Special Projects and Sponsorship Project to strengthen the relations with IAEA and the accelerator science community

Christine Darve & Boris Sharkov

IUPAP Executive Council and Commission Chairs
October 2026

2nd Inter. Acc. Conf. on Research and Innovations, IAEA

Vienne, 24 June 2026.

Article "IAEA Hosts Conference on Accelerators for Research and Innovation"



More than 500 scientific experts from over 70 countries gather in Vienna for the 2026 Accelerators Conference. (Photo: M. Klymenko/IAEA)





Young Professional Award Winners


IUPAP

The International Union of Pure and Applied Physics

the Young Professional Award

Presented to

For outstanding presentation at the

2nd International Conference on Accelerators for Research and Innovation

held on
22-26 June 2026
IAEA Headquarters, Vienna, Austria

In recognition of achieving

4th Prize

Presented by the IUPAP - Working Group 14 (WG14) on Accelerator Science - ***Particle Accelerators for Science and Society***

On behalf of the IUPAP Executive Committee

Christine Darve, Chair, IUPAP-WG14

Boris Sharkov, IUPAP-Treasurer

Date: June 26, 2026

Presented jointly by the IAEA
and the International Union of Pure and Applied Physics (IUPAP)

2nd IAEA International Conference on

22 – 26 June 2026

Vienna, Austria

ACCELERATORS for Research and Innovation

#ACCELERATORS2026

IUPAP IAEA

Young Professional Award Winners

1st Prize



2nd Prize



3rd Prize



4th Prize



Young Professional Award Winners

ID 578



Thermal Neutron Generator Design and Implementation at CNA HiSPANoS

Jesús Bartolomé Sarsa

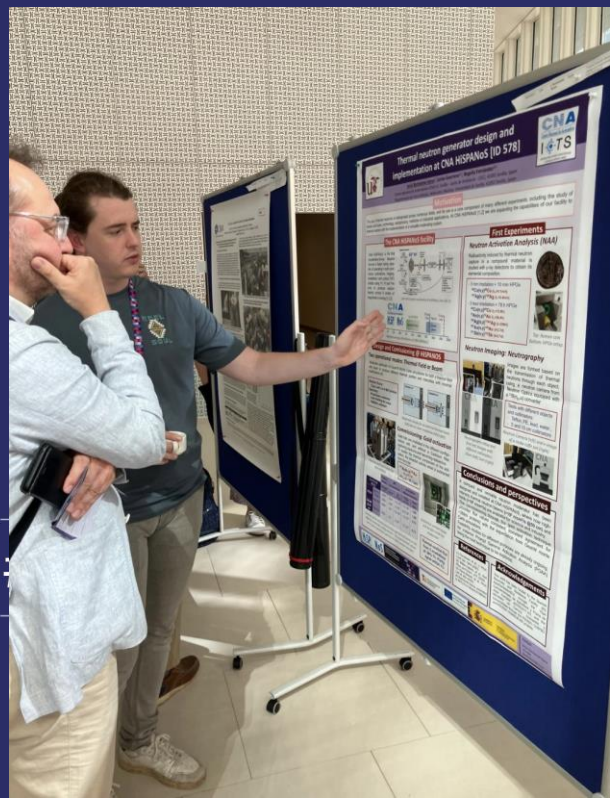
Centro Nacional de Aceleradores,
Universidad de Sevilla, Spain

2nd IAEA International Conference on

22 – 26 June 2026

Vienna, Austria

ACCELERATORS for Research and Innovation



Young Professional Award Winners

ID 624



Heavy Ion Beam Diagnostics at the JINR FLNR Accelerator Complex: State Of Art

Askar Issatov

Joint Institute for Nuclear Research (JINR)

2nd IAEA International Conference on

22 – 26 June 2026

Vienna, Austria

ACCELERATORS for Research and Innovation

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IUPAP IAEA

Young Professional Award Winners

ID 311



Helena Biljanić
Ruđer Bošković Institute, Croatia

Electron Beam-induced Surface Engineering of Calcium Carbonate for Enhanced Performance in Polymer Composites

2nd IAEA International Conference on
22 – 26 June 2026
Vienna, Austria

ACCELERATORS for Research and Innovation

#ACCELERATORS2026

IUPAP IAEA

Young Professional Award Winners

ID 289

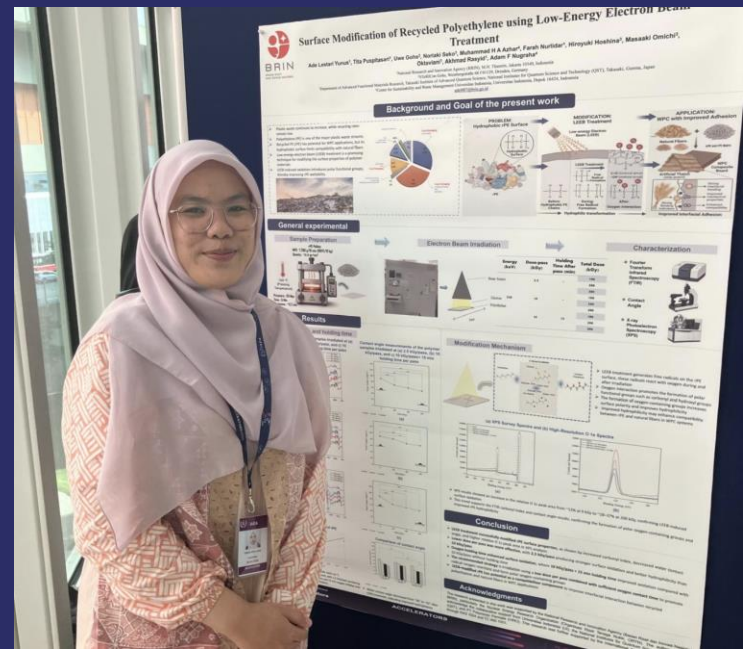


Surface Modification of Recycled Polyethylene by Low-Energy Electron Beam for Potential Application in Wood–Polymer Composites

