International Conference on Accelerators for Research and Sustainable Development

From Good Practices Towards Socioeconomic Impact

23-27 May 2022

PROGRAMME

Organized by the
International Atomic Energy Agency (IAEA)

IAEA Headquarters Vienna, Austria

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Location of the Event:

International Atomic Energy Agency
Vienna International Centre (VIC)
Building M, Board Rooms A, B/M1

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A-1400 Vienna, Austria
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Working Language: English

Resolutions: No resolutions may be submitted for consideration on any subject; no votes will be taken.

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The functions and features of the App for smartphones and tablets will be used for various purposes during the event:

- View an up-to-date programme
- Check floor map of the sessions and exhibitors
- Read abstracts and full-papers of speakers
- Participate in voting during sessions
- Raise questions to speakers during session
- Send message to other participants
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If you have questions or require assistance on the App, please contact the Registration Desk.

TIMETABLE

Monday, 23 May 2022

Time	Session No.	Session Title / Break	Venue
10:00–10:30		Opening Session	M Plenary
10:30–11:15	PL1	Plenary Session 1: Accelerators for the Environment	M Plenary
11:15–12:45	PL2	Plenary Session 2: Accelerators for Medical Radioisotopes, Energy Production and Nuclear Research	M Plenary
12:45–14:00		*Lunch Break*	
14:00–15:30	PS3.A	Parallel Session 3.A: Advances in Accelerator Technologies	Board Room A
14:00–15:30	PS3.B	Parallel Session 3.B: Accelerators for Medical Applications - 1	M Plenary
15:30–16:00		*Coffee/Tea Break*	
16:00–17:30	PS4.A	Parallel Session 4.A: Accelerators for Environmental Monitoring	Board Room A
16:00–17:30	PS4.B	Parallel Session 4.B: Accelerators for Medical Applications - 2	M Plenary
18:00–20:00		*Welcome Reception*	M-Building – Ground Floor

Tuesday, 24 May 2022

Time	Session No.	Session Title / Break	Venue
09:00–10:30	PL5	Plenary Session 5: Accelerators for Neutron Therapy, Cultural Heritage, Innovation and Education	M Plenary
10:30–11:00		*Coffee/Tea Break*	
11:00–12:30	PS6.A	Parallel Session 6.A: Accelerators for BNCT and Cultural Heritage	Board Room A
11:00–12:30	PS6.B	Parallel Session 6.B: Best Practices in Using Accelerators for R&D, Education, Environmental and Industrial Applications	M Plenary
12:30–14:00		*Lunch Break*	
14:00–15:30	SE 1	Side Event 1: Accelerator-Based Sources of Radiation: Recent Developments	Board Room A
14:00–15:30	PS 1	All posters (see separate page)	M Building
15:30–16:00		*Coffee/Tea Break*	
16:00–17:30	PS7.A	Parallel Session 7.A: IBA Facilities and their R&D Program	Board Room A
16:00–17:30	PS7.B	Parallel Session 7.B: Regulatory Aspects of Accelerator Facilities	M Plenary

Wednesday, 25 May 2022

Time	Session No.	Session Title / Break	Venue
09:00–10:30	PL8	Plenary Session 8: Accelerators for Nuclear Data and Materials Research	M Plenary
10:30–11:00		*Coffee/Tea Break*	
11:00–12:30	PS9.A	Parallel Session 9.A: Accelerators for Nuclear Data	Board Room A
11:00–12:30	PS9.B	Parallel Session 9.B: Radiation Technologies and their Applications	M Plenary
12:30–14:00		*Lunch Break*	
14:00–15:30	SE2	Side Event 2: Collaborating Centers of IAEA	Board Room A
14:00–15:30	SE3	Side Event 3: Women in Accelerator-based Science	M Plenary
15:30–16:00		*Coffee/Tea Break*	
16:00–17:30	PS10.A	Parallel Session 10.A: Applications of Heavy Ion Beams	Board Room A
16:00–17:30	PS10.B	Parallel Session 10.B: Societal Applications of Accelerators and Sustainable Development	M Plenary

Thursday, 26 May 2022

Time	Session No.	Session Title / Break	Venue
09:00–10:30	PS11	Plenary Session 11: Emerging Accelerator Technologies – Accelerator Technologies for Food Safety and Security	M Plenary
10:30–11:00		*Coffee/Tea Break*	
11:00–12:30	PS12.A	Parallel Session 12.A: Future Accelerator-based Neutron Sources	Board Room A
11:00–12:30	PS12.B	Parallel Session 12.B: Electron Beams and Applications	M Plenary
12:30–14:00		*Lunch Break*	
14:00–15:30	SE4	Side Event 4: Promoting Self-Reliance and Sustainability of National Nuclear Institutions Operating Accelerator Facilities	M Plenary
14:00–15:30	PS2	All posters (see separate page)	M Building
15:30–16:00		*Coffee/Tea Break*	
16:00–17:30	PS13.A	Parallel Session 13.A: Selected Applications of Accelerator-based Analytical Techniques	Board Room A
16:00–17:30	PS13.B	Parallel Session 13.B: Accelerators and Interdisciplinary Applications	M Plenary

Friday, 27 May 2022

Time	Session No.	Session Title / Break	Venue
09:00–10:30	PL14	Plenary Session 14: Accelerators and Multidisciplinary Research and Applications	M Plenary
10:30–11:00		*Coffee/Tea Break*	
11:00–11:30	PL15	Plenary Session 15: Conference Summary and Highlights	M Plenary
11:30–12:30	PL16	Plenary Session 16: Conference Closing and Award Ceremony	M Plenary

MONDAY, 23 MAY 2022

10:00-10:30 OPENING SESSION M Plenary

Time	Name	Affiliation & Designating Member State / Organization	Title
10:00–10:05	**M. Denecke**	Director NAPC, IAEA	Welcome Address
10:05–10:15	**R. M. Grossi**	Director General, IAEA	Opening Statement
10:15–10:25	**N. Mokhtar** **M. Chudakov** **H. Liu**	DDG-NA, IAEA DDG-NE, IAEA DDG-TC, IAEA	Opening Remarks

10:30-11:15 PLENARY SESSION 1: Accelerators for the Environment M Plenary

Chairpersons: D. Ridikas (IAEA)
C. Horak (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
10:30–11:15	224	**D. Cohen**	ANSTO, Australia	Accelerators for Environmental Monitoring and Climate Change Related Studies
	207	**A. Chmielewski**	INCT, Poland	Electron Accelerator-Based Systems for Air, Water and Soil Pollution Control

