



EUROPEAN ACADEMY of Sciences and Arts

2022
ANNUAL REPORT



ANNUAL REPORT 2022

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Wilfried Koch, Germany

Herbert Kramel, Switzerland

Konrad Meßmer, Germany

Luc Montagnier, France

Hermann Nitsch, Austria

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Mario Plenković, Croatia

Alfred Radner, Austria

Joseph Alois Ratzinger, Benedikt XVI., Vatikanstadt

Harald Reuter, Switzerland

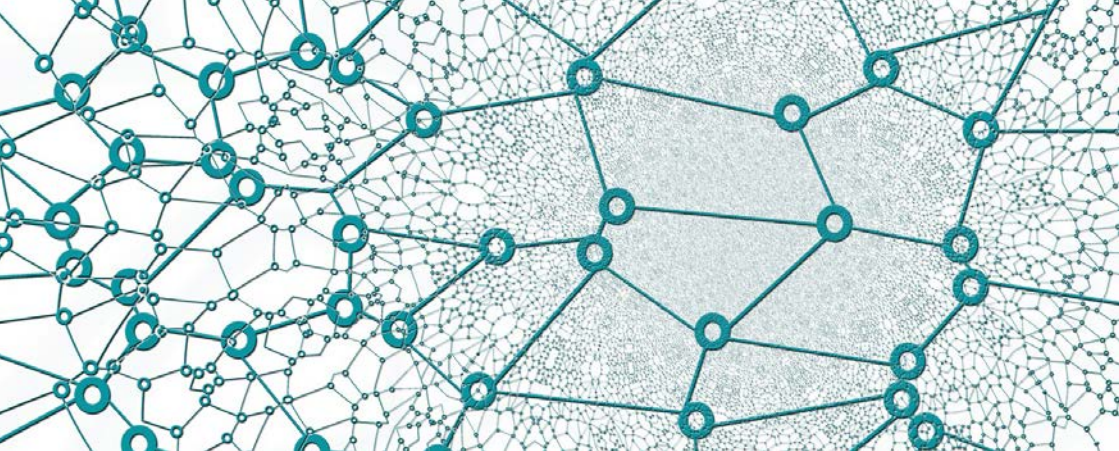
Daniel Rukavina, Croatia

Branislav Šoškić, Serbia

Georgi Stardelov, North Macedonia

Luan Starova, North Macedonia

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

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I. PREFACE



Klaus Mainzer, President
© Udo Keller Stiftung Hamburg

It is my pleasure to present to you the annual report 2022.

„Zeitenwende“ (Turn of the Times) was the word of the year 2022, the German Language Society announced on 8 December. The campaign regularly selects terms that, in the opinion of the jury, have had a particular linguistic impact on political, economic and social life in Germany in a given year. The Russian Federation's attack on the sovereign Ukraine on 24 February 2022 in violation of international law profoundly changed not only European politics and economics, but also academic life. In addition, the pandemic seemed to continue as a permanent threat.

For many of us, therefore, the most beautiful event after the easing of the pandemic situation was certainly being able to experience events

in physical presence again. The personal physical encounter, also in science, is above all.

A conference on „Tolerance and Democracy for Peace in Europe“, to which the Slovenian State President had invited the President and Honorary President of EASA to the Presidential Palace in Ljubljana on 1 December, was characteristic of the theme of the „turn of the times“. The awarding of the Academy's Tolerance Prizes in November in Cologne was also in keeping with this theme.

In science, again, one of our members received a Nobel Prize this year. Anton Zeilinger was presented with the Nobel Prize in Physics 2022. The three Nobel Prize winners in physics this year show very well how revolutionary technology such as the quantum computer and quantum communication with revolutionary consequences for human civilisation can arise from basic research with philosophical depth (e.g. the question of the concept of causality and reality in physics). In the summer of 2021, we had already organised an online workshop on „Trends of Quantum Technology“ at the Academy.

With a view to the energy and infrastructure crisis in Europe, what was needed was a „Zeitenwende“ (Turn of the Times) of sustainable innovations with respect to the climate and environmental catastrophe of our civilisation. Therefore, three expert groups on these issues had already been set up in 2021. At the

last Senate meeting in 2022, the white papers of the three expert groups on „Digitalisation, Artificial Intelligence and its Societal Impact“, „Environment, Climate, and Energy“ and „Innovation, Research, and Education“ were adopted as official Academy Papers on these topics and syndicated for publication in our new online journal PEASA. The white papers will be presented by the working group coordinators at a workshop on the afternoon of Friday 14 April prior to the General Assembly and the festive plenary on the morning of Saturday 15 April 2023.

It is equally fitting that at the last Senate meeting it was decided to honour Dr. Ing. h.c. Ulrich Kubinger the dignity of Honorary Senator of the European Academy of Sciences and Arts in recognition of his services to the environment, sustainability and water purification through modern nanotechnology. Mr Kubinger had already supported the Paul Crutzen Medal, which is awarded every two years by the Academy for outstanding services to the environment, climate and sustainability in science and society.

With respect to the pandemic, we still were enforced in 2022 to organize our events, conferences, symposia, and meetings online or hybrid (online with restricted physical presence). Nevertheless, the increasing use of digital tools enables more people worldwide to take part in our activities. And, actually in 2022 and 2021, there were even rather more than less events and meetings of the Academy which can be considered on the Academy's website. A remarkable example is the lecture series "Science meets Arts/Arts meets Science" with participants (EASA members and guests) from all over the world. Thank you to the deans of class III for arts (Violeta Dinescu) and class IV (Ioannis Liritzis) for organizing this wonderful experience.

At the end I have to thank for the support of the Salzburg Presidential Office with Doris Klinda and Sofia Brunauer (with the helpful support of Christine Greco in the background), our honorary president, the members of the Presidium and Senate, the engagement of our members and last but not least our funders.

