

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

Programme Committee:

N. Alamanos, CEA, France
G. Aquilanti, Elettra Sincrotrone Trieste, Italy
C. Brenner, ANSTO, Australia
T. Gutberlet, Forschungszentrum Julich, Germany
C. Hoehr, University of Victoria, Canada
A. Hutton, JLab, USA
M. Jaksic, Ruđer Bošković Institute (RBI), Croatia
J. Mittendorfer, High Tech Consulting, Austria

IAEA Secretariat:

Scientific Secretaries, NAPC: S. Charisopoulos
V. Starovoitova
D. Ridikas
C. Horak

Event Organizer, MTCD: J. Zellinger
Administrative Support, NAPC: E. Nazarova
T. Kornelyuk
O. Bilous

Location of the Event:

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

Wagramer Strasse 5
A-1400 Vienna, Austria
Tel.: (+43 1) 2600 21330

Working Language: English

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

IAEA Mobile Conference Application



Participants are encouraged to download the “IAEA Conference and Meetings” App available on Google Play and the iTunes Store.

Android

iPhone



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



Receive announcements via push-notification

If you have questions or require assistance on the App, please contact the Registration Desk.

TIMETABLE – Sessions Overview

Monday, 23 May 2022

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

Tuesday, 24 May 2022

Time	Session No.	Session Title / Break	Venue
09:00 – 10:30	Session 5 Plenary Session	Accelerators for Neutron Therapy, Cultural Heritage, Innovation and Education	M Plenary
10:30 – 11:00		Coffee / Tea Break	
11:00 – 12:30	Session 6.A Parallel Session	Accelerators for BNCT and Cultural Heritage	Board Room A
11:00 – 12:30	Session 6.B Parallel Session	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	Side Event 1	Accelerator-Based Sources of Radiation: Recent Developments	Board Room A
14:00 – 15:30	Poster Session 1	All posters (see separate page)	M-Building 2nd Floor
15:30 – 16:00		Coffee / Tea Break	
16:00 – 17:30	Session 7.A Parallel Session	IBA Facilities and their R&D Program	Board Room A
16:00 – 17:30	Session 7.B Parallel Session	Regulatory Aspects of Accelerator Facilities	M Plenary

Wednesday, 25 May 2022

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

Thursday, 26 May 2022

Time	Session No.	Session Title / Break	Venue
09:00 – 10:30	Session 11 Plenary Session	Emerging Accelerator Technologies – Accelerator Technologies for Food Safety	M Plenary
10:30 – 11:00		Coffee / Tea Break	
11:00 – 12:30	Session 12.A Parallel Session	Future Accelerator-based Neutron Sources	Board Room A
11:00 – 12:30	Session 12.B Parallel Session	Electron Beams and Applications	M Plenary
12:30 – 14:00		Lunch Break	
14:00 – 15:30	Side Event 4	Promoting Self-Reliance and Sustainability of National Nuclear Institutions Operating Accelerator Facilities	Board Room A
14:00 – 15:30	Poster Session 2	All posters (see separate page)	M-Building 2nd Floor
15:30 – 16:00		Coffee / Tea Break	
16:00 – 17:30	Session 13.A Parallel Session	Selected Applications of Accelerator-based Analytical Techniques	Board Room A
16:00 – 17:30	Session 13.B Parallel Session	Accelerators for Energy and other Applications	M Plenary

Friday, 27 May 2022

Time	Session No.	Session Title / Break	Venue
09:00 – 10:30	Session 14 Plenary Session	Accelerators and Multidisciplinary Research and Applications	M Plenary
10:30 – 11:00		Coffee / Tea Break	
11:00 – 11:30	Session 15 Plenary Session	Conference Summary and Highlights	M Plenary
11:30 – 12:00	Session 16 Plenary Session	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	
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) and C. Horak (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
	224	D. Cohen	ANSTO, Australia	Accelerators for Environmental Monitoring and Climate Change Related Studies
11:15–11:45	207	A. Chmielewski	INCT, Poland	Electron Accelerator-Based Systems for Air, Water and Soil Pollution Control Studies