11:15-12:45 PLENARY SESSION 2: Accelerators for Medical Radioisotopes, Energy Production and Nuclear Research M Plenary

Chairpersons: D. Ridikas (IAEA)
C. Horak (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
11:15–11:45	209	**C. S. Cutler**	BNL, USA	50 Years of Isotope Production via High Energy Accelerators at Brookhaven National Laboratory
11:45–12:15	223	**H. Ait Abderrahim**	SCK CEN, Belgium	Realization of a new Research Infrastructure in Belgium: MYRRHA - Present Status and Focus on Latest Developments of MYRRHA ADS Accelerator
12:15-12:45	208	**B. Sharkov**	JINR, Russian Federation	Large Scale Accelerator Facilities for Nuclear Research and Practical Applications
12:45–14:00		*Lunch Break*		

14:00–15:30 **PARALLEL SESSION 3.A: Advances in Accelerator Technologies** **Board Room A**

Chairpersons: **N. Alamanos (CEA, France)**
S. Charisopoulos (IAEA)

Time	Paper No.	Name	Affiliation & Designating Member State/ Organization	Title of Paper
14:00–14:15	204	**J. G. Weisend II**	ESS, Sweden	The European Spallation Source Accelerator: Overview and Status
14:15–14:30	49	**B. Hornberger**	Lyncean Technologies, USA	Recent Developments in Compact X-ray and Gamma-ray Sources Based on Inverse Compton Scattering
14:30–14:45	101	**S. Lauber**	GSI, Germany	Alternating Phase Focusing Beam Dynamics for Drift Tube Linacs
14:45–15:00	190	**M. Fedurin**	BNL, USA	Novel Accelerator Concept Utilizing Cyclotron Resonance (eCRA)
15:00–15:15	177	**I. Strydom**	iThemba LABS, South Africa	An Overview of the South African Isotope Facility (SAIF)
15:15–15:30	**Questions and Answers**			
15:30–16:00	*Coffee & Tea break*			

14:00–15:30 **PARALLEL SESSION 3.B: Accelerators for Medical Applications - 1** **M Plenary**

Chairpersons: **C. S. Cutler (BNL, USA)**
V. Starovoitova (IAEA)

14:00–14:15	44	**N. van der Meulen**	PSI, Switzerland	The Use of PSI's High Intensity Proton Accelerator (HIPA) Complex Towards Medical-Radionuclide Development
14:15–14:30	183	**A. Gerbershagen**	University of Groningen, Netherlands	The New Particle Therapy Research Center (PARTREC) at the University Medical Center Groningen
14:30–14:45	73	**G. Pupillo**	INFN-LNL, Italy	Research Activities on the Cyclotron-based Production of Innovative Radionuclides: Experience at the Legnaro National Laboratories of INFN
14:45–15:00	124	**P. Fernandes Costa Jobim**	Federal Univ. Rio Grande do Sul, Brazil	Ion Beam Techniques and Neuroscience: What is Next?
15:00–15:15	136	**C. N. Coleman**	Intern. Cancer Expert Corps, USA	Treatment, not Terror: A Unique Cancer Treatment Paradigm for Developing Novel Linear Accelerators for Resource-limited Settings
15:15–15:30	**Questions and Answers**			
15:30–16:00	*Coffee & Tea break*			

16:00–17:30 **PARALLEL SESSION 4.A: Accelerators for environmental monitoring** **Board Room A**

Chairpersons: **S. Merchel (VERA, Austria)**
R. P. Alvarez (IAEA)

Time	Paper No.	Name	Affiliation & Designating Member State/ Organization	Title of Paper
16:00–16:15	186	**W. E. Kieser**	University of Ottawa, Canada	Accelerator Mass Spectrometry: An Analytical Tool with Applications for Sustainable Society
16:15–16:30	70	**M. Santoso**	BATAN, Indonesia	Characteristics of Fine Particulates of Two Largest Cities in Indonesia Using Ion Beam Analysis
16:30–16:45	147	**L. Popa-Simil**	LAAS, USA	Ion beam Usage in Environmental Characterization
16:45–17:00	45	**M. Roumie**	LAEC/CNRS, Lebanon	Elemental Characterization of PM2.5 Aerosol Samples in Four Mideastern Cities and Source Apportionment Investigation
17:00–17:15	86	**S. Pollastri**	Elettra, Italy	A Combined XRF and XANES Study on Bottom Ashes from Municipal Solid Waste Incinerator
17:15–17:30	**Questions and Answers**			

16:00–17:30 **PARALLEL SESSION 4.B: Accelerators for Medical Applications - 2** **M Plenary**

Chairpersons: **C. Hoehr (TRIUMF, Canada)**
A. Korde (IAEA)

16:00–16:15	125	**E. Punzón-Quijorna**	JSI, Slovenia	Particle Induced X-ray Emission (PIXE) Reveals Crucial Information in Hip Endoprostheses Failures. MeV Ion Beams for Improving Medical Diagnostics
16:15–16:30	158	**T. Pinheiro**	IST/Univ. de Lisboa, Portugal	Metallacarboranes for Proton Therapy Using Research Accelerators
16:30–16:45	95	**R. Khatun**	BAEC, Bangladesh	Dosimetric Verification of Radiotherapy Treatment Planning System Using Thorax Phantom
16:45–17:00	52	**D. Kottuparamban**	Molecular Cyclotrons, India	Socioeconomic Impact of a Medical Cyclotron in Kerala, India
17:00–17:15	29	**S. M. d. Carvalho**	NCNE, Brazil	Current Status and Perspectives of Cyclotron Facilities in Brazil and the Socioeconomic Impact.
17:15–17:30		**Questions and Answers**		

18:00–20:00 **WELCOME RECEPTION** **M-Building – Ground Floor**

TUESDAY, 24 MAY 2022

09:00-10:30 **PLENARY SESSION 5: Accelerators for Neutron Therapy, Cultural Heritage, Innovation and Education** **M Plenary**

Chairpersons: **G. Aquilanti (Elettra, Italy)**
I. Swainson (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
09:00–09:30	210	**H. Kumada**	University of Tsukuba, Japan	Current Status of Compact Accelerator-based Neutron Sources for Boron Neutron Capture Therapy in the World
09:30–10:00	212	**L. Beck**	CEA, France	Use of Accelerators to Preserve Cultural Heritage Objects and Detect Forgeries
10:00–10:30	205	**A. Strasser**	Aerial-CRT, France	Best Practices in Establishing and Running Accelerator Facilities to Support Research, Education, and Commercial Uses
10:30–11:00	*Coffee/Tea Break*			

