



EUROPEAN ACADEMY
of Sciences and Arts

2024
ANNUAL REPORT

ANNUAL REPORT 2024

Office

European Academy of Sciences and Arts

St.-Peter-Bezirk 10
5020 Salzburg, Austria

Phone: +43/662/84 13 45

Fax: +43/662/84 13 43

E-Mail: office@euro-acad.eu



Copyright © 2025 by European Academy of Sciences and Arts. All rights reserved. Under the provisions of the Copyright Acts, individual readers are permitted to make fair use of the material for teaching and research. Permission is granted to quote from the "Annual Report" provided that the customary acknowledgment is made of the source.

In memoriam

Hillar Aben, Estonia
Ludwig Adamovich, Austria
Robert Dassanowsky, USA
Giuseppe D'Ascenzo, Italy
Maurizio Luigi Cumo, Italy
Peter Demetz, USA
Paul König Hertig, Switzerland
Former Archbishop of Salzburg Alois Kothgasser, Austria
Gottfried Konecny sen., USA
Fedja Košir, Slovenia
Hans Joachim Meyer, Germany
Ernst-Joachim Mestmäcker, Germany
Achim Müller, Germany
Mária Omastová, Slovakia
Janez Orešnik, Slovenia
Günter Petzow, Germany
J.Hanns Pichler, Austria
Maurizio Pollini, Italy
Jordan Pop-Jordanov, Macedonia
Ferdinand Reisinger, Austria
Wolfgang Rihm, Germany
Richard Serra, USA
Klaus Töpfer, Germany
Pavel Traubner, Slovakia
Rainer Warnig, Germany
Abt Notker Wolf, Germany

R.I.P.



VISION & MISSION

The European Academy of Sciences and Arts shall:

- + Identify and analyse European challenges
- + Provide advice to European institutions wherever the Academy has expertise
- + Develop a culture of collaboration and building bridges
- + Promote transnational / interdisciplinary research and produce significant outputs
- + Strengthen the role of scientific communities and European scholarship
- + Foster cooperation between research and industry
- + Solve complex issues identified as priority for the wellbeing of all Europeans

The objectives shall be achieved through:

- + Conferences, symposia, panel discussions
- + Publications
- + Cooperations with universities, scientific institutions and any other organization sharing similar objectives

Contents

I. Preface.....	7
II. General Information	9
Senate	11
Delegates	11
Honorary Members	12
Office Salzburg	15
Foundations	16
III. Events 2024	17
IV. PEASA / The Journal of EASA.....	29
V. Tolerance Project / Ongoing EASA Class VII projects.....	40
VI. Reports.....	43
Awarding of the Tolerance prize to Mag. Dr. Harald Wögerbauer	43
The Danube Academies Conference (DAC) in Belgrade	44
Inauguration of Rector Professor Dr. Ludvik Toplak (AMEU).....	48
WAAS Conference – Global Peace Offensive (WAAS/AMEU & EASA)	50
Science and Technology Forum Shanghai/China	52
VII. Honours and Awards 2024	54
Awarding of the Honorary Doctorate to EASA President Klaus Mainzer ...	54
Björn Brücher elected to the Board of Trustees of the David Ben-Gurion Foundation	55
Awarding of the Dimitrie Cantemir Medal to Violeta Dinescu, Dean of Class III.....	56
Zaslavsky Award to Anastasios (Tassos) Bountis, Class IV	57
Medal of Honour to Yannis A.Phillis, Class VI.....	58
Awarding of the Honorary Professor to Ioannis Liritzis, Dean of Class IV...	59
Awarding of the Excellency Award and the Gold Medal of the Republic of Cyprus to Marios Ioannou Elia, Class III.....	60
Awarding of the Dimitrie Cantemir medal and the UNESCO medal to EASA President Klaus Mainzer.....	61
VIII. New Members elected by the Senate 2024	62
IX. Multimedia	67

I. PREFACE



Klaus Mainzer, President
© Udo Keller Stiftung Hamburg

Dear member of the European Academy of Sciences and Arts,

It is my pleasure to present to you the annual report 2024. As President, I am grateful for the cooperation with the Presidium and Senate, the initiatives of all the Deans and all Academy members, which are documented in the following report on events, workshops and conferences in 2024.

In the age of digitalisation, online events are of great importance to the Academy due to time constraints, the distance between Academy members and, not least, the costs involved. As can be seen from the Academy's annual report, many interdisciplinary and international events have been organised during the last year. However, traditional face-to-face events were

also continued in the Academy's tradition, such as the annual Tolerance Award ceremony and the Danube Conferences, which are organised alternately by the academies of the Danube countries on interdisciplinary topics under the patronage of the European Academy.

Cooperation with the Alma Mater Europaea is a key issue for the future of the Academy. This European umbrella organisation brings together various national teaching and research institutions in which topics from the European Academy are offered in courses and lectures. Although the Alma Mater Europaea is legally independent of the European Academy, it contributes to the dissemination of the Academy's aims and ideas in Europe. An example was the foundation of the Alma Mater Europaea in Maribor (Slovenia) as a state-accredited university with the inauguration of its first president, Ludvic Toplak, the former rector of the University of Maribor.

Accordingly, the 'Interdisciplinary Centre of Education' (INTERCEDU) was established in Bratislava (Slovakia) by a sponsor and an honorary senator of the Academy, where the Academy will be able to hold events in the future.

The new 'Institute for International Relations and Research Cooperation', which was recently built by another Honorary Senator of the European Academy in Austria and which will work towards the UN's Sustainable Development Goals

(SDGs), is of central importance. This conference center will contribute to the dissemination of the ideas of the European Academy.

On 6 March 2025, our last workshop in the winter semester 2024/2025 will take place, at which the future prospects of scientific developments will be considered from an interdisciplinary perspective. Recent events on the global AI market show just how right we were with our position paper on digitalisation and AI in the beginning of this presidency. Last year, our Academy contributed to the guidelines on generative AI, which were published in one of the world's leading journal NATURE. But anyone who thought that ChatGPT was the last word was mistaken. The chatbot Deepseek from China is currently shaking up the American AI market with all its big supercomputers, big energy and big money, with smaller, equally efficient but cheaper models. We at the Academy will continue to keep our eye on the ball in this hot worldwide competition for future innovations.

Despite all the new initiatives, I am deeply impressed by the spiritual legacy of this Academy, with which the founders once began - the mission of a 'spiritual unity of Europe', as it says in § 2 of the statutes. Since the beginning of this term in 2020, the world situation has changed dramatically. We are living in a time of profound conflicts, armed clashes and domestic intolerance.

Although the European Academy is not a political organisation, its statutes state that it should promote tolerance and cooperation in the arts and sciences in Europe. This is the central vision of the Academy. With this in mind, a joint declaration was recently signed together with the World Academy of Arts and Sciences (WAAS). The World Academy of Arts and Sciences was inspired and initiated at the beginning of the Cold War by Albert Einstein and Bertrand Russell, two outstanding scholars and Nobel Prize winners of the 20th century.

We hope that reading this report will inspire many members to enrich the life of the Academy with initiatives and events.

Klaus Mainzer
President

II. GENERAL INFORMATION



Who we are

The European Academy of Sciences and Arts is a non-governmental, European association committed to promoting scientific and societal progress. Founded in 1990 as a learned society, our 2,000 members are leading scientists, artists, and practitioners of governance, who are dedicated to innovative research, interdisciplinary and transnational collaboration as well as the exchange and dissemination of knowledge. Academy members are elected for their outstanding achievements in science, arts, and governance.





How to become a member

Membership criteria

The primary criterion for membership is sustained academic excellence in a specific field. This does not necessarily apply to class III (Arts), class VII (World Religions). A candidate must in any case be able to think interdisciplinary and contribute to the mission and vision of the Academy. EASA wants to elect scientists, scholars and experts of international distinction, irrespective of nationality, gender, location or discipline.

Nomination and election process

A proposal for a new member can only be submitted by an existing member of the Academy, i.e. you cannot nominate yourself. If you want to nominate a candidate, please complete the official nomination form, sign it, and send it (with CV and publication list) via e-mail to presidential.office@euro-acad.eu. Please note that nomination proposals must be submitted in electronic form and can be submitted at any time.

However, if your nominee should be considered for the next Festive Session, your nomination has to be submitted by October 1st the latest (no exceptions!). If the dossier is complete, it will be sent to the Dean (chairman) of the respective class and the respective member of the Nomination Committee, who both evaluate the qualifications of the nominee. After the evaluation process has been completed, the candidate and the evaluations will be presented to the members of the Senate, who decide about the membership. If a candidate is finally approved of and elected by the Senate, he/she will receive a “letter of election” by the President.