10:00 – 10:30 Plenary Session 2: Accelerators for Medical Radioisotopes, Energy Production and Nuclear Research

M Plenary

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

Time	Abstract No.	Name	Affiliation & Designating Member State	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) and S. Charisopoulos (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
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			
12:45–14:00	Coffee / Tea Break			

14:00 – 15:30 **Parallel Session 3.B: Accelerators for Medical Applications -1** **M Plenary**
Chairpersons: C. S. Cutler (BNL, USA) and V. Starovoitova (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
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 Univ. Medical Center Groningen
14:30–14:45	73	G. Pupillo	INFN-LNL, Italy	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	IBA Techniques & Neuroscience: What's Next?
15:00–15:15	136	C. N. Coleman	Int. Cancer Expert Corps, USA	Treatment, not Terror: A Unique Cancer Treatment for Developing Novel Linear Accelerators for Resource-limited Settings
15:15–15:30	Questions and Answers			
12:45–14:00	Coffee / Tea Break			

16:00 – 17:30 **Parallel Session 4.A: Accelerators for Environmental Monitoring** **Board Room A**
Chairpersons: S. Merchel (VERA, Austria) and R. Padilla Alvarez (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
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 IBA
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 Sincrotrone, 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) and A. Jalilian (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
16:00–16:15	125	E. Punzón-Quijorna	JSI, Slovenia	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. de 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

9:00 – 10:30 Plenary Session 5: Accelerators for Neutron Therapy,
Cultural Heritage, Innovation and Education

M Plenary

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

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
9:00–9:30	210	H. Kumada	University of Tsukuba, Japan	Current Status of Compact Accelerator-based Neutron Sources for Boron Neutron Capture Therapy in the World
9:30–10:00	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) and I. Swainson (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
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 Inst., Russian Federation	Accelerator-based Neutron Source for Boron Neutron Capture Therapy & other Applications
11:30–11:45	94	I. Carlomagno	Elettra Sincrotrone, 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 ... based Investigations of Colored Layers, Binding Materials and Resins of the God Ptah-Sokar-Osiris Wooden Statuette ... Dating Back to 26th Pharaonic Dynasty
12:00–12:15	121	<u>V. Corregidor</u>	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) and N. Skukan (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
11:00–11:15	24	O. Riabukhin	Ural Fed. Univ, 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	Heady 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 Center
12:00-12:15	116	F. Zanini	Elettra Sincrotrone, 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 Univ., USA) & V. Starovoitova (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
14:00-14:10		S. Norris	DOE/NNSA, USA	Opening Remarks
14:10–14:30	236	J. Schwindling	CEA, France	Compact Accelerator-based Neutron Sources: recent developments
14:30–14:50	237	A.-L. Lamure	RadiaBeam Technologies USA	Electron Beams for research and industrial applications
14:50–15:10	238	A. Pierard	IBA, Belgium	The new generation of sustainable X-ray irradiators
15:10–15:30		Round Table Discussion - Questions and Answers		
15:30–16:00		Coffee / Tea Break		

14:00 – 15:30 [Poster Session 1](#) All posters (see separate page) [M-Building \(2nd Floor\)](#)

16:00 – 17:30 **Parallel Session 7.A: IBA Facilities and their R&D Programmes** [Board Room A](#)
Chairpersons: E. Da Costa Alves (U. de Lisboa, Portugal) & N. Skukan (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
16:00–16:15	108	V. Rigato	LNL/INFN, Italy	Multidisciplinary Physics with MeV Ion Beams at the Laboratori Nazionali di Legnaro ...
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 RBI Accelerator
16:45–17:00	151	A. Karydas	NCSR Demokritos, Greece	Applications of Proton-induced X-rays at the Tandem Accelerator Lab. of NCSR “Demokritos”
17:00–17:15	19	R. O. Barrachina	CNEA, Argentina	Six Decades of R&D 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 (Indep. Consultant, India)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
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