11:00–12:30 **PARALLEL SESSION 6.A: Accelerators for Boron Neutron-Capture Therapy (BNCT) and Cultural Heritage** **Board Room A**

Chairpersons: **G. Aquilanti (Elettra, Italy)**
I. Swainson (IAEA)

11:00–11:15	131	**A. Kreiner**	CNEA, Argentina	Review of the Different Accelerator-based BNCT Facilities Worldwide and an Assessment According to the Alara Criterion
11:15–11:30	140	**S. Taskaev**	Budker Institute of Nuclear Physics, Russian Federation	Accelerator-based Neutron Source for Boron Neutron Capture Therapy and other Applications
11:30–11:45	94	**I. Carlomagno**	Elettra, Italy	X-ray Investigations on Ancient Gold Coins: Synchrotron Radiation Contribution to History and Numismatics
11:45–12:00	10	**D. M. Atwa Khalil**	NILES, Egypt	Synchrotron Radiation Based Investigations of Colored Layers, Binding Materials and Resins of the God Ptah-Sokar-Osiris Wooden Statuette and its Mummified Falcon which are Dating Back to 26th Pharaonic Dynasty
12:00–12:15	121	**V. Corregidor**	Univ. de Lisboa, Portugal	Characterization of Cultural Heritage Using a Micro-beam
12:15–12:30	**Questions and Answers**			
12:30–14:00	*Lunch Break*			

11:00–12:30 **PARALLEL SESSION 6.B: Best Practices in using Accelerators for R&D, Education, Environmental & Industrial Applications** **M Plenary**

Chairpersons: **D. Cohen (ANSTO, Australia)**
N. Skukan (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
11:00–11:15	24	**O. Riabukhin**	Ural Federal University, Russian Federation	The Practice of Electron and Proton Accelerators Utilizing for Industry, Education and Science
11:15–11:30	181	**S. H. Park**	Korea Univ. Sejong, Rep. of Korea	Use of Accelerators for Research and Training in the University Environment
11:30–11:45	60	**P. Foka**	GSI, Greece	Heavy Ion Therapy MasterClass School and Capacity Building for Future Ion Research and Therapy Facilities
11:45–12:00	230	**M. Pivi**	MedAustron, Austria	The MedAustron Particle Therapy Accelerator
12:00–12:15	116	**F. Zanini**	Elettra, Italy	Life Cycle Assessment
12:15–12:30	**Questions and Answers**			
12:30–14:00	*Lunch Break*			

14:00–15:30 **SIDE EVENT 1: Accelerator-Based Sources of Radiation: Recent Developments** **M Plenary**

Chairpersons: **S. Pillai (Texas A&M University, USA)**
V. Starovoitova (IAEA)

14:00–14:10	**S. Norris**	DOE/NNSA, USA	Opening Remarks
14:10–14:30	**J. Schwindling**	CEA, France	Compact Accelerator-based Neutron Sources
14:30–14:50	**A.-L. Lamure**	RadiaBeam Technologies, USA	High Power Electron Beams
14:50–15:10	**A. Pierard**	IBA, Belgium	Electron Accelerators as X-ray Sources
15:10-15:30	**Round table discussion - Questions and Answers**		
15:30-16:00	*Coffee/Tea Break*		

14:00–15:30 **POSTER SESSION 1 (See separate page)** **M Building**

16:00–17:30 **PARALLEL SESSION 7.A: IBA facilities and their R&D programme** **Board Room A**

Chairpersons: **E. Da Costa Alves (Univ. de Lisboa, Portugal)**
N. Skukan (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
16:00–16:15	108	**V. Rigato**	LNL/INFN, Italy	Multidisciplinary Physics with MeV Ion Beams at the Laboratori Nazionali di Legnaro using the CN and AN2000 Accelerators
16:15–16:30	229	**S. Charisopoulos**	IAEA	The IAEA Ion Beam Facility (IBF) project
16:30–16:45	118	**I. Bogdanovic Radovic**	RBI, Croatia	Development and Applications of the Secondary Ion Mass Spectrometry with MeV Ions (MeV SIMS) Technique at the RBI Accelerator
16:45–17:00	151	**A. Karydas**	NCSR "Demokritos", Greece	Applications of Proton-induced X-rays at the Tandem Accelerator Laboratory of NCSR "Demokritos"
17:00–17:15	19	**R. O. Barrachina**	CNEA, Argentina	Six Decades of Research and Development with Accelerators in the Dept. of Interaction of Radiation with Matter of the Bariloche Atomic Center
17:15–17:30	**Questions and Answers**			

16:00–17:30 **PARALLEL SESSION 7.B: Regulatory aspects of accelerator facilities** **M Plenary**

Chairpersons: **R. P. Jimenez (IAEA)**
N. Ramamoorthy (Independent consultant, India)

16:00–16:15	47	**M. Heimann**	CNSC-CCSN, Canada	Agile Regulatory Oversight: Adapting Regulations to Accommodate Rapidly Changing Accelerator Technology
16:15–16:30	98	**F. Schmitz**	Bel V, Belgium	Licensing Unconventional Accelerator Projects: A Quest for the Safest Compromise
16:30–16:45	56	**G. Rabi**	Autoridad Regulatoria Nuclear, Argentina	Regulatory Control at the Construction Stage of a Radiopharmaceuticals Production Facility with Cyclotron in the Context of Covid-19 Pandemic
16:45–17:00	78	**G. Garcia Fernandez**	Universidad Politecnica de Madrid, Spain	Commissioning of Operational Radiation Protection in Compact Proton Therapy Centers (CPTC) with Small Accelerators
17:00–17:30	**Questions and Answers**			

WEDNESDAY, 25 MAY 2022

09:00-10:30 **PLENARY SESSION 8: Accelerators for Nuclear Data and Materials Research** **M Plenary**

Chairpersons: **F. Ott (CEA, France)**
A. Koning (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
09:00–09:30	213	**M. Rubel**	Royal Institute of Technology, Sweden	Accelerator Techniques and Nuclear Data needs for IBA of wall Materials for Fusion reactors
09:30–10:00	218	**Y. Wang**	Los Alamos National Lab, USA	Application of Accelerators in Nanomaterials Research
10:00–10:30	220	**Z. Siketic**	Ruđer Bošković Institute, Croatia	Sustainability of the Tandem Accelerator Facility at the Ruđer Bošković Institute
10:30–11:00		*Coffee/Tea Break*		

