took place on August 25th, initiated and chaired by The Norwegian Academy of Science and Letters. Among possible means of cooperation’s discussed, was the work of Norwegian academies to advance science advice, and to advocate for a Science Advice Mechanism in Norway. Another area might be joint opinions for national hearings. Joint communication efforts were also discussed.



The webinar “Transitioning to new energy systems: What impact will it have on society and on our lives?”

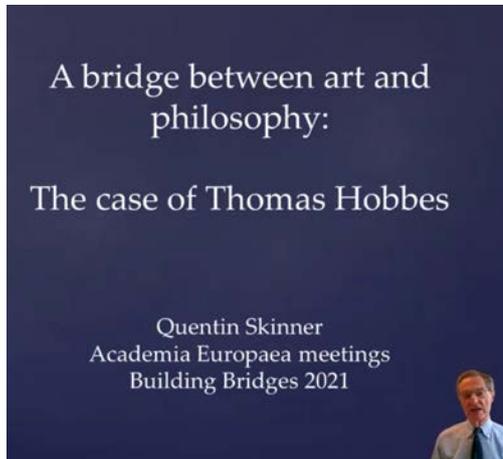
## September

- AE-Bergen has from September 2021 been included as a formal co-organiser of a well-established meeting series together with NTVA Bergen and Tekna Bergen. On September 20th there was an open meeting about innovative solutions in the field of health and caregiving (Alrek Helseklynge).

## October

- On October 11th AE-Bergen Hub [co-hosted the webinar](#) "Transitioning to new energy systems: What impact will it have on society and on our lives?", following the SAPEA evidence report "A systemic approach to the energy transition in Europe". Academic Director Eystein Jansen was one of the speakers together with Prof. Nebojsa Nakicenovic, Prof. Diana Urge-Vorsatz and Prof. Benjamin Sovacool and Prof. Nick Pidgeon. Prof. Ole Petersen chaired and moderated the event.

- The Academia Europaea Building Bridges 2021 Conference: The AE-Bergen Hub was responsible for technical and administrative support of an online Class A2 meeting and a joint A1/A2 Class meeting, both on October 14th. We also pre-recorded two lectures of Professor Quentin Skinner (for the Joint A1/A2 Class meeting and the main conference).



- As part of our meeting series with NTVA Bergen and Tekna Bergen, The AE-Bergen Hub co-organised a meeting October 19th on high temperature fuel cells for sustainable shipping.

## November

- As part of our meeting series with NTVA Bergen and Tekna Bergen, The AE-Bergen Hub co-organised a meeting November 16th on the technological challenges of constructing of

the world's longest Pontoon Bridge crossing Bjørnafjorden south of Bergen.

- The AE Board has established an "Academia Europaea Task Force on Environment, climate and sustainability" to provide plans for extending its engagement and visibility in these under the leadership of Professor Verena Winiwarter. The Bergen Hub is responsible for administrative support of the Task Force on behalf of Academia Europaea. The inaugural (online) meeting of the Task Force was held on November 8th. The Task Force has eight members, two from of each of the classes. The Hub's Academic Director Eystein Jansen is one of the two members from Class B.

- On November 11th, Eystein Jansen participated as a panelist and mock evaluator in a joint YAE & AE Budapest Hub meeting on rising the EU13 participation in the ERC. This was an ERC Starting Grant mentoring event with 157 participants from most EU13 countries.

Members of the Academia Europaea Task Force on Environment, Climate and Sustainability



Carlo Carraro



Jane Hill



Patricia Holm



Poul Holm (Deputy Chair)



Eystein Jansen



Nebojsa Nakicenovic



Peter Wagner



Verena Winiwarter (Chair)

## December

- The second meeting of the Academia Europaea Task Force on Environment, climate and sustainability was held on December 1st. Main task was to finalize the questions of a member survey to map expertise and willingness to engage in relevant fields.

[The Academia Europaea Task Force on Environment, climate and sustainability.](#)

- Hub manager was responsible for online web application and database solutions and for the survey to be sent to all members. The survey was sent all members (through the AE online system) on December 6th.

## 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, ensuring that UiB will host and provide facilities and personnel for the running of the AE-Bergen Hub for four more years (2021-2025).

### Academic Director and Hub Administration of AE-Bergen



Academic Director

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Hub Manager

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Communication Adviser

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## AE-Bergen office and contact

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

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

## Advisory **Board** members in 2021

- Margareth Hagen; Chair, Rector and Professor, University of Bergen, Norway (Italian Literature)
- Erland Källen; 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 2021

- Kjersti Fløttum; MAE, Univ. Bergen (Linguistics)
- Petter Bjørstad; MAE, Univ. Bergen (Informatics)
- Dieter Roerich; MAE, Univ. Bergen (Physics)
- Marit Warncke, CEO Bergen Chamber of Commerce and Industry
- 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; Professor, Univ. of Bergen (Philosophy of science)
- Stein Kuhnle; MAE, Professor, Univ. of Bergen (Political science)
- Jessica Jewell; Research scholar/Assoc. prof., Chalmers Univ/UiB (Energy and Political science)
- Ole Øvretveit, CEO Initiativ Vest

## 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.

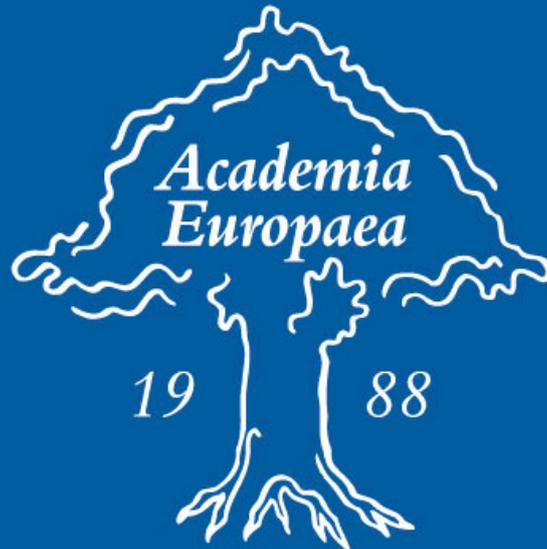
- Ensure the development of science advice for policy within the Nordic/Baltic political context.
- Ensure that the Hub is visible and has activities on a Nordic/Baltic scale, including engagement in activities outside of the Bergen region.
- Provide links with international and national academic networks.
- 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.



The webinar “The Changing Arctic” on April 14th, a joint Estonian-Norwegian scientific event. Organisers were The Estonian Academy of Sciences, Tallinn University of Technology, the Bjerknes Centre for Climate Research/UiB, AE-Bergen Hub and the Norwegian Embassy in Tallinn.



THE ACADEMY OF EUROPE  
BERGEN KNOWLEDGE HUB

**Hosted by**



UNIVERSITY OF BERGEN

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# ANNUAL REPORT 2021

OF

## THE ACADEMIA EUROPAEA BUDAPEST KNOWLEDGE HUB





# INTRODUCTION

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**2021 was the first year of the Budapest Hub since its launch on December 9th, 2020.**

To address the ambitious aims the Budapest Hub set itself for the long term, a number of initial steps have been taken in the course of this first year. As a first action, each of the four thematic missions of the Budapest Hub assembled a list of AE members in the region with a potential interest in collaboration with the given thematic mission and reached out to those potential partners in an introductory letter outlining the long-term objectives of the thematic mission concerned. Positive responses, expressing readiness to collaborate, were collected for future reference.

When it came to organization of events in order to introduce the Hub and raise its visibility, regrettably the year was marked throughout by the subsequent waves of the COVID-19 pandemic, keeping in-person attendance at a minimum and online events as the general rule. It was in this setting that the Budapest Hub sought to have a meaningful presence primarily in the online sphere. For some of the envisaged activities, preparations began in the course of the year, in the hope that the following year, 2022, would allow for events and other actions with physical presence. A highlight of the year was the December Board meeting of AE followed by the valedictory lecture of outgoing AE President Sierd Cloetingh, which the Hungarian Academy of Sciences and the AE Budapest Hub was honoured to host.

**The output of the Budapest Hub in 2021 is presented below in the context of its four thematic missions:**

1. *Widening European Participation*
2. *The Danube Region*
3. *Methodology of Science Education and*
4. *Urban Sustainability*





## 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:

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

### ACTIVITIES IN 2021

#### Meetings of regional “Widening Partners”

With a view to enhancing the growth of AE membership in the countries of the region, a regional meeting for “Widening Partners” was convened in online format as early as January 29<sup>th</sup> 2021, and a second meeting of the same group – again online – took place towards the end of the year, on December 8<sup>th</sup>. The “Widening Partners”, practically all of them MAEs, who had been invited by Professor Éva Kondorosi, Co-Chair for Widening European Participation, to join this special group, came from the following countries: Slovakia, Romania, Bulgaria, Moldova, Slovenia, Croatia, Serbia, Montenegro and North Macedonia. They accepted to actively contribute to this exercise of monitoring the situation of nominations to AE membership under AE’s nomination cycle in quantitative as well as qualitative terms. The objective of both start-of-year and end-of-year meetings was to identify potential strong candidates for nomination from each country in the region and to recognize the areas of science which had strong representation in these countries.

#### Young Academy of Europe and AE Budapest Hub joint ERC Starting Grant Mentoring Event – November 11, 2021

The online event focused on the ERC Starting Grant evaluation process – on how ERC’s evaluation panels work and how decisions within evaluation panels are taken when it comes to recommending a grant application for funding. The event was designed to offer an important opportunity for early-career ERC applicants to gain key insights into what makes a successful ERC application and a better understanding of the evaluation process. It came as the second edition of a series launched by YAE back in 2020 and attracted a total of 160 participants online. Its Part 1, which was the plenary part, included a presentation from a representative of the ERC Executive Agency (ERCEA), Janka Mátrai and





a presentation from the ERC National Contact Point leader in Hungary, Gergely Bóhm. Part 2 consisted of three parallel sessions: mock evaluation panels in each ERC research domain (Physical Sciences & Engineering (PE), Life Sciences (LS), and Social Sciences & Humanities (SH)) reviewing two examples each of ERC grant applications.

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**11 November 2021 (online)  
14:00 - 16:00 CET**

Agenda:

1. Introduction to ERC funding and specific advice for applicants in EU13 and Associated Countries
2. Parallel ERC StG mock evaluation panels by domain (LS, SH, PE)

The event was meant to fit in with the aims of the Widening European Participation thematic mission respectively of involving AE members in mentoring programmes and of forging collaboration with the Young Academy of Europe (YAE).

Another mentoring action, an *ERC Grant Proposal Writing Workshop* as part of the Forum of V4+ Academies in Budapest had been planned to take place in the same month, November, but it had to be postponed due to the COVID situation and has now been re-scheduled for May 2022.

The originally planned one-day, face-to-face workshop had the specific aim of mentoring early-career researchers from the V4+ countries (that is, V4 + Austria and Slovenia) wishing to apply for ERC grants. While retaining this original objective of providing direct practical help to potential ERC applicants, the re-scheduled workshop is going to have an extended focus in order to include, besides individual excellence, the institutional aspect of a successful ERC application.

## Danube Region thematic mission

*Co-chairs of the thematic mission:*

**Professor András Báldi**, Member of AE

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

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### AIMS:

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

### ACTIVITIES IN 2021

#### Facilitate networking and interdisciplinary collaboration

Work started with a compilation of a list of YAE/AE members in the region with potential interest in collaboration within the framework of the Danube Region thematic mission.