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	Brigitte 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
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	Mario Plenković †
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
Milo Đukanović (Montenegro)

Borut Pahor (Slovenia)
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

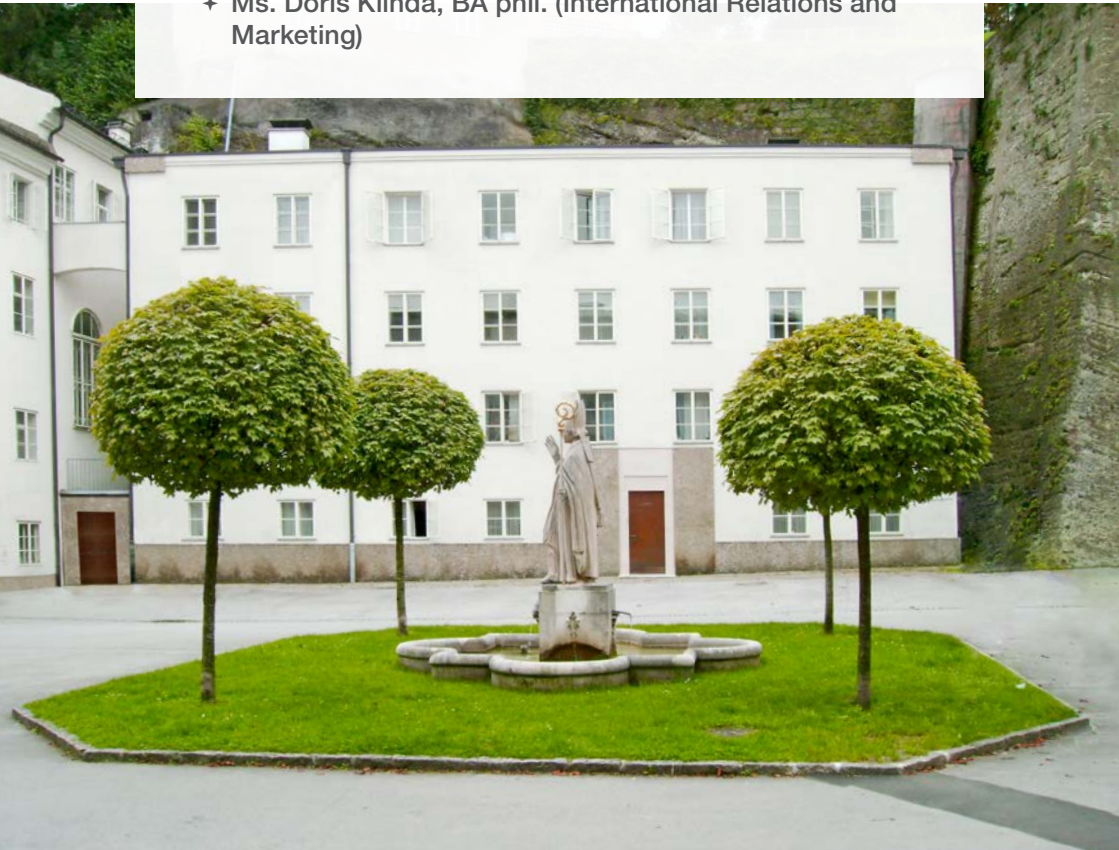
Physics, 2022	Anton Zeilinger
Physics, 2021	Klaus Hasselmann
Chemistry, 2020	Emanuelle Charpentier
Chemistry, 2016	Fraser Stoddart

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)



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

Unger Felix, Kickingier Roland, Salm-Reifferscheidt Karl

Supervisory Board

Manstein Hans-Jörg, Raidl Claus, Schmid Hans, Thun-Hohenstein Christoph, Von Schöning Wichard, Groeger Herbert, Conrad Michael

Academia Scientiarum et Artium Europaea Privatstiftung

St. Peter Bezirk 10
5020 Salzburg
Austria

III. EVENTS 2022



Klaus Mainzer, © wildbild

February

Colloquium Science Meets Art

Summer – Semester: February 18 – April 8

Ioannis Liritzis (Dean Class IV) and Violeta Dinescu (Dean Class III), online Colloquium.

Program: <https://euro-acad.eu/events?id=115>

March

Lecture series – Health. Society in crises?

March 9 – June 28. This lecture series deals with the social location of health crises, Medical University of Vienna, University of Vienna and EASA, organization: Thomas Beyer (Class II), Speech on March 22: Alexander Kekulé (Class II).

Program: <https://www.meduniwien.ac.at/web/ueber-uns/events/2022/rv-gesundheitskrisen/>; <https://euro-acad.eu/events?id=116>

10th International Conference of Alma Mater Europaea „It's about people“

March 11–18; The 10th Jubilee Conference, which also marks the 10th anniversary of Alma Mater Europaea - ECM (AMEU-ECM) operating under the academic patronage of EASA, focused on the ethical and humanistic aspects of digital transformation.

Welcome speech: Ludvik Toplak, President, Alma Mater Europaea – ECM

Borut Pahor, President of the Republic of Slovenia

Welcome addresses: Felix Unger, Honorary President, European Academy of Sciences and Arts

Ivo Šlaus, Honorary President, World Academy of Art & Science

Opening of the conference: Mark Boris Andrijanič, Minister for Digital Transformation, Republic of Slovenia; Keynote speaker: Maroš Šefčovič, Vice-President for Interinstitutional Relations and Foresight, European Commission; Keynote Speaker Prof. Dr. Mindy Chen-Wishart, Dean, University of Oxford, Faculty of Law.

Plenary session: Contribution of each academy to the digital transformation for a sustainable and ethical future in Europe

Moderator: Klaus Mainzer, President, European Academy of Sciences and Arts.