11:00–12:30 **PARALLEL SESSION 9.A: Accelerators for Nuclear Data** **Board Room A**

Chairpersons: **M. Rubel (Royal Institute of Technology, Sweden)**
A. Koning (IAEA)

11:00–11:15	232	**J.C. Sublet**	IAEA	Radiation Damages Bohr' s Metrics: Accelerator & Elemental Landscapes
11:15–11:30	154	**N. Patronis**	University of Ioannina, Greece	Status Report of the N_TOF Facility after the 2nd CERN long Shutdown Period
11:30–11:45	157	**R. Vlastou-Zanni**	National Technical University of Athens, Greece	The Neutron Facility at NCSR "Demokritos" and Neutron Activation Research Activities of NTUA
11:45–12:00	109	**B. P. L. Ström**	Uppsala University, Sweden	Ion Accelerators for Modification and Analysis of Materials: Present Status and an Outlook Towards the Future
12:00–12:15	132	**A. Widdowson**	UKAEA, United Kingdom	Determination of Fuel Retention in Tokamaks by Accelerator-based Methods
12:15–12:30		**Questions and Answers**		
12:30–14:00		*Lunch Break*		

11:00–12:30 **PARALLEL SESSION 9.B: Radiation Technologies and their Applications** **M Plenary**

Chairpersons: **A. Chmielewski (INCT, Poland)**

V. Starovoitova (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
11:00–11:15	92	**K. Howie**	Texas A&M University, USA	Electron Beam Technology for Preserving Quality Attributes of Mandarins for Enhancing Export Potential
11:15–11:30	159	**D. Kaoumi**	North Carolina State University, USA	The Use of In-situ Transmission Electron Microscopy to Investigate Microstructure Evolution under Ion Irradiation
11:30–11:45	198	**R. Schwarz**	Pacific Northwest National Laboratory, USA	Penelope-based User-Friendly Fast Interface for Calculating Distribution in Irradiated Products
11:45–12:00	32	**D. Chmielewska-Śmietanko**	Institute of Nuclear Chemistry and Technology, Poland	Application of Electron Beam Accelerator for Preservation Biodeteriorated Cultural Heritage Paper-Based Objects: Multiparametric Analysis
12:00–12:15	163	**S. Ramarad**	Heriot-Watt University Malaysia, Putrajaya	Rubber Recycling: Compatibilization of Waste Tire Rubber/Poly(ethylene-co-vinyl acetate) Blends Using Liquid Rubber and Electron Beam Irradiation
12:15–12:30		**Questions and Answers**		
12:30–14:00		*Lunch Break*		

14:00–15:30 **SIDE EVENT 2: Collaborating Centers of IAEA** **Board Room A**

Chairpersons: **A. Simon (IAEA)**
B. S. Han (IAEA)

Time	Name	Affiliation & Designating Member State / Organization	Title
14:00–14:15	**S. Hollins**	ANSTO, Australia	New and Advanced Techniques and Applications of Nuclear Science and Technology towards a Sustainable Environment
14:15–14:30	**M. Kiskinova**	Elettra, Italy	IAEA-Elettra Collaborating Center
14:30–14:45	**L. Bertrand**	ENS Paris-Saclay, France	Implementation of the IAEA Collaborating Center Atoms for Heritage at Université Paris-Saclay
14:45–15:00	**R. Nchodu**	iThemba LABS, South Africa	iThemba LABS: The IAEA Collab-orating Centre for Accelerator Based Scientific Research & Applications
15:00–15:15	**S. Pillai**	Texas A&M University, USA	The National Center for Electron Beam Research at Texas A&M University - Two Decades of Advancing Electron Beam and X-ray Technologies Around the World
15:15-15:30	**Round table discussion - Questions and Answers**		
15:30-16:00	*Coffee/Tea Break*		

14:00–15:30 **SIDE EVENT 3: Women in Accelerator-based Science** **M Plenary**

Chairpersons: **C. Hoehr (TRIUMF, Canada)**
A. Peeva (IAEA)

Time	Name	Affiliation & Designating Member State / Organization	Title
14:00–14:10	**C. Hoehr**	TRIUMF, Canada	Opening Remarks
14:10–14:20	**J. Donner**	SGIM, IAEA	Overview of IAEA's effort in promoting gender parity
14:20–15:20	**Panel discussion**		**Moderator: A. Peeva (IAEA)** **Participants:** D. Cohen, ANSTO N. Alamanos, CEA S. Carvalho, NCNE, Brazil C. Gutierrez, Elettra (recipient of the Marie Curie Fellowship Programme)
15:20–15:30	**Round table discussion - Questions and Answers**		
15:30-16:00	*Coffee/Tea Break*		

16:00–17:30 **PARALLEL SESSION 10.A: Applications of heavy ion beams** **Board Room A**

Chairpersons: **B. Sharkov (JINR, Russian Federation)**
R. Padilla Alvarez (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
16:00–16:15	179	**P. Kluth**	Australian National University, Australia	Swift Heavy Ion Modified Materials: Applications and Characterisation Using Synchrotron Small Angle X-ray Scattering
16:15–16:30	69	**M. Wagner**	GSI, Germany	Three Dimensional Nanochannel Networks Fabricated with Ion Track-Etch Technology and Their Applications
16:30–16:45	233	**N. Pessoa Barradas**	IAEA	Specific Considerations and Guidance for the Establishment of Ionizing Radiation Facilities
16:45–17:00	195	**M. Lang**	University of Tennessee, USA	Investigating Radiation Effects in Materials Using State-of-the-Art Particle Accelerators
17:00–17:15	165	**C. Vyas**	Michigan State University, India	Isotope Harvesting Project: from White Paper to Implementation
17:15–17:30	**Questions and Answers**			

16:00–17:30 **PARALLEL SESSION 10.B: Societal Applications of Accelerators and Sustainable Development** **M Plenary**

Chairpersons: **F. Zanini (Elettra, Italy)**
K. Kanaki (IAEA)

16:00–16:15	189	**S. Norris**	DOE/NNSA, USA	How Support for Machine-Based Sources of Radiation Contributes to Sustainable Development
16:15–16:30	58	**B. Nsouli**	LAEC, Lebanon	On the Use of Ion and Cluster Beams Analysis at LAEC for Forensic Sciences: Infrastructure and Applications
16:30–16:45	106	**A. Magazinik**	CERN, Switzerland	Societal Impact of the Compact Linear Collider Study
16:45–17:00	74	**T. Edgecock**	University of Huddersfield, United Kingdom	IFAST Accelerators for Societal Applications
17:00–17:15	54	**B. List**	CERN	Sustainability Studies for Linear Colliders
17:15–17:30	**Questions and Answers**			