Plans were made for an international workshop/conference on the environmental history of the Carpathian basin, with the involvement of the Hungarian researchers Zsolt Pinke and Beatrix Romhányi, but the event later came to be scheduled for the second half of 2022.

#### Highlight the natural values of the Danube region from an “artistic” perspective

With a view to introducing an “Arts and Science” line of activities in the Budapest Hub in order to reach a broader audience with scientific topics related to the Danube river, the idea of a film club series with scientific panel discussion was elaborated and several filmmakers were approached to find out about their – and their films’ – availability for such events.

Zoltán Török (Wildtale Productions), director and writer of *“Wild Hungary – A Water Wonderland”* (2011) and director and co-writer of *“Wild Horses – A Tale from the Puszta”* (2021) was contacted, but collaboration with him had to be postponed due to the pandemic.

Gergely Balázs, director and co-writer of the Hungarian nature documentary *“Operation Mayfly”* (2017) and co-writer Balázs Lerner as well as ecologist György Kriska (ELTE, Centre of Ecological Research), were contacted in order to invite them to offer the English version of *“Operation Mayfly”* as a possible subject of the Hub film club series. As they accepted the invitation, the arrangements for the Hub’s first film club event could kick off before the end of the year and the event came to be scheduled for March 2022.



### Support and involve early-career researchers

The above-mentioned *ERC Starting Grant Mentoring Event* jointly organized by YAE and the AE Budapest Hub (its Widening European Participation thematic mission) on 11 November 2021, had relevance for the Hub's Danube Region thematic mission as well, since Katalin Solymosi, Co-chair of the Danube Region thematic mission and Recruitment Vice-Chair of YAE, was a member of the event's organizing committee and moderated the plenary session of the event.

### Foster participation of researchers from the region in science policy

Preparations started in the autumn of 2021 for a public symposium to be co-organized by the AE Budapest Hub (Danube Region thematic mission) and the European Academies Science Advisory Council's (EASAC) Environment Steering Panel. As András Báldi, Co-chair of the Danube Region thematic mission, is also a member of EASAC's Environment Steering Panel, the Steering Panel accepted the invitation by the Hungarian Academy of Sciences to hold its spring 2022 meeting in Budapest, and the idea was raised to connect this meeting with a public event to be co-organized by EASAC and the Budapest Hub. The topic of the symposium would be EASAC's report on Regenerative Agriculture. The event would include a panel discussion featuring experts who are members of AE.

## 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

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### AIMS:

- 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.
- Identify the new challenges of distance education, brought to the forefront by the COVID pandemic.
- Contribute to more social and gender equality in access to science education and STEM careers.

### ACTIVITIES IN 2021

#### Fact-finding in the first half of 2021

Within the framework of the introduction of this thematic mission to national academies and the other AE hubs, an email survey was designed to collect data about science education in national educational programmes and data on innovative programmes in science education. Data collection is supposed to be ongoing and, based on a thorough analysis, it is supposed to inform the future actions of the Methodology of Science Education thematic mission.

This thematic mission managed to organize two workshops in 2021: one with online participation on March 26, and another one with in-person attendance on October 21. The March workshop was held in English and had an international audience, while the October workshop, held in Hungarian, was addressed to a Hungarian audience of science education experts.

Entitled *“Every Cloud Has a Silver Lining - Experiences and Prospects of online STEM education in the light of the pandemic”*, the March workshop addressed challenges of education and research as they had been transferred to the virtual space due to the pandemic. The event was hosted and moderated by Professor Csaba Pléh and Dr Eszter Gselmann, the Hub's Co-Chairs responsible for this thematic mission. The lecturers were:

- Zsolt Lavicza (Linz School of Education, Linz, Austria): *“Utilising Technologies to Nurture Creativities in STEM Education”*

- Iulia Savos (CEU Babylab, Budapest, Hungary): *“Possibilities and Limitations of Online Infant Studies”*
- Dénes Szűcs (University of Cambridge, UK): *“Math Anxiety”*

The October workshop, addressing a Hungarian audience, was entitled *“Current Issues of Learning and Teaching STEM”*. It was co-organized with MTA’s Presidential Committee for Public Education. Moderators of the event were: Eszter Gselmann, Co-chair of the Budapest Hub’s Methodology of Science Education thematic mission and Benő Csapó, Chair of MTA’s Presidential Committee for Public Education.

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**A STEM tanításának és tanulásának aktuális kérdései**

Workshop  
az Academia Europaea Budapest Knowledge Hub "Methodology of Science Education" elnevezésű tematikus missziója és az MTA Közoktatási Elnöki Bizottsága szervezésében

**2021. október 21., 10:00**  
MTA Székház Felolvasóterem

10:00-10:10 **Megnyitó**

**Tudományos előadások (levezető elnök: Gselmann Eszter)**

10:10-10:30 **Csapó Benő: A természettudomány diagnosztikus értékelésének tartalmi keretei**  
10:30-10:40 *Kérdések és válaszok*

10:40-11:00 **Korom Erzsébet: A természettudomány tanulása kisiskolás korban**  
11:00-11:10 *Kérdések és válaszok*

11:10-11:30 **Szalay Luca: Kutatásalapú kémia tanítás**  
11:30-11:40 *Kérdések és válaszok*

11:40-12:00 *Köveszűnet*

12:00-12:20 **B. Németh Mária: Természettudományok tanulásának motivációi**  
12:20-12:30 *Kérdések és válaszok*

12:30-12:50 **Tóth Zoltán: A természettudományos fogalmak fejlesztésének kritikus pontjai**  
12:50-13:00 *Kérdések és válaszok*

13:00-14:00 **Vitaforum (levezető elnök: Csapó Benő)**

The lecturers of the event were all Hungarian education experts:

- Benő Csapó (University of Szeged): *“Diagnostic Testing in Science Education”*
- Erzsébet Korom (University of Szeged): *“Learning Science in Elementary Schools”*
- Luca Szalay (Eötvös Loránd University): *“Research-based Teaching of Chemistry”*
- Mária B. Németh (University of Szeged): *“Motivation Issues in Science Learning”*
- Zoltán Tóth (University of Debrecen): *“Critical Points in the Elaboration of Definitions in Science for Teaching Purposes”*

## 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

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### AIMS:

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

### ACTIVITIES IN 2021

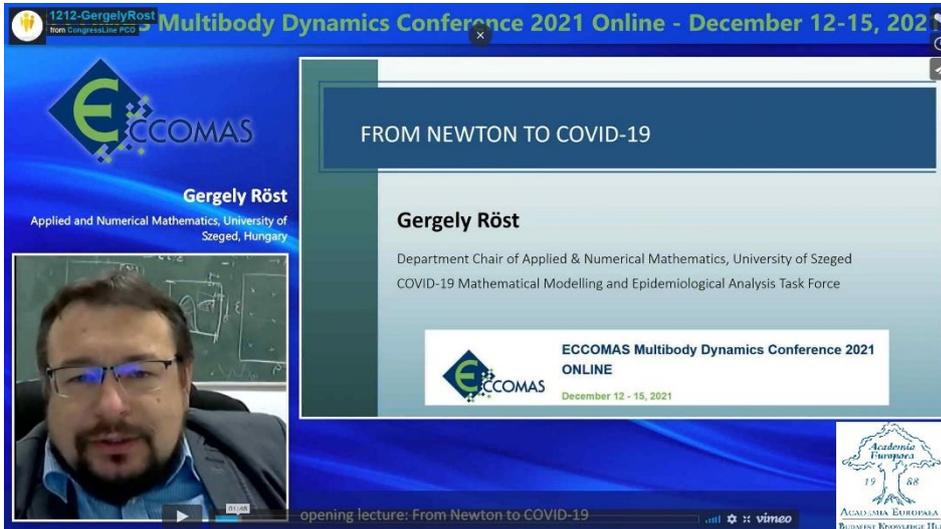
#### 2nd Hungarian Urban Ecological Conference

The 2nd Hungarian Urban Ecological Conference was held on October 14 and 15, 2021, at the Management Campus of Széchenyi István University in Győr, Hungary. One of the invited plenary speakers, Dr Valentin Klaus (ETH Zurich) gave a great opening plenary with the title: *“Using the Biodiversity Potential of Urban Grasslands: Options and Limitations of Nature Conservation Efforts in Cities”*. His participation at the conference was funded by the AE Budapest Hub.



## Public lecture on December 12, 2021

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As part of the ECCOMAS Multibody Dynamics Conference 2021, organized by the Budapest University of Technology and Economics on December 12-15, the lecture *“From Newton to COVID-19”* was delivered at the opening ceremony by Dr Gergely Röst, Department Chair of Applied and Numerical Mathematics at the University of Szeged, and Head of the COVID-19 Epidemiological Analysis and Modelling Response Team coordinated by the Ministry of Innovation and Technology in Hungary, who was a special guest of the conference.

Through his lecture, participants could formulate a view on the mathematical modelling of epidemics including historical aspects. This contribution was also meant as an introduction to a future workshop on agent base modelling of the epidemic at city-scale. Dr Röst’s lecture was sponsored by the AE Budapest Hub.





## Finance:

Under the Collaboration Agreement between Academia Europaea and the Hungarian Academy of Sciences, the latter provides the administrative services required for the operation of the Hub, including personnel costs, and the defined annual funding to support the Hub activities.

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## AE Budapest Hub staff:

*László Lovász*, Academic Director

*Gergely Bóhm*, Hub Manager

*Katalin Borvölgyi*, Hub Officer

### 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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**Hungarian Academy of Sciences**  
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[aebudapest@office.mta.hu](mailto:aebudapest@office.mta.hu)  
Phone: +36-1-411-6242

### **About Academia Europaea**

**Founded in 1988. Now has more than 4500 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  
2021

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

CARDIFF  
UNIVERSITY  
PRIFYSGOL  
CAERDYDD

## INTRODUCTION

### Welcome to our Annual Report 2021

It was a milestone year for the Cardiff Hub, as we celebrated our fifth anniversary and reflected on what we've achieved since the Hub was officially launched at the Academia Europaea Annual Conference in 2016.

With the continued impact of COVID-19, we have successfully managed the disruption of the pandemic on our work, as we did also in 2020. Whilst still working from home, we organised online events and further developed our website and social media presence.

Indeed, we have found a wide international audience for our webinars, engaging with more people around the world than ever possible before. I was particularly proud to chair the online event we co-organised at the European Parliament, on the topic of biodegradable plastics. It was part of a programme of outreach activities we undertook to promote the SAPEA Evidence Review Report, *Biodegradability of plastics in the open environment*, published at the end of 2020.

It has also been an important year in terms of the future sustainability of the Cardiff Hub. The current SAPEA project has been extended to April 2022, and the Cooperation Agreement between Academia Europaea and Cardiff University was renewed to the end of 2024.

I was delighted that members of the Hub team have been recognised for their service and contribution; I was honoured to be the recipient of Academia Europaea's Gold Medal in 2021 and our Hub Manager, Louise Edwards, received the President's Merit Award.

Finally, I congratulate our President and Vice-Chancellor and member of our Steering Group, Professor Colin Riordan on having been elected a member of Academia Europaea. I would like to thank Sir Mark Walport FRS FMedSci MAE, Chair of the Cardiff Hub Steering Group, and Professor Sierd Cloetingh MAE, President of Academia Europaea 2014-2021, for their valued support. The Hub looks forward to welcoming Professor Marja Makarow MAE, President of Academia Europaea from 2022.