For further details of the nomination procedure, please, contact the presidential office (ingrid.vierthaler@euro-acad.eu)

Senate of the Academy

Presidency

President	Klaus Mainzer
Vice-President	Birgit Harreß
Vice-President	Wolfgang Plastino
Vice-President	Ursula Schmidt-Erfurth
Treasurer	Karl Salm Reifferscheidt
Secretary	Kristin De Troyer
Honorary President	Felix Unger

Deans

Humanities	Andreas Önnersfors / Vice Dean Bostjan Marco Turk
Medicine	Dušan Šuput
Arts	Violeta Dinescu
Natural Sciences	Ioannis Liritzis
Social Sciences, Law and Economics	Kurt Schmoller
Technical and Environmental Sciences	Sergio Orlandi
World Religions	Mariano Delgado

Delegates

Austria	Meinhard Kneussl
Australia	Thomas Reuter
Belgium	Gunnar Riebs
Canada	Rajeshwar D. Tyagi
China	Chi Zhang
Croatia	Velimir Srića
Cyprus	Kostas Gouliamos
Czech Republic	Marek Hrubec

Denmark	Zhe Chen
Finland	Juhani Laurinkari
France	René Moletta
Germany	Vahé Barsegian
Georgia	George Kvesitadze
Greece	Emmanuel G. Fragoulis
Hungary	Attila Pók
Iran	Ali Kaveh
Italy	Fabrizio Vestroni
Lebanon	Youssef Fares
Moldova	Gheorghe Duca
North Macedonia	Radmil Polenaković
Poland	Lucjan Pawlowski
Romania	Marius-Ioan Piso
Russia	Mikhail Ugryumov
Serbia	Slobodan Grubačić
Slovakia	Štefan Luby
Slovenia	Ludvik Toplak
Spain	Carlos Gómez Lámbarri
Sweden	Yihai Cao
Switzerland	Bert Müller
Taiwan	Reuben Jih-Ru-Hwu
Turkey	Veton Hoxha
United Kingdom	Xin Shi
USA (West)	Bruce Janigian
USA (East)	Andrew Balas

Honorary Members

Protectors

H.M. King Philippe of Belgium	Borut Pahor (Slovenia)
Milo Đukanović (Montenegro)	Alexander Van der Bellen (Austria)

Former Protectors

Andris Bērziņš	Doris Leuthard
Jerzy Buzek	Tomislav Nikolić
Flavio Cotti	Karolos Papoulias
H.M. Juan Carlos de Borbón	Romano Prodi
Joseph Deiss	Jacques Santer
Heinz Fischer	Rudolf Schuster
Ivan Gašparovič	Danilo Türk
Gjorge Ivanov	Vaira Vīķe-Freiberga
Ivo Josipović	Franz Vranitzky
Milan Kučan	Valdis Zatlers
Norbert Lammert	

Honorary Senators

Tibor Asbóth	Stefan Luby
Dora Bakoyannis	Andreas Penk
Sali Berisha	Peter Ramsauer
France Bernik	Petra Roth
Karl Bornschein †	Jürgen Rüttgers
Erhard Busek †	Sigram Schindler
Franz Fischler	Rudolf Scholten
Alfred Gusenbauer	Leo A. Seufert
Erich Hödl	Michael Spindelegger
Erwin Huber	Dorothee Stapelfeldt
Daisaku Ikeda †	Klaus Stierstadt
Jean-Claude Juncker	Erwin Teufel
Viktor Klima	Guy Verhofstadt
Ulrich Kubinger	Christian Wulff

Nobel Prize Laureates

Physics, 2023	Ferenc Krausz
Physics, 2022	Anton Zeilinger
Physics, 2021	Klaus Hasselmann
Chemistry, 2020	Emanuelle Charpentier
Chemistry, 2016	Fraser Stoddart
Physiology or Medicine, 2014	May-Britt Moser
Physics, 2013	Peter Higgs
Physics, 2013	François Englert
Physiology or Medicine, 2013	Thomas Südhof
Physiology or Medicine, 2011	Jules A. Hoffmann
Physics, 2011	Brian P. Schmidt
Chemistry, 2011	Dan Shechtman
Physics, 2010	Andre Geim
Physics, 2010	Konstantin Novoselov
Medicine, 2008	Luc Montagnier
Medicine, 2008	Harald zur Hausen
Chemistry, 2007	Gerhard Ertl
Physics, 2007	Peter Grünberg
Economics, 2006	Edmund S. Phelps
Physics, 2005	Theodor W. Hänsch
Chemistry, 2004	Aaron Ciechanover
Chemistry, 2002	Kurt Wüthrich
Economics, 2002	Joseph E. Stiglitz
Chemistry, 2001	Ryoji Noyori
Medicine, 2001	Sir Paul Nurse
Physiology or Medicine, 2001	Tim Hunt
Physics, 2001	Wolfgang Ketterle
Physics, 2000	Zhores I. Alferov
Physiology or Medicine, 2000	Eric Kandel
Chemistry, 1995	Paul J. Crutzen
Physics, 1991	Erwin Neher
Peace, 1990	Mikhail Gorbatschow
Chemistry, 1988	Robert Huber
Physics, 1986	Gerd Binnig
Peace, 1985	Bernhard Lown
Medicine, 1981	Torsten N. Wiesel
Medicine, 1978	Werner Arber

Office Salzburg

The Academy is situated in St. Peter in the heart of Salzburg and is managed by

- + Ms. Ingrid Vierthaler (Membership Management)
- + Ms. Doris Klinda, BA phil. (International Relations and Marketing)



Ingrid Vierthaler, Doris Klinda



Office in Salzburg, St. Peter Bezirk 10, © European Academy of Sciences and Arts

Foundations

Austrian Foundation

The European Academy of Sciences and Arts holds a foundation in Austria entitled Academia Scientiarum et Artium Europaea Privatstiftung. It was established on 24th of November 2004 in Vienna. The foundation aims at raising additional funds for the European Academy of Sciences and Arts.

Executive Board

Felix Unger, Roland Kickingner, Karl Salm-Reifferscheidt

Supervisory Board

Bob Djavan, Michael Conrad, Herbert Groeger, Christoph Thun-Hohenstein, Martin Stieger, Christian Strasser

„Academia Scientiarum et Artium Europaea“ Privatstiftung

St. Peter Bezirk 10
5020 Salzburg
Austria

III. EVENTS 2024



Klaus Mainzer, © wildbild

January

[COLLOQUIUM – Arts meet Sciences](#)

WINTER SEMESTER 2024:

26 January / Birgit Harreß (Class I) & Hermes Andreas Kick (Class I)

Organization Committee: Violeta Dinescu, Dean of Class III & Dušan Šput, Dean of Class II

February

[EXHIBITION of Monika Fioreschy](#)

The exhibition of the weaving artist Monika Fioreschy (Class III), took place at the Museum Moderner Kunst Wörlen in Passau from 3 February 2024 – 14 April 2024.

March

[12th INTERNATIONAL CONFERENCE - It's About People 2024, AMEU & EASA](#)

8-13 March, Alma Mater Europaea – Evropski centre, Maribor

Workshop: Reviving the Dialogue between History and Philosophy of Science and Technology

11–12 March, Research Institute Deutsches Museum Munich (Library Building, Old Seminar Room 1402)

Lecture Klaus Mainzer (President EASA/TUM): From Computing to AI - Logical, Mathematical, and Technical Foundations

LECTURE Klaus Mainzer „Rationality through artificial intelligence?“

19 March, Centre for Philosophy of Science at the University of Münster

April

WORKSHOP on STEMAC

5 April, Workshop during the Festive Plenary Days, Coordination & Chair: Ioannis Lirtzis, Dean of Class IV.

Katholisch-Theologische Fakultät, University of Salzburg

Salzburg Tolerance Talks

5 April, Moderation & Chair: Mariano Delgado, Dean of Class VII; Jean Ehret, Vice-Dean Class VII.

Kapitelplatz 6, A-5020 Salzburg | Chapter House above cathedral bookshop

Evening Reception

The Evening Reception for all members and guests on 5 April at the Salzburg Residence

General Assembly 2024

6 April, Great Assembly Hall, University of Salzburg, Max-Reinhard-Platz

Festive Session 2024

6 April – Inauguration Ceremony: Our new members were officially inaugurated during our annual Festive Session

Awarding of the Paul Crutzen Medal to Emmanuelle Charpentier, Nobel Prize Laureate in Chemistry 2020 (Class IV)



Awarding of the Paul Crutzen Medal to Emmanuelle Charpentier (Class IV), Festive Plenary 2024
© Wildbild | Klaus Mainzer, Brigitta Pallauf, Felix Unger, Emmanuelle Charpentier, Ulrich Kubinger (VTA), Michael Tsalka and Irina Muresanu (Music)

Colloquium – Art meets Science

Continuation of the online colloquium series in Summer Semester 2024:

12 April 2024 to 5 July 2024, 12 April / Ioannis Melanitis & Günter Schiepek (Class II), organising committee: Violeta Dinescu, Dean of Class III & Dušan Šuput, Dean of Class II

Colloquium – Art meets Science

26 April / Thorsten Gubatz & Leszek Roszkowski (Class IV), organising committee: Violeta Dinescu, Dean of Class III & Dušan Šuput, Dean of Class II

May

Colloquium – Art meets Science

10 May / Kilian Schwoon & Katica Kulavkova, organising committee: Violeta Dinescu, Dean of Class III & Dušan Šuput, Dean of Class II

INTERNATIONAL FESTIVAL Chisinau – The Days of New Music/Minguet Quartet

15–19 May and 27 May, Chisinau, artistic director: Ghenadie Ciobanu, Class III; violin: Irina Mureșanu, Class III

National Philharmonic Symphony Orchestra Chisinau, Conductor: Mihai Agafita

Second Quantum Afternoon

16 May, Institute for Advanced Study, Lichtenbergstraße 2a, Auditorium

IAS & TUM, Speech Klaus Mainzer (TUM/EASA) / From the Quantum World to Quantum AI

Colloquium – Art meets Science

24 May / Dieter Mack, Class III & Marko Robnik, Class IV; organising committee: Violeta Dinescu, Dean Class III & Dušan Šuput, Dean Class II

Third Summit on „Responsible use of generative AI for Science and Society“

29 May, Paris Institute for Advanced Studies Hôtel de Lauzun, 17 quai d'Anjou, Île Saint-Louis, Organizing Committee: EASA President Klaus Mainzer, Claudi Bockting, Centre for Urban Mental Health & University of Amsterdam (UMC), Institute for Advanced Study (Class II), Dr. Evi-Anne van Dis, Amsterdam UMC, Dr. Olivier Bouin, International network of University-Based Institute for Advanced Study