THURSDAY, 26 MAY 2022

09:00-10:30 **PLENARY SESSION 11: Emerging Accelerator Technologies – Accelerator Technologies for Food Safety and Security** **M Plenary**

Chairpersons: **T. Gutberlet (FZ Julich, Germany)**
S. Charisopoulos (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
09:00–09:30	219	**Y. Otake**	RIKEN, Japan	RIKEN Accelerator-driven Compact Neutron Systems and RANS Project
09:30–10:00	214	**M. Roth**	TU Darmstadt Institute for Nuclear Physics, Germany	Laser-driven Ion Accelerators: Unique Beams and Compact Neutron Sources
10:00–10:30	217	**S. Pillai**	Texas A&M University, USA	Accelerator Technologies for Food Safety and Food quality: Response of Microbial Populations to Ionizing Technologies
10:30–11:00	*Coffee/Tea Break*			

11:00–12:30 **PARALLEL SESSION 12.A: Future Accelerator-based neutron sources** **Board Room A**

Chairpersons: **A. Kreiner (CNEA, Argentina)**
H. Ben Abdelouahed (IAEA)

11:00–11:15	129	**N. Mayordomo**	Helmholtz Zentrum Dresden-Rossendorf, Germany	CANS Production of Technetium-99M and Technetium-101
11:15–11:30	27	**R. Frost**	Lund University, Sweden	A Compact Accelerator Driven Neutron Source at the Nuclear-Applications Laboratory, Lund University
11:30–11:45	221	**F. Ott**	CEA, France	The SONATE Project, a New Neutron Scattering Platform for Materials Science Research
11:45–12:00	77	**A. Maffini**	Politecnico di Milano, Italy	Towards Compact Laser-Driven Accelerators: Exploring the Potential of Advanced Double-Layer Targets
12:00–12:15	227	**I. Swainson**	IAEA	IAEA activities in support of Compact Accelerator based Neutron Sources
12:15–12:30	**Questions and Answers**			
12:30–14:00	*Lunch Break*			

11:00–12:30 **PARALLEL SESSION 12.B: Electron beams and Applications** **M Plenary**

Chairpersons: **S. Pillai (Texas A&M University, USA)**
B. S. Han (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
11:00–11:15	139	**A. Bryazgin**	Budker Institute, Russian Federation	ILU RF Electron Accelerators for E-beam and X-ray Applications
11:15–11:30	174	**W. A. Parejo Calvo**	IPEN / CNEN / SP, Brazil	Electron Beam Processing to Improve Biodegradable Polymers and for Industrial Wastewater Treatment and Recycling
11:30–11:45	15	**S. Jebri**	National Center of Nuclear Sciences and Technologies, Tunisia	Effect of E-beam Irradiation on the Microbial Quality of Minimally Processed Products: a Case of a Commercialized Ready to Eat Salad
11:45–12:00	107	**M. Vorobyov**	Inst. of High Current Electronics SB RAS, Russian Federation	Low-Energy Electron Accelerators and Sources with Plasma Emitters for Scientific and Technological Purposes
12:00–12:15	8	**P. A. Vasquez Salvador**	IPEN / CNEN / SP, Brazil	Preservation of Photographic and Cinematographic Films by Electron-Beam Irradiation
12:15–12:30	**Questions and Answers**			
12:30–14:00	*Lunch Break*			

14:00–15:30 **SIDE EVENT 4: Promoting Self-Reliance and Sustainability of National Nuclear Institutions** **Board Room A**

Chairpersons: **N. Ramamoorthy (Independent Consultant, India)**
N. Pessoa Barradas (IAEA)

14:00–14:10	**N. Pessoa Barradas**	IAEA	Opening Remarks
14:10–14:25	**F. A. Deluchi**	CNEA, Argentina	Research and Industrial Applications Electron Beam Accelerator Project
14:25–14:40	**C. Arcilla**	Philippine Nuclear Research Institute, Philippines	The new Nuclear Medicine Research and Innovation Center
14:40–14:55	**S. A. Hashim**	WiN, Malaysia	Promoting Application of Electron Accelerator and Radiation Processing in Malaysia.
14:55–15:10	**S. Rugmai**	Synchrotron Light Research Institute, Thailand	The synchrotron projects of Thailand
15:10-15:30	**Round table discussion - Questions and Answers**		
15:30–16:00	*Coffee/Tea Break*		

14:00–15:30 **POSTER SESSION 2 (See separate page)** **M Building**

16:00–17:30 **PARALLEL SESSION 13.A: Selected Applications of Accelerator-Based Analytical Techniques** **Board Room A**

Chairpersons: **M. Jaksic (RBI, Croatia)**
A. Migliori (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
16:00–16:15	191	**M. Chiari**	INFN, Italy	PIGE Analysis of Fluorine in Materials for the Circular Economy
16:15–16:30	115	**C. E. Iochims dos Santos**	Federal Univ. of Rio Grande, Brazil	Study of Silver Nanoparticles Uptake by Helianthus annuus Crop in Salinity Conditions
16:30–16:45	111	**P. Pongrac**	JSI, Slovenia	Using Micro-PIXE to Evaluate Nutritional Value of Edible Parts of Plants
16:45–17:00	104	**S. Möller**	FZ Jülich, Germany	Lithium Depth Profiling in Battery Anodes by Nuclear Reaction Analysis
17:00–17:15	119	**G. Provatas**	RBI, Croatia	Study of charge Transport in Semiconductors by Ion Beam Induced Charge (IBIC) Microscopy
17:15–17:30	**Questions and Answers**			

16:00–17:30 **PARALLEL SESSION 13.B: Accelerators and Interdisciplinary Applications** **M Plenary**

Chairpersons: **L. Beck (CEA, France)**
N. Pessoa Barradas (IAEA)

16:00–16:15	231	**K. Hain**	VERA, Austria	Ultra-trace analysis of anthropogenic long-lived radionuclides in the environment with AMS
16:15–16:30	110	**J. M. Lopez-Gutierrez**	Univ. de Sevilla, Spain	Characterization of Nuclear Waste by Accelerator Mass Spectrometry
16:30–16:45	215	**N. Skukan**	IAEA	IAEA Activities in Support of Sustainable Operation of Electrostatic Accelerator Facilities
16:45–17:00	40	**N. Arbor**	Univ. of Strasbourg France	A Monte Carlo and Experimental Tool for Activation Calculations in High Energy X-rays Irradiation Process
17:00–17:15	20	**S. Masic**	Vinca Institute of Nuclear Sciences, Serbia	Surface Treatment of Special High-Protein Products Using Low Energy Beams from Machine Sources
17:15–17:30	**Questions and Answers**			