### Professor Ole Petersen

CBE FMedSci FLSW MAE ML FRS

Academic Director, Academia Europaea Cardiff Knowledge Hub



# HIGHLIGHTS IN 2020

■ Our ambitious online webinar series has grown this year, reaching over 1200 people in 65 countries around the world. Our webinar *'Plastics pollution: Are biodegradable plastics a solution?'*, hosted by MEP Mohammed Chahim and chaired by Professor Ole Petersen, connected us directly with policymakers in Europe.



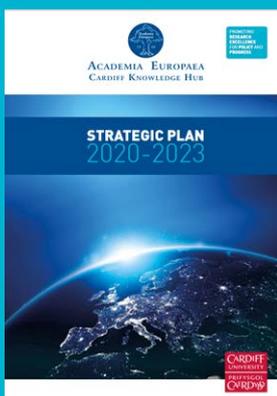
■ We've strengthened relationships with key strategic partners of Cardiff University and Academia Europaea, through joint events and projects. These partners included the Young Academy of Europe, the European Group on Ethics and Welsh Government, amongst others. Our event *Digital media in crisis situations* supported the strategic partnership between the University of Bremen and Cardiff University.



■ Promoting the achievements of Academia Europaea Members (MAEs) continues to be a priority. We've published a number of interviews with high-profile members, including Professor Sir Roger Penrose, recipient of Academia Europaea's Erasmus Medal in 2021.



Our achievements in 2021 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 members
3. Build connections with the wider group of stakeholders
4. Ensure future sustainability

## 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.

#### Biodegradability of plastics

Our focus this year has been on outreach activities for the SAPEA Evidence Review Report, *Biodegradability of plastics in the open environment*. The Evidence Review Report was co-ordinated by the Cardiff Hub for Academia Europaea, and published at the end of 2020.

The Cardiff Hub co-organised the launch webinar for the Evidence Review Report, which attracted an international audience of almost 170. Held on 4th February, the webinar brought together a panel of speakers from the Group of Chief Scientific Advisors, SAPEA and the European Commission, to respond to the question, *'Taking action on plastics pollution: Are biodegradable plastics the answer?'*

*'Biodegradable plastics: How do we engage with consumers and society?'* was the focus of our second webinar, on 21st May. Attendees from 38 countries joined our panel of experts. The webinar was organised with SAPEA, in partnership with the Royal Irish Academy.

Our third webinar *'Plastics pollution: Are biodegradable plastics a solution?'*, held on 16th June, was hosted by MEP Mohammed Chahim and chaired by Professor Ole Petersen. Panellists included Members of the European Parliament, the Chair of the Group of Chief Scientific Advisors (Professor Nicole Grobert MAE), Members of the SAPEA Working Group and representatives from industry and NGOs. Over 300 people attended the webinar.

The Cardiff Hub also oversaw a mapping review of recent research evidence on the topic, which was published by SAPEA in February. Specialists in systematic review at Cardiff University undertook the review, with the Cardiff Hub co-ordinating the work. It forms a complementary report to the SAPEA Evidence Review on *Biodegradability of plastics in the open environment*.



## Making sense of science

We have continued to promote the SAPEA Evidence Review Report, *Making sense of science under conditions of complexity and uncertainty*, published in 2019 and co-ordinated by the Cardiff Hub. Professor Ortwin Renn, Chair of the SAPEA Working Group that produced the report, spoke at our 'Digital media in crisis situations' webinar in March 2021, examining opportunities and risks at the interface between science advice, the media and the public.

## Energy systems

Cardiff University was asked to map the policy landscape relating to energy transition in Europe, as an important part of SAPEA's Evidence Review Report, *A systemic approach to the energy transition in Europe*. This mapping was led by Frederico Rocha, Manager of the European Documentation Centre at Cardiff University, and the Cardiff Hub acted on behalf of Academia Europaea to deliver this policy mapping work.

We also co-organised a webinar 'Transitioning to new energy systems: What impact will it have on society and on our lives?' with SAPEA and the AE Bergen Knowledge Hub. This timely event, ahead of the COP26 Conference in November, was attended by an international audience of over 130.



## Current SAPEA projects

The Cardiff Hub has had an active role in both of the SAPEA evidence reviews started in 2021 and ongoing into 2022.

For the *Strategic crisis management in the EU* project, co-ordinated by ALLEA, we achieved a good success rate in nominating experts to the SAPEA Working Group. As input to the project, we worked with information specialists in Cardiff University to produce a set of papers for the Working Group. These included definitions of key terms for the topic, together with factsheets on EU crisis response mechanisms.

For the *SAPEA Cancer screening in the EU* project, led by FEAM, we have worked with Cardiff University's Specialist Unit for Review Evidence (SURE) to produce rapid reviews (a type of systematic review that is adapted to the time constraints of the project). The rapid reviews will form part of the evidence base presented to the European Commission's Group of Chief Scientific Advisors in 2022.

## Making new connections

Louise Edwards, Cardiff Knowledge Hub Manager, joined the Universities Policy Engagement Network (UPEN) Joint International Sub-Committee. UPEN is a community of UK universities and policy professionals committed to increasing the impact of research on public policy.

The Cardiff Hub has also partnered with the Welsh Centre for Public Policy and an international consortium to submit a funding proposal in response to the Transatlantic Platform's call, 'Recovery, renewal and resilience in a post-pandemic world'.

## 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.

We have continued to develop our website and grow our social media engagement, as well as maintaining traditional communications like our quarterly newsletter, which is sent to the entire Academia Europaea membership and to our key stakeholders.

#### Website

The website has continued to be a major focus, with a regular stream of news stories keeping our homepage fresh and interesting. This has resulted in a 5% increase of visits to the website.

Our 'Interview Spotlight' series remains one of the most popular features on our website, with four new interviews this year showcasing the research and achievements of Academia Europaea Members. We were privileged to interview Professor Sierd Cloetingh, Academia Europaea's President; Professor David Allison, Indiana University; Professor Ole Petersen, Vice-President of Academia Europaea; and Professor Sir Roger Penrose, Oxford University.

We continue to collate COVID-19 articles published by Members of Academia Europaea. Our dedicated COVID-19 page has grown to over 70 articles and is frequently one of our top ten most visited pages on the Hub's website. Links to the page are also promoted on the websites of Academia Europaea, the International Public Policy Observatory and SAPEA.

In April, we launched a new feature for the website – our Briefing Series. The Series complements webinars held by the Cardiff Hub, summarising key points of discussion from our panels of experts to provide a useful resource on each relevant topic. We have produced papers on research integrity, digital media in crisis situations, and engaging with the public on biodegradable plastics.



Professor Sir Roger Penrose took part in our Interview Series following his special award ceremony at Wadham College, University of Oxford, September 2021

#### Social media

Our Twitter presence has continued to grow, with a 27% increase in followers from last year. As well as raising awareness of the Cardiff Hub, this helps to increase traffic to our website and encourage webinar registrations. In 2021, we had 236,863 impressions on Twitter, this is an 86% increase on the same period last year.

The most noticeable improvement has been the number of visits to our Twitter profile, now averaging almost 3800 visits per month, up from around 250 per month last year.

**Top Tweet** earned 12.9K impressions

Join us for an international webinar on **#Digitalmedia** in crisis situations: rethinking their role & function' on 1st March.

A partnership event between Academia Europaea, University of Bremen, Cardiff University & SAPEA.

Supporting **#WalesinGermany2021**

[bit.ly/2MRmWDL](https://bit.ly/2MRmWDL)  
[pic.twitter.com/j0kIA0V0OC](https://pic.twitter.com/j0kIA0V0OC)

Summary of online marketing impact, comparison between 2020 and 2021. Data from 1st January – 31st December 2021				
	Indicator	2020	2021	Performance improvement compared to same period 2019
WEBSITE	Number of visits to the Hub website	12,986	13,710	↑ 5%
	Number of pages viewed on the Hub website	28,328	28,678	↑ 1%
TWITTER	Number of impressions	126,991	236,863	↑ 86%
	Number of Twitter followers	490	626	↑ 27%
	Number of visits to the Hub profile	Average 250 per month	Average 3800 per month	↑ 1420%

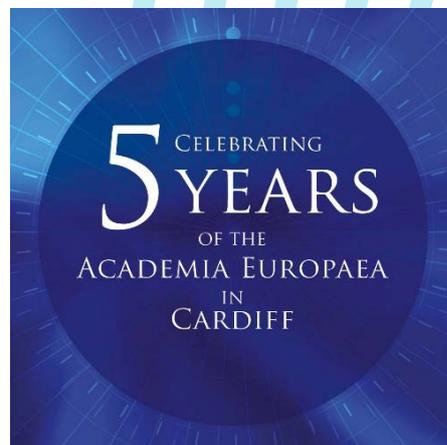
## Newsletter

Our quarterly newsletter remains an important part of our communications and successfully generates visits to related news stories on our website. In early 2021, we developed a new design for the newsletter. The open rates and click rates (the number of people who click on a link) for our newsletter continue to be above the average for organisations that use email marketing.

## Marking our fifth anniversary

The Cardiff Hub marked its fifth anniversary in June. We launched a promotional campaign through Twitter, Facebook, our website and newsletter, to highlight this special occasion.

We interviewed the President of Academia Europaea, Professor Sierd Cloetingh, and published a special timeline of Cardiff's achievements over the past five years. We also promoted videos of congratulatory messages from Professor Cloetingh; Professor Colin Riordan, Cardiff's President and Vice-Chancellor; Sir Mark Walport, former UK Government Chief Scientific Adviser and Chair of our Steering Group; and Dr Gemma Modinos, Chair of the Young Academy of Europe.



## 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 webinars

Through our public events we engage with a wide group of stakeholders. In 2021, we continued to run successful webinars online. A major benefit from this change to online events has been the ability to reach an international audience, with over 1200 people in 65 countries around the world this year in total.

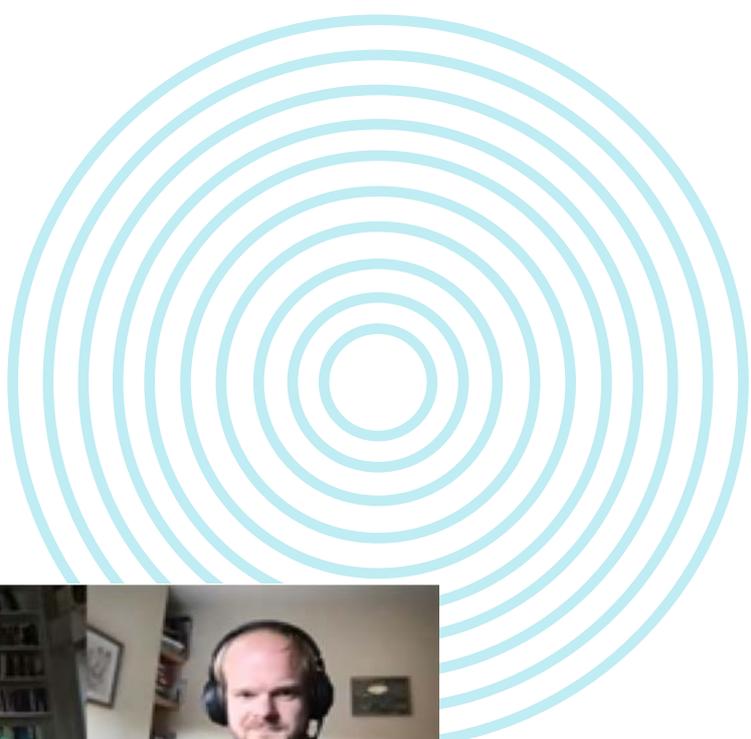
Our *'New perspectives on COVID-19'* webinar, hosted on 26th January 2021, saw presentations by six Members of Academia Europaea who have all published papers on biomedical aspects of COVID-19. Over 120 people attended the live session from 27 countries.