<https://euro-acad.eu/events?id=113>

17th Japan-Slovenia Seminar on Nonlinear Science

March 21–23; online, Organization: Yoji Aizawa, Marko Robnik (Class IV), Akira Shudo and Yoshihiro Yamazaki with contributions of the EASA members Tassos Bountis, Giulio Casati, Mirjam Cvetič, Matjaz Perc, Tomaz Prosen and Valerij Romanovskij (Class IV)

<https://euro-acad.eu/events?id=117>

April	<p>30 Years of the European Academy of Sciences and Arts</p> <p>April 20, presentation of the publication series Nr. 31 of the Salzburger Landesarchiv in cooperation with EASA, St. Peter Bezirk 10, conference room EASA.</p> <p>https://www.euro-acad.eu/CMS/tinymce/js/tinymce/plugins/filemanager/source/Dateien/Festschrift_30Jahre.pdf</p>
May	<p>The 15 th Baška GNSS Conference: PNT Technologies, Techniques and Applications</p> <p>May 8–13, Serdjo Kos (Class VI), in Baška, island Krk, Croatia, Information: https://euro-acad.eu/events?id=112</p> <p>What was artificial Intelligence?</p> <p>May 13–15, The conference at the Humboldt University in Berlin considers the development of Artificial Intelligence (AI) with leading experts in the field and historians and philosophers of science and technology. One of the speakers is EASA President Klaus Mainzer, who coordinates the EASA expert group on „Digitalization, AI, and Societal Impact“:</p> <p>https://fg-infohist.gi.de/veranstaltung/was-war-kuenstliche-intelligenz-konturen-eines-forschungsfeldes-1975-2000-in-deutschland-1</p> <p>https://euro-acad.eu/events?id=126</p> <p>Carl Friedrich von Weizsäcker-Colloquium</p> <p>May 18, A Celebration of Antiquity Reimagined: Delphic Festivals, Carl Friedrich von Weizsäcker Center, University of Tübingen.</p> <p>Talk: Ioannis Liritzis (Dean Class IV), EASA and Henan University</p> <p>Europe is the cradle of civilization and Europe explored both opposite directions, East & West. In the year 586 BC, the first Pythian Games (artistic with some small-scale athletics) took place in Delphi Ancient Greece. Delphic Intellectual Movement is a branding initiative under the leadership and Aegis of European Academy of Sciences & Arts.</p>

<https://uni-tuebingen.de/en/170583>; <https://uni-tuebingen.de/en/facilities/central-institutions/carl-friedrich-von-weizsaecker-center/about-us/team/>

Organization: Prof. Dr. Reinhard Kahle, Dr. Thomas Piecha
<https://euro-acad.eu/events?id=128>

Jülich-Aachen Neuromorphic Computing Day

May 25, at Forschungszentrum Jülich Keynote Speaker and Moderation of the Panel Discussion: Klaus Mainzer, Advisory Board of future cluster NeuroSys and President of the EASA.

Program: <https://euro-acad.eu/events?id=124>

Proof and Computation

May 30 – June 3; Opening Speech and Organization Committee: President Klaus Mainzer, Schlehdorf Monastery. About Proofs in mathematical practice serve to warrant the truth of mathematical theorems. Proof theory arose with Hilbert's programme to put abstract mathematics on a firm basis by proving consistency in the meta-mathematics and by finite methods only. Gödel's incompleteness theorems have allegedly dashed Hilbert's programme as such but thus have stood at the beginning of a seminal paradigm shift in proof theory: to see mathematical proofs also as a rich source of computational information such as certified algorithms and effective bounds. Contemporary research in this fertile area is known under terms such as dynamical methods, program extraction and proof mining.

Program: <https://cs-web.swan.ac.uk/pc22/>

<https://euro-acad.eu/events?id=129>

June

Historia Magistra Ecclesiae – Die Geschichte als locus theologicus

June 4–6, Interdisciplinary Symposium at the University of Freiburg /Organisation Mariano Delgado (Dean Class VII) Freiburg and Volker Leppin, Yale University. Trägerschaft SNF – Schweizerischer Nationalfonds, Europäische Akademie der Wissenschaften und Künste, Stiftungsrat

des Forschungsfonds Universität Freiburg, Dekanat der Theologischen Fakultät Universität Freiburg.

More Information: <https://euro-acad.eu/events?id=123>

June

14th Summer School / Human Change Processes

June 8–10; The Summer Schools on Human Change Processes are a forum for exchange in psychotherapy feedback, process research, practical innovations, neuroscience and neuromodulation, team and organizational development, and social sciences.

Organizers and Sponsors: Paracelsus Medical University Salzburg, Institute of Synergetics und Psychotherapy Research, EASA, Center for Complex Systems, Research & Applications, German Society for Systemic Therapy and Family Therapy (DGSF), Ludwig-Maximilian University Munich, Department of Psychology, Society for Psychotherapy Research, European Association for Psychotherapy, Mind Force Society – Institute for Complexity Studies, Scientific Organizer: Günter Schiepek (Class II), Franco Orsucci (Class II), Introduction and Opening: Klaus Mainzer, President EASA, Günter Schiepek, Wolfgang Sperl and Wolfgang Aichhorn.

Program: Summer School 2022 Program May_2022;

<https://salk.at/Christian-Doppler-Klinik.html>;

<http://pmu.ac.at/>; <http://www.ccsys.de/>

<https://euro-acad.eu/events?id=127>

Philosophy Festival 2022 in the Allgäu Alps

June 22–26, Speech Klaus Mainzer: „Künstliche Intelligenz (KI) aus Sicht der Philosophie – Chancen und Herausforderungen“, Oberstdorf/Kleinwalsertal. President Klaus Mainzer was awarded with the Mekatzter-Philosophy-Prize for „Philosophy and Artificial Intelligence“.

Youtube: <https://youtu.be/P-B4Ybks8t0>.

<https://www.forum-grenzfragen.de/meckatzter-philosophie-preis-an-klaus-mainzer/>

Publikation Kaus Mainzer und Reinhard Kahle im Springer-Verlag, Berlin Heidelberg, Juni 2022 erschienen: <https://www.springerprofessional.de/grenzen-der-ki-theoretisch-praktisch-ethisch/23174058>

Publikation Kaus Mainzer und Reinhard Kahle im Springer-Verlag, Berlin Heidelberg, Juni 2022 erschienen: <https://www.springerprofessional.de/grenzen-der-ki-theoretisch-praktisch-ethisch/23174058>

Festival- Information: 220428_Szene Kultur_
Philosophiefestival in den Allgäuer Alpen / Links: <https://www.philosophieallgaeualpen.com/>;
<https://www.philosophischeveranstaltungen.de/month.php?month=6&year=2022>; <https://www.oberallgaeu.info/veranstaltung/drittes-philosophiefestival-den-allgaeuer-alpen-abschlussveranstaltung>;
<https://szene-kultur.de/kulturmix/drittes-philosophiefestival-in-den-allgaeuer-alpen/>;
<https://www.instagram.com/philosophieallgaeualpen-ev/>;
<https://www.facebook.com/philosophieallgaeualpenev>;
https://www.allgaeuer-zeitung.de/allgaeu/philosophie-festival-in-den-allgaeuer-alpen-diskutiert-kuenstliche-intelligenz_arid-401554
<https://euro-acad.eu/events?id=131>

July

Festive Session 2022, Inauguration Ceremony and Evening Reception

July 1-2, Salzburg.