FRIDAY, 27 MAY 2022

09:00-10:30 **PLENARY SESSION 14: Accelerators and emerging applications** **M Plenary**

Chairpersons: **T. Oshima (NIQRST, Japan)**
A. Simon (IAEA)

Time	Paper No	Name	Affiliation & Designating Member State / Organization	Title
09:00–09:30	216	**O. Girshevitz**	BINA, Israel	Implementation of Ion Beam Analysis for Forensic applications: The way to Global Forensic Database through the unification of different analytical techniques
09:30–10:00	206	**A. A. Bettiol**	Nat. Univ. Singapore, Singapore	Accelerators and Ion Beams for Quantum Technologies
10:00–10:30	222	**T. Stora**	CERN, Switzerland	Radioactive Ion Beams: from Large Scale Facilities to Nuclear Medicine Applications
10:30–11:00	*Coffee/Tea Break*			

11:00-12:00 **PLENARY SESSION 15: Conference Summary and Highlights** **M Plenary**

Chairpersons: **D. Ridikas (IAEA)**
C. Horak (IAEA)

Time	Name	Affiliation & Designating Member State / Organization	Title
11:00–12:00	**C. Hoehr**	Univ.Victoria & TRIUMF, Canada	Conference Summary and Highlights
	N. Alamanos	CEA, France	

11:00-12:00 **PLENARY SESSION 16: Conference Closing and Award Ceremony** **M Plenary**

Time	Name	Affiliation & Affiliation & Designating Member State/Organization	
12:00–12:30	**Celina Horak, Valeriia Starovoitova Sotirios Charisopoulos**	Scientific Secretaries, IAEA	Award Ceremony
12:30	**Danas Ridikas**	Scientific Secretary, IAEA	Closing Remarks

12:30-17:00 **Technical tour to VERA and MEDAUSTRON accelerator facilities**

TUESDAY, 24 MAY 2022 and THURSDAY, 26 MAY 2022

Poster Session

Time: 14:00–15:30 **Venue: M Building**

Paper no	Authors	Designating Member State/ Organization	Title
75	P. Thongjerm	Thailand	The Development of an External Beam Irradiation System for Material Analysis at the Cyclotron Facility in Thailand
53	**D. Kottuparamban**, A. Muhammed	India	An Optimized Periodic Maintenance Planner for a Commercial Medical Cyclotron Facility
16	**S. Petrović,** N. Starčević, M. Ćosić	Serbia	The Rainbow Ion-Solid Interaction Potential
71	N. Bergans	Belgium	How Induced Activated Accelerator Parts Have an Impact on the Radiation Safety of a Proton Therapy Facility
26	S. Rimjaem	Thailand	Establishment of the First Accelerator-based Infrared Free-electron Laser Facility in Southeast Asia
175	**J. Mira**, H. Barnard, L. R. Strydom, H. Anderson, J. Abrahams, J. Broodryk	South Africa	Design of the Sweeper Magnets for the High-Power Bombardment Station for Radioisotope Production at iThemba LABS
41	E. Corrales-Corrales	Costa Rica	Ventilation Air System Issue at the University of Costa Rica's Cyclotron Facility
61	H. A. Abdelrehim	Egypt	The Potential Use of Electron Beam Irradiation to Preserve Micro-biologically Infected Egyptian Papyrus
22	A. Akhavan Agh Ghaleh	Iran	Electron Beam Crosslinking of PE/NG Nanocomposite for Solar Collector Applications
146	L. Popa-Simil	United States	Accelerators Use to Engineer Nano-Materials for Energy
89	**L. Dittrich**, P. Petersson, S. Moon, M. Rubel, A. Widdowson	Sweden	Accelerator-based Quantification and Depth Profiling of Hydrogen Isotopes and Impurity Atoms in Wall Materials from Controlled Fusion Devices

Paper no	Authors	Designating Member State/ Organization	Title
170	H. Sa'adeh	Jordan	Towards Detection and Identification of Lead in Aerosol Samples Collected in an Urban Area in Amman, Jordan
153	D. Oliveira de Souza	Italy	Organic Carbon Cycling and Stabilization in Paddy Soils Probed by Fe K-edge X-ray Absorption Spectroscopy
200	**T. Torims**, A. G. Chmielewski, Y. Sun, A. Pawelec, G. Mattausch, M. Vretenar, Z. Zimek, G. Pikurs	Latvia	The Proof-of-concept Results: Development of Hybrid Electron Accelerator System for the Treatment of Marine Diesel Exhaust Gases
21	**S. Mejri**, I. Hemissi, C. Brinsi, A. Asmi, M. Saidi, Y. Mabrouk	Tunisia	Radiosensitivity of Two Lens Culinaris Medikus Subsp. Culinaris Varieties to Electron Beam Irradiation
100	J. J. Mboukam	Cameroon	Effect of Swift Heavy Ion Irradiation on the Optical Properties of Ion Implanted Polyethylene Terephthalate
152	**T. S. Lee**, K. H. Loo, S. T. Bee, C. T. Ratnam	Malaysia	Photodegradation Effect of the Electron Beam Irradiated Devulcanized Natural Rubber/polypropylene Compound under Natural Weathering Condition
91	R. Martinez Rodriguez	Brazil	Glycine Bombardment by Alpha Particle – destruction Cross Section Dependence with KeV Energy and Temperature
90	P. R. Oliveira	Brazil	Cluster Ion Emission from C 2 H 2 and C 2 H 6 Ices induced by 252 CF Fission Fragments
12	S. Ghosh	India	Low and High Energy Ion Irradiation on Structural and other Properties of Cubic Zirconia and Ceria: from the Perspective of Nuclear Energy Material
120	T. Dunatov	Croatia	Development and Applications of the Dual-beam Ion Irradiation Facility for Fusion Materials (DiFU) at RBI, Zagreb
36	M. A. Khan	Pakistan	Low Energy S–band Electron Linear Accelerator(s) Development for Research and Applications Having Socio–economic Impact