From Computing to AI- Logical, Mathematical, Technical, and Philosophical Foundations

31 May, Università degli Studi Florence, Italy/Dipartimento di Lettere e Filosofia, via della Pergola 60 – Firenze Sala Altana, Seminario di Logica e Filosofia della Scienza held by President Klaus Mainzer

June

Interdisziplinäres Symposium

6 – 8 June, Die Vielfalt mystischer Erfahrung / Theologische, philologische und religionswissenschaftliche Annäherungen | MIS 03 3117, an der Universität Freiburg, Schweiz, Theologische Fakultät, Institut für das Studium der Religionen und den Interreligiösen Dialog; Organisation: Mariano Delgado, Freiburg, Dean of Class VII; Volker Leppin, Yale University, Class VII www.unifr.ch/theo | www.unifr.ch/ird

Theodor Billroth Lectures

5 June – 4 December 2024, Berliner Wissenschaftliche Gesellschaft (BWG), the Theodor-Billroth-Academy with its International Consortium of Research Excellence (INCORE), take care about the original approach of natural scientists (German: Naturforscher): ‘We advance interdisciplinary & critical thinking!’ Under the Chair of Björn Brücher, Class II; online

Colloquium – Art meets Science

7 June / Sylvia Hinz & Milutin Djurickovic, Class III; organising committee: Violeta Dinescu, Dean of Class III & Dušan Šuput, Dean of Class II

July	<p><u>7th Tumour Symposium</u> 15 June / Carl Thiem Clinicum Cottbus, under the patronage of EASA and Berliner Wissenschaftliche Gesellschaft, Scientific management and organisation: Björn Brücher, Class II</p> <p><u>Colloquium – Art meets Science</u> 21 June / Danhong Yu; Yue Yan; Wolfgang Mastnak, Class I; organising committee: Violeta Dinescu, Dean of Class III & Dušan Šuput, Dean of Class II</p> <p><u>SYMPOSIUM on the occasion of the 85th birthday of Ernst Ulrich von Weizsäcker, Class IV</u> 3 July / VDW Berlin</p> <p><u>Book Launch Event – Transformation Towards Sustainability</u> 3 July / RWTH Aachen University; Lecture: Klaus Mainzer (TU München, EASA, Member of the scientific advisory board of the BMBF Future Cluster „NeuroSys - AI“ and the Käthe Hamburger Kolleg „Cultures of Science“) / „Future through Innovation and Transformation“</p> <p><u>Colloquium – Art meets Science</u> 5 July / Graham Waterhouse & Annette Kerckhoff; organising committee: Violeta Dinescu, Dean of Class III & Dušan Šuput, Dean of Class II</p> <p><u>Seminar Series Quantumness</u> Focus Group: Quantum Logic and the Second Quantum Revolution</p> <p>9 July / Institute for Advanced studies (IAS), Technical University Munich; Organized by Roberto Giuntini (Philosopher in Residence TUM), Class I, and his hosts: Hans-Joachim Bungartz, Stefania Centrone and Klaus Mainzer</p>	<p>August</p> <p><u>Summer School “The Path to Scientific Discoveries”</u> 27–31 August / Opening Ceremony / Opening message: Ioan Tiginyanu, President of the Academy of Sciences of Moldova, Class IV; Lectures: Ioan-Aurel POP, President of the Romanian Academy, honorary member of the Academy of Sciences of Moldova, Class I: Contemporary education through history (in Romanian); Klaus Mainzer, President EASA: Lecture on artificial intelligence; Violeta Dinescu, Dean of Class III: Degrees of freedom in Vuza Canons Academy of Sciences of Moldova</p> <p>September</p> <p><u>Seminar “Urknalls Kinder – Kosmologie poetisch”</u> 1-3 September / Physikzentrum Bad Honnef Vortrag Klaus Mainzer, Wissenschaftsphilosophie TUM, Präsident EASA: Urknall und Kosmos als Erlebniswelten – Wissenschaft und Technik treffen Literatur und virtuelle Medien</p> <p><u>Seminar Series Quantumness</u> Interdisciplinary workshop ‘Leibniz, Quantum and Beyond’ as part of the Quantumness series with physicians, physicists, mathematicians and philosophers on the background of Leibniz’s philosophy, brain research and modern quantum computing; Organisation: Roberto Giuntini, TUM, EASA, Class I; Lectures of EASA members: Michael Molls, EASA, Class II, TUM-IAS: A Short Report: Examples of my Experimental & Clinical Research; Klaus Mainzer, TUM, President EASA: Monads, Brains, and Quantum Computing</p> <p><u>Autumn School “Proof and Computation”</u> 15- 21 September / Organisation & Lecture: EASA President Klaus Mainzer; Aurachhof, Fischbachau, Munich</p>
------	---	--

[International and Interdisciplinary Scientific Conference
“Days of Frane Petric”](#)

22-28 September / Kimen Hotel, Cres, Croatia, Croatian Philosophical Society

32nd Days of Frane Petric comprise the conferences: „Non-Human Animals in Philosophy and Culture“ and „Croatian Philosophy and Culture in Interaction and Context“

President of the Organization Committee of the Days of Frane Petric: Ivo Đinić, University of Zagreb, Faculty of Humanities and Social Sciences

[XXVI. Deutscher Kongress für Philosophie](#)

22–26 September / Universität Münster, Domplatz 6, 48143 Münster.

Panel: Spruch und Widerspruch / Philosophie hören und sprechen! | Philosophie lesen und schreiben! Anke Graneß, Hildesheim; Klaus Mainzer, München; Moderation: Johannes Müller-Salo, Hannover

[Informatik Festival Wiesbaden 2024 | Konzeptionelle Herausforderungen für die KI: Souveränität](#)

24-26 September / Chairs: Reinhard Kahle, Universität Tübingen, Carl Friedrich von Weizsäcker-Zentrum; Klaus Mainzer, EASA, TUM; Hochschule RheinMain, Wiesbaden

October

[Fast Forward Future](#)

1–2 October / Chancen und Herausforderungen des hybriden Quantencomputings für eine optimierte Transformation hin zu regenerativen Wirtschaftsmodellen und Closed Circular Loops

Chair & Begrüßung: Reinhard Kahle, Carl Friedrich von Weizsäcker-Zentrum Universität Tübingen; Opening/Einführung: Klaus Mainzer, EASA President, TUM Senior Excellence, Faculty/Topic: „Zukunft durch nachhaltige Innovation“

Carl Friedrich von Weizsäcker Zentrum Tübingen

[13th Danube Academies Festival Conference \(DAC\)](#)

9–10 October, Belgrade

Organisation: European Academy of Sciences and Arts and the Serbian Academy of Sciences and Arts (SASA), central topic: Green Blue Danube

[Neurocard 2024](#)

4–5 October / 13th International Symposium on Neurocardiology / 12th International Symposium on Noninvasive Electrocardiology, Institute for Cardiovascular Diseases „Dedinje“ Belgrade, Serbia

Organizing Committee: Branislav Milovanovic, Class II, Professor of Internal Medicine and Cardiology Chairman of the meeting President of Serbian Neurocardiological Society; Milovan Bojic, Class II, Director Institute for Cardiovascular Disease, Dedinje

[Colloquium – Art meets Science](#)

11 October / Velimir Srića, Class V & Tassos Bountis, Class IV; organising committee: Violeta Dinescu, Dean of Class III & Dušan Šuput, Dean of Class II

[acatech Themenkonferenz „Grundfragen der KI – Verantwortung in Entwicklung und Anwendung“](#)

16 October / organisation & moderation: Klaus Mainzer, Präsident EASA, IBM Deutschland GmbH, Ella-Trebe-Straße 3, 10557 Berlin

[15. Freiburger Forum Weltkirche](#)

18 October / Salle, Universität Freiburg; Introduction/Einführung: Mariano Delgado, Dean of Class VII, „Die Metamorphosen der Guadalupe-Verehrung in Mexiko: von der Synkretismusgefahr zum Nationalsymbol und Inkulturationsmodell“; organisation: Mariano Delgado (Institut pour l'étude des religions et le dialogue interreligieux | Centre d'études pastorales comparées / Institut für das Studium der Religionen und den interreligiösen Dialog | Zentrum für vergleichende Pastorlatheologie)

November

[Conference KI and Peace & Promotion Ceremony](#)

21–22 October / Global Peace Offensive Meeting of AMEU, WAAS & EASA; Key Note Speech: President Klaus Mainzer, „Artificial Intelligence for Education and Peace“, National Theatre Maribor

[Online-Lecture – Klaus Mainzer on Artificial Intelligence: From Digital to Brain-Orientated and Quantum Computing](#)

24 October / EASA President Klaus Mainzer gave an online lecture on AI as part of the ‘Oversea’s Scholar Speech Programme’ of Peking University

[Colloquium – Art meets Science](#)

25 October / Jose Molero Zayas & Anna Rubin; organising committee: Violeta Dinescu, Dean of Class III & Dušan Šuput, Dean of Class II

[5th European Medical Forum South Tyrol](#)

26 October / Prof. Winkler’s (Peter Winkler, Class II) Gesundheitstreff Cuore e Cervello & Jazz & Pearls, Tannerhof, Girlan; Eppan, Sektmanufaktur Winkler Eppan

[Engineering Science and Technology Forum of Chinese Academy of Engineering](#)

6 and 8 November / Lectures: Klaus Mainzer; at Siping Campus, Tongji University

[ICIITSHA 2024 – Conference on Innovation and Integration](#)