Accompanying Workshops to the Festive Plenary:

Mental Health in Challenging Times – A Challenge For Complexity Science

Chair: Günter Schiepek (Class II)

Digitalization, Artificial Intelligence (AI), and Societal Impact

Chair: Klaus Mainzer, President EASA

Expert Group: Environment, Climate, and Energy

Chair: Sergio Orlandi (Dean Class VI)

Expert Group: Official Journal of EASA/PEASA

Chair: Ioannis Liritzis (Dean Class IV)

Expert Group: Education-Research-Innovation

Chair: Ioannis Liritzis (Dean Class IV)

Kirchklang Festival Salzkammergut

July 3, Symposium Schöpfungsmythen, Schloss Mondsee, Klaus Mainzer, Präsident der EASA, Bischof Manfred Scheuer und Wilfried Seipel; Austrian Premiere: Violeta Dinescu (Dean Class III): Dona nobis pacem für Sopran, Violoncello und Schlagwerk; Round Table: Prof. Violeta Dinescu · Rojin Sharafi · Tanja Elisa Glinsner.

Programm: kirchklang_2022_Programm Karten & Information: www.kirchklang.at; office@kirchklang.at
<https://euro-acad.eu/events?id=120>

International Meeting of the Society of Biblical Literature (SBL)

July 17, Paris Lodron University Salzburg, Great Assembly Hall, Speakers from EASA side: Klaus Mainzer, President and Kristin De Troyer, Professor of Hebrew Bible/Old Testament and Secretary of EASA, Program: Program SBL
<https://euro-acad.eu/events?id=133>

28th Summer School-Conference on Dynamical Systems and Complexity

July 18 – 26, Chania, Crete; The Complex Systems and Applications Network (COSA-Net, <http://cosa.inn.demokritos.gr/>) coordinated by the National Center for Scientific Research “Demokritos”; <http://cosa.inn.demokritos.gr/28th-summer-school-dynamical-systems-and-complexity-program/>
<https://euro-acad.eu/events?id=134>

September

Proof and Computation, International Autumn School

September 26 – October 1, in Aurachhof, Fischbachau, Organised and lecture by Klaus Mainzer, President EASA.
Program: https://euro-acad.eu/CMS/tinymce/js/tinymce/plugins/filemanager/source/Dateien/Program_Autumn%20school_Proof%20and%20Computation.pdf;
<https://euro-acad.eu/events?id=139>

30th Days of Frane Petrić, International Conference World in Philosophy

September 25- 28, Croatian Philosophical Society, Klimen Hotel, Cres, Croatia; Chairperson of the Organising Committee: Pavo Barišić (Class I), Speech of President Mainzer: „Challenges of EASA in the Spirit of European Humanism.“, Program: https://www.euro-acad.eu/CMS/tinymce/js/tinymce/plugins/filemanager/source/Dateien/Preliminary%20Programme_Symposium_World%20in%20Philosophy_Cres_25.-28.%209.%202022.pdf;

<https://euro-acad.eu/events?id=132>

Advanced Ceramics and Applications X

September 26 – 27, dedicated to Vojislav V. Mitić, Serbia, Belgrad; contact information: Dr. Nina Obradović: president@serbianceramicsociety.rs;

<http://www.serbianceramicsociety.rs/>

<https://euro-acad.eu/events?id=122>

Conference Causality and Complexity

September 29 – September 30, A conference for Philosophy and Science, University of Salzburg in cooperation with PLUS, Speech Klaus Mainzer, President EASA: „Complexity and Causality in natural and artificial Systems.“

Program: <https://euro-acad.eu/CMS/tinymce/js/tinymce/plugins/filemanager/source/Dateien/Program%20CCC.pdf>;

<https://euro-acad.eu/events?id=138>

October

Graduiertentagung des Cusanuswerks

October 5–9, Graduate Academy for 40 doctoral students from all disciplines took place at Haus Altenberg in Odenthal near Cologne on the topic „In order? Self-organisation in complex systems“. After a general introduction to the research topic, concrete fields of application such as digitalisation, neuronal networks and the biosphere were presented and discussed.

Introduction and Speech Klaus Mainzer, Präsident EASA: „Was sind komplexe Systeme und welche Formen der Selbstorganisation sind bekannt?“ / “Anwendungsgebiete:

Die digitale Welt als komplexes System: Herausforderungen und Handlungsoptionen.“

Program: https://www.euro-acad.eu/CMS/tinymce/js/tinymce/plugins/filemanager/source/Dateien/Programm%20GT%2022-1_Selbstorganisation.pdf
<https://euro-acad.eu/events?id=145>

October

ACU Rome Campus Conference

October 5-6, Austrian Catholic University- Institute for Religion & Critical Inquiry, Science and Research Center Koper – Institute for Philosophical Studies, University of Notre Dame- Nanovic Institute for European Studies, in cooperation with Class VII, EASA, organization committee: Mariano Delgado (Dean, Class VII);

<https://euro-acad.eu/events?id=143>

ASIIN Global Conference 2022

October 18–19, University of Malta/Aula Magna, Organization and Chairman of the Board: Felix Huber (Class VI);

EASA Program: https://euro-acad.eu/CMS/tinymce/js/tinymce/plugins/filemanager/source/Dateien/ASIIN_Global_Conference_2022_Programme.pdf; <https://www.asiin.de/en/asiin-global-conference-2022.html>, <https://euro-acad.eu/events?id=141>