Paper no	Authors	Designating Member State/ Organization	Title
46	L. F. Salas Tapia	Colombia	Preliminary Design for a Cyclotron Extraction Beam Line and External Target for Producing Gallium-68 & Technetium-99m Isotopes: a Developing Countries Scenario
87	**A. Gopalakrishna**, A. Kumar, P. Maletha, K. Kamaldeep, S.V. Suryanarayana, H. Naik, B.K. Nayak, S.P. Kulkarni, P. Mukherjee	India	Developmental Work on Economic Production of High and Low Specific Activity 64Cu – Suitable for Preclinical Studies Using Accelerator Neutrons
202	**S. Utermann**, A. Jungstand, A. Thielmann, M. Gastrow	Germany	Comparative Analysis of Socio-economic Impact in Two Particle Accelerator Case Studies
68	E. Stancu	Romania	Radiation ISODOSE Measurements Inside Interaction Chamber During the Commissioning Experiments of the CETAL Facility. Gas Target Case
17	**A. Mejri**, H. Trabelsi, J. Chatti, Z. Trabelsi, M. Kraiem	Tunisia	Developing Radiation Treatment Methodologies for Decontamination for First Use of Personal Protective Equipment (PPE) using Tunisian Electron Beam Accelerator
48	**F. Kuntz**, A. Nasreddine, N. Ludwig, A. Strasser	France	Feerix, a novel Irradiation Platform for R&D, Education and Training
79	**C. da Costa**, E. F. da Silveira	Brazil	Degradation of Amino Acids by MeV Ions
66	**M. Fulop**, J. Ruzicka, P. Ragan, A. Sagatova	Slovakia	Method for detection of illegal cigarette boxes in iron ore cargo
11	**I. Vujcic**, S. Masic	Serbia	Possibility of Using Sludge from Drinking Water Treatment Plant as Fertilizer in Agriculture after E-beam Treatment: Effects of aging

Paper no	Authors	Designating Member State/ Organization	Title
13	A. Coulibaly	Mali	Shielding Considerations of a Bunker to be Taken into Account by the Regulatory Body for Authorization Purposes: Case Study of Radiotherapy Center in MALI
137	I. Ahmad	Pakistan	Effects of Ions Irradiation on TIO2 Nanoparticles: a Review
143	L. Popa-Simil	United States	Review of 20 Years of Industrial Applications of Ion Beam and Radiation Techniques
149	**T. Kulevoy**, A. Sitnikov, G. Kropachev, S. Grigoriev, V. Skalyga	Russia	Compact Linac Based Neutron Generator
39	H. Kumada	Japan	Current Development Status of the Linac-based BNCT Device of the iBNCT Tsukuba Project
83	Md. N. Hossain	Bangladesh	Establishment of the Cyclotron Facilities in Bangladesh – Present Status and Experiences
7	L. Yu	Thailand	Ion Beams and Ion-accelerators for Biology-orientated Applications and Research – CMU Practices
161	V. Michalopoulou	Greece	Neutron Induced Fission Studies at NCSR “Demokritos” by the NTUA
34	**J. Červenák**, O. Lebeda	Czech Republic	Measurement of Excitation Functions of Proton-Induced Nuclear Reactions on Dy-nat
168	M. Diakaki	Greece	Neutron Induced Fission Studies at the CERN n_TOF Facility
178	**A. H. Barnard**, L. R. Strydom, J. Broodryk, G. Steyn, P. Beukes	South Africa	Modelling of the Radiation and Shielding at the South African Isotope Facility Using FLUKA
188	**E. Stamati**, N. Colonna, A. Mengoni, N. Patronis, R. Vlastou	Greece	NEAR at n_TOF/CERN: The First Multi-foil Activation Measurement

Paper no	Authors	Designating Member State/ Organization	Title
28	I. Aljammaz	Saudi Arabia	Socioeconomic Impact of Cyclotrons in King Faisal Specialist Hospitals & Research Centre in Saudi Arabia
192	**R. Hasan**, H. Sa'adeh	Jordan	A Comprehensive Overview of the University of Jordan Van de Graaff Accelerator (JUVAC)
64	**A. Lausi**, M. Attal, A. A. Elkadime	SESAME	SESAME, a Synchrotron Radiation Facility in the Cradle of History
55	**A. Maggiolo**, G. Rabi, M. Espósito	Argentina	Development and Application of Indicators for the Assessment of Radiation Safety Systems in Radiopharmaceuticals Production Facilities with Cyclotron
5	A. Zaouak Ep Ammar	Tunisia	Removal of Hydroxychloroquine and Acid Red 51 Aqueous Solutions by the Electron Beam Process
14	G. Stankunas	Lithuania	Concrete and Stainless Steel Activation/decay Heat Data for the IFMIF-DONES Test Cell Components
63	**A. Sagatova**, M. Fulop, M. Pavlovic, S. Kotorova	Slovakia	Multipurpose Electron Beam Facility in Slovakia for Research and Industrial Applications
201	**M. Etoom**, O. Natsheh	Jordan	Switching Irradiation Facility in Jordan from Co-60 to E-beam X-ray
62	**A. Mamaras**, A. Ioannidou, P. Foka	Greece	Concepts and Methodology of the Particle Therapy Masterclass (PTMC) for Capacity Building – PTMC in Greece as a Case Study
81	G. García	Spain	Impact Pathways for Research Infrastructures: the Case of CMAM-UAM
144	M. Nasef	Malaysia	Progress in Electron Beam Induced Grafting for Development of Ion Conducting Membranes for Polymer Electrolyte Fuel Cells in Malaysia
57	**G. Rabi**, L. Martiri	Argentina	Regulatory Framework Adopted by the Nuclear Regulatory Authority of Argentina for the Licensing of the Argentine Center of Proton Therapy and Progress Achieved
30	U. Gryczka	Poland	Determination of the Effectiveness and Control of Food Irradiation Process with a Low-energy Electron Beam
156	V. Gostilo	Latvia	Mobile Facility for Gamma-activation Analysis of Gold Ores

