

Technical Meeting on Novel Applications of Accelerator-based Techniques for Socio-economic Benefits

IAEA Headquarters, Vienna, Austria

11–13 December 2023

(EVT2205716)

MEETING AGENDA

Monday, December 11, 2023 - Morning Sessions -		
Time (CET)	Topic of presentation / discussion	Speaker and affiliation
09:30 – 09:50	<i>Opening – welcome addresses</i>	Ms Melissa Denecke , <i>Director, NAPC, IAEA</i> Mr Danas Ridikas , <i>Section Head, Physics Section, NAPC,</i>
09:50 – 10:00	<i>Objectives and expected outputs of the Technical Meeting</i>	Mr Sotirios Charisopoulos , <i>Physics Section, NAPC, IAEA</i>
10:00 – 10:20	<i>Accelerating Solutions for Society; Synergies of Discovery Science and Applications at the Texas A&M Cyclotron Institute</i>	Ms Sherry J. Yennello <i>Texas A&M University, College Station, TX 77843, USA</i>
10:20 – 10:40	<i>Societal impact of Synchrotron radiation: the case of Elettra-Sincrotrone Trieste</i>	Ms Giuliana Aquilanti <i>Elettra – Sincrotrone Trieste, Trieste, Italy</i>
10:40 – 11:00	<i>TRIUMF Accelerator Applications for the Benefit of Canada and the World</i>	Mr Alexander Gottberg <i>TRIUMF, Vancouver, Canada</i>
11:00 – 11:30	<i>Coffee / Tea break</i>	
11:30 – 11:50	<i>Accelerating Progress: Malaysia's Strategic Approach to Accelerators and Nuclear Science</i>	Ms Siti Najila Mohd Janib , <i>Malaysian Nuclear Agency, Selangor, Malaysia</i>
11:50 – 12:10	<i>Development and Application of Accelerators at CIAE</i>	Mr Yuntao Liu , <i>China Institute of Atomic Energy, Beijing, China</i>
12:10 – 12:30	<i>Status and Beam Utilization of a Proton Linac at KOMAC</i>	Ms Seunghyun Lee , <i>Korea Multipurpose Accelerator Complex, KAERI, Gyeongju 38180, Korea</i>
12:30 – 14:10	<i>Lunch break</i>	

Monday, December 11, 2023

- Afternoon Sessions -

Time (CET)	Topic of presentation / discussion	Speaker and affiliation
14:10 – 14:30	<i>Science Opportunities at SESAME</i>	Mr Andrea Lausi <i>SESAME, Allan, Jordan</i>
14:30 – 14:50	<i>4th Generation High Energy Synchrotron X-rays: A Pivotal Large-Scale Tool with Socio-Economic Benefits</i>	Ms Marta Miroló <i>The European Synchrotron (ESRF), Grenoble, France</i>
14:50 – 15:10	<i>ESS: from protons to neutrons, the accelerator science improving daily-life.</i>	Mr Marcelo Juni Ferreira, <i>European Spallation Source ERIC, Lund, Sweden</i>
15:10 – 15:30	<i>Research at the Portuguese Ion Beam Laboratory</i>	Ms Katharina Lorenz <i>Instituto Superior Técnico, Univ. of Lisbon, Bobadela, Portugal.</i>
15:30 – 16:00	<i>Coffee / Tea break</i>	
16:00 – 16:20	<i>Recent and novel applications of the TANDEM accelerator at the Bariloche Atomic Centre.</i>	Mr. Raul O. Barrachina <i>National Atomic Energy Commission, Argentina.</i>
16:20 – 16:40	<i>Elemental analysis of edible plants with accelerated ion beams</i>	Mr Primož. Vavpetič, <i>Jožef Stefan Institute, Ljubljana, Slovenia.</i>
16:40 – 17:00	<i>The ATOMKI Accelerator Centre serving science, technology, and innovation.</i>	Mr Zsolt Fülöp <i>ATOMKI, Debrecen, Hungary</i>