9:00 – 10:30 Plenary Session 8: Accelerators for Nuclear Data
and Materials Research

M Plenary

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

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
9:00–9:30	213	M. Rubel	Royal Inst. of Technology, Sweden	Accelerator Techniques and Nuclear Data needs for IBA of wall Materials for Fusion reactors
9:30–10:00	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 Inst. of Technology, Sweden) & A. Koning (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
11:00–11:15	232	J.C. Sublet	IAEA	Radiation Damages Bohr' s Metrics: Accelerator & Elemental Landscapes
11:15–11:30	154	N. Patronis	Univ. 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 Univ. Athens, Greece	The Neutron Facility at NCSR "Demokritos" and Neutron Activation Research Activities of NTUA
11:45–12:00	109	P. 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) and V. Starovoitova (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	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 Univ., 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 Nat. Lab., USA	Penelope-based User-Friendly Fast Interface for Calculating Distribution in Irradiated Products
11:45–12:00	32	D. Chmielewska-Śmietanko	Inst. of Nucl. Chemistry & 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	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 Centres of IAEA

Board Room A

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

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
14:00-14:15	240	S. Hollins	ANSTO, Australia	New and Advanced Techniques and Applications of Nuclear Science & Technology towards a Sustainable Environment
14:15-14:30	241	M. Kiskinova	Elettra Sincrotrone, Italy	The IAEA-Elettra Collaborating Center
14:30-14:45	243	L. Bertrand	ENS Paris-Saclay, France	Implementation of the IAEA Collaborating Center "Atoms for Heritage" at the Université Paris-Saclay
14:45-15:00	242	R. Nchodu	iThemba LABS, South Africa	iThemba LABS: The IAEA Collaborating Centre for Accelerator Based Scientific Research and Applications
15:00-15:15	244	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. S. Cutler (BNL, USA) and A. Peeva (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
14:00-14:10		C.S. Cutler	BNL, USA	New and Advanced Techniques and Applications of Nuclear Science & Technology towards a Sustainable Environment
14:10-14:20		J. Donner	SGIM, IAEA	The IAEA-Elettra Collaborating Center
14:20-15:20		Panel Discussion	Moderator: A. Peeva (IAEA) Participants: D. Cohen (ANSTO, Australia), N. Alamanos (CEA, France), S. Carvalho (NCNE, Brazil), C. Gutierrez (Elettra, Italy; 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) and R. Padilla Alvarez (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
16:00–16:15	179	P. Kluth	ANU, 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	3D 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	Univ. of Tennessee, USA	Investigating Radiation Effects in Materials Using State-of-the-Art Particle Accelerators
17:00–17:15	165	C. Vyas	MSU (USA)/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 Sincrotrone, Italy) and K. Kanaki (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
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, U.K.	IFAST Accelerators for Societal Application
17:00–17:15	54	B. List	DESY, Germany	Sustainability Studies for Linear Colliders
17:00–17:30		Questions and Answers		