Our *'Digital media in crisis situations: Rethinking their role and function'* webinar was held on St David's Day, 1st March. At this special online event, our panellists discussed the role of digital media on public debate, attitudes and behaviours during the current COVID-19 pandemic. Over 110 people joined the webinar from 23 countries. This event was a partnership between Academia Europaea, University of Bremen, Cardiff University, SAPEA and in support of the Welsh Government's *Wales in Germany 2021*.

On 22nd March, the Cardiff Hub hosted an international webinar on *'Research integrity: Supporting early-career researchers in cases of alleged scientific misconduct'*. This was a joint event between the Cardiff Hub, the Young Academy of Europe, SAPEA and the European Group on Ethics, and it attracted an audience of almost 200 from 33 countries.

#### Developing partnerships

The Cardiff Hub continues to build partnerships with other organisations, this year exploring potential projects with the Wales Centre for Public Policy, the Young Academy of Europe and NORCE, amongst others.



Panellists at our *'Digital media in crisis situations'* webinar

## STRATEGIC PRIORITY 4:

### Ensure future sustainability

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

#### An ongoing role in SAPEA

As part of the Trade and Cooperation Agreement reached between the EU and UK at the end of 2020, the UK stated its intention to associate to the EU's seven-year Horizon Europe research and innovation programme. As a result, both Academia Europaea (which has its headquarters in London) and its affiliated entity, Cardiff University, aim to participate in the successor to the current SAPEA project. At the end of November, the UK government announced a financial safety net for successful project bids, whilst being ready to associate to Horizon Europe. We have played a major role in the preparations for the successor SAPEA project, which will run from May 2022 to December 2024.



The Cooperation Agreement between Academia Europaea and Cardiff University has been renewed to the end of 2024, ensuring the ongoing sustainability of the Cardiff Hub.

#### CALIPER

In late 2021, the Cardiff Hub was invited to join 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.

Working with the Young Academy of Europe, the Cardiff Hub is leading on communications across Europe and encouraging wider engagement with the project.

#### New projects

The Cardiff Hub continues to explore future opportunities, based on our core competencies in science advice, systematic evidence review, international project management, events and communications.

Through our external partnerships, we have applied for funding for two new projects this year.



## Staffing



Academic Director

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

*Academia Europaea Gold Medal 2021*



Knowledge Hub Manager

**Louise Edwards**

*Academia Europaea President's Merit Award 2021*



Executive Officer

**Juliet Davies**



Executive Officer – Science for Policy

**Anna Coote**

## Finance

Under the Cooperation Agreement between Academia Europaea and Cardiff University, the University meets defined salary and non-staff costs. Additional income is derived from the Cardiff Hub's two projects funded through the European Union's Horizon 2020 programme – SAPEA and CALIPER.

## Governance

The Academia Europaea Cardiff Knowledge Hub Steering Group plays an important role in shaping our future priorities and activities. The following distinguished scientists and scholars serve on the Group, and we thank them for their support:

Rudolf Allemann FLSW

Yves-Alain Barde FRS MAE

Nora de Leeuw FLSW MAE

Dianne Edwards CBE FLSW FRS MAE

Theo D'haen MAE

Donald Dingwell FRS ML MAE

Sir Stephen Holgate CBE MAE

Genoveva Martí MAE

Colin Riordan FLSW MAE

Sir John Skehel FRS MAE

John Tucker FLSW MAE

Sir Mark Walport FRS MAE (Chair)

## Acknowledgements

The Cardiff Hub would like to thank colleagues of all organisations that have given us their support in 2021, in particular:

Academia Europaea

Bergen Aquarium

CALIPER consortium

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

Centre for Translational Medicine,  
University of Pécs

European Group on Ethics (EGE)

European Parliament Intergroup on  
Climate Change, Biodiversity and  
Sustainable Development

Group of Chief Scientific Advisors

Indiana University

Newington Design

NORCE

Royal Irish Academy

Science Advice for Policy by European  
Academies (SAPEA)

University of Bremen

Wadham College, University of Oxford

Wales Centre for Public Policy (WCPP)

Welsh Government

Welsh Higher Education Brussels

Welsh Norwegian Society

Young Academy of Europe



## About Academia Europaea

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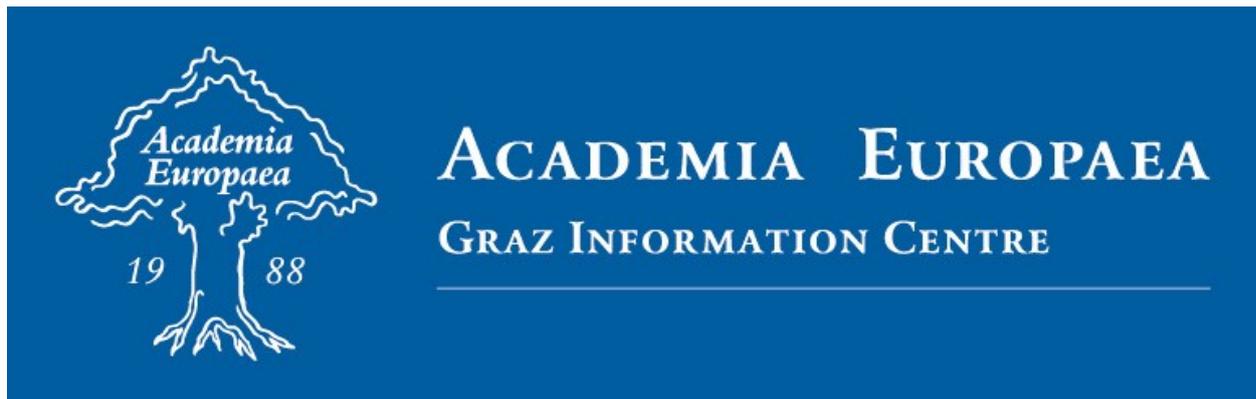
Academia Europaea Cardiff Knowledge Hub  
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Cathays, Cardiff CF24 4HQ  
[www.aecardiffknowledgehub.wales](http://www.aecardiffknowledgehub.wales)  
Tel: +44 (0)29 2068 8249  
[AECardiffHub@cardiff.ac.uk](mailto:AECardiffHub@cardiff.ac.uk)  
Twitter: @aecardiff

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SOCIAL MEDIA





## Introduction

Academia Europae Graz Information Centre was established in 2010 in an effort to increase the visibility of the Academy and its members. The Graz Information Centre is also responsible for the development and application of the nomination system and membership administration and registration. The AE-Info Server (<http://www.ae-info.org>, <http://www.acadeuro.org>) is hosted and operated by ISDS (Institute of Interactive Systems and Data Science), Graz University of Technology.

## Website Tasks

- Web presentation of the Academy
- Presentations of the members of the Academy and their achievements
- Presentations of the individual sections of the Academy

## Activities 2021

- 1977 pages edited
- 1148 documents uploaded
- 90 News items posted
- 22 Events posted
- Generation and posting of membership statistics
- Management and upload of administrative pages (board meeting documents, council meeting documents, AGM documents, etc.)
- Creation of new website areas/(re)structuring of existing website areas
- Changes and improvements of navigation functionalities
- Support of the Knowledge Hubs regarding contact data, statistics, mail lists etc.

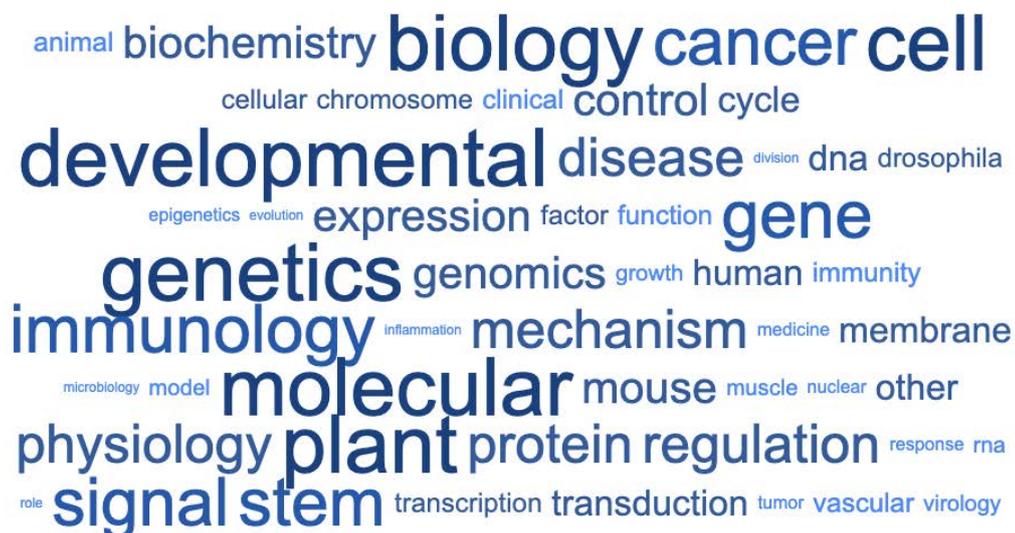
## Database (technical part)

The Graz Information Centre maintains and develops the membership database of the Academy.

### Activities 2021

- Affiliate Section: implementation of interdisciplinarity via multiple memberships in the sections with the following effect:
  - Each AE member is assigned to a primary section (specified during the nomination process of the new member)
  - In the acceptance phase: the new member can join additional sections (“Affiliate Sections”) via the online acceptance form
  - Existing members can join additional sections via “Edit Profile”
- Academia Europaea Voting Application: series of online ballots in advance of the “Annual Business Meeting of members”
- All the “business card” like information of members now in members DB
- Hubs meeting (zoom meeting) 5<sup>th</sup> May 2021
- Fields of Expertise: new and better visualisation of “Fields of Expertise” per section (tag cloud) plus presentation of experts on a specific topic

#### AREAS OF ACTIVITY - Cell & developmental biology



## Database (content)

The Graz Information Centre updates and administers the membership database of the Academy.

### Activities 2021

- Registration of changes in contact data information
- Search for contact data of unreachable members
- Registration of deaths
  - 138 deaths registered
  - Search for deceased members
- Generation and provision of mail lists for section chairs
- Supply of membership information for section chairs
- Regular database updates sent to London and Wroclaw

## Nomination Process

The electronic “nomination” and “acceptance” workflows operated by the Graz Information Centre support the nomination and acceptance procedures.

### Nomination and Acceptance Procedure 2020/2021

The Nomination phase 2021 ended on 30<sup>th</sup> April, the acceptance phase started in Mid-June 2021. Below is a brief description of our activities:

- Adaptation of the nomination/acceptance forms:
- Assistance to members concerning the filling in of the nomination files
- 455 nominations registered
- Upload of nominations to the website, update and administration of access rights
- Electronic notification to class and section chairs
- Administration of section assessments
- Mails to 366 elected members
- 355 new members registered
- 1065 member pages edited, upload of photos
- Mails to non-respondents
- Administration of acceptances

### Nomination and Acceptance Procedure 2021/2022

- Start of nomination phase: 1<sup>st</sup> September 2021
- Nomination phase deadline: 31<sup>st</sup> March 2022
- Section assessments, class meetings and Board decision: until 11 June
- Start of acceptance phase (Invitations are sent out by Graz): 13 July 2022
- Number of nominations until (end of December 2021): 181

## Technical Support

The Graz Information Centre hosts the AE-Info server.