Ecopole 2022

October 19–22, XXXI Conference of the Ecological Chemistry and Engineering Society, Opole (PL), Chairperson of the Organising Committee: Maria Waclawek (Class IV), EASA, Hotel Tomaszowice Manor/Hybrid-conference, <https://euro-acad.eu/events?id=121>

Lecture Gregor Thuswaldner

October 21 (Class I), EASA, „Derailed: The Dark Side of Leadership“, conference room EASA, St. Peter- Bezirk 10.
<https://euro-acad.eu/events?id=137>

Öffentliches Symposium/ „Werner Heisenberg und die Zukunft der Quantenphysik“, Awarding of the Werner-Heisenberg-Medal to Nobel Prize Laureate for Physics 2022 Anton Zeilinger

October 28, Literaturhaus München, Salvatorplatz 1, Festive Speech Anton Zeilinger (Class IV) - Discussion with Klaus Mainzer, Präsident EASA, Topic: „(Un)vorstellbare Quantenwelt.“; Program: <https://www.euro-acad.eu/CMS/tinymce/js/tinymce/plugins/filemanager/source/Dateien/HG-Programm-10-Jahr-Feier.pdf>, <https://euro-acad.eu/events?id=147>

Colloquium Art Meets Science and Science meets Art, Winter Semester 2022/2023

Start October 21 – January 27, online Colloquium, Organisation Committee: Violeta Dinescu (Class III), EASA and Ioannis Liritzis (Class IV), EASA Program: https://euro-acad.eu/CMS/tinymce/js/tinymce/plugins/filemanager/source/Dateien/Programm%20WS%202022_2023.pdf, <https://euro-acad.eu/events?id=140>

November

Wissenschaftlicher Stammtisch der Region Hamburg

November 15, Peter Fischer Appelt (Class VII), Hotel Baseler Hof, Esplanade 11, <https://euro-acad.eu/events?id=148>

Toleranzpreis, Awarding of the Tolerance-Rings

November 16, Wallraf-Richartz-Museum Köln.

Youtube: <https://youtu.be/4FN2iu6ghAM>

Program: <https://euro-acad.eu/events?id=142>

Symmetries in Physics

November 19, One-Day Conference, Oxford University, St. Cross College, Mathematical Institute, Woodstock Road, Opening Speech Klaus Mainzer: „The Emergence of Symmetries in Classical Physics.“, Program: <https://www.stx.ox.ac.uk/event/symmetries-in-physics>, <https://euro-acad.eu/events?id=144>

acatech am Dienstag

November 22, „How far has the development of neuromorphic IT progressed? Will we reach a new level of artificial intelligence and digitalisation with neuromorphic chips?“- online conference.

Programm: <https://www.acatech.de/termin/acatech-am-dienstag-neuromorphe-chips/>

Welcome Speech: Reinhard Ploss, Präsident acatech und Co-Vorsitzender der Plattform Lernende Systeme, Podium: Klaus Mainzer, Technische Universität München, acatech Mitglied und Präsident der EASA, wissenschaftlicher Beirat des „BMBF-Zukunftsclusters NeuroSys-KI“, Heike Riel, IBM Fellow, Head Science & Technology, Martin Ziegler, Technische Universität Ilmenau, Institut für Mikro- und Nano-Elektronik, Artur Zrenner, Universität Paderborn, acatech Mitglied, Moderation: Marc-Denis Weitze, acatech Geschäftsstelle. <https://euro-acad.eu/events?id=150>

19th European Angiology Days

December 2-4, Milano/WEB LIVE, under the patronage of Dusan Suput (Dean EASA, Class II), Welcome Speech Klaus Mainzer, President EASA, Speeches of Gerit-Holger Schernthaner (Class II) and Mariella Catalano (II), <https://euro-acad.eu/events?id=153>

The International Conference on Tolerance and Democracy for Peace in Europe

December 1, hosted by the President of the Republic of Slovenia Borut Pahor, the European Academy of Sciences and Arts and the Slovenian Academy of Sciences and Arts Location: Presidential Palace, Grand Hall, Prešernova cesta 8, Ljubljana.

www.bivsi-predsednik.si/up-rs/2012-2022/pahor-slo-arhiv.nsf/objave/D4A870A940E2A245C125890B00513C58?OpenDocument

<https://euro-acad.eu/events?id=152>

acatech-Themenkonferenz zu Safety und Security

December 6, online conference, Impulse lecture Safety and Security in virtual space: We need responsible AI! Klaus Mainzer, Technical University of Munich, President EASA (in German language). <https://euro-acad.eu/events?id=151>

19th Christmas Symposium of Physicists

December 15–17, dedicated to the 80th Birthday of Professor Giulio Casati, University of Maribor, Slovenia, Marko Robnik (Class IV), Director CAMPT under the patronage of EASA: Greetings and Opening Lecture: Klaus Mainzer, President EASA.

<https://euro-acad.eu/events?id=149>

Those conference-contributions that were recorded have a video link attached.



Awarding of the Paul Crutzen Medal, Festive Plenary 2022, Ulrich Kubinger (VTA), Ernst Ulrich von Weizsäcker, Klaus Mainzer, Felix Unger, © Wildbild

IV. PEASA

THE JOURNAL OF THE EASA



Proceedings of the EUROPEAN ACADEMY of Sciences & Arts PEASA

The European Academy of Sciences & Arts announces the launching of its first scientific Journal, the Proceedings of the European Academy of Sciences and Arts (PEASA) in 2022 (www.peasa.eu). Peasa was developed by Ioannis Liritzis, Editor-in-Chief and Dean of Class IV., the EASA Members Andrew Balas, Beatrix Hiesmayr, Marc Huett, David Kumar, Antonio Marquina, Suput Dusan and Peter Herrmann.

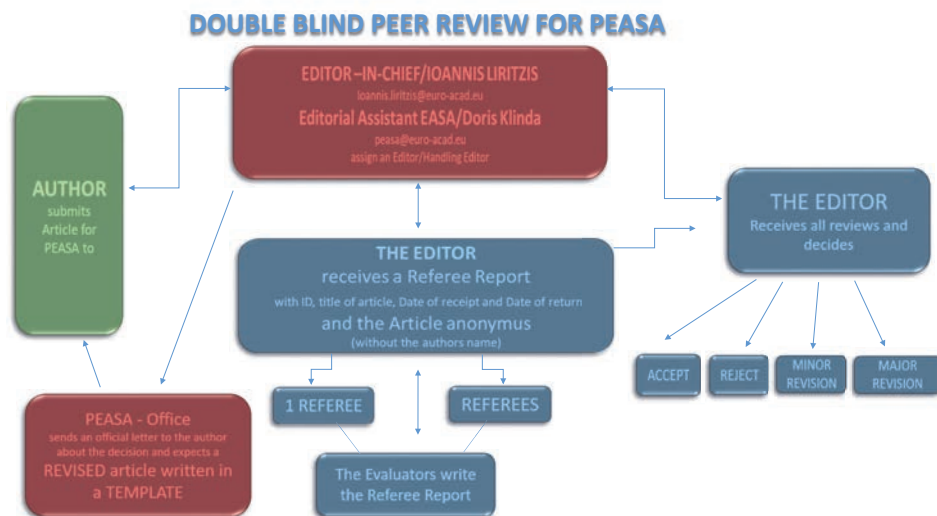
The mission of PEASA is to promote innovative, interdisciplinary, and trans-national research that serves the advancement of Europe and world. Topics for article submission include but are not limited to: Humanities; Social Sciences; Medicine & Health Issues; Natural Sciences; Comparative religions; Law, Economics & Politics; Technical & Environmental Sciences; Interdisciplinary issues; Cultural Studies; Science in Arts.

The journal is a biannual peer-reviewed journal started accepting articles in July 2022. In December 2022, we have completed Vol.1, No 1 with articles from our members, 14 articles are published since then either in topics or categories. From the new year we are accepting articles for volume 2 number 1.

The PEASA Journal accepts submissions from EASA members and non-members writing to the Editor-in-Chief: Prof. Ioannis Liritzis 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. In addition to adherence to common scientific standards, reviewers should assess the interdisciplinarity of the submission, as well as the understandability across disciplinary boundaries. If necessary, reviewers should request that the authors revise their manuscript according to these criteria.



The Review system is described in www.peasa.eu/review-process/.

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Prof. Ioannis Liritzis

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V. TOLERANCE PROJECT

Tolerance Awards 2022 – „Without tolerance, Europe would disintegrate“



Klaus Mainzer, © Coelln Coloer, Markus Nischk

At this year's award ceremony on 16 November in the Stiftersaal of the Wallraf-Richartz Museum in Cologne, the European Academy of Sciences and Arts honoured the Islamic theologian and author **Ihsan Eliaçik**, the German theologian and author **Karl-Josef Kuschel**, as well as the Deputy Chair of the German-Israeli Society Berlin and Brandenburg **Lala Süßkind**.



Stefan Zimmermann, Zehra Nur Eliacik, Karl-Josef Kuschel, Lala Suesskind,
Klaus Mainzer; © Coelln Coloer, Markus Nischk

The President of the European Academy of Sciences and Arts, **Klaus Mainzer**, emphasised in his opening speech „The demand for tolerance, which should be a matter of course for the free societies of Europe, is more urgent than ever against the backdrop of war in Europe and a dramatically increasing climate of intolerance and impatience. „Without tolerance, Europe would disintegrate“. Tolerance is not a value in itself, but is in tension with other values such as freedom and truth. Should we give up freedom and sovereignty for the sake of peace? Do we have to tolerate lies and propaganda in order to tolerate other opinions? Values do not come for free. Values have their price. Tolerance therefore requires a clear moral and political compass, as enshrined in the democratic constitutions of European countries, <https://youtu.be/4FN2iu6ghAM>

Ralf Heinen, Mayor of the City of Cologne, congratulated the award winners in his speech and emphasised „The fact that every third person living in Cologne has foreign roots, more than 180 nations live among us, means that, apart from our motto: live and let live, we can rightly call ourselves a metropolis of tolerance, diversity and openness.“

Beatrix Busse, Vice Rector of the University of Cologne, introduced the ceremonial awarding of this year's Tolerance Prizes to three Cologne schools. She made it clear that tolerance is more than just tolerating differences: „Tolerance is an attitude that does not come about by itself, but has to be worked hard for from an early age. After all, the key to peaceful coexistence between different cultures lies in education. And thus in the schools, said Stefan Zimmermann, Chairman of the Cologne Board of Trustees for the Tolerance Awards.



Daniel Kramp, Zehra Nur Eliacik, Beatrix Busse, Lala Suesskind , Karl-Josef Kuschel, Klaus Mainzer, Ralf Heinen, Stefan Zimmermann; © Coelln Coloer, Markus Nischk

Daniel Kramp, Managing Director of ZFL emphasised in his speech „Schools are greenhouses of the future, essential places where the future can be shaped, diversity can be experienced and practised.“

After the subsequent panel discussion with the winners of the tolerance rings, moderated by **Joachim Frank**, Chief Correspondent DuMont (Kölner Stadt-Anzeiger), the European Academy of Sciences and Arts and the University of Cologne awarded a prize for tolerance to three schools from the Cologne area. The **Deutz Gymnasium Schaurtestraße** received the prize for its diverse initiatives and projects in the area of tolerance, for a „tolerance kit consisting of exchange, change of perspective, diversity of opinion, openness, mutual appreciation and initiative that holds the school community together“, according to the jury. Furthermore, the prize went to the **Albertus Magnus Gymnasium** in Neuehrenfeld. „People of different origins and cultures, people with different views, sexual orientations or identities, with different disabilities and talents learn and work here. We see this diversity as an opportunity and enrichment for our community“ and the **Elly-Heuss-Knapp-Realschule** (EHK) in Mülheim, an inclusion school.

The schools were nominated and presented by student teachers at the University of Cologne and previously selected by a panel of experts at the University of Cologne and the Cologne Board of Trustees for the award of the Tolerance Rings of the European Academy of Sciences and Arts. The members of the Board of Trustees include Henriette Reker, Mayor of the City of Cologne, Axel Freimuth, Rector of the University, Hedwig Neven DuMont, Chairwoman of „wir helfen“, Peter Wollseifer, President of the Cologne Chamber of Crafts, Lale Akgün and Bettina Böttinger.

The ceremony was accompanied musically by the „Ensemble Quinton“.

We would like to thank our sponsors Deutsche Bank and the association Wir helfen, as well as Cellex.



Ring of Tolerance, © Coelln Coloer, Markus Nischk

VI. REPORTS

Topic Network of Expert Groups



In order to sharpen the profile of our Academy, the Senate decided to start with a topic network of expert groups such as

- ✦ Digitilization, AI, and their Societal Impact (coordinator: President)
- ✦ Research, Innovation, and Education (coordinator: Dean of Class IV)
- ✦ Medicine and Life Science (coordinator: Dean of Class II)
- ✦ Environment, Climate, and Energy (coordinator: Dean of Class VI)

The goal of this topic network is to interrelate the different research interests in our Academy, but also to produce white papers, created by members of the EASA in collaboration with European organisations and institutions, which can draw attention to the work done in the Academy and the intellectual standing of its members and result in societal impact of the Academy. The White Papers were certified by Presidium and Senate and are published in the new Journal of EASA starting online since 2022.

Philosophy Festival in the Allgäu Alps/Awarding of the Meckatzer-Philosophy Prize for „Philosophy and Artificial Intelligence“

At the third philosophy festival in the Allgäu Alps of Oberstdorf/Kleinwalsertal on 26 June 2022, Klaus Mainzer was awarded the Meckatzer Philosophy Prize „for his outstanding overall and life’s work in the field of philosophy“.

After the laudatory speech, he gave a public keynote address entitled „Quo vadis AI? A Plea for Sustainable and Responsible Artificial Intelligence (AI)“.

In his lecture, Mainzer first showed the deep historical roots of computer science and AI in logic and philosophy. He proposed a working definition of artificial intelligence that is based on measurable criteria and can be corrected and expanded according to the state of knowledge. He pointed out that following the Turing Test (1950), AI research was initially oriented towards the logical reasoning of symbolic logic. Statistical learning from large masses of data led to machine learning, which dominates AI's techno-economic breakthroughs today. This includes chatbots (currently ChatGPT), which deceptively generate texts and conversations at a sophisticated level, but can also spread dangerous misinformation and discrimination in the media. What is missing is logical and causal reasoning and understanding. Therefore, Mainzer called for an extension to a hybrid AI that combines statistical machine learning with logical and causal reasoning. Applications were discussed for robots as well as in intelligent infrastructures (e.g. smart houses, smart city, smart factory).

With this, Mainzer also highlighted the enormous energy consumption caused by digitalisation and AI, which is a burden on the environment. Here it becomes clear how the major human problems of energy and climate are directly related to digitalisation and AI. In this context, Mainzer referred to more energy-efficient alternatives to the von Neumann architecture of today's computers. Since many years he is working in neuromorphic systems modelled on the human brain. Against this background, he is engaged in a future cluster for neuromorphic systems of the German Federal Ministry of Education and Research.



© Dominik Berchtold

Thus, his goal is sustainable artificial intelligence as a service to humans in order to achieve trust in AI through technology design. The ethical orientation of AI as a service system is human dignity and autonomy, as demanded in the fundamental rights of democratic constitutions. Mainzer therefore concluded with the plea that Europe must sharpen its profile for sustainable AI oriented towards human rights in the global confrontation of world powers.

<https://youtu.be/P-B4Ybks8t0>, <https://euro-acad.eu/events?id=131>

Reference: K. Mainzer, Artificial Intelligence. When do machines take over? Springer 2nd edition 2019; K. Mainzer, R. Kahle, Frontiers of AI - theoretical, practical, ethical, Springer 2022.

The International Symposium on Tolerance and Democracy for Peace in Europe

President Klaus Mainzer and Prof. Dr. Felix Unger, Honorary President of European Academy of Sciences and Arts, have been invited by the Slovenian Academy of Sciences and Arts to the International Symposium on Tolerance and Democracy for Peace in Europe, hosted by the President of the Republic of Slovenia and Protector of EASA, Borut Pahor, which took place in the Grand Hall of the Presidential Palace in Ljubljana.

Prof. Dr. Ludvik Toplak, national representative of Slovenia to EASA and President of Alma Mater Europaea arranged a come together with Slovenian Members of the European Academy of Sciences and Arts in Hotel Slon at the



Reception with President Borut Pahor, Peter Štih (SAS), Ludvik Toplak (AMEU), Honorary President Felix Unger (EASA), President Klaus Mainzer (EASA); © STA



© Daniel Novakovič/STA

evening before the conference. At the invitation of Prof. Dr. Peter Štih, President of the Slovenian Academy of Sciences and Arts, and the Director of National Gallery Dr. Barbara Jaki, President Mainzer and Honorary president Felix Unger joined the the opening of the exhibition of Slovenian impressionist painter Matej Sternen (1870– 1949) at the National Gallery. On Thursday, 1 December 2022, The International Symposium on Tolerance and Democracy for Peace in Europe



© Daniel Novakovič/STA

was opened by addresses of Prof. Dr. Peter Štih, Honorary President of the EASA Felix Unger and President of the Republic of Slovenia and Protector of the European Academy of Sciences and Arts, Borut Pahor.

The Lectures were given by Prof Dr Jože Krašovec, Member of Slovenian Academy of Sciences and Arts and President Klaus Mainzer.

What was the common core of these speeches? Against the background of the current political, economic and military world situation, it becomes glaringly obvious what has been seriously lacking in the recent past - strategic thinking. The era of visual flight and short-term political and economic interests led to disaster. Others seized the moment for their long-term strategies and interests. What can we do in Europe on the part of science, research, education and training? Answer: Learn to think strategically, because only on this basis can responsibility be implemented.

The thesis is therefore that the pressure of the current political, economic and military crisis should be used to accelerate the transition to sustainable innovations in order to get out of the one-sided dependence on fossil energies. This is to solve the real big problem of this planet - the global environmental and climate crisis.

However, the recent political, economic and military crisis also shows that strategic thinking and action cannot be confined separately to individual branches of research, technology and business. Innovation strategies are part of a global confrontation between political world systems. The free democratic constitutional state is not only an expression of the human rights highlighted in the UN Charter, but also provides legal certainty for innovations and markets on which economic competition takes place.

Imperial thinking and the insistence on imperial spheres of influence and the law of the strongest only set humanity back centuries and lead it into the abyss. Therefore, this conference was a plea for an international law of nations, according to which the citizens of a sovereign country alone determine their future and no one else.

<https://www.bivsi-predsednik.si/up-rs/2012-2022/pahor-slo-arhiv.nsf/objave/D4A870A940E2A245C125890B00513C58?OpenDocument>

Symposium/Werner Heisenberg and the future of Quantum Physics

On 28 October 2022, EASA member and Nobel laureate Anton Zeilinger was awarded the Heisenberg Medal in a public symposium at the Literaturhaus in Munich. The symposium was entitled „Werner Heisenberg and the Future of Quantum Physics“. The event was opened by the Bavarian Minister of State for Science and the Arts. Afterwards, the daughter of Werner Heisenberg, Barbara Blum-Heisenberg, spoke about the historically exciting topic of her father's responsibility and that of nuclear physicists in general in the 20th century during World War 2 and in the post-war period of the Cold War. Afterwards, the director of the Munich Max Planck Institute for Quantum Optics spoke on

the topic „From the coldest temperatures to Feynman’s quantum simulator. Computing with atoms trapped in laser light“. The topic was the basics of quantum mechanics and the quantum and laser technology based on it, which allows computing with quantum bits of atoms.

The laudatory speech on the laureate was held by Zeilinger’s colleague from Innsbruck, Gregor Wels. Then Anton Zeilinger held his festive speech. He explained his crucial experiments which were awarded by the Nobel prize for physics 2022. In the beginning, there was the famous thought experiment of Einstein-Podolsky-Rosen (EPR).



© 2022 Pietsch276

In this thought experiment, Einstein drew attention to a consequence of quantum mechanics that seemed to contradict his theory of relativity. If two particles (e.g. photons) are sent from a common source in opposite directions, then according to quantum mechanics changes in one particle should immediately lead to changes in the other particle in far distance. According to the constancy of the speed of light in the theory of relativity, however, signal transmission takes a finite time. According to the classical view, the properties of the bodies, once they have left the common source, are independent of each other („locally“). Therefore, Einstein blamed these predicted instantaneous effects of quantum mechanics as „spooky“. In quantum physics, however, the particles are not separated, but „entangled“ in a common („non-local“) state even over large distances. The locality assumption of classical physics leads to predictions that today are clearly refuted experimentally. This „entanglement“ of distant locations can be exploited today in quantum technology for enormously accelerated quantum communication, which could one day lead to a quantum internet.

In a subsequent panel discussion on the topic „(Un)imaginable quantum world?“, Monika Aidelsburger (Munich), Klaus Mainzer (Munich), Reinhard Werner (Hannover) and Anton Zeilinger (Vienna) discussed the epistemological, physical and technical consequences of these experiments and again addressed the responsibility of the natural scientist in the 21st century, which already preoccupied Werner Heisenberg in the last century.

VIII. NEW MEMBERS

elected by the Senate 2022



Class I – Humanities

David Florian Bieber, Austria
Korajlić Nedžad, Bosnia and
Herzegovina

Riccardo Pozzo, Italy



Class II – Medicine

Kenan Arnautovic, USA
Claudi Bockting, The Netherlands
Mariella Catalano, Italy
Ernesto Kahan, Israel
Igor Rudan, UK

Eva Schernhammer, Austria
Iztok Takac, Slovenia
David Thompson, United Kingdom
Zhenning Wang, China



Class III – Arts

Livia Teodorescu-Ciocănea,
Romania
Milutin Djurickovic, Serbia
Peter Fister, Slovenia

Carin Levine, Germany
Svebor Sečak, Croatia
Varujan Vosganian, Romania



Class IV – Natural Sciences

Emmanuel Amiot, France
Markus Arndt, Austria
Chin-Chen Chang, Taiwan
Adrian Constantin, Austria
Kyriakos Efstathiou, Greece
Pavel Etingof, USA

Niki Evelpidou, Greece
Peter Markowich, Austria
Leszek Roskowski, Poland
Ion Tiginyanu, Romania
Cheng-Xiang Wang, China



Class V – Social Sciences, Law & Economics

Adam Biela, Poland
Jose Molero-Zayas, Spain
Marco Vivarelli, Italy

Stjepan Oreskovic, Croatia
Kemal Yildirim, Kosovo



Class VI – Technical & Environmental Sciences

Samuel Ariaratnam, USA
Chen Bing, Canada
Francesco Canestrari, Italy
Mohammed Rajaâ Cherkaoui El
Moursli, Morocco
Frank Mau-Chung Chang, USA
Ali Erdemir, USA
Giovanna Guidoboni, USA
Lee Gwo-Bin, Taiwan
Makarand Madhao Ghangrekar, India
Tony Jun Huang, USA
Francesco dell'Isola, Italy
Yatchko Ivanov, Bulgaria
Jürgen Kosel, Austria
Lukasz Kurgan, USA
Xinyu Liu, Canada
Donyang Li, Canada
Xilin Lu, China

Marin Milkovic, Croatia
Katarzyna Majewska-Nowak, Poland
Sanjit Kumar Mitra, USA
Naofal Al-Dahir, USA
Shrikanth Narayanan, USA
Sankar Pal, India
Stephan Pachnicke, Germany
Karen Ann Panetta, USA
Timon Rabzuk, Germany
Martin Ostoja-Starzewski, USA
Paolo Samori, France
Min Xie, China
Yeong-Bin Yang, China
Yong Yuan, China
Daniel Hanoch Wagner, Israel
Jin Wang, UK
Ming Hung Wong, China
Dan Zhao, New Zealand



Class VII – World Religions

Jutta Jokiranta, Finland

Volker Leppin, USA

NOMINATION

Know somebody who would
fit in right with us?

EASA Members can recommend new
members for consideration.



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

NEWS

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News and upcoming events
can be found on our website



<https://euro-acad.eu/news>

NEWS

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