THURSDAY, 26 May 2022

9:00 – 10:30 Plenary Session 11: Emerging Accelerator Technologies – Accelerators for Food Safety and Security. M Plenary
Chairpersons: T. Gutberlet (FZ Jülich, Germany) and S. Charisopoulos (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
9:00–9:30	219	Y. Otake	RIKEN, Japan	RIKEN Accelerator-driven Compact Neutron Systems and RANS Project
9:30–10:00	214	M. Roth	IKP, TU Darmstadt, 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)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
11:00–11:15	129	N. Mayordomo	HZ 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 Univ., USA) and B. S. Han (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
11:00–11:15	139	A. Bryazgin	Budker Inst., Russian Federation	ILU RF Electron Accelerators for E-beam and X-ray Applications
11:15–11:30	174	W.A.P. 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	NCNST, 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	8	P.A.S. Vasquez	IPEN / CNEN / SP, Brazil	Preservation of Photographic and Cinematographic Films by Electron-Beam Irradiation
12:00–12:15	235	A. Jalilian	IAEA	IAEA support for accelerator-based radio-isotopes and radiopharmaceuticals production
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 (Indep. Consultant, India), N. Pessoa Barradas (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
14:00–14:10		N. Pessoa Barradas	IAEA	Opening remarks
14:10–14:25	248	F. A. Deluchi	CNEA, Argentina	Research and Industrial Applications Electron Beam Accelerator Project
14:25–14:40	249	C. Arcilla	PNRI, Philippines	The new Nuclear Medicine Research and Innovation Center
14:40–14:55	250	S. A. Hashim	WiN, Malaysia	Promoting Application of Electron Accelerator and Radiation Processing in Malaysia
15:00–15:15	251	S. Rugmai	SLRI, Thailand	The synchrotron projects of Thailand
15:15–15:30		Round Table Discussion - Questions and Answers		
15:30–16:00		Coffee / Tea Break		

14:00 – 15:30 [Poster Session 2](#) All posters (see separate page) **M-Building (2nd Floor)**

16:00 – 17:30 **Parallel Session 13.A: Selected Applications of Accelerator-based Analytical Techniques** **Board Room A**

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

Time	Abstract No.	Name	Affiliation & Designating Member State	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. 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 & Interdisciplinary Applications** **M Plenary**

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

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
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
16:45–17:00	20	S. Masic	Vinca Inst. of Nuclear Sciences, Serbia	Surface Treatment of Special High-Protein Products Using Low Energy Beams from Machine Sources
17:00–17:30		Questions and Answers		

FRIDAY, 27 May 2022

9:00 – 10:30 Plenary Session 14: Accelerator and emerging applications **M Plenary**
Chairpersons: T. Oshima (NIQRST, Japan) and A. Simon (IAEA)

Time	Abstract No.	Name	Affiliation & Designating Member State	Title
9:00–9:30	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
9:30–10:00	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) and C. Horak (IAEA)

Time	Name - Affiliation	Title
9:00–9:30	N. Alamanos (CEA, France)	Conference Summary and Highlights
9:30–10:00	N. Ramamoorthy (Independent Consultant, India)	Conference Summary and Highlights: Focus on Applications and the IAEA support

12:00 – 12:30 Plenary Session 16: Conference Closing and Award Ceremony **M Plenary**

Time	Name - Affiliation	Title
12:00–12:15	C. Horak, V. Starovoitova D. Ridikas, S. Charisopoulos (Scientific Secretaries, IAEA)	Award Ceremony
12:15–12:30	N. Mokhtar (DDG-NA, 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 Sessions

Time: 14:00 – 15:30

Venue: M-Building, 2nd Floor

Abstract No.	Authors	Designating Member State / Organization	Poster Title
5	A. Zaouak Ep Ammar	Tunisia	Removal of Hydroxychloroquine and Acid Red 51 Aqueous Solutions by the Electron Beam Process
7	L. Yu	Thailand	Ion Beams & Ion-accelerators for Biology-oriented Applications and Research – CMU Practices
11	<u>I. Vujcic</u> , S. Masic	Serbia	Possibility of Using Sludge from Drinking Water Treatment Plant as Fertilizer in Agriculture after E-beam Treatment: Effects of aging
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
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
14	G. Stankunas	Lithuania	Concrete and stainless-steel activation/decay heat data for the IFMIF-DONES Test Cell components
16	<u>S. Petrović</u> , N. Starčević, M. Ćosić	Serbia	The Rainbow Ion-Solid Interaction Potential
17	<u>A. Mejri</u> , 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
21	<u>S. Mejri</u> , I. Hemissi, C. Brinsi, A. Asmi, M. Saidi, Y. Mabrouk	Tunisia	Radiosensitivity of Two Lens Culinaris Medikus Subsp. Culinaris Varieties to Electron Beam Irradiation
22	A. Akhavan Agh Ghaleh	Iran	Electron Beam Crosslinking of PE/NG Nanocomposite for Solar Collector Applications