### Activities 2021

- Control and tests of server
- Improvement of backup strategies for the AE-Info website (setup of a standby backup system)
- Continuous maintenance and update of the server operating system and database management system
- Improvement of the "watchdog system" for monitoring the correct operation of the AE-Info server
- Access to the AE-Info website only possible via secure, encrypted communication (https protocol)

## Twitter

The Twitter account of the Academy was created in 2015.

### Activities 2021

- 1946 Twitter followers by 2021
- 31 tweets and 68 re-tweets posted

## Meetings

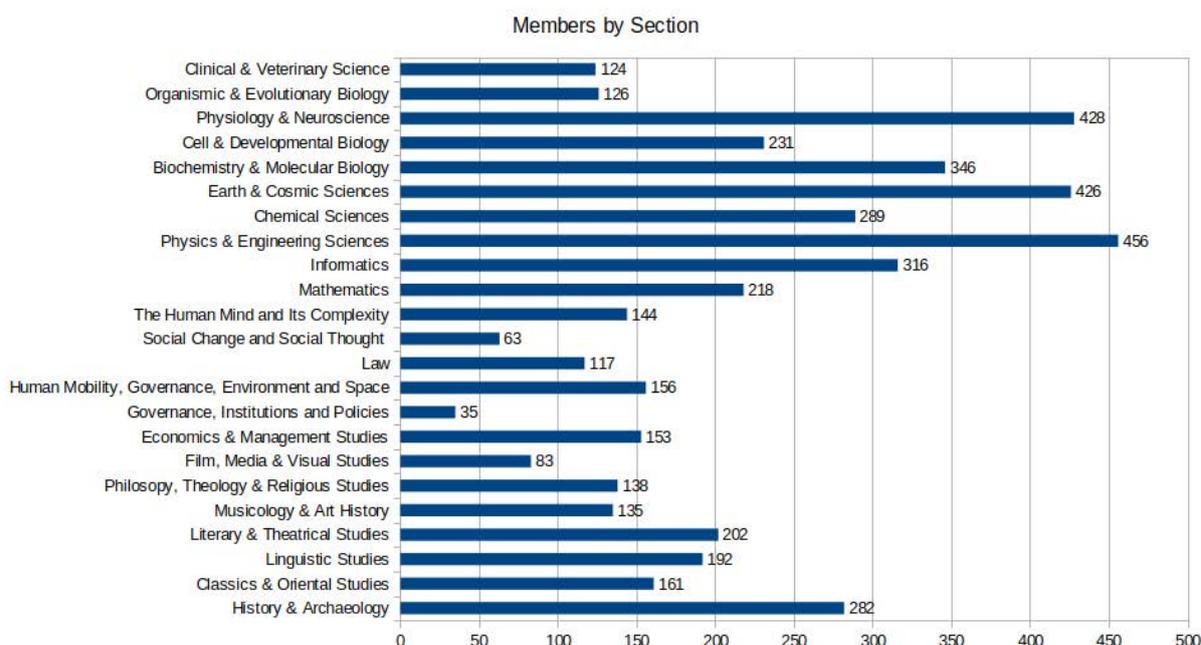
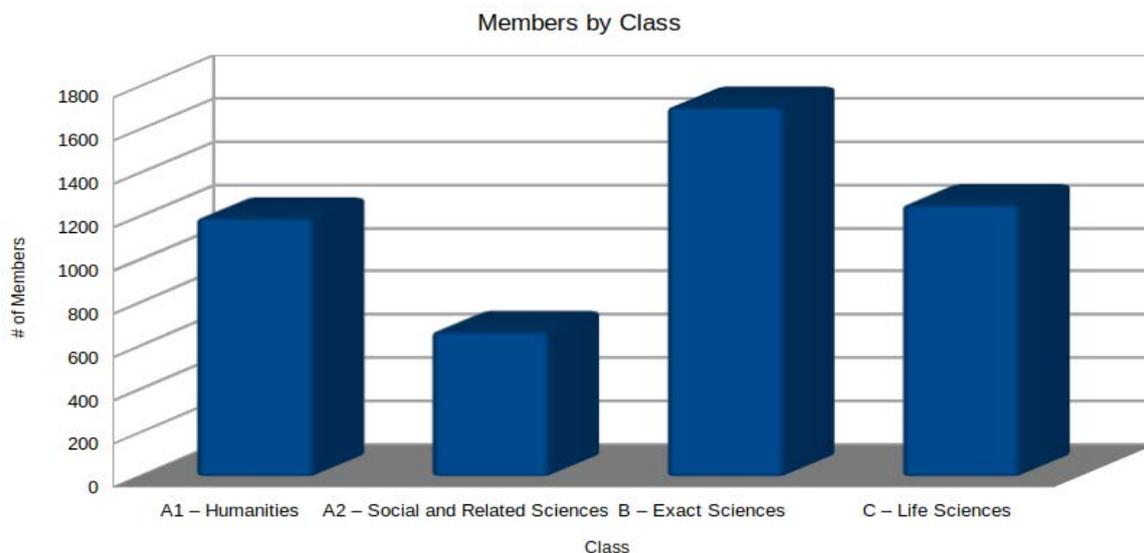
Participation in the following meetings:

- Hubs meeting (zoom meeting) 5<sup>th</sup> May 2021
- Academia Europaea Board of trustees meeting 10<sup>th</sup> December 2021

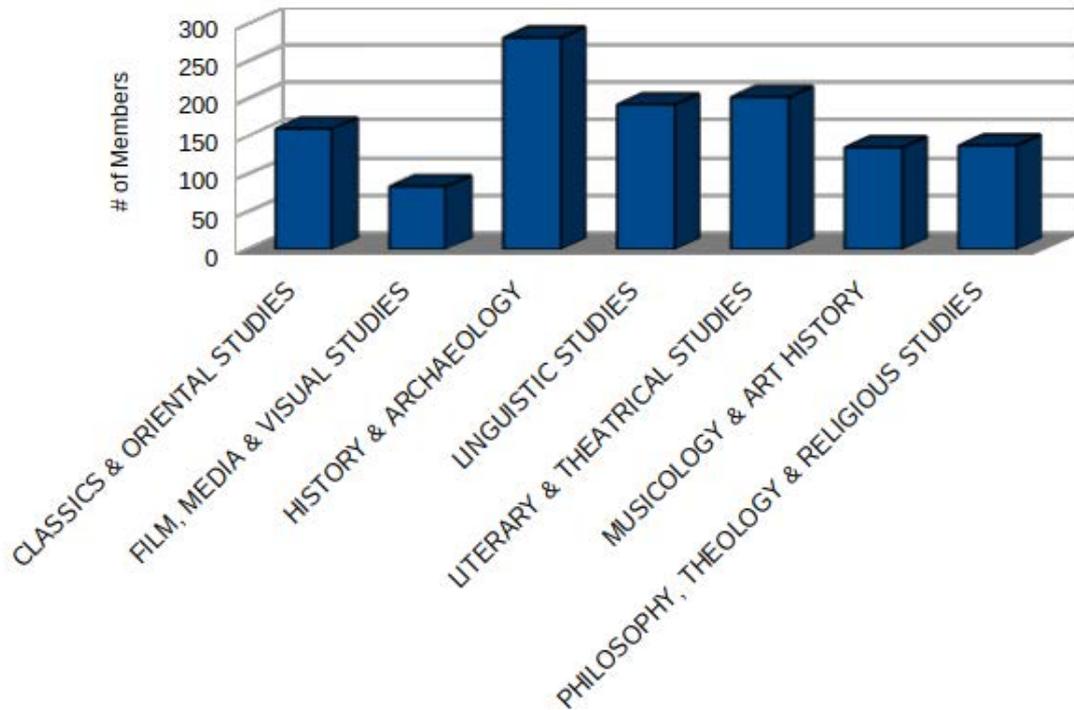
## Some Member Statistics

More statistical information about members of the AE can be found at:

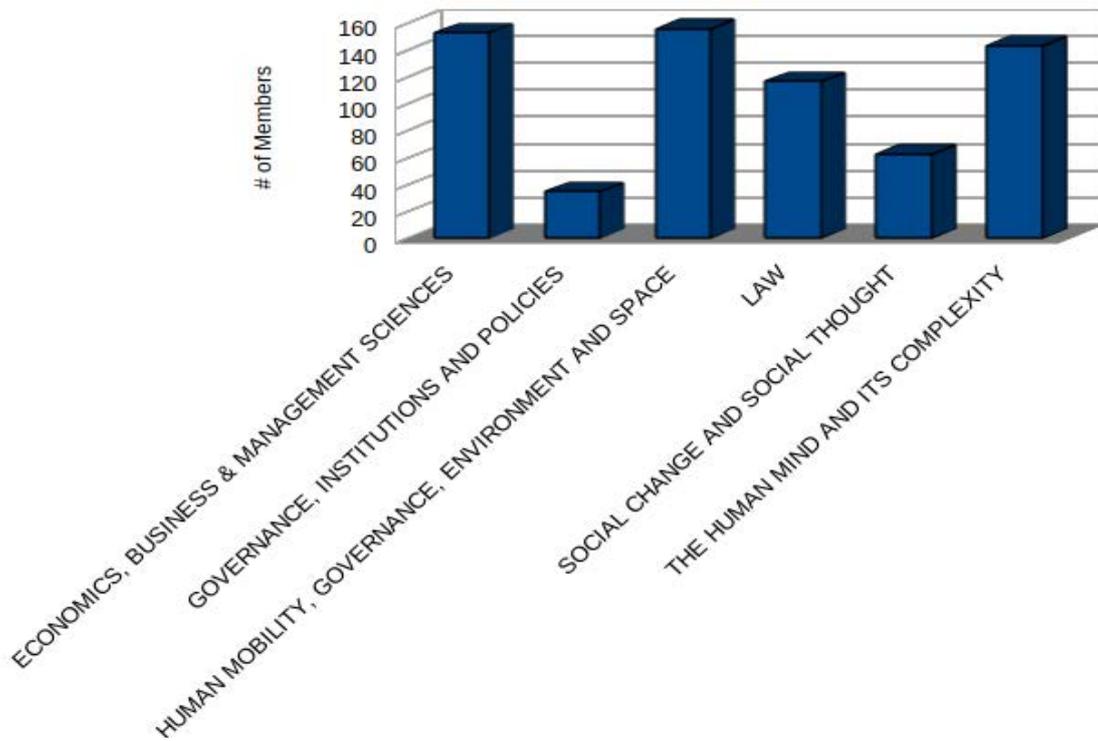
[https://www.ae-info.org/ae/Acad\\_Main/Membership/Statistics](https://www.ae-info.org/ae/Acad_Main/Membership/Statistics)



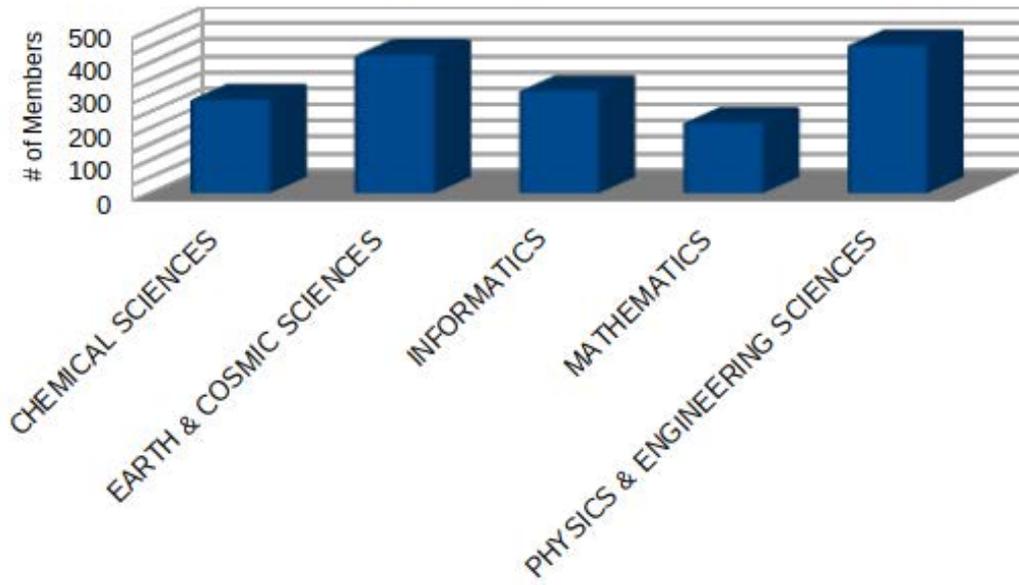
A1- Humanities



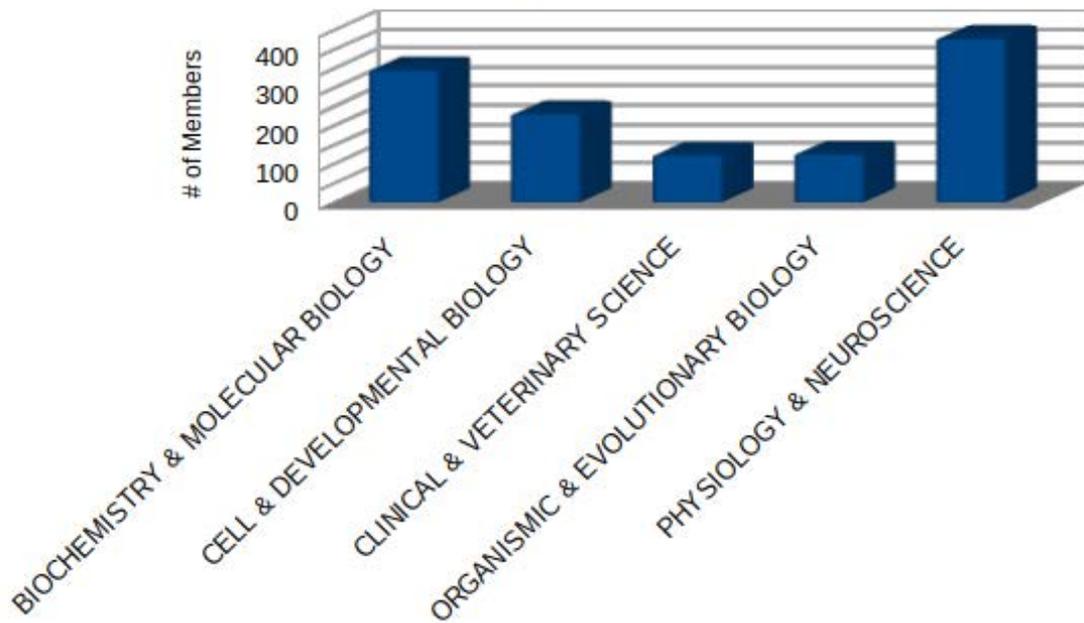
A2 - Social and Related Sciences



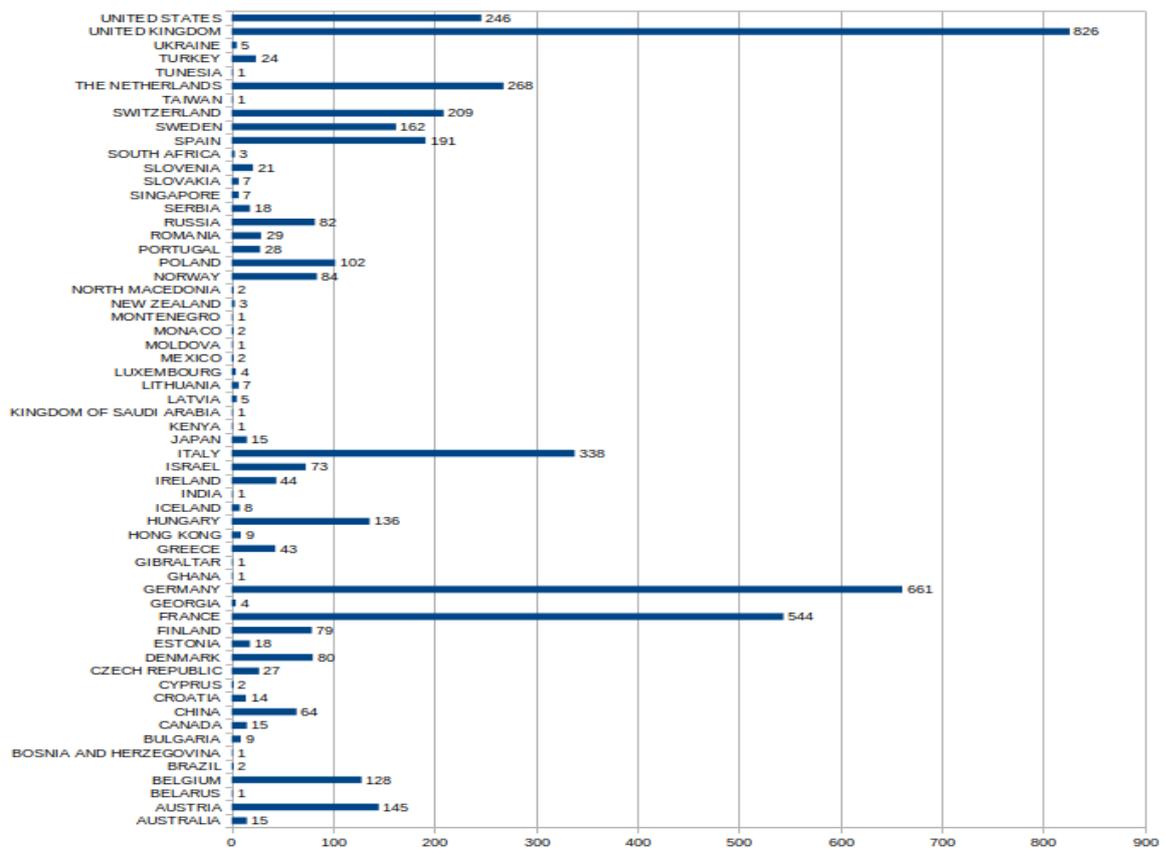
### B - Exact Sciences



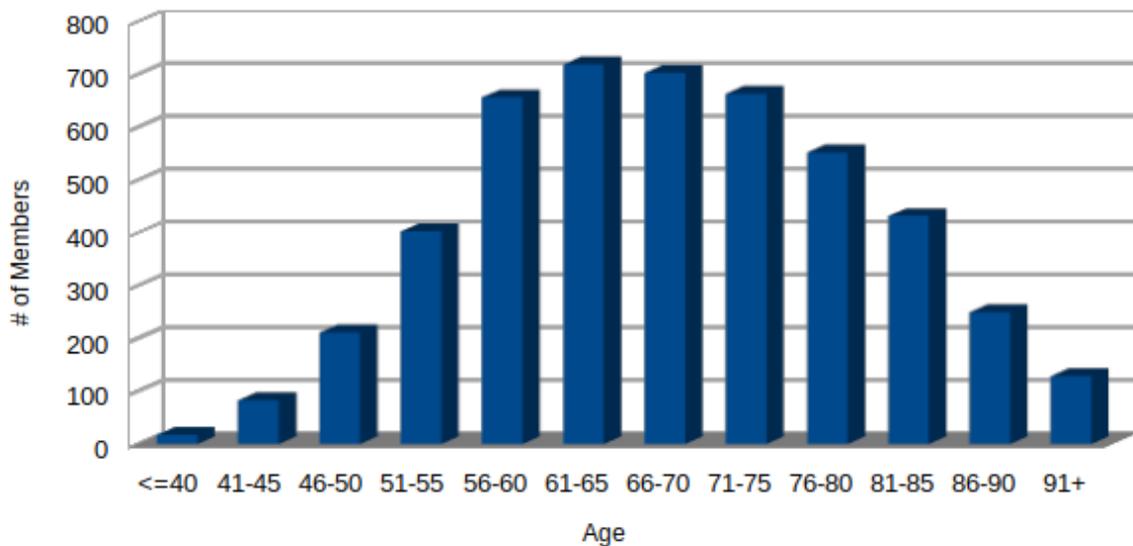
### C - Life Sciences

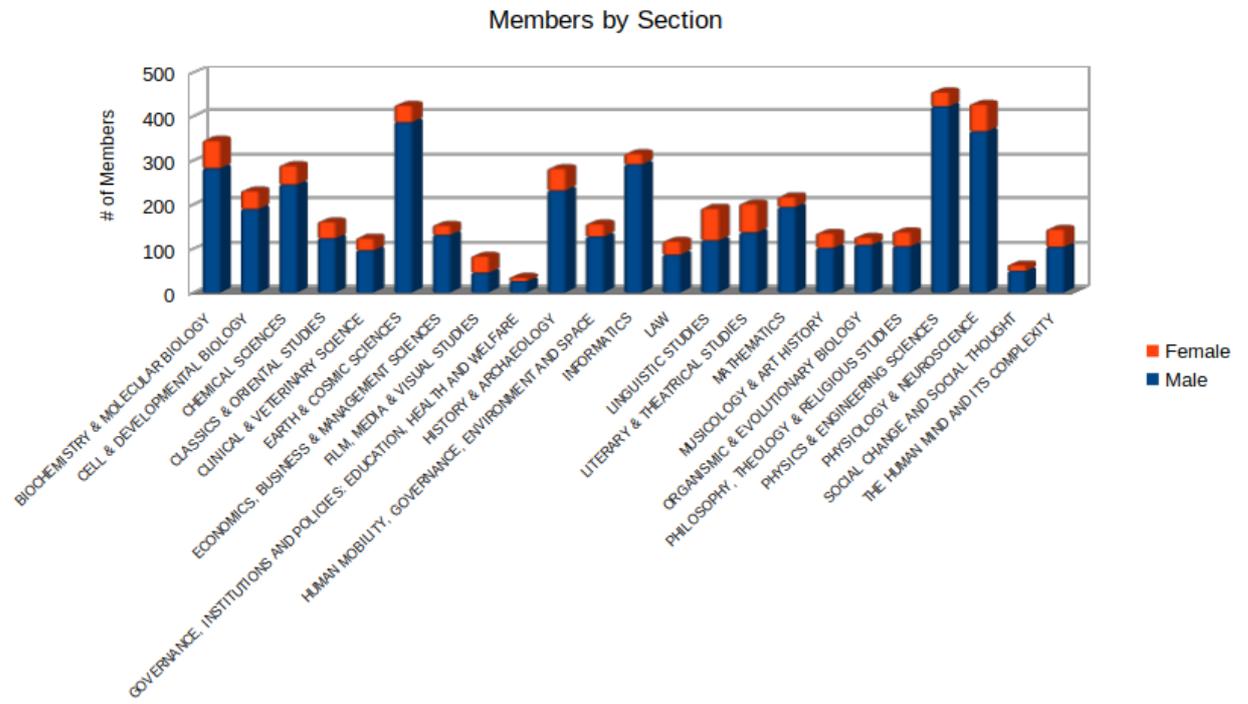


Members by Country of Residence



Age Profile of Members





## Staff



Technical Director  
**Helmut Leitner**



Chief Technical Officer  
**Robert Hoffmann**



Administrator  
**Dana Kaiser**

## Contact

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ISDS, Graz University of Technology  
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**ACADEMIA EUROPAEA WROCLAW KNOWLEDGE HUB  
2021 ACTIVITY REPORT**

**HYBRID CONFERENCE *ICONOCLASM: PAST & PRESENT ISSUES*, 4 – 6 October 2021, Wrocław, Poland**

The History and Archaeology Section of Academia Europaea in cooperation with Academia Europaea Wrocław Knowledge Hub organized a conference titled "Iconoclasm: Past & Present Issues" on October 4-6, 2021.