„A symphony of history, technology and art“; 10–11 November; Keynote Speakers: Klaus Mainzer, President EASA; Ioannis Liritzis, Editor in Chief of Herança, Dean of Class IV; Thomas E. Levy, Class I, University of California, San Diego; Riccardo Pozzo, Class I, University of Rome; organized by: Herança – History, Heritage, and Culture Journal/Chang Liu - IASHTA 2024 Conference and Ioannis Liritzis, Dean of Class IV, EASA / AMEU

December

[Colloquium – Art meets Science](#)

8 November / Irene Kurka & Ernst Pöppel, Class II; organising committee: Violeta Dinescu, Dean of Class III & Dušan Šuput, Dean of Class II

[Awarding of the Tolerance Prize to Harald Wögerbauer](#)

14 November, Springer Schössl, 1120 Vienna; Organization: VP Birgit Harreß, Class I

[Colloquium – Art meets Science](#)

22 November / Andreas Goldschmidt, Class V & Andrew Balas, Class II; organising committee: Violeta Dinescu, Dean of Class III & Dušan Šuput, Dean of Class II

[2nd International Symposium Post Covid Syndrome and Chronic Fatigue Syndrome](#)

22 November / organised by Milovan Bojić and Branislav Milovanović, Class II; Location: New Amphitheatre of Dedinje 2 Facility, Institute for Cardiovascular Diseases „Dedinje“, Belgrade, Serbia

[Colloquium – Art meets Science](#)

6 December / Monika Czernin & Vladimir Scolnic; organising committee: Violeta Dinescu, Dean of Class III & Dušan Šuput, Dean of Class II

[3rd Comprehensive Berlin Anatomy Course for Neurosurgery](#)

6–8 December, / Course Director: Peter A. Winkler, Class II

[CAMTP – 21st Christmas Symposium of Physicists](#)

12–14 December / Hotel Habakuk, Maribor, Slovenia

Chair: Marko Robnik, Class IV, Director Center for Applied Mathematics and Theoretical Physics University of Maribor; Opening address and lecture („From Physics to AI“): Klaus Mainzer, President EASA

[Awarding of the „Dimitrie Cantemir“ medal and the UNESCO medal to EASA President Klaus Mainzer](#)

19 December / Lecture: Klaus Mainzer, ‘Artificial intelligence in science and education’, Academy of Sciences, Moldova

Colloquium – Art meets Science

20 December / Laura Baudis & Maria Miraglia, Class III;
organising committee: Violeta Dinescu, Dean of Class III &
Dušan Šuput, Dean of Class II



© wildbild, Festive Plenary 2024

IV. PEASA THE JOURNAL OF THE EASA



Proceedings of the
EUROPEAN ACADEMY
of Sciences & Arts
PEASA

The European Academy of Sciences and Arts publishes its first scientific journal, Proceedings of the European Academy of Sciences and Arts (PEASA) (www.peasa.eu). PEASA was initiated by Ioannis Liritzis, Editor-in-Chief and Dean of Class IV, EASA and developed in 2022 with members Andrew Balas, Beatrix Hiesmayr, Marc Huett, David Kumar, Antonio Marquina, Dusan Šuput and Peter Herrmann.

The mission of PEASA is to promote innovative, interdisciplinary, and transnational research that serves the advancement of Europe and the World. Topics for article submission include but are not limited to: Humanities; Social Sciences; Medicine & Health Issues; Natural Sciences; Comparative religions; Law, Economics & Politics; Technical & Environmental Sciences; Interdisciplinary issues; Cultural Studies; Science in Arts; Policy papers. Moreover, PEASA supports academic activities such as Colloquia, publishing relevant presentations as review or original articles.

EASA has chosen PAGEPress Publisher for management and administration services with an annual fee paid by EASA. This new administration commenced in autumn 2023 and the new platform operates from January 2024 onwards.

The PEASA Journal accepts submissions from EASA members and non-members directly via the website, please register here:

<https://www.peasa.eu/site/about/submissions>

or writing to the Editor-in-Chief: Prof. Ioannis Liritzis at

ioannis.liritzis@euro-acad.eu.

Peer Review Process

Manuscripts are assigned to a relevant Editorial Board Member. After assessment, they may be assigned to generally two but occasionally to more peer-reviewers (members or non-members). In addition to adherence to common scientific standards, reviewers should assess the interdisciplinarity of the submission, as well as the understandability across disciplinary boundaries and quality of content. If necessary, reviewers should request that the authors revise their manuscript according to these criteria.



[Peer Review
Process](#)



[Submission page
on peasa.eu](#)

Editor in Chief

Prof. Ioannis Liritzis

Editors

- ✦ Violeta Dinescu, violeta.dinescu@euro-acad.eu, Class III (Arts)
- ✦ Ioannis Liritzis, ioannis.liritzis@euro-acad.eu, Class IV (Natural Sciences)
- ✦ Mariano Delgado, mariano.delgado@euro-acad.eu, Class VII (World Religions)
- ✦ Bostjan Marko Turk, Class I (Humanities)
- ✦ Sergio Orlandi, sergio.orlandi@euro-acad.eu, Class VI (Technical & Environmental Sciences)
- ✦ Dusan Šuput, dusan.suput@mf.uni-lj.si, Class II (Medicine)
- ✦ Kurt Schmoller, kurt.schmoller@plus.ac.at, Class V (Social Sciences, Law & Economics)

Editorial assistant: Doris Klinda, doris.klinda@euro-acad.eu

Legal Editor ex Officio: Klaus Mainzer

Members of the Editorial Board

- ✦ Andrew Balas, andrew.balas@augusta.edu, Class II
- ✦ Claudi Bockting, c.l.bockting@amsterdamumc.nl, Class II
- ✦ Mauro Cappelli, mauro.cappelli@enea.it, Class VI
- ✦ Tiziana Catarci, catarci@diag.uniroma1.it, Class IV
- ✦ Kristin De Troyer, kristin.detroyer@euro-acad.eu, Class VII
- ✦ Jean Ehret, director@lsrs.lu, Class VII
- ✦ Birgit Harreß, birgit.harress@euro-acad.eu, Class I
- ✦ Ulrich Hemel, hemel@weltethos-institut.org, Class VII
- ✦ Peter Herrmann, herrmann@esosc.eu, Class V
- ✦ Marc-Thorsten Hütt, M.Huett@jacobs-university.de, Class IV
- ✦ David Kumar, david@fau.edu, Class IV
- ✦ Antonio Marquina, amarqbar45@gmail.com, Class V
- ✦ Riccardo Pozzo, riccardo.pozzo@uniroma2.it, Class I
- ✦ Ortwin Renn, ortwin.renn@iass-potsdam.de, Class VI
- ✦ Marko Robnik, robnik@uni-mb.si, Class IV
- ✦ Gerit-Holger Schernthaner, gerit.schernthaner@meduniwien.ac.at, Class II
- ✦ Ursula Schmidt-Erfurth, ursula.schmidt-erfurth@euro-acad.eu, Class II
- ✦ John S. Torday, jtorday@ucla.edu, Class II
- ✦ Bostjan-Marko Turk, bostjan-marko.turk@guest.arnes.si, Class I
- ✦ Desheng (Dash) Wu, dash.wu@gmail.com, Class V
- ✦ Ewa Ziemba, ewa.ziemba@ue.katowice.pl, Class V

2024: Indexing and Articles

During the past year 17 articles have been published.

PEASA is currently registered in:



[Sherpa Romeo](#)

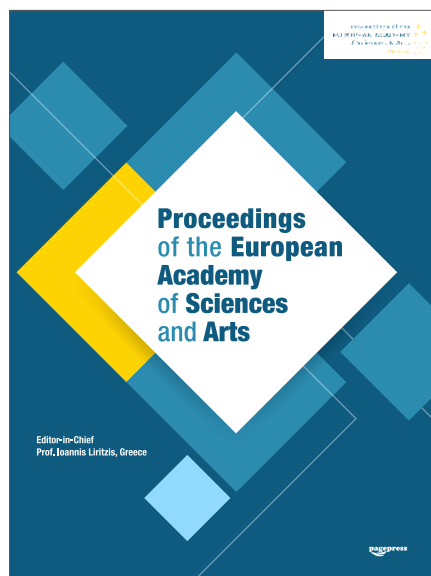


[Google Scholar](#)



www.peasa.eu
(Official website)

Articles published since 2022



PEASA Journal / Proceedings of the European Academy of Sciences and Arts

Vol. 1–3

Published Articles 2022-2024



www.peasa.eu
(Official website)

Vol. 1:

Inauguration Speech

Klaus Mainzer

Published on: July 13, 2022



[Article on peasa.eu](#)

The ancient DNA of the N.E. Mediterranean/Euro-Asian Cultures and the Position of the Mycenaean Greeks among the first Cultures

Ioannis Liritzis

Published on: August 29, 2022



[Article on peasa.eu](#)

Perspectives to Fight Viruses. The Example of Sars-CoV-2

Costas Demetzos, Panagiotis Vlamos and Dimitrios Vlachakis

Published on: October 7, 2022



[Article on peasa.eu](#)

The Dangerous Construction of National; Religious and Moral Identities in the Ukrainian War

Markus Vogt

Published on: October 13, 2022



[Article on peasa.eu](#)

The TUM Senior Excellence Faculty of the Technical University of Munich – A 15-Year Success Story

Michael Molls, Birgit Herbst-Gaebel, Joerg Eberspaecher, Herrmann Aurenhammer, Georg Faerber, Klaus Mainzer, Winfried Petry, Ralf Reichwald, Kristina Reiss, Peter Wilderer and Thomas F. Hofmann

Published on: October 17, 2022



[Article on peasa.eu](#)