Ade Lestari Yunus

National Research and Innovation Agency of Indonesia (BRIN)

Indonesia



2nd IAEA International Conference on

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Vienna, Austria

ACCELERATORS for Research and Innovation

Additional IUPAP Award Winners & Accelerating Talents

Working Group 14 – Accelerator Science – Particle Accelerators for Science and Society

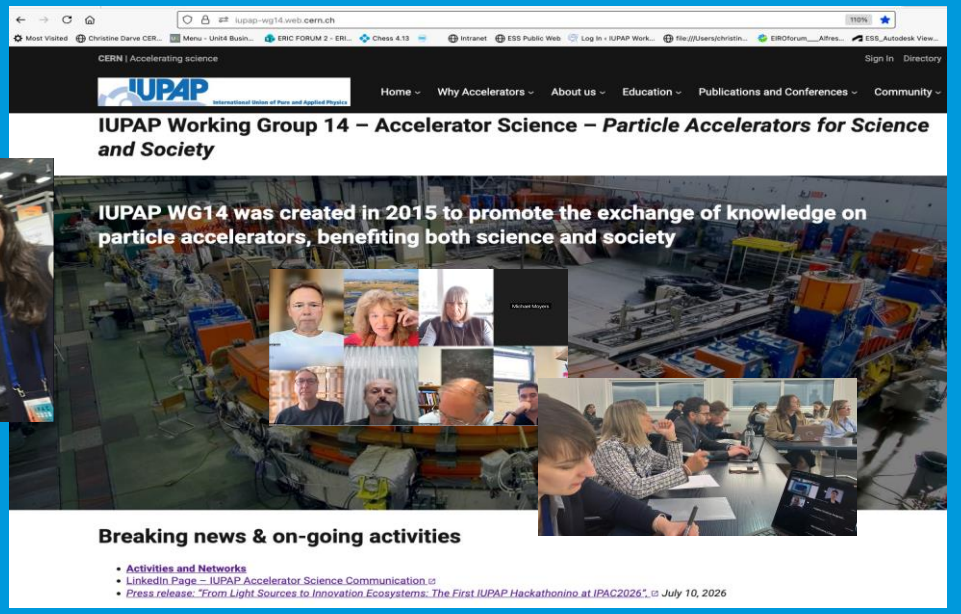
Expert Committee of the International Union of Pure and Applied Physics (IUPAP), under Commission *C11 (Particles & Fields)*, and in close collaboration with *C12 (Nuclear Physics)* and other IUPAP bodies.

The objective of WG14 is to strengthen global collaboration in accelerator science among laboratories, universities, industry and international organisations, while promoting its applications in scientific discovery, innovation, education and societal benefit.

WG14 focuses on the following key areas:

- Global knowledge sharing and partnerships
- Societal impact and sustainable applications
- Talent development and resource sharing





Selected IUPAP WG14 Activities:

- Accelerator Engagement Ambassadors Initiative
- Hackathonino (IUPAP-WG14) at IPAC2026

Hackathonino@IPAC2026

aipf.web.cern.ch

More than 65 participants from 19 countries, and 9 challenges solved in 3 days !





Proof of concept established during IPAC2026 to strengthen synergies among students, research mentors, and companies, ensuring meaningful learning and engagement.





Activities are designed to build:

– **Technical problem-solving skills**

– **Teamwork & collaboration**

– **Communication & presentation skills**

– Insight into **accelerator design** and **professional design tools**

Website: [IUPAP-WG14 Hackathonino]

Article: *"From Light Sources to Innovation Ecosystems: The First IUPAP Hackathonino at IPAC2026", July 10, 2026*

The 3 winning teams!

1st Prize : Challenge E – Develop an educational idea to introduce students to accelerator simulations



by Sverker Werin & Francesca Curbis, MAXIV

Maria Ünal, SOLARIS National Synchrotron Radiation Centre, PL
Helena Alamprese, Michigan State University, US
Hiiro Moriyama, University of Oxford, UK
Laury Batista, Paris Saclay University, CEA, FR
Weibo Hu, University of Science and Technology, CN
Wiktoria Wiatrowska, SOLARIS, PL

2nd Prize : Challenge B – RF window failure detection



by John Moss, Charles Peters, Sung-Woo Lee, SNS

Axel Perez Ruiz, Université Paris-Saclay, CNRS/IN2P3, IJCLab, Orsay, FR
Dinghui Su, Shanghai Institute of Applied Physics, Shanghai, CN
Johan Lundquist, MAX IV/Lund University, Lund, SE
Joel Valerian, University of Melbourne, AU

3rd Prize : Challenge F Decision-Making for a Compact Neutron Source (CANS) Upgrade Strategy



by Mina Akhyani (FZJ)

Jordan Byrne,
Aras Amini,
Oliver Betteridge,
Filip Peczek

University of Manchester

Concluding comments





- **Support emerging talent** through sponsorships, visibility and future opportunities. Poster sessions and Hackathonino
- Use **accelerator science** as a common discipline to strengthen collaboration between IUPAP and IAEA.
- WG14 to propose follow-up activities to support the development of award-winning young professionals.

Thank you for your attention!

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