Abstract No.	Authors	Designating Member State / Organization	Poster Title
26	S. Rimjaem	Thailand	Establishment of the First Accelerator- based Infrared Free-electron Laser Facility in SE Asia
28	I. Aljammaz	Saudi Arabia	Socioeconomic Impact of Cyclotrons in King Faisal Specialist Hospitals & Research Centre in Saudi Arabia
30	U. Gryczka	Poland	Determination of the Effectiveness and Control of Food Irradiation Process with a Low-energy Electron Beam
34	<u>J. Červenák</u> , O. Lebeda	Czech Republic	Measurement of Excitation Functions of Proton-Induced Nuclear Reactions on Dy- nat.
36	M. A. Khan	Pakistan	Low Energy S–band Electron Linear Accelerator(s) Development for Research and Applications Having Socio–economic Impact
39	H. Kumada	Japan	Current Development Status of the Linac-based BNCT Device of the iBNCT Tsukuba Project
41	E. Mora-Ramirez, E. Corrales-Corrales	Costa Rica	Ventilation Air System Issue at the University of Costa Rica’s Cyclotron Facility
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
48	<u>F. Kuntz</u> , A. Nasreddine, N. Ludwig, A. Strasser	France	Feerix, a novel Irradiation Platform for R&D, Education and Training
51	<u>I. Churkin</u> , V. Bukhtiyarov, N. Krasnikov, P. Logachev, E. Levichev	Russian Federation	Siberian circular source of photons
53	<u>D. Kottuparamban</u> , A. Muhammed	India	An Optimized Periodic Maintenance Planner for a Commercial Medical Cyclotron Facility

Abstract No.	Authors	Designating Member State / Organization	Poster Title
55	<u>A. Maggiolo</u> , G. Rabi, M. Espósito	Argentina	Development and Application of Indicators for the Assessment of Radiation Safety Systems in Radiopharmaceuticals Production Facilities with Cyclotron
57	<u>G. Rabi</u> , 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
61	Hassan Abd El Rehim	Egypt	The Potential Use of Electron Beam Irradiation to Preserve Micro-biologically Infected Egyptian Papyrus
62	<u>A. Mamaras</u> , P. Foka, A. Ioannidou,	Greece	Concepts and Methodology of the Particle Therapy Masterclass (PTMC) for Capacity Building – PTMC in Greece as a Case Study
63	<u>A. Sagatova</u> , M. Fulop, M. Pavlovic, S. Kotorova	Slovakia	Multipurpose Electron Beam Facility in Slovakia for Research and Industrial Applications
64	<u>A. Lausi</u> , M. Attal, A. A. Elkadime	SESAME, Jordan	SESAME, a Synchrotron Radiation Facility in the Cradle of History
66	<u>M. Fulop</u> , J. Ruzicka, P. Ragan, A. Sagatova	Slovakia	Method for detection of illegal cigarette boxes in iron ore cargo
68	E. Stancu	Romania	Radiation ISODOSE Measurements Inside Interaction Chamber During the Commissioning Experiments of CETAL Facility. Gas Target Case
71	N. Bergans	Belgium	How Induced Activated Accelerator Parts Have an Impact on the Radiation Safety of a Proton Therapy Facility
75	P. Thongjerm	Thailand	The Development of an External Beam Irradiation System for Material Analysis at the Cyclotron Facility in Thailand
79	<u>C. da Costa</u> , E. F. da Silveira	Brazil	Degradation of Amino Acids by MeV Ions

