

Greetings from St. Peter 02/21

Letter of the President

Salzburg, 1st May 2021

Dear members of the European Academy of Sciences and Arts,

the presidential office kindly send spring greetings in May to you all from St. Peter in Salzburg. Last month April was not only a challenge of Corona. Climate change and digitalization were concerned by severe political decisions in Europe which should be considered in our Academy.

In April 2021 Germany's Constitutional Court decided that the country's 2019 climate protection law, which sets out emissions cuts over the next decade and beyond, was partly "unconstitutional" because it shifted the climate burden of making painful reductions to future generations. The decision requires the government to further detail emission reduction targets after 2030 by the end of next year. Thus, sustainability for future generation is an urgent demand with respect to tougher EU goals. Anthropocene and climate change will be the topic of an international Zoom conference of EASA in Salzburg on 28th May 2021. The thematic scope of this interdisciplinary conference goes across the topics of natural sciences, economics, politics, and ethics in the different classes of our Academy. Our members are invited to take part. Please, contact the presidential office for further information.

In last April, the European Commission decided a new regulatory framework on Artificial Intelligence. As we all know, AI systems support societal benefits, economic growth, innovation, and global competitiveness of Europe. However, certain AI systems may also cause new risks with respect to user safety and legal rights. Trustiness is an important demand to overcome legal uncertainty for companies and to support the acceptance of AI technologies by businesses and citizens. But, finally, ethical demands of human rights play a fundamental role to sharpen the European profile of AI. Again, different classes and members of our Academy are strongly concerned. It would be nice to aim at a position paper of our Academy with respect to the new regularity AI-framework.

In several other fields and projects, the deans will ask you to engage with respect to your expertise on the whole scope of our Academy. Nevertheless, feel free to suggest workshops and events in collaboration with our Academy, especially those in collaboration with European institutions and organization. But, please, don't forget how to finance them. For coming events of the Academy, please, see the following schedule events and the Homepage of the Academy. In the end, all our activities should aim at sharpening our profile as European Academy of Sciences and Arts.

I look forward to meet you online or, hopefully, with physical presence in a soon future.

With kind regards

A handwritten signature in black ink that reads "Klaus Mainzer". The signature is written in a cursive, flowing style.

President

Schedule Events

Serdjo Kos (Class VI) University of Rijeka, Faculty of Maritime Studies: 14th Baska GNSS Conference: *PNT Technologies, Techniques and Applications*, 10-12th May 2021,

Contact: skos@pfri.hr

EASA & IESP: *Anthropocene and Climate Change. In Memory of Paul Crutzen (1933-2021)*,
International Zoom-Conference 28th May 2021.

01:00-01:30 p.m. Introduction (Mainzer/President EASA)

01:30-02:00 p.m. Scientific Legacy of Paul Crutzen (1933-2021) (Mauser/Class IV)

02:00-02:30 p.m. Anthropocene and Climate Crisis (v. Weizsäcker/Class IV)

02:30-03:00 p.m. Coffee break

03:00-03:30 p.m. Challenges of Circular Economy (v. Hauff/Class V)

03:30-04:00 p.m. Challenges of Environmental Politics (Grambow/Class VI)

04:00-04:30 p.m. Challenges of Christian Environmental Ethics (Vogt/Class VII)

04:30-05:00 p.m. Final Words and Announcement of the Paul Crutzen Medal
(Unger/Founder EASA)

Contact: presidential.office@euro-acad.eu

TUM, EASA, IESP, Saxon Academy of Sciences: *Online Symposium Circular Economy*, 11th June 2021

Circular Economy (CE) promotes sustainable resource management, waste reduction, and the recycling of resources to protect environment and climate. The symposium is organized according to the so-called Dahlem conference model with the Technical University of Munich (TUM), European Academy of Sciences and Arts (EASA), Institute of Earth System Preservation (IESP), and the Saxon Academy of Sciences. There are four working groups „CE Theory & Practice“, „CE and Energy Efficiency“, Resource Efficiency through CE“, and „CE through Digitalization“. They aim at recommendations and a manifesto for public institutions which will be presented and discussed at an online symposium 11th June 2021. EASA-members are invited to take part in the online symposium with commentaries according to the Dahlem model. Interested members are asked to contact: eo@zv.tum.de

EASA: *Trends of Quantum Computing. Challenges of a Revolutionary Technology for Europe*,
International Zoom Conference: 18th June 2021.

10:00-10:30 a.m. Greetings and Introduction (Mainzer/ president)

Chair: Robnik (Class IV)

10:30-11:00 a.m. From Quantum Paradoxes to Quantum Information

(Zeilinger/Class IV)

11:00-11:30 a.m. From Quantum Information to Quantum Computer (Blatt/Innsbruck)

11:30-12:00 a.m. Quantum Computer with Superconductors (Wilhelm/Saarbrücken)

12:00-12:30 p.m. Quantum Computer with Ions (Schmidt-Kaler/Mainz)

12:30-01:00 a.m. Lunch Break

Chair: Casati (Class IV)

01:00-01:30 p.m. From Quantum Foundations to Applications in Quantum Cryptography and back (Gisin /Geneva)

01:30-02:00 p.m. Quantum AI and Quantum Machine Learning (Bauckhage / Fraunhofer St. Augustin)

02:00-02:30 p.m. Europe's Challenge Digital Sovereignty: Germany's Roadmap Quantum Computer (Kagermann/acatech Berlin)

02:30 p.m. Final words (Mainzer/president)

Contact: klaus.mainzer@euro-acad.eu

Liritzis Ioannis (Dean class IV): *Archaeometry Colloquium*, International Zoom-Conference: 26th June 2021, 05:00 - 08:30 p.m.

1. Prof. Lemr Karel (karel.lemr@upol.cz) (Dept. of Analytical Chemistry, Faculty of Science, Palacky University, Czech Republic) Class IV "*Analytical Chemistry & Mass Spec in Art*"
2. Prof. Liritzis Ioannis (ioannis.liritzis@euro-acad.eu) (University of the Aegean, Greece) Dean Class IV, "*Archaeometry: brief overview and advancements*"
3. Prof. Philippe Walter (philippe.walter@upmc.fr) (Sorbonne Université, Laboratoire d'Archéologie Moléculaire et Structurale (LAMS)), Class IV "*New opportunities in archaeology from in situ material scientific characterization*"
4. Dr. George Polymeris (g.polymeris@inn.demokritos.gr) (Nat. Center Sci. Res. "Demokritos", Athens) "*New advances and progress in stimulated luminescence dating*"
5. Prof. Vladimir Ionesov (ionesov@mail.ru) (Samara State Institute of Culture, Russia) Class I "*The value of knowledge of the past societies: some theoretical background of cultural heritage*"

30-mins each. 5-min questions

Peter Fischer-Appelt (Class VII): *Widerstand im Nationalsozialismus*. Eine Rede zum 100. Geburtstag von Hans Leipelt (1921-1945) am 18. Juli 2021 – Student der Weißen Rose in Hamburg und München. Zoom-Conference of the Presidential Office on 18th July 2021.

Contact: presidential.office@euro-acad.eu

Vojislav Mitic (Class VI): *Advanced Ceramics and Applications, New Frontiers in Multifunctional Material Science and Processing*, 20-22nd September 2021

Contact: president@serbianceramicsociety.rs

Vice president Harreß, Dean Dinescu (Class III), Dean Önnerfors (Class I): *Symposium at the occasion of the 200th birthday of Fjodor Dostojewski*, 13th November in Salzburg.

Contact: harress@rz.uni-leipzig.de

Awarding of the Tolerance Rings, Cologne 18th November 2021.

Contact: presidential.office@euro-acad.eu

Received Print Publications

Werner Weidenfeld, *Die Europäische Union*. Grundzüge der Politikwissenschaft, 6. Aktualisierte Auflage, Wilhelm Fink Verlag 2021

Michael H. Weninger, *Loge und Altar*. Über die Aussöhnung der Katholischen Kirche und (regulärer) Freimaurerei, Löcker Verlag 2021

Sr.Dr.Maura Zátonyi OSB, *Europäische Spiritualität*. Kontemplation im Wirken, Aschendorff Verlag 2021

Articles:

Joannis Liritzis and Pantelis Volonakis, *Cyber Archaeometry. Novel Research and Learning, Subject Overview*, March 2021

Joannis Liritzis, *Journal of Applied Science and Technology to cultural Heritage Issues. A Review of Archaeometric Results on Sarakenos cave, Greece*, March 2021

Claus Dierksmeier, *Rechts Philosophie. Zeitschrift für die Grundlagen des Rechts. Krause on Animal Rights and Ecological Sustainability*, March 2021

Claus Dierksmeier, *Rechts Philosophie. Zeitschrift für die Grundlagen des Rechts. Global Citizenship and Cosmopolitan Governance*, March 2021

Serdjo Kos, *Remote Sensing, an Open Access Journal by MDPI. GNSS, Space, Weather and TEC special features*, April 2021

We congratulate

Univ.Prof.Mag.DDr.Stefan Thurner (Class II) Medical University Vienna to the Paul Watzlawick - Ring of Honour

We have to regret the death of

Karl Bornschein, Honorary Senator of the EASA, 19.03.2021



Karl Bornschein was a great supporter of the European Academy of Science and Arts.

It has been in 1989 in Leipzig where I discussed with him the possibility of an European Academy and he was such in favour that he promised me immediately giving the critical mass for a foundation. With his gift it has been possible to found the Academy.

Later on he was always interested in the progress of the Academy and finally we could convince him, being the treasurer of the Academy what he has done for some years with great success. He was an unique personality, open minded and deeply honest. When something convinced him, he was really standing behind his idea. I had the pleasure meeting him at different points, for instance at Düsseldorf and Lausanne and finally he moved to Anif nearby Salzburg, where he found with his wife Heidi a very nice house. After the death of Heidi, he moved to another house, where he lived together with his daughter and his grandchildren. He was a great man, a real personality, which we are missing in our days very often. We have to thank him and we will keep him in a constant memory.

R.I.P - Requiescat in pace

Felix Unger

We regret the death of

Hans Küng (Class VII), 06.04.2021



Portrait of Hans Küng by Monika Fioreschy (class III)

Requiescat in pace