Aristotle's Μετεωρολογικά: Meteorology then and now

Riccardo Pozzo

Published on: October 20, 2022



[Article on peasa.eu](https://peasa.eu)

On a Mathematical Theory of Sustainability Assessment

Yannis A. Phillis, Vassilis S. Kouikoglou, Evangelos Grigoroudis and Fotis D. Kanellos

Published on: November 4, 2022



[Article on peasa.eu](https://peasa.eu)

Costal Erosion: The Future of Sandy Beaches

Niki Evelpidou, Maria Tzouxanioti and Alexandros Liaskos

Published on: November 9, 2022



[Article on peasa.eu](https://peasa.eu)

Review of Gabriele Münnix: Das Bild vom Bild: Bildsemiotik und Bildphänomenologie in interkultureller Perspektive

Riccardo Pozzo

Published on: November 11, 2022



[Article on peasa.eu](https://peasa.eu)

Some fascinating Developments in Mathematics and Music

Emmanuel Amiot

Published on: November 30, 2022



[Article on peasa.eu](https://peasa.eu)

Poetics of Hypertimbralism in Music

Livia Teodorescu-Ciocanea

Published on: December 22, 2022



[Article on peasa.eu](https://peasa.eu)

Symmetry and Symmetry Breaking in Science and Arts

Klaus Mainzer

Published on: December 30, 2022



[Article on peasa.eu](https://peasa.eu)

Policy Papers of the Expert Groups:

EASA Expert Group: Environment, Climate, and Energy – Toward Clean Energy production

Coordinator: Sergio Orlandi

Published on: December 16, 2022



[Article on peasa.eu](https://peasa.eu)

EASA Expert Group: Digitalization, AI, and Societal Impact

Coordinator: Klaus Mainzer

Published on: December 19, 2022



[Article on peasa.eu](https://peasa.eu)

EASA Expert Group: Education, Research, Innovation (ERI)

Coordinator: Ioannis Liritzis

Published on: December 19, 2022



[Article on peasa.eu](https://peasa.eu)

Vol. 2:

Study of On-Site Upgraded Livestock Biogas Production and Carbon Emission Reduction By Substituting Coals For Thermal Power Generation

Jung Jeng Su

Published on April 12, 2023



[Article on peasa.eu](https://peasa.eu)

Music Therapy: Scientific Perspectives and Clinical Prospects

Wolfgang Mastnak

Published on: April 13, 2023



[Article on peasa.eu](#)

The Artistic Complexity of the Antikythera Mechanism: A Comprehensive Tutorial

Kyriakos Efstathiou, Marianna Efstathiou and Alexandros Basiakoulis

Published on: July 6, 2023



[Article on peasa.eu](#)

Trojan War and Epic Cycle: The Historical and Literary Version Where, How, When and Why The Trojan War Myth was invented

Vasileios L. Konstantinopoulos

Published on July 11, 2023



[Article on peasa.eu](#)

Disasters And Climatic Phenomena Today And In The Past

Ioannis Liritzis

Published on: December 21, 2023



[Article on peasa.eu](#)

Vol. 3:

Cracking the code of Earth's magnetic mysteries: ancient secrets unveiled by byzantine bricks reconfirmed by Mesopotamian ceramics

Ioannis Liritzis

Published on: January 9, 2024



[Article on peasa.eu](#)

A hermeneutics of literary identities

Katica Kjulavkova

Published on: February 9, 2024



[Article on peasa.eu](#)

EASA Expert Group: Science, Technology, Engineering, Mathematics in Arts and Culture (STEMAC)

Ioannis Liritzis & Co.

Published on: March 28, 2024



[Article on peasa.eu](#)

Neurocinematic therapy - An interdisciplinary perspective

Wolfgang Mastnak

Published on: April 23, 2024



[Article on peasa.eu](#)

FAIR reporting of clinical trials for public health practice

E. Andrew Balas & Co.

Published on: May 6, 2024



[Article on peasa.eu](#)

The myth of Gorgo/Medusa in ancient written sources

Anna Lazarou

Published on: June 4, 2024



[Article on peasa.eu](#)

Is a mathematical model equivalent to its computer implementation?

Beatrix C. Hiesmayr and Marc Thorsten Hütt

Published on: June 18, 2024



[Article on peasa.eu](#)

Interoception in mental disorders: from self-awareness to interventions

Han-xue Yang, Raymond Chan & Co.

Published on: June 18, 2024



[Article on peasa.eu](#)

GreenCompass - A self-assessment tool for fostering integration of green skills

Bojan Jovanovski, Ahm Shamsuzzoha, Radmil

Polenakovikj, Mila Velkovska, Trajce Velkovski

Published on: September 19, 2024



[Article on peasa.eu](#)

The Divine Comedy (Hell) through Aristotelian ethics and Thomistic ontology

Boštjan Marko Turk

Published on: September 24, 2024



[Article on peasa.eu](#)

Der Weltbürger aus Königsberg: Immanuel Kant heute. Person und Werk

Riccardo Pozzo

Published on: September 25, 2024



[Article on peasa.eu](#)

Venesection conducted by physicians, barber-surgeons, bell-ringers and indigenous healers in Finland over 500 years. A narrative literature review with a limited genealogical search

Jarmo Kuronen

Published on: October 4, 2024



[Article on peasa.eu](#)

Towards a unified approach to sciences and the arts

Athanassios S. Fokas

Published on: 15 November, 2024



[Article on peasa.eu](#)

An epidemical model with nonlocal spatial infections

Su Yang, Weiqi Chu, Panayotis Kevrekidis

Published on: 15 November, 2024



[Article on peasa.eu](#)

Iconographic distinctiveness of the painting the Annunciation by the Slovenian expressionist France Krajc

Boštjan Marko Turk

Published on: 18 December, 2024



[Article on peasa.eu](#)

Anti-Newtonianism in the 18th century: the case of Scotland

Derya Gürses Tarbuck

Published on: 20 December, 2024



[Article on peasa.eu](#)

Some reformulations and extensions of the theory of rhythmic canons

Dan Tudor Vuza

Published on: 30 December, 2024



[Article on peasa.eu](#)

V. TOLERANCE PROJECT / ONGOING EASA CLASS VII PROJECTS

1. Handbook of Tolerance - A mid-term review

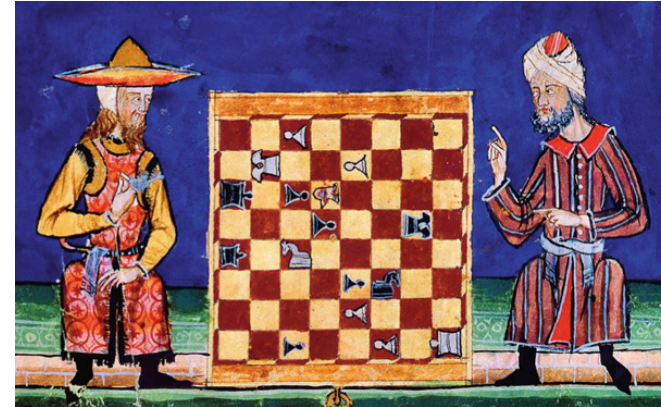
Editors: Mariano Delgado, Jean Ehret, Birgit Harreß, Volker Leppin, Heinrich Schmidinger

“Tolerance” is a central keyword for EASA, which has been awarding a prestigious ‘Tolerance Prize’ every year for several years. This handbook project was created not least for this reason. The editors discussed the concept of the handbook in two workshops in 2024: in March in Luxembourg and in December in Salzburg. The focus is on Europe, but other cultural regions will also be considered. The idea is to produce a work of around 700 pages consisting of the following parts

1. introductory essay: Tolerance - An interim assessment (max. 30 p.)
2. religions & cultures (rather systematic overview contributions with essay character, max. approx. 150 p.)
3. important authors and works (by epoch, approx. 300 pages in total)
4. systematic topics (rather systematic overview contributions with essay character, max. approx. 150 p.)
5. index (max. approx. 30 p.)

The handbook should be completed by 2028. One major concern concerns the financing of the project. The editors regret that EASA has not yet been able to provide a small share of the funding.

2. Salzburg Tolerance Talks



[Article on euro-acad.eu](https://euro-acad.eu)

Such talks are planned to take place every year in the shadow of the General Assembly. The first discussion took place on April 5, 2024 on the topic of “Universal Fraternity and Social Friendship”.



© EASA

3. Online Conversations (vernissages) about important book publications by EASA members

The first conversation of this kind will take place via zoom on January 15, 5 pm. It is about the book "Tolerance - also a history of Europe" by Prof. Heinrich Schmidinger (long-time rector of Salzburg University). Such discussions are to take place two or three times a semester in future.

And, of course, Class VII's activities include the many conferences organized by its members. The conferences organized by the Dean have been announced on the EASA portal.

Fribourg, 7.01.2025

Prof. Dr. mult. Mariano Delgado,
Dean of Class VII

VI. REPORTS

Awarding of the Tolerance Prize to Harald Wögerbauer



Fotocredit: SOCIETY/Pobaschnig | EASA President Klaus Mainzer



Fotocredit: SOCIETY/Pobaschnig | Talieh Wögerbauer, Maximilian Hennig, Birgit Harreß, Harald Wögerbauer, Klaus Mainzer, Felix Unger, Günther Ofner

The Academy's Tolerance Award honored Dr. Harald Wögerbauer for his commitment and many years of dedication to just action, as well as his commitment to intercultural and interreligious understanding, which he promoted in particular during his work as a member of the Art Restitution Advisory Board. Founded by the Federal Chancellery in 1998, this legal commission for the restitution of art objects looted during the Nazi era is constantly campaigning for restitution and compensation to the former Jewish owners or their heirs. As President and co-founder of the bilateral Austrian-German Forum, Dr. Wögerbauer is also committed to strengthening Austrian-German relations at numerous events through discussions and meetings on topics of a political, economic, social or artistic nature.

EASA Vice President and organizer of this ceremony, Prof. Dr. Birgit Harreß, presented this great award at the Springer Schössl in Vienna, in the presence of many diplomats, representatives of politics, business, science and art.

The Danube Academies Conference (DAC)

**DANUBE
ACADEMIES
CONFERENCE**



The 13th Danube Conference was organised by the European Academy of Sciences and Arts and the Serbian Academy of Sciences and Arts (SASA) in Belgrade from 9th to 10th October 2024.

The conference was dedicated to the central theme “Green Blue Danube” including all topics related to the European Green Deal – preserving Europe’s natural capital, clean air and water, sustainable use of chemicals, food safety, transformation of agriculture and rural areas, clean and affordable energy, achieving climate neutrality, sustainable transport and transition towards circular economy in the Danube Region. The representatives of the Danube Academies and experts on the foregoing topics were kindly invited to deliver lectures in English.

In 2024, the Serbian Academy of Sciences had taken on the role of host nation. In his greetings, the president of the Serbian Academy expressed his hope that, with collaborative effort, the Danube academies could make an endeavour to facilitate and foster the gradual and sustainable development of the Danube Region. The Serbian Minister of Science, Technological Development and Innovation underlined the importance of this kind of international conferences for Serbia and Europe. The president of the European Academy of Sciences and Arts (EASA) answered that the Danube Conferences are closely linked to the ideals of EASA to use the diversity of European countries and cultures for common developments in science and art. The Danube is considered as a unifying bond of nature to link the various national academies located on this great European river to jointly moving thematic conferences. As former host of the Danube conference 2023 in Ljubljana, the president of the Slovenian Academy of Sciences requested the continuity of the Danube conferences for future cooperation. The honorary president of EASA reminded the audience of the historical origin of the Danube initiative after the fall of the Iron Curtain.

Belgrade was predestined for the annual theme to take the Danube as a European river of destiny. After the Volga, the Danube is the second largest and second longest river in Europe. It flows through 10 countries (Germany,



© SASA

Austria, Slovakia, Hungary, Croatia, Serbia, Bulgaria, Romania, the Republic of Moldova and Ukraine) - more than any other river in the world. Belgrade, the capital of Serbia, is one of the oldest continuously inhabited places on its banks, with a settlement dating back some 7,000 years.

The Danube is one of the oldest and most important European trade routes. Since Roman times, many famous emperors and their entourages have travelled on and along the Danube, using the river as a travel and transport route. The river connects many species-rich and unspoiled natural areas and is an important location for hydropower plants. The Danube passes through many landscapes and climatic zones, and its flora and fauna are correspondingly diverse. Despite numerous, sometimes severe, human interventions, the river landscape is still extraordinarily rich in species in many sections. Particularly sensitive regions have been placed under protection.

Political conflicts and wars repeatedly caused the waterway to be blocked and obstructed. Since the fall of the Iron Curtain, the Danube has regained its economic importance. But, today, the rifts between East and West, South and North seem to be opening up again. The EASA president closed with the message: „The Danube has seen so much. A lot of water has run down the Danube over the centuries. It therefore takes a long breath to build a peaceful world. It will take a long breath to safeguard this marvellous natural and cultural area. This conference should contribute to this.“

The Danube conference considered the following programme:

Programme

Tuesday, October 8, 2024

	Arrival and accommodation of the participants
19:00	Welcome dinner

Wednesday, October 9, 2024

10:00	Opening and welcome messages Zoran Knežević, President of the Serbian Academy of Sciences and Arts Klaus Mainzer, President of the European Academy of Sciences and Arts Felix Unger, Honorary President of the European Academy of Sciences and Arts Jelena Begović, Minister of Science, Technological Development and Innovation
11:00–11:20	Coffee break
11:20	Session I Chair: SASA corresponding members Tanja Ćirković Veličković and Slobodan B. Marković
11:20–11:40	Cross-scale challenges and opportunities of adaptation to climate change in the upper and lower parts of the Danube Basin (Dan Bălteanu, Wolfram Mauser, Diana Dogaru, Elisabeth Probst)
11:40–12:00	CzechGlobe Green Blue Research Infrastructure contribution to Danube River-Sea System (Michal V. Marek, Jiří Kolman)
12:00–12:20	Bulgarian Space Projects in food security and transformation of agriculture (Denitza Borisova)
12:20–12:40	Contribution of UNESCO participation programs to strengthening regional cooperation in the field of renewable energy sources (Dragoljub Mirjanić)

12:40–13:00 Socio-economic vulnerability and adaptation to climate change in the Romanian Danube Valley (Bianca Mitrică, Monica Dumitraşcu)

13:00–13:30 Discussion

13:30–14:30 Lunch at the SASA Club

14:30

Session II

Chair: SASA corresponding member Vlada Veljković and Željko Tomanović

14:30–14:50 Danube basin environmental & cultural continuity during the last 6000 years (Ioannis Liritzis)

14:50–15:10 Danube loess and climate change (Slobodan B. Marković)

15:10–15:30 Food safety and the European Green Deal - Paving the way for a sustainable future (Aleksandra Martinović)

15:30–15:50 Green AI: How will AI and a sustainable future be closely integrated? (Jian Wang)

15:50–16:10 Digital Twins technology and the European Green Deal (Georgios Theodoropoulos)

16:10–16:40 Discussion

19:00 Dinner

Thursday, October 10, 2024

10:00

Session III

Chair: SASA corresponding members Tanja Ćirković Veličković and Željko Tomanović

10:00–10:20 Nature-based Solutions for the Danube River Basin Ecosystem Restoration (Miroslav Vesković, Milan Martinov)

10:20–10:40 Assessing chemical risk to ecosystem health in the Danube river basin (Gheorghe Duca, Elena Nicolau)

10:40–11:00 Ecological protection and green development in great river basins ¾ Comparison and mutual learning between the Danube and the Yangtze (Yonghui Song)

11:00–11:20	Synergistic effects of microplastics and toxic metals in (sub)urban environmental pollution in Serbia (Jelena Mutić)
11:20–11:40	Long-term mining and industrial activities affect devastatingly the lower Danube region (Velizar Stanković, Snežana Šerbula)
11:40–12:00	The influence of exploration activities of a potential lithium mine to the environment in Western Serbia (Dragana Đorđević, Jovan M. Tadić, Branimir Grgur, Ratko Ristić, Sanja Sakan, Jelena Brezjanović, Vladimir Stevanović, Bogdan Šolaja)
12:00–12:30	Discussion and closure of the conference
12:30–13:00	Coffee break
14:00	Cruise on the Danube river

Inauguration of Rector Professor Dr. Ludvik Toplak (AMEU)

On March 21, 2024, the National Agency for Quality in Higher Education (NAKVIS) accredited Alma Mater Europaea University. This exceptional achievement results from 15 years of organized work by internationally recognized scientists who combined their experiences from domestic and foreign universities with a vision for establishing the university.

On October 22, the Slovenian promotion of the university and the inauguration of Rector Professor Dr. Ludvik Toplak took place in the Kazinska Hall of SNG Maribor. Alma Mater Europaea University has joined the ranks of the most prestigious educational institutions.

The President of the European Academy of Sciences and Arts, Professor Dr. Klaus Mainzer, said: “With Alma Mater Europaea University, Slovenia has realized the founding idea like no other European country. Founder and Rector Ludvik Toplak has established a state-recognized university with his admirable academic network in Maribor, which serves as a model for other European countries to realize the idea of Alma Mater Europaea. Today, Alma Mater Europaea University complements the existing programs of the European Academy. In conjunction with the Academy, it operates as a trans-university network that utilizes the existing infrastructure of both institutions. It particularly



© AMEU



© AMEU

draws on European culture, its history, and its identity. Together with all Alma Mater Europaea community members, including students, teachers, alumni, and Academy members, we aim to work for a peaceful future for Europe, a Europe that must change and reassert itself in the world.”

President Mainzer then focused on the development of artificial intelligence, which Alma Mater is increasingly integrating into its study programs.

WAAS Conference – Global Peace Offensive

The Global Peace Offensive at Alma Mater Europea (AMEU) in Maribor

The World Academy of Art and Science (WAAS) and the European Academy of Sciences and Arts (EASA) have united their efforts for a global peace initiative on 21 October 2024.



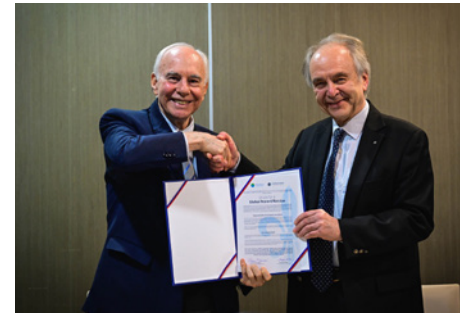
© AMEU

At this historic meeting, WAAS, with its President Garry Jacobs, and EASA, with its President Klaus Mainzer, together with Prof Dr. Ludvik Toplak (AMEU) pledged to promote peaceful coexistence and human security through education, research and technological progress. They will work with various stakeholders, including governments, to establish peace ministries and integrate peace-related content into education programmes.

Prof. Dr.Dr.h.c. Klaus Mainzer emphasized that artificial intelligence offers opportunities for innovative solutions in favor of peace.

At the round table, experts focused on various fields that can contribute to achieving global peace, including artificial intelligence for peace, peace, and diplomacy (both traditional and scientific) and the contributions of archaeology, nanoscience, and lexicography to peace efforts.