Abstract No.	Authors	Designating Member State / Organization	Poster Title
81	G. García	Spain	Impact Pathways for Research Infrastructures: The Case of CMAM-UAM
83	Md. N. Hossain	Bangladesh	Establishment of the Cyclotron Facilities in Bangladesh – Present Status and Experiences
87	<u>A. Gopalakrishna</u> , 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 ^{64}Cu – Suitable for Preclinical Studies Using Accelerator Neutrons
89	<u>L. Dittrich</u> , 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
90	P. R. Oliveira	Brazil	Cluster Ion Emission from C_2H_2 and C_2H_6 Ices induced by ^{252}Cf Fission Fragments
91	R. Martinez	Brazil	Glycine Bombardment by Alpha Particle – destruction Cross Section Dependence with KeV Energy and Temperature
97	M. Dias	Portugal	Synthesis and Irradiation Effects on CrNbTaVWx High Entropy Alloys
99	<u>N. Catarino</u> , E. Alves, R. Mateus, J. Cruz	Portugal	Measurement of $^9\text{Be}(^3\text{He},p)^{11}\text{B}$ Nuclear Reaction Cross Sections at Energy Range 0.5–2.35 MeV
100	J. J. Mboukam	Cameroon	Effect of Swift Heavy Ion Irradiation on the Optical Properties of Ion Implanted Polyethylene Terephthalate
103	<u>E. Alves</u> , J. Borges, N. Catarino, M. Dias, M. Peres, A. Ribeiro, F. Vaz	Portugal	Formation of Au Nanoparticles in TiO_2 by Ion Implantation
112	S. Chattopadhyay, <u>P. Mukherjee</u>	India	Utilization of 30MeV DAE Medical Cyclotron for Production of Medically Useful Radioisotopes and Corresponding Radiopharmaceuticals

Abstract No.	Authors	Designating Member State / Organization	Poster Title
113	R. Mateus	Portugal	Ion Beam Studies of Deuterium Retention in High Entropy Alloys and W Targets in the PF-1000U Facility
120	T. Dunatov	Croatia	Development and Applications of the Dual-beam Ion Irradiation Facility for Fusion Materials (DiFU) at RBI, Zagreb
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
137	I. Ahmad	Pakistan	Effects of Ions Irradiation on TiO ₂ Nanoparticles: A Review
143	L. Popa-Simil	United States	Review of 20 Years of Industrial Applications of Ion Beam and Radiation Techniques
144	M. Nasef	Malaysia	Progress in Electron Beam Induced Grafting for Development of Ion Conducting Membranes for Polymer Electrolyte Fuel Cells in Malaysia
146	L. Popa-Simil	United States	Accelerators Use to Engineer Nano- Materials for Energy
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
153	D. Oliveira de Souza	Italy	Organic Carbon Cycling and Stabilization in Paddy Soils Probed by Fe K-edge X- ray Absorption Spectroscopy
156	V. Gostilo	Latvia	Mobile Facility for Gamma-activation Analysis of Gold Ores
161	V. Michalopoulou	Greece	Neutron Induced Fission Studies at NCSR "Demokritos" by the NTUA

Abstract No.	Authors	Designating Member State / Organization	Poster Title
164	Z. Eleme	Greece	Neutron induced fission cross section measurement of ²⁴¹ Americium at the n_TOF facility
167	V. Sharapova	Russian Federation	The Effects of Sterilization Irradiation on Properties of Commercially Available Pet Materials Used in the Production of Vacuum Tubes for Blood Sampling
168	M. Diakaki	Greece	Neutron Induced Fission Studies at the CERN n_TOF Facility
170	H. Sa'adeh	Jordan	Towards Detection and Identification of Lead in Aerosol Samples Collected in an Urban Area in Amman, Jordan
172	B. Gonsalves	Finland	Performance Comparison of Methods for the Detection of ¹⁰ Be at the Helsinki AMS Facility
173	S. N. Mohd Janib	Malaysia	Accelerator Application in Malaysia to Close the Gap in Realizing SDG3
175	<u>J. Mira</u> , 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
178	<u>A. H. Barnard</u> , 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	<u>E. Stamati</u> , N. Colonna, A. Mengoni, N. Patronis, R. Vlastou	Greece	NEAR at n_TOF/CERN: The First Multi-foil Activation Measurement
192	<u>R. Hasan</u> , H. Sa'adeh	Jordan	A Comprehensive Overview of the University of Jordan Van de Graaff Accelerator (JUVAC)
200	<u>T. Torims</u> , 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