*Photo by: fattah\_artwork*

## **Background and rationale**

### **Why is iconoclasm such a recurring phenomenon?**

Since Ancient times, iconoclasm, the destruction of images or monuments for religious or political reasons, has been a recurring phenomenon throughout the world. From Egypt to China or India; in the Christian, Muslim or Judaic traditions: iconoclasm has been the pretext for destruction, to erase unwanted objects of worship and, at the same time, to reassess the principles of conceptual belief. But iconoclasm has also been the manifestation



of a recurring *damnatio memoriae*, the ancient Roman practice of official obliteration of the memory of a specific individual or event. The current negative trend of «political correctness», political fracturing and manifestations such as 'no platforming', 'historical re-interpretation and educational exclusions', has given a new dimension to such a practice and an urgency in undertaking an in depth systematic and scholarly analysis of these issues in a modern post-colonial and post «authoritarian» European societal context.

## Scope and development

This first conference, held in Wrocław (Poland) between October 4 and October 6, 2021, intended to analyse iconoclasm from a decidedly interdisciplinary perspective, with interventions from historians and archaeologists, as well as from specialists in art, literature, political science, classical studies, theology or philosophy. The intention was to involve most – if not all – of the sections in Classes 1 and 2 of the Academia Europaea and YAE. The event will be further developed into a major project theme of the AE and could contribute in defining the position of the Academia Europaea on the subject. The intention was to widen the scope of analysis and broaden the interdisciplinary participants. The first outputs will hopefully constitute a special 'open access' issue of the European Review. This was a test event to gauge the potential scope for a future series. The subsequent series will – hopefully – be developed to include other AE Hubs, and especially the new Regional Knowledge Hub, launched recently by the AE at Tbilisi in Georgia. Their unique contexts, and issues deriving from the Caucasus region of Europe will be a valuable input. This event and the subsequent series will also then provide us with a means by which the AE can help with the process of capacity building and integration of the Caucasus academic community into our wider European scholarship family.



THE CONFERENCE WILL BE  
BROADCASTED ONLINE



ACCESS:  
[www.academiaeuropea.eu/wroclaw/21/iconoclasm](http://www.academiaeuropea.eu/wroclaw/21/iconoclasm)

ORGANISED BY



ACADEMIA EUROPAEA



ACADEMIA EUROPAEA  
MOSCOW DEVELOPMENT HUB



WCA



Wrocław

SPONSOR



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## Sponsor

The event was sponsored by Riksbankens Jubileumsfond.



The 3-days conference hosted 21 keynote speakers. The event was broadcasted online via Hub's website.



## **FUTURE PLANS**

- **„Antropocene” (perliminary plans)**

The seminar will explore the crucial conflict at the heart of the politics (understood as planned actions on the level of governance, social institutions or cultural initiatives) of dealing with the consequences of the Anthropocene at the current critical moment. This is the conflict between the urgent necessity to design strategies of survival for the planet and the species inhabiting it and the continued problem with consumption that depletes resources and keeps having a detrimental influence on the environment.

The acute rationality of modernization grounded in the mechanistic view of the earth operating through instrumental reason has been described recently as the opposite – as the “great derangement” [Amitav Ghosh, *The Great Derangement: Climate Change and the Unthinkable*]. This foundational contradictoriness seems to be the most durable obstacle to

devising comprehensive and effective programs of rescue and restoration of the planet.

The topics and questions below do not exhaust the possible areas for discussion, but open the interdisciplinary space for research:

- The global history of colonial modernity – fossil fuels and earthly materials and their role in creating the geopolitics of modernity and/as capitalism
- Colonialism and the mechanistic view of the earth
- Socialist modernization models as “great derangement”
- Geopolitics of modernization: socialism and capitalism
- Extractivism as a development model and its consequences
- Social temporalities (political, cultural, etc.) and planetary temporalities – how to synchronize them to mutual benefit?
- Apocalyptic narratives of post-derangement world – what is their forecasting value?
- The resilience and vulnerability of the non-human forces vis-à-vis human action
- Social narratives promoting the programs of climate care: forms of intervention, the appealing value, viability of plans, translationality of premises.
- Cartographies of Anthropocene displacements
- Indigenous knowledges within and against the Anthropocene
- Planetary of ecological imagination and thought vs. globalism of consumer markets.
- The post-human as a factor in conceptualizing the future in social and human sciences
- New ontologies: 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 and the non-human.

Special guests (to be confirmed):

Amitav Ghosh – writer and social anthropologist promoting a planetary thinking as a way of decolonizing our understanding of the Anthropocene

Date: Cycle initiation: October 2022 r.; seminar/conference: Spring 2023

Target: doctoral student and students (especially engaging young scholars and researchers from Central and Eastern Europe)

Format: one/two interdisciplinary workshops, combining life sciences and humanities

Subject: climat, antropocene, medicine

Results: publication (preferably: European Review)

Hubs resources in 2022: financing the October event of Cycle initiation (accommodation + partially travels)

Organisers: University of Wrocław + Wrocław AEKH + other Polish institutions and universities

- **"Refugee Tales": Recording the Unthinkable (preliminary plans) – transdisciplinary seminar**

The flows of war and armed conflicts refugees have been leaving an indelible imprint on our global present. The invasion of Ukraine by the Russian Federation at the end of February 2022, and the subsequent and continued flight of war refugees to the EU, amounting within a month to 3.5 mln refugees from Ukraine and over 6 mln within Ukraine, has shaken our sense of the

post-1989 stability in the European Union. The immediacy of the war right within Europe and at the EU borders has mobilized an unprecedented international solidarity and help on all levels, starting from political, governmental, non-governmental and grassroots.

While most researchers on refugee crises focus on political, legal and welfare aspects of the state and supra-state policies towards refugees, we would like to open the space for discussing the impact that the refugees have on the social, political and cultural imaginaries and imaginations. Drawing on Arjun Appadurai's, an Indian social anthropologist, observation from 25 years ago that imagination is a powerful force of social agency (REF), we would like to invite social sciences and humanities scholars to share their research on how refugees impact and contribute to the social and cultural imagination of the host societies, how they change social and cultural landscapes of those societies, and how they stimulate and mobilize many forms of agency and involvement in what seems to have been an atomized, individualized modern society.

The seminar will depart from the discussing the *Refugee Tales* series published as charity for the sake of refugees to the United Kingdom. Writers turned into activists listened to the refugees, mostly those kept in the UK without a refugee status. The 2022 Nobel Prize winner in Literature, Abdulrazak Gurnah, has contributed to the series.

Opening the reflection on the recent refugee inflows to Europe, and especially the war refugees from Ukraine recently, we encourage a discussion on how social sciences and humanities can engage in helping to manage the reception and well-being of refugees on various levels of state, educational, social and cultural institutions. How can intellectual work such as research promote civic discourses of responsibility, ethical politics and cultural inclusivity?

But, most of all, our seminar will be geared towards establishing what avenues of self-representation and self-expression can the refugees have access to? How they co-produce knowledge about themselves rather than remain objects of scholarly knowledge, institutional care and governance?

Potential transdisciplinary topics:

- refugees and the politics of care;
- the EU and integration politics;
- **WOMEN AND WAR;**
- children's experience of war in literary and cultural representations;
- war experience, trauma and help programs;
- war and art - refugee self-expression;
- recording and expressing the war and refugee experience;
- refugees and race

An optional research project stemming from the seminar:

An interdisciplinary group of doctoral students, students and activists collect multimedia documentation: video films, podcasts, other forms of recording the refugee experience and their voices from various places of their passage from the war zone into safety. They could follow selected refugees into further stages of their search for safety and stability, and record whatever form of expression the refugees want to deliver.

Such material would be a valuable contribution to the archive of the time for the use of historians, social scientists, and humanities researchers. The participating students would

organize a follow-up in the form of a seminar where they would discuss their findings, with the participation of interested non-academic partners: refugees, activists, social workers.

Invited guests:

1. Refugee Tales activists – including Abdulrazak Gurnah, the 2021 Nobel prize winner in literature
2. Scholars in refugee and migration studies developing methodologies that include the authentic voice of the refugee partners as co-producers of knowledge rather than the objects of knowledge

Date: Brainstorming touch-base event: November 2022; seminar/conference: October 2023

Target: doctoral student and students (especially engaging young scholars and researchers from Central and Eastern Europe)

Format: 2-3 days seminar, keynote speakers + young scholars

Result: publication (preferably: European Review)

Hubs resources in 2022: financing the November event: Brainstorming touch-base (accommodation + partially travels)

Organisers: University of Wrocław + Wrocław AEKH + other Polish institutions and universities

# ANNUAL REPORT

2021



## Academia Europaea Tbilisi Knowledge Hub

Hosted by





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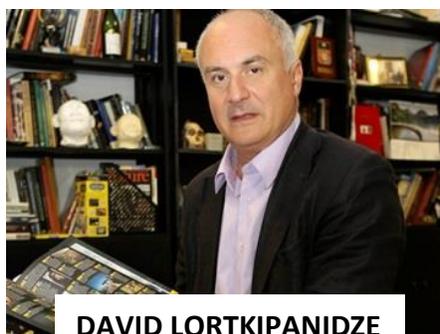
- 1.Organization
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# Organization

The *AE* Tbilisi Knowledge Hub is operating since 2019 and is hosted by Tbilisi State University. It is headed by an Academic Director, appointed by the Rector of the Tbilisi State University, currently David Prangishvili, MAE. The Academic Director and the Advisory Board ensure the strategic direction and activities of the Hub.



**ALEXANDER TSISKARIDZE**



**DAVID LORTKIPANIDZE**



**DAVID PRANGISHVILI**



**EVA KONDOROSI**



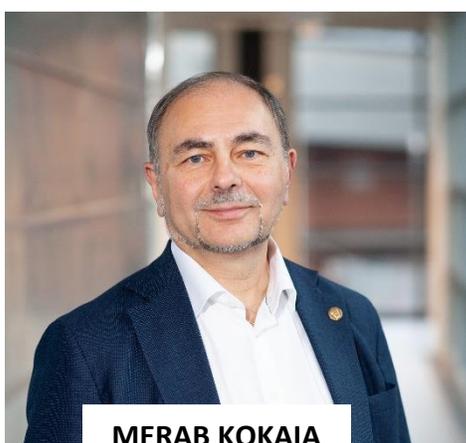
**GEORGE GEGELASHVILI**



**GEORGE SHARVASHIDZE**



**KATE TCHANTURIA**



**MERAB KOKAIA**



**MIKHEIL CHKHENKELI**



**ZAAL KOKAIA**

# Panel of Experts

## Panel Session: The Fiasco of Federalism in the Caucasus: The Experience of the First Republics (1918-1921)



Convener:  
**Beka Kobakhidze**  
*Ilia State University,  
Georgia*



Speaker:  
**Adrian Brisku,**  
*Charles University in Prague,  
Czech Republic*



Speaker:  
**Sarah Slye,**  
*University of Cambridge,  
UK*



Speaker:  
**Timothy Blauvelt,**  
*American Councils for  
International Education*

The Panel Session held on 30<sup>th</sup> March 2021 featured important contributions from four highly eminent experts from various European universities in the field of Georgian history. The panel session was followed by a great response, which was clearly illustrated by the large amount of visitors in the virtual space.

