61st ANNUAL MEETING

Connection & Collaboration

July 12-16, 2020
Baltimore, Maryland USA

BALTIMORE MARRIOTT WATERFRONT

CALL FOR PAPERS

Submit your Abstracts for the 61st Annual Meeting

Abstracts Due: February 3, 2020

#INMM20
SUBMIT AN ABSTRACT FOR THE 61ST INMM ANNUAL MEETING

Submit an abstract for the 61st INMM Annual Meeting by February 3, 2020 to be considered for the 2020 program.

The INMM Annual Meeting is a great opportunity to share your work with your colleagues from around the world.

Highlights from the 2019 Annual Meeting:

500+ ATTENDEES 22 COUNTRIES 300+ ORAL & POSTER PRESENTATIONS

HERE’S WHAT A FEW OF OUR 2019 ATTENDEES HAD TO SAY ABOUT THE INMM ANNUAL MEETING:

A great opportunity to meet U.S. and international technical colleagues and get up to date on new ideas and developments.

The meeting brings together people involved in all aspects of nuclear technology, including arms control, energy, safety, security, international relations and more. It offers opportunities for interacting and enhancing understanding across fields.
SETTING THE AGENDA FOR A NEW DECADE

Join the community of nuclear materials management professionals in setting our agenda for the 2020’s. The Baltimore venue will connect people from around the world - policy makers, researchers, industry, academicians, NGOs and practitioners - to identify new challenges and opportunities of the decade ahead.

Session themes and formats will be oriented towards:
- Topics of interest that cut across multiple Technical Divisions
- Engagement of diverse stakeholders and sectors
- Interactive discussions among practitioners from different disciplines
- Looking ahead while learning from the past

WE HEARD YOU!


Come see what’s new!

CONTRIBUTE YOUR ABSTRACT TODAY, AND LET YOUR VOICE BE HEARD AS THE INSTITUTE ROARS INTO THE 20’S WITH RENEWED ENERGY AND INSPIRATION.

CARRIE MATHEWS
Technical Program Chair

LAWRENCE J. SATKOWIAK
Annual Meeting Chair
Who Should Submit an Abstract?

- Academicians
- Consultants
- Researchers
- Nuclear Regulatory Authorities
- Facility Operators
- Government Officials
- Non-Governmental Organizations
- Nuclear Laboratories
- Private Industