



Newsletter No. 79

The Association for the Advancement of Pulsed Power (A2P2) and Science Made Public (SMP) virtual conference

Newsletter by: Luís Redondo, Vice-President of the A2P2 and SMP Chair

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At the Association for the Advancement of Pulsed Power (A2P2), www.a2p2pulsepower.org, we believe that for the world to move forward people must share knowledge. We are committed to the dissemination and sharing of science, so that it reaches everyone. Only in this way, it is possible to have a more developed society in all aspects.

A2P2 was established in 2015 and has, since then, been organizing scientific events and has created a website, where scientific and educational documentation is available for members on a free access basis. Membership of A2P2 is free, as the objective is that the people who need to access the information, can do so in a cost-free manner, while the cost associated with the website management is supported by private companies who are invited to be sponsors and partners, and thus advertised and promoted on the website and at every event.

The A2P2 website is currently being redesigned in order to be prepared to include an on-line forum, where experts from different fields will answer to questions proposed by students around the world, this being a way to share knowledge. A2P2 is also actively developing efforts with partners, in order to give travel grant for students to attend scientific conferences.

In 2016, A2P2 organized the 6th Euro-Asian Pulsed Power Conference with the 21st International Conference on High-Power Particle Beams and the 15th International Conference on Megagauss Magnetic Field Generation and related topics, EAPPC/BEAMS/MEGAGAUSS 2016, in Estoril, Portugal. The conference gathered around 400 registrants from 29 countries.

In 2023, A2P2, will organize the 28th Bioelectrics Symposium, bioelectrics2023.pt, from 10 to 13 September in Lisbon, Portugal.

Since 2020, triggered by the global shutdown imposed by the COVID-19 pandemic, A2P2 decided to implement technological solutions for the organization of a virtual conference, called Science Made Public (SMP), where experts in Pulsed Power Technology and Applications present what they are doing in several areas, from physics, health, biotechnology and medicine, the environment, to agriculture and food, but in a non-specialized and non-technical way. This is important so as to reach a wider community, consisting of students and the general public. The conference is broadcast on the web media in an open access format, connecting persons around the world, in order to reach people who normally have no means of attending scientific conferences or reading specialized journals, but also, to show the general public, who fund science through their taxes, what scientist are doing to contribute to the well-being of all. Scientists are impressively energetic, creative and committed professionals. So, what are they doing? What effect is it having? How will we benefit?

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The first, in 2020, and the second, in 2021, SMP virtual conferences each reached over 3500 people on-line around the world. Through partnerships several places, universities and other public institutions opened their doors to students and the general public in order to make special sessions to assist the event. Then through a dedicated link the conference is streamed into auditoriums and meeting rooms around the world. The first SMP was organized with scientists working in Europe, whereas the second one with scientist working in Asia.

On December 6, 2022, from 4 PM to 7 PM (GMT) the third SMP will take place, with the participation of scientist working in the Americas. The exact hour and the presenting scientists will be announced through the A2P2 [LinkedIn](#) and [Facebook](#). You can register (for free) at: forms.gle/W7JzJuWKxsDd5Kis8 and receive all the information, including the YouTube and Facebook link to follow the SMP. Anyone wishing to sponsor us or partner on this event can also contact me or the secretariat directly at secretariat@a2p2pulsepower.org.

A2P2 would like to thank all the scientists who voluntarily take part in the SMP virtual conferences. By sharing with others what they have learnt over many decades, they are helping to create a better world.

During the 1st conference, the speakers were:

- Bucur Novac, Loughborough University, UK, spoke about "Pulsed Power Physics and Technology – An Introduction";
- Guus Pemen, Eindhoven University of Technology, The Netherlands, spoke about: "Environmental Applications of Pulsed Power Technology";
- Damijan Miklavčič, University of Ljubljana, Slovenia, spoke about "Electroporation-Based Technologies and Treatments - Medical Applications";
- Mike Barnes, CERN, Switzerland, spoke about "Pulsed Power at CERN: Kicker Systems"; and
- Javier Raso, University of Zaragoza, Spain, spoke about "Pulsed Electric Fields for Food Processing".

During the 2nd conference, the speakers were:

- Hong-Je Ryoo, Chung-Ang University, South Korea, how spoke about "Industry Application of Solid-State Pulsed Power Technology";
- Jiande Zhang, national University of Defense technology, China, how spoke about "Application of Pulsed Power Technology to High Power Microwave";
- Douyan Wang, Kumamoto University, Japan, how spoke about "Pulsed Power Applications in Marine Industries";
- Hridyesh Pandey, from India, will speak about the Pulsed Electric Fields and its Application in Dehydration"; and
- Sergey Sokovnin, Institute of Electrophysics, Russian, spoke about "Repetitive Nanosecond Electron Accelerators type URT for Radiation Technology".

For the 3rd conference, the confirmed speakers will be:

- Edl Schamiloglu, University of New Mexico, USA, will speak about: "Pulsed Power and The Dawn of High-Power Microwaves";
- Rafael Davalos, Virginia Tech, USA, will speak about "High Frequency Irreversible Electroporation for the Treatment of Brain Cancer";
- Mike Kempkes, Diversified Technologies, USA, will speak about "Pulsed Power Applications in Defense, Science, and Industry";
- José Rossi, National Institute for Space Research, Brazil, will speak about "Research on Nonlinear Transmission Lines at INPE"; and
- Gipsy Tabilo, University of Bío-Bío, Chile, who will speak about "Pulsed electric field as a novel technology for the food industry".

I would like to invite you to attend this event as well as inviting you to become a member of A2P2 and it is free. We can all contribute to a better world, please join us.

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*Science Made Public (SMP)
Virtual Conference 2021 – a
screen capture from the
conference. The conference
reached over 3500 people
around the world.*

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