Tuesday, December 12, 2023

- Morning Sessions -

Time (CET)	Topic of presentation / discussion	Speaker and affiliation
09:30 – 09:50	<i>The Italian Centre for Oncological Hadrontherapy (CNAO): societal impact and sustainability</i>	Mr Sandro Rossi <i>Fondazione CNAO, Pavia, Italy</i>
09:50 – 10:00	<i>Medical applications with heavy/radioactive ion beams at accelerator institutes</i>	Ms Charlot Vandevoorde <i>GSI Helmholtz Center for Heavy Ion Research, Darmstadt, Germany</i>
10:00 – 10:20	<i>BNCT activities in Japan and worldwide and their link to socio-economic impact</i>	Ms Kazuyo Igawa <i>Neutron Therapy Research Center, Okayama University, Japan</i>
10:20 – 10:40	<i>The Radiological Research Accelerator Facility at Columbia University</i>	Mr Guy Garty <i>RARAF, Nevis Laboratory, Columbia University, Irvington, NY 10533, USA</i>
10:40 – 11:00	<i>Enhancing Medical Diagnostics in Endoprosthesis Failure Cases with Particle Induced X-ray Emission (PIXE)</i>	Ms Esther Punzón-Quijorna <i>Jožef Stefan Institute, Ljubljana, Slovenia.</i>
11:00 – 11:30	<i>Coffee / Tea break</i>	
11:30 – 11:50	<i>Applications and Commercial Activities at JYFL-ACCLAB</i>	Mr Paul Greenlees <i>Accelerator Laboratory, Dept. of Physics, University of Jyväskylä, Finland</i>
11:50 – 12:10	<i>Case Study Methods for Estimating the Socio-Economic Benefits of Accelerator-Based Techniques</i>	Ms Amanda Walsh <i>RTI, International, RTP, NC 27709 USA</i>
12:10 – 12:30	<i>Access to Accelerator Mass Spectrometry @ VERACore for Applications for Socio-economic Benefits: From Be-10 to Actinides</i>	Ms Silke Merchel <i>University of Vienna, Faculty of Physics, Isotope Physics, Vienna, Austria</i>
12:30 – 14:10	<i>Lunch break</i>	

Tuesday, December 12, 2023

- Afternoon Sessions -

Time (CET)	Topic of presentation / discussion	Speaker and affiliation
14:10 – 14:30	<i>Development of novel fields of electron beam accelerators applications – INCT perspective</i>	Ms Urszula Gryczka <i>Inst. of Nuclear Chemistry and Technology, Warsaw, Poland</i>
14:30 – 14:50	<i>Establishing a mobile unit with an electron beam accelerator to treat industrial effluents for reuse purposes in Brazil.</i>	Mr Wilson Aparecido Parejo Calvo <i>Brazilian National Nuclear Energy Commission, Rio de Janeiro, Brazil</i>
14:50 – 15:10	<i>Development of electron linear accelerators for societal applications</i>	Ms Shreya G Sarkar, <i>Bhabha Atomic Research Centre, Mumbai, India</i>
15:10 – 15:30	<i>E-beam Developed Polymeric matrices for Biomedical Applications: An Integrated platform Toward Socio-Economic Growth and Value Creation</i>	Ms Amany Ismael Mahmoud Raafat <i>National Center for Radiation Research and Technology, Egyptian Atomic Energy Authority, Cairo, Egypt</i>
15:30 – 16:00	<i>Coffee / Tea break</i>	
16:00 – 16:20	<i>30 years of ion beam analysis at LAMFI-USP: past experiences and insights for the future</i>	Mr Manfredo Harri Tabacniks <i>Inst. of Physics, Univ. of São Paulo, Brazil</i>
16:20 – 16:40	<i>An irradiation platform to promote and disseminate the benefits of using electron accelerators.</i>	Mr Florent Kuntz <i>Aerial - Innovation Park - 250 Rue Laurent Fries, 67400 Illkirch, France</i>
16:40 – 17:00	<i>Research facilities and highlights at the Centro Nacional de Aceleradores (CNA)</i>	Mr Javier Ferrer <i>CNA Centro Nacional de Aceleradores. Sevilla, Spain</i>

Wednesday, December 13, 2023

- Morning Sessions -

Time (CET)	Topic of presentation / discussion	Speaker and affiliation
09:30 – 09:50	<i>IAEA activities in support of sustainable development of accelerator facilities and the IAEA Ion-Beam Facility Project</i>	Mr Sotirios Charisopoulos, <i>Physics Section, NAPC, IAEA</i>
09:50 – 10:10	<i>IAEA activities in support of accelerator-based applications of industrial interest.</i>	Speaker to be confirmed. <i>RCRT Section, NAPC, IAEA</i>
10:10 – 11:00	<i>Round table discussion</i>	All participants
11:00 – 11:30	<i>Coffee / Tea break</i>	
11:30 – 12:30	<i>Preparation of the draft meeting report</i>	All participants
12:30 – 14:00	<i>Lunch break</i>	
14:00 – 15:00	<i>Finalizing the meeting report and recommendations to the IAEA</i>	All participants
15:00	<i>End of the Technical Meeting</i>	