WAAS President Garry Jacobs highlighted that solutions to global crises must be based on values. Scientists and artists bear responsibility for promoting world peace, especially in today's world, where global digital communications and artificial intelligence are increasingly influential.



© AMEU, WAAS President Garry Jacobs and EASA President Klaus Mainzer



© AMEU, Garry Jacobs (WAAS), Ludvik Toplak (AMEU), Klaus Mainzer (EASA)



© AMEU/The Committee of WAAS, EASA

Science and Technology Forum Shanghai/China

Chinese Academy of Engineering & Tongji University Shanghai (5-10 November 2024) and Peking University (11-13 November 2024)



President Mainzer was invited to give a keynote in the engineering Science and Technology Forum of Chinese Academy of Engineering and to attend the celebration of the 110th anniversary of the Civil Engineering Discipline of Tongji University. With respect to his interdisciplinary and international expertise in AI, he was also invited to give the advanced lecture on Artificial Intelligence to postgraduates in all disciplines in Tongji University. This was an opportunity to visit the College of Civil Engineering of Tongji University.

Tongji is one of the oldest, most prestigious and most selective universities in China. Its foundation goes back to the initiative of European (German) engineers and physicians 110 years ago. Nowadays, it is one of the Class A Double First Class universities of the Chinese Ministry of Education.

The Engineering Science and Technology Forum of Chinese Academy of Engineering brought together leading international experts, researchers, and policymakers to address critical challenges in urban and infrastructure resilience. The forum sought to build a robust, scientifically grounded understanding of resilience of urban areas and infrastructure through focused thematic discussions and to advance the concept of life cycle resilience in disaster prevention

under both normal and extreme conditions. The forum addressed challenges in theory, methodology, technology, and equipment that are crucial to achieving the resilience of urban areas and infrastructure. Additionally, it utilized big data, artificial intelligence, and other modern technologies to strengthen the resilience of cities and infrastructure. The integration of urban planning, design, construction, operation, maintenance, and monitoring process will help establish an international pathway to resilience.

In his advanced lecture on AI, Prof. Mainzer argued for sustainable computing and AI. Traditional digital computing leads to considerable energy consumption and environmentally harmful and energy dissipation which contradicts to the Green Deal. Brain-orientated (neuromorphic) computing recreates brain structures in hardware with circuit networks that operate like natural brains with less energy consumption, significant efficiency gains and environmentally friendly. Prof. Mainzer is in the advisory board of a future cluster on neuromorphic AI of the German Minister of Research and Education. With his expertise, he was invited to advise the intended integration of AI tools in all disciplines at Tongji University. This invitation of Tongji also offers interdisciplinary cooperation with nearly all classes of the European Academy of Sciences and Arts.



After his visit in Shanghai, president Mainzer was also invited to China's university no. 1, the famous Peking University in Beijing. His talk on „ChatGPT and Artificial intelligence: From Foundations to Applications in Education“ was given at the International Research Center for Education and Information. Prof. Mainzer has been lecturer at Peking University since the 1990s years.

VII. HONOURS AND AWARDS 2024

Awarding of the Honorary Doctorate to EASA President Klaus Mainzer

Professor Dr. Klaus Mainzer, President of the European Academy of Sciences and Arts, was awarded an honorary doctorate for outstanding achievements in philosophy and science and essential academic and organizational contributions to the development of Alma Mater Europaea – ECM at a special ceremony during the plenary session of the 12th International Conference-It's About People in Maribor. Prof. Dr. Ludvik Toplak, Founder and President of the European Centre Maribor, Vice-Rector of the University Alma Mater Europaea presented the honorary doctorate to President Mainzer in a festive ceremony at the European Centre Maribor.



© AMEU/Klaus Mainzer & Ludvik Toplak (AMEU)

Laudatory speeches were given by Prof. Dr. Marko Robnik, Member EASA, Class IV, Founder and Director CAMTP, and Prof. Dr. Lenart Škof, EASA Member, Class VII, Dean of Alma Mater Europaea Institutum Studiorum Humanitatis and Prof. Dr.Dr.h.c. Felix Unger, Honorary President of the European Academy of Sciences and Arts, who in his speech particularly emphasised Prof. Mainzer's interdisciplinary work for the European Academy of Sciences and Arts.

Prof. Dr. Björn Brücher was elected to the Board of Trustees of the David Ben-Gurion Foundation Germany

Professor Dr. Björn Brücher, Head of the Visceral Oncology Centre at the Carl-Thiem-Klinikum in Cottbus, member of EASA, Class II, has been elected to the Board of Trustees of the David Ben-Gurion Foundation Germany.

The non-partisan and non-denominational David Ben-Gurion Foundation was established in 2008 with the aim of promoting international understanding and fostering mutual cultural and scientific exchange between Germany and Israel in the spirit of the first Israeli Prime Minister David Ben-Gurion.



© Björn Brücher

Awarding of the „Dimitrie Cantemir“ Medal to Prof. Violeta Dinescu

On May 16th, 2024, the Academy of Sciences of Moldova hosted the conference “Romanian-German interferences in musical art”, as part of the 33rd Edition of the International Festival „Days of New Music“ Chisinau. Composer Violeta Dinescu, Professor, Dean of the European Academy of Sciences and Arts, Class III, addressed various topics related to the music of Romanian composers in Europe.



© SASA, Violeta Dinescu, Ion Tighineanu

The President of the Academy of Sciences of Moldova, acad. Ion Tighineanu, EASA member, Class IV, mentioned in his welcome message the valuable contribution of Prof. Violeta Dinescu to the development of the field of musicology, her active participation in promoting the values of Romanian musical art in the world, her involvement and dedication in training scientific staff, as well as her fruitful collaboration with the Academy of Sciences of Moldova. The activity of Violeta Dinescu was appreciated by the Presidium of the Academy of Sciences of Moldova with the „Dimitrie Cantemir“ medal, the highest distinction of the Academy.

Prestigious Zaslavsky Award given to Anastasios (Tassos) Bountis, EASA Member of Class IV (Natural Sciences)



On August 7, 2024, during the 2024 International Conference on Nonlinear Science and Complexity at Yibin, China, Professor Anastasios (Tassos) Bountis of Class IV, EASA, received the prestigious Zaslavsky Award for outstanding scholars in Nonlinear Physical Science, presented annually by the International Nonlinear Science and Complexity (NSC) Conference Series.

In the award letter, the Award Committee mentioned that Professor Bountis’ “exceptional contributions to the field of Nonlinear Physical Science, and innovative research and dedication to advancing the understanding of nonlinear phenomena have set a remarkable standard for scholars worldwide.” Professor Bountis was present at the Conference and gave a 45’ lecture entitled “Long Range Interactions Enhance Stability in 1-D Hamiltonian Lattices”.

At the presentation of the Zaslavsky award, it was mentioned that besides his research, Professor Bountis has devoted a great part of his scientific time to the more than 30 International Summer Schools/Conferences he has organized in Greece, 1987 – 2024. These events helped educate young researchers from Greece and other European countries on Nonlinear Science and Complexity. For the most recent one.



© NSC

Medal of Honour for Professor Emeritus and former Rector of the Technical University of Crete, Yannis A. Phillis

Professor Emeritus and former Rector of the Technical University of Crete, Yannis A. Phillis, EASA member, Class VI, was recipient of a Medal of Honor at the World Automation Congress (WAC2024) which took place in Cancún, Mexico from 22 to 25 September 2024. Its theme was machine learning and artificial intelligence. The award was bestowed upon the honoree „For excellent contributions to production engineering management and very high-level leadership in engineering.“ Professor Phillis also gave a keynote talk entitled „On a mathematical theory of sustainability assessment and decision making.“



© Technical University of Crete

Awarding of Honorary Professor to Prof. Ioannis Liritzis, Dean of Class IV

The Dean of Class IV, Ioannis Liritzis, was appointed Honorary Professor at the School of Cybersecurity of Northwestern Polytechnical University (NPU), Xian, China (2024) in September.



© NPU

Awarding of the Excellency Award and the Gold Medal of the Republic of Cyprus to Marios Ioannou Elia (Class III)

The President of the Republic of Cyprus, Nikos Christodoulides, awarded the Excellence Prize and the Gold Medal of the Republic of Cyprus - the highest national award - to the internationally renowned composer and EASA Class III member, Marios Ioannou Elia, following a unanimous decision by the Cyprus Academy of Sciences and Arts.



© PIO

Awarding of the Dimitrie Cantemir medal and the UNESCO medal to EASA President Klaus Mainzer by the Academy of Sciences of Moldova

President Mainzer was awarded the Dimitrie Cantemir medal – the highest distinction of the Academy of Sciences of Moldova – „for his remarkable contributions to the development of science, collaboration with researchers from the Republic of Moldova and significant support to the training of young researchers and highly qualified scientific staff by presenting public lectures of national interest“.

Because of this engagement in Moldova since 2021, he also got a medal of UNESCO „for the substantial contribution to the development of science, for the collaboration in the field with the Republic of Moldova, for the promotion of cultural, spiritual, humanistic values and ideals of UNESCO“. The ceremony of awarding in a festive meeting in the Blue Hall as well as his speech to the Academy on „Artificial Intelligence in Sciences and Education“ was internationally broadcast online and livestream. Prof. Mainzer was also asked for an interview which focussed on the development of science, research and innovation in Europe as well as the international political situation:

<https://asm.md/en/prof-klaus-mainzer-age-artificial-intelligence-it-not-size-country-matters-innovative-power-and>

We congratulate!