Abstract No.	Authors	Designating Member State / Organization	Poster Title
201	<u>M. Etoom</u> , O. Natsheh	Jordan	Switching Irradiation Facility in Jordan from Co-60 to E-beam X-ray
202	S. Utermann, A. Jungstand, A. Thielmann, M. Gastrow	Germany	Comparative Analysis of Socio-economic Impact in Two Particle Accelerator Case Studies
225	I. Steblevska	Canada	Supervisor Watchdog Circuit for Monitoring Accelerator Beam Properties and Controlling the Safety Interlock System
228	Marcia Almeida Rizzutto	Brazil	Amazon Ceramics and their Color Palette - the Use of Ion Beam Analysis to Determine the Pigments
234	H. Ahiamadjie	Ghana	Environmental applications of PIXE at the accelerator facility of Ghana Atomic Energy Commission

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)

INTERNATIONAL ATOMIC ENERGY AGENCY, Therapeutic Radiopharmaceuticals Labelled with Copper-67, Rhenium-186 and Scandium-47, IAEA-TECDOC-1945, IAEA, Vienna (2021)

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)

INTERNATIONAL ATOMIC ENERGY AGENCY, Challenges for Coolants in Fast Neutron Spectrum Systems, IAEA-TECDOC-1912, IAEA, Vienna (2020)

INTERNATIONAL ATOMIC ENERGY AGENCY, Modern Neutron Detection, IAEA-TECDOC-1935, IAEA, Vienna (2020)

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)

INTERNATIONAL ATOMIC ENERGY AGENCY, Nuclear Techniques for Cultural Heritage Research, IAEA Radiation Technology Series No. 2, IAEA, Vienna (2011)

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

PARTICIPATION IN IAEA SCIENTIFIC CONFERENCES

Governments of Member States and those organizations whose activities are relevant to the conference subject matter are invited to designate participants. In addition, the IAEA itself may invite a limited number of scientists as invited speakers. Only participants designated or invited in this way are entitled to present papers and take part in the discussions.

Scientists interested in participating in any of the IAEA conferences should request information from the Government authorities of their own countries, in most cases the Ministry of Foreign Affairs or national atomic energy authority.

PUBLICATIONS

Proceedings

The proceedings of the conference containing all presentations and posters delivered at the conference, as well as the findings and recommendations, will be published by the IAEA as soon as possible after the conference.

Orders

No registration fee is charged to participants, but they are encouraged to order for themselves or on behalf of their supporting organization at least one copy of the proceedings. These can be obtained at a special price representing half the estimated sales price provided that they are ordered and paid for during the conference at the Conference Desk.

Other IAEA Publications

All IAEA publications may be ordered directly from the Sales and Promotion Unit, International Atomic Energy Agency, P.O. Box 100, A-1400 Vienna, Austria.

Fax: (+43 1) 2600-29302

Email: sales.publications@iaea.org

Internet: <http://www.iaea.org/books>

FORTHCOMING SCIENTIFIC CONFERENCES SCHEDULED BY THE IAEA

2022

International Conference on the Safety and Security of Radioactive Sources: Accomplishments and Future Endeavours (CN-295)
20-24 June, Vienna, Austria

International Symposium on Managing Land and Water for Climate-Smart Agriculture (CN-305)
25-29 July, Vienna, Austria

Second International Conference on Applications of Radiation Science and Technology (ICARST-2022) (CN-290)
22-26 August, Vienna, Austria

International Conference on Occupational Radiation Protection: Strengthening Radiation Protection of Workers – Twenty Years of Progress and the Way Forward (CN-300)
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

For information on forthcoming scientific meetings, please consult the
IAEA web site: <http://www.iaea.org/events>

For information on forthcoming scientific meetings, please consult the IAEA web site:
<http://www.iaea.org/events>