Paper no	Authors	Designating Member State/ Organization	Title
97	M. Dias	Portugal	Synthesis and Irradiation Effects on CrNbTaVWx High Entropy Alloys
99	**N. Catarino**, E. Alves, R. Mateus, J. Cruz	Portugal	Measurement of 9Be(3He,pi)11B Nuclear Reaction Cross Sections at Energy Range 0.5–2.35 MeV
172	B. Gonsalves	Finland	Performance Comparison of Methods for the Detection of 10be at the Helsinki AMS Facility
167	V. Sharapova	Russia	The Effects of Sterilization Irradiation on Properties of Commercially Available Pet Materials Used in the Production of Vacuum Tubes for Blood Sampling
112	**P. Mukherjee**, S. Chattopadhyay	India	Utilization of 30MeV DAE Medical Cyclotron for Production of Medically Useful Radioisotopes and Corresponding Radiopharmaceuticals
113	R. Mateus	Portugal	Ion Beam Studies of Deuterium Retention in High Entropy Alloys and W Targets in the PF-1000U Facility
122	**V. Corregidor**, L. Alves,T. Pinheiro, R. C. da Silva, M. Furtado	Portugal	Artificial Neural Networks and Ion Beams for 3D Imaging
128	J. M. Lopez-Gutierrez	Spain	CNA: User-oriented Accelerator Facility Dedicated to Interdisciplinary Research in Spain
164	Z. Eleme	Greece	Neutron induced fission cross section measurement of 241-Americium at the n_TOF facility
51	**I. Churkin**, V. Bukhtiyarov, N. Krasnikov, P. Logachev, E. Levichev	Russia	Siberian circular source of photons
225	I. Steblevska	Canada	Supervisor Watchdog Circuit for Monitoring Accelerator Beam Properties and Controlling the Safety Interlock System
173	S. N. M. Janib	Malaysia	Accelerator Application in Malaysia to close the Gap in Realizing SDG3
103	E. Da Costa Alves	Portugal	Formation of Au Nanoparticles in TIO2 by Ion Implantation

Paper no	Authors	Designating Member State/ Organization	Title
228	M. A. Rizzutto	Brazil	Amazon Ceramics and their Color Palette – the Use of Ion Beam Analysis to Determine the Pigments

IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

INTERNATIONAL ATOMIC ENERGY AGENCY, Guidelines for Determination of Standardized Semiconductor Radiation Hardness Parameters, Technical Reports Series 490, IAEA, Vienna (2022)

INTERNATIONAL ATOMIC ENERGY AGENCY, Specific Considerations and Guidance for the Establishment of Ionizing Radiation Facilities, Radiation Technology Series No. 7, IAEA, Vienna (2022).

INTERNATIONAL ATOMIC ENERGY AGENCY, Considerations of Safety and Utilization of Subcritical Assemblies, IAEA-TECDOC-1976, IAEA, Vienna (2021)

INTERNATIONAL ATOMIC ENERGY AGENCY, Alternative Radionuclide Production with a Cyclotron, IAEA Radioisotopes and Radiopharmaceuticals Reports No. 4, IAEA, Vienna (2021)

INTERNATIONAL ATOMIC ENERGY AGENCY, Production of Emerging Radionuclides towards Theranostic Applications: Copper-61, Scandium-43 and -44, and Yttrium-86, IAEA-TECDOC-1955, IAEA, Vienna (2021)

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INTERNATIONAL ATOMIC ENERGY AGENCY, Neutron Scattering with Low and Medium Flux Neutron Sources, IAEA-TECDOC-1961, IAEA, Vienna (2021)

INTERNATIONAL ATOMIC ENERGY AGENCY, Compact Accelerator Based Neutron Sources, IAEA-TECDOC-1981, IAEA, Vienna (2021)

INTERNATIONAL ATOMIC ENERGY AGENCY, Decommissioning of Particle Accelerators, IAEA Nuclear Energy Series No. NW-T-2.9, IAEA, Vienna (2020)

INTERNATIONAL ATOMIC ENERGY AGENCY, Radiation Safety of Accelerator Based Radioisotope Production Facilities, IAEA Safety Standards Series No. SSG-59, IAEA, Vienna (2020)

INTERNATIONAL ATOMIC ENERGY AGENCY, Regulatory Control of the Safety of Ion Radiotherapy Facilities, IAEA-TECDOC-1891, IAEA, Vienna (2020)

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INTERNATIONAL ATOMIC ENERGY AGENCY, Methodologies for Assessing the Induced Activation Source Term for Use in Decommissioning Applications, Safety Reports Series No. 95, IAEA, Vienna (2019)

INTERNATIONAL ATOMIC ENERGY AGENCY, Accelerator Simulation and Theoretical Modelling of Radiation Effects in Structural Materials, IAEA Nuclear Energy Series No. NF-T-2.2, IAEA, Vienna (2018)

INTERNATIONAL ATOMIC ENERGY AGENCY, Uses of Ionizing Radiation for Tangible Cultural Heritage Conservation, IAEA Radiation Technology Series No. 6, IAEA, Vienna (2017)

INTERNATIONAL ATOMIC ENERGY AGENCY, Trends of Synchrotron Radiation Applications in Cultural Heritage, Forensics and Materials Science, IAEA-TECDOC-1803, IAEA, Vienna (2016)

INTERNATIONAL ATOMIC ENERGY AGENCY, Development of a Reference Database for Ion Beam Analysis, IAEA-TECDOC-1780, IAEA, Vienna (2015)

INTERNATIONAL ATOMIC ENERGY AGENCY, Compendium of Neutron Beam Facilities for High Precision Nuclear Data Measurements, IAEA-TECDOC-1743, IAEA, Vienna (2014)

INTERNATIONAL ATOMIC ENERGY AGENCY, Nuclear Data for the Production of Therapeutic Radionuclides, Technical Reports Series No. 473, IAEA, Vienna (2012)

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INTERNATIONAL ATOMIC ENERGY AGENCY, Dosimetry for Food Irradiation, Technical Reports Series No. 409, IAEA, Vienna (2002)

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25-29 July, Vienna, Austria

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22-26 August, Vienna, Austria

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5-9 September, Geneva, Switzerland

International Conference on Challenges Faced by Technical and Scientific Support Organizations (TSO) in Enhancing Nuclear Safety and Security: Enhancing Science and Adaptability in a Changing World Creating Perspective for a Young Generation (CN-307)
10-13 October, St Petersburg, Russia

International Conference on Topical Issues in Nuclear Installation Safety: Strengthening Safety of Evolutionary and Innovative Reactors Designs (CN-308)
18-21 October, Vienna, Austria

International Ministerial Conference on Nuclear Power in the 21st Century (CN-296)
26-28 October, Washington D.C. United States of America

Symposium on International Safeguards: Reflecting on the Past and Anticipating the Future (CN-303)
31 October-4 November, Vienna, Austria

Fifth International Conference on Nuclear Power Plant Life Management (CN-297)
28 November-2 December 2022, Vienna, Austria

International Conference on Integrated Medical Imaging in Cardiovascular Diseases (IMIC-2022) (CN-304)
13-16 December, Vienna, Austria

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