It's been dedicated to the history of Federalism in the Caucasus and marked the 100 years since the Soviet invasion of the Democratic Republics of the South Caucasus.

The panel session pursued the following objectives:

- a) consideration of federalism from a historical point of view as an alternative to the real politics of the 20th-century and the Caucasian Democratic Federal Republic as the first official materialization of this political alternative.
- b) An overview of the events that took place exactly 100 years ago, which were called The Occupation of the Transcaucasian Countries by Bolshevik Russia.

Considering that 2021 marked the 100th anniversary of the loss of independence by the democratic republics of Transcaucasian region, this issue has become very relevant not only for the Georgian, but also for the international community.

# International Conferences, Workshops and Summer Schools

## International Summer School Georgian Manuscript

15-25 July, 2021

The International Summer School "Georgian Manuscript" was held at the Korneli Kekelidze Georgian National Center of Manuscripts.

The Summer School was held in collaboration with the Tbilisi Knowledge Hub and the Catholic University of Louvain (Belgium) and with the financial support of the Shota Rustaveli National Scientific Foundation.



The International Summer School was considered for foreign and Georgian researchers and students interested in Georgian history and culture, especially in Georgian script and manuscript heritage, and were in general interested in medieval studies.

The aim of the school was to popularize Kartvelological sciences, to emphasize the miscellaneous nature of Georgian calligraphy as a product of intercultural relations, to bring an important achievements of Georgian culture to the international arena, to develop cooperation between Georgian and foreign scholars and students, promotion of the continuation of Kartvelological scientific traditions.

# International Summer School Georgian Manuscript

15-25 July, 2021

The educational program of the Summer School included exciting academic and cultural program - lectures, workshops, and excursions at the spaces related to the school theme. The course took place at the Georgian National Centre of Manuscripts, which gave the participants the unique opportunity to see the features and peculiarities of Georgian manuscripts in the collections of the Centre itself.



Restoration of the damaged sheets



Lecture in Bolnisi Sioni

# International Summer School Future Technology Leaders

23-30 August, 2021

AE Tbilisi Knowledge Hub & New Technology and Innovation Laboratory - GeoLab announced the International Summer School “**Future Technology Leaders**” all around Europe for teenagers. International Summer School was held in August, focusing on the digital technologies.



## Future Technology Leaders



International Summer School  
for Teenagers from Europe



# International Summer School Future Technology Leaders

23-30 August, 2021

The International Summer School included the following short-term courses:

- ❖ Graphic design - Adobe Photoshop
- ❖ Graphic design - Adobe Illustrator
- ❖ UI/UX design - Web Design
- ❖ UI/UX design - Mobile Design
- ❖ Unity
- ❖ Technical and Creative conceptualisation
- ❖ STEM activities using microcontroller
- ❖ Front end Web development HTML, CSS



Future Technology Leaders



The courses have been devised by experienced academics and offered both theoretical knowledge and practical workshops with experienced lecturers. A part of the lessons was project work in groups.

In addition to this, the International Summer School allowed Georgian and European teenagers to get to know each other, share their views and cultural diversity.

The course was result-oriented, which in turn involved the construction of knowledge in the field of modern technologies and the transfer of effective, dynamic and functional knowledge to participants.

A large number of applicants show great interest in the summer school. Among the participants were teenagers from Austria, France, Germany and of course, Georgia.

On September 9, 2021, a final meeting took place, at which the participants shared their work and impressions. Each participant was given a certificate.

# International Research Initiatives

## Gelati Academy – the Medieval Center for Science and Education Amidst Eastern and Western Christianity

22-24 October, 2021

On October, 2021 in the building of Kutaisi State Historical Museum, Academia Europaea Tbilisi Knowledge Hub within the project “Gelati Academy – the Medieval Center for Science and Education Amidst Eastern and Western Christianity” - Ivane Javakhishvili Tbilisi State University (TSU) and the Christian Oriental Research Center of this university - held a conference/workshop. The aim of the project is to introduce the Gelati Academy to the wider international community as one of the oldest and most important scientific and educational centers in the Christian world.



*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).*

## Gelati Academy – the Medieval Center for Science and Education Amidst Eastern and Western Christianity

The workshop organized by the Academia Europaea Tbilisi Hub, taking into account the current epidemiological situation in the country, was held in a hybrid manner. Leading scientists of various scientific institutions of Georgia took part in the meeting:

- ❖ Zaza Skhirtladze, Professor, Head of the Educational-Scientific Institute of Art History and Theory, TSU (Tbilisi);
- ❖ Damana Melikishvili, Professor (TSU), Founder and Full Member of Gelati Academy of Sciences (Tbilisi);
- ❖ Anna Kharanauli, Professor, Head of the Center for Christian Oriental Studies at TSU (Tbilisi);
- ❖ Levan Gigineishvili, TSU Professor; Doctor of Philological Sciences (Tbilisi);
- ❖ Tamar Otkhmezuri, Doctor of Philological Sciences, Head of the Department of Codicology and Textology of K. Kekelidze National Center of Manuscripts (Tbilisi);
- ❖ Magda Sukhiashvili, Doctor of Musicology, Assistant Professor at V. Sarajishvili Tbilisi State Conservatory (Tbilisi);
- ❖ Giorgi Cheishvili, Director of IV. Javakhishvili Institute of History and Ethnology (Tbilisi).
- ❖ Merab Kezevadze, Director of Kutaisi State Archive (Kutaisi).
- ❖ Nona Kartsidze, Deputy Director of N. Berdzenishvili State Historical Museum (Kutaisi);
- ❖ Tsitsino Mumladze, Curator of the Collection of the Manuscripts and Old Printed Books at N. Berdzenishvili Kutaisi Historical Museum (Kutaisi).
- ❖ Akaki Goletiani, Head of Educational Process Management Service, Gelati Theological Academy (Kutaisi).



## Gelati Academy – the Medieval Center for Science and Education Amidst Eastern and Western Christianity

The meeting was virtually attended by:

- ❖ Roland Isakadze, Manager of the Kutaisi Historical-Archaeological Reserve of the Cultural Heritage Protection Agency of Georgia, A. Tsereteli State University Associate Professor (Kutaisi);
- ❖ Marika Didebulidze, Professor, Project Coordinator of the Georgian Cultural Heritage Protection Fund (Tbilisi);
- ❖ Ekaterine Gedevanishvili, G. Chubinashvili Georgian Art History and Monument Protection Research Center (Tbilisi);
- ❖ Magda Mtchedlidze, Professor at the TSU Institute of Classical Philology, Byzantine Studies and Neo-Greek Studies (Tbilisi).

The meeting was also attended by a well-known specialist in Byzantine art, Professor Anthony Eastmond, the Courtauld Institute of Art (London, UK).

Among the participants of the meeting were TSU Rector Giorgi Sharvashidze and Academic Director of the Academia Europaea Tbilisi Knowledge Hub Davit Prangishvili.

The project “Gelati Academy – the Medieval Center of Science and Education Amidst the East and the West” was launched in the late fall of 2020 at the initiative of the Academia Europaea Tbilisi Knowledge Hub. Several workshops were held during the past period where the the group of scientists involved in the project discussed various aspects of this large-scale project. This time the main topic of the meeting in Kutaisi was one important part of the project – preparation of the bilingual, Georgian and English “Handbook” about Gelati and Gelati Academy. The purpose of this book is to summarize the scientific research on Gelati and Gelati Academy in various fields and based on the summary and complex analysis of this material, to present the importance of Gelati Academy for the history of the development of the culture and the various fields of art and science (history, philosophy, philology, architecture, fine arts, music) of the medieval Eastern Christian world.

Two papers were presented at the workshop. These papers were the first, draft versions of the two sections of the forthcoming book. Magda Sukhiashvili spoke about the Gelati Chanting School, and Tamar Otkhmezuri spoke about the codicological and palaeographic peculiarities of the manuscripts containing writings and translations of medieval authors working and living in Gelati. Discussion of these papers helped the group of scholars to better define the overall character of the forthcoming book and the requirements for authors.

At the end of the workshop, the participants viewed the exposition of the Kutaisi State Historical Museum and the unique manuscript books preserved in the museum.



# Gelati Academy – the Medieval Center for Science and Education Amidst Eastern and Western Christianity

4 December, 2021

On December 4, 2021 in the building of Tbilisi State University, within the framework of the project “Gelati Academy – the Medieval Center of Science and Education Amidst the East and the West” – Academia Europaea Tbilisi Knowledge Hub held a next workshop.

Due to the current epidemiological situation in the country, the meeting was held in a mixed form.

Given the large number of issues in the presented plan, the initiative group decided to involve more scientists in the project, including European colleagues. The group discussed the list of issues and the list of participating scientists.



# National Essay Writing Competition

## Gelati Academy – One of the Oldest Educational and Spiritual-Intellectual Center in Europe

May - December, 2021

The AE Tbilisi Knowledge Hub, as part of the Pan-European Academy of Sciences, has launched a series of annual school-educational competitions called "School – where the science begins", which aims to develop scientific research skills in schoolchildren in various fields of knowledge.

The theme of the first competition of the cycle was about Gelati Academy as one of the oldest educational and spiritual-intellectual centers in Europe. The target audience of the competition was students of the 9<sup>th</sup>-12<sup>th</sup> of Georgian public and private schools.

The essay competition envisaged the writing of an essay by students based on the analysis of existing scientific materials about the Gelati Academy, focusing on the following issues:

- Historical preconditions for the establishment of Gelati Academy: political, social and economic situation in Georgia and its neighborhood of the 11<sup>th</sup>-12<sup>th</sup> centuries;
- Schools and education centers in antiquity and the Middle Ages;
- Historical figures related to Gelati Academy;
- Gelati Academy - the most important educational center of the Middle Ages: "Another Athens and the Second Jerusalem - a school for youngsters";
- Gelati literary products;
- Gelati, as a symbol of Georgian original culture, Gelati heritage.



**Gelati Academy – One of the Oldest Educational and Spiritual-Intellectual Center in Europe**



## Gelati Academy – One of the Oldest Educational and Spiritual-Intellectual Center in Europe

Students from Atskuri, Gori, Lagodekhi, Martvili, Ozurgeti, Kareli and other municipalities of Georgia participated in the competition. The evaluation of the papers was carried out in several stages. Within the framework of the competition, the participants listened to two lectures on Gelati Academy, which were delivered by Prof. Damana Melikishvili (Doctor of Philological Sciences, Professor, Academician of Gelati Academy of Sciences) and Dr. Roland Isakadze (Doctor of Historical Sciences, Archbishop of Kutaisi).

The evaluation of the works was carried out in three stages: Stage I - selection of the submitted essays; Stage II - interview with the authors of the selected essays; Stage III - Identifying the winners of the competition.

Managing Director of AE Tbilisi Knowledge Hub, Sofia Kobakhidze, and Deputy Rector of Tbilisi State University IJ, Nino Okribelashvili, awarded the participants, finalists and winners of the essay competition. The event was hosted by Tbilisi State University. At the awards ceremony, students were presented with prizes and certificates.



# Management and Resources

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