VIII. NEW MEMBERS

elected by the Senate 2024



Class I – Humanities

Constantin BARBU, Romania
Roberto GIUNTINI, Italy
Yaroslav HRYTSAK, Ukraine
Rusmir MAHMUTČEHAJIĆ, Bosnia-
Herzegovina

Derya GURSES-TARBUCK, Türkiye
Stefania MICHELUCCI, Italy
Michael MOSER, Austria
Jean-Noël THON, Germany
Binhua WANG, United Kingdom



Class II – Medicine

Michael BRAININ, Austria
Suk Han CHENG, China
Norina Consuela FORNA, Romania
Rudy Leon DE WILDE, Germany
Yuming GUO, Australia
Jürgen HAHN, Germany
Yang JIANSHE, China
Peifeng LI, China
Shengbin LI, China
Haitao LYU, China
Athanasia PRINTZA, Greece
Li SHAO, China

Tatjana STANOJKOVIC, Serbia
Wolf-Dieter STELZNER, Germany
Vesna STOJANOV, Serbia
Andraž STOŽER, Slovenia
Gary TSE, China
Vladimir TRAJKOVSKI, North
Macedonia
Konrad OEXLE, Germany
Aihua ZHANG, China
Jialin ZHENG, China
Lv ZHONGWEI, China



Class III – Arts

Evgen BAVČAR, France
Maria Luisa DALLA CHIARA, Italy

Srečo DRAGAN, Slovenia
Anne DO PAÇO, Austria

Giovanna DONGU, Italy
Cheikh Tidiane GAYE, Italy
Laurenz LÜTTEKEN, Switzerland
Irina MUREȘANU, USA
Dorothee OBERLINGER, Germany
Franz Martin OLBRISCH, Germany
Ion Bogdan STEFANESCU, Romania

Michael TSALKA, China
Ioannis SMARAGDIS, Greece
Jeremias SCHWARZER, Germany
Mihaela VOSGANIAN, Romania
Xiao Hui WANG, China
Lihong ZHAO, China
Gerrit ZITTERBART, Germany



Class IV – Natural Sciences

Arne BATHKE, Austria
Urban BREN, Slovenia
Ivan CHODAK, Slovakia
Gerhard L. FASCHING, Austria
Demšar FRANCI, Slovenia
Jungong HAN, United Kingdom
Eva HOLTFREWE STUKENBROCK,
Germany
Zhong-Ping JIANG, USA
Changqing JIN, China

Keqin LI, USA
Primož MRVAR, Slovenia
Natascha OPPELT, Germany
Monica RIVA, Italy
Marian REIFFERS, Slovakia
Peter SIFFALOVIC, Slovakia
Matija STRLIČ, Slovenia
Constantino TSALLIS, Greece
Stefan WÖLFL, Germany
Aleksander ZIDANŠEK, Slovenia



Class V – Social Sciences, Law & Economics

Matej AVBELJ, Slovenia
Nadia Amal BERNOUSSI, Moroccan
Lei CHEN, United Kingdom
Johannes JÄGER, Austria
Miha JUHART, Slovenia
Srgjan KERIM, Bosnia and
Herzegovina
Andreas KUHNLEIN, China
Alexios PANAGOPOULOS, Greece

Viktor PORADA, Slovakia
Marianne ROTH, Austria
Gerald STEINER, Austria
Łukasz SUŁKOWSKI, Poland
Horst THÜRHEIMER, Germany
Alan UZELAC, Faculty of Law, Croatia
Zoltán ZÉMAN, Hungary
Ning ZHANG, United Kingdom
Lu ZHOUXIANG, China



Class VI – Technical & Environmental Sciences

Grigoris ANTONIOU, United Kingdom
 Jinbo BAI, France
 Puspendu BHUNIA, India
 Maosen CAO, China
 Subhasis CHAUDHURI, India
 Ming CHENG, China
 Liang-Yin CHU, China
 Vijay DHIR, USA
 Muhammet DEVECI, Türkiye
 Xue FENG, China
 Yun FU, USA
 Dimitrios I. FOTIADIS, Greece
 Matjaž GAMS, Slovenia
 Edmond HAJRIZI, Kosovo
 Xiaoming (Shawn) HE, USA
 Ivan HROVIĆ, Canada
 Hanqing JIANG, China
 Jie JIANG, China
 Zhibin JIANG, China
 Bojan JOVANOVSKI, Austria
 Jiann-Wen JU, USA
 Mitjan KALIN, Slovenia
 Ahsan KAREEM, USA
 Zhou KUN, Singapore
 Silja KLEPP, Germany
 Asoke KUMAR NANDI, United Kingdom
 Vassilis KOUIKOGLOU, Greece
 Frank LEYMANN, Germany
 Weisi LIN, Singapore
 Shuai LI, Finland
 Sheng LIU, China
 Chen LU, China
 Valery LEVITAS, USA
 Guru MADHAVAN, USA
 Jean-Michel MARTIN, France

Joseph MICALLEF, Malta
 Alessandro NERI, Italy
 Viliam NOVAK, Slovakia
 Bing-Jie NI, Australia
 Jayanta MUKHOPADHYAY, India
 Richard MILLHAM, South Africa
 Constantinos PATTICHIS, Cyprus
 Francesco PELLICANO, Italy
 Albert P. PISANO, USA
 Bart RAEYMAEKERS, USA
 Robert SCHOBER, Germany
 Jinjun SHAN, Canada
 Jinghua SHEN, German
 Karan SURANA, USA
 Shui-Long SHEN, China
 Kexuan TANG, China
 Gabor TEMES, USA
 Georgios THEODOROPOULOS, Greece
 Žiga TURK, Slovenia
 Si-Zhao QIN, China
 Ben YOUNG, Australia
 Guang-Hong YANG, China
 Shuang-Hua YANG, UK
 Chenguang YANG, United Kingdom
 Athanasios V. VASILAKOS, Greece
 Palghat VAIDYANATHAN, USA
 Chien Ming WANG, Australia
 Qingyuan WANG, China
 De-Yi WANG, Spain
 Jian WANG, China
 Joseph WANG, USA
 Meihong WANG, UK
 Rabab WARD, United Kingdom
 Robert F. WIMMER-SCHWEINGRUBER, Germany
 Pak Kin WONG, USA

Yong ZHANG, China
 Xin ZHANG, USA
 Runtong ZHANG, China
 Bruno ZELIĆ, Croatia
 Xiaoying ZHUANG, Germany

Jizhong ZHU, China
 Jingxu (Jesse) ZHU, Canada
 Yutao ZHAO, China
 Liang ZHOU, China
 Zhuo ZHUANG, China



Class VII – World Religions

Purushottama BILIMORIA, Australia
 Peter DUBOVSKÝ, Italy
 Christoph ELSAS, Germany
 Eva-Maria FABER, Switzerland
 Giulio MASPERO, Italy
 Charles MÉLA, Switzerland
 Jozsef JANČOVIĆ, Slovakia

Sixto José Castro RODRIGUEZ, Spain
 Martin Stefan SALLMANN, Switzerland
 Jan TAVERNIER, Belgium
 Bert Jan LIETAERT-PEERBOLTE, The Netherland

NOMINATION

Know somebody who would fit in right with us?

EASA Members can recommend new members for consideration.



<https://euro-acad.eu/nomination-election>

IX. MULTIMEDIA



© Andrey VP / stock.adobe.com

Under the heading Multimedia you can access the video-documented events on the EASA website.

Colloquium Arts Meet Sciences

Matthias Hurst / Irina Muresanu
Published: 12. January 2024



Colloquium Arts Meet Sciences

Birgit Harreß
Published: 26. January 2024



MIT Technology Review

Published: 02. April 2024



Colloquium Arts Meet Sciences

Ioannis Melanitis / Guenter Schiepek

Published: 12. April 2024



Colloquium Arts Meet Sciences

Thorsten Gubatz / Leszek Roszkowski

Published: 26. April 2024



Colloquium Arts Meet Sciences

Kilian Schwoon / Katica Kulavkova

Published: 10. May 2024



Colloquium Arts Meet Sciences

Dieter Mack / Marko Robnik

Published: 24. May 2024



Colloquium Arts Meet Sciences

Sylvia Hinz / Milutin Djurickovic

Published: 07. June 2024



Colloquium Arts Meet Sciences

Graham Waterhouse / Annette Kerckhoff

Published: 05. July 2024



Colloquium Arts Meet Sciences

Velimir Srića / Tassos Bountis

Published: 11. October 2024



Colloquium Arts Meet Sciences

Jose Molero Zayas / Anna Rubin

Published: 25. October 2024



Colloquium Arts Meet Sciences

Irene Kurka / Ernst Pöppel

Published: 08. November 2024



Colloquium Arts Meet Sciences

Andreas Goldschmidt / Andrew Balas

Published: 22. November 2024



Colloquium Arts Meet Sciences

Monika Czernin / Vladimir Scolnic

Published: 06. December 2024



Colloquium Arts Meet Sciences

Laura Baudis / Maria Miraglia

Published: 20. December 2024



The Journal of the EASA

Publishing platform for innovative, interdisciplinary and transnational research



The PEASA Journal accepts submissions from members and non-members.



www.peasa.eu

© sdecoret / stock.adobe.com

© tostphoto / stock.adobe.com

NEWS & EVENTS

Stay tuned:

News and upcoming events can be found on our website:



euro-acad.eu/news



euro-acad.eu/events

For further information about all activities and News of EASA, please find the Letter of the President on EASA Website:



euro-acad.eu/greetings

European Academy of Sciences and Arts

St.-Peter-Bezirk 10 | 5020 Salzburg, Austria
Phone: +43 662 84 13 45 | E-Mail: office@euro-acad.eu

www.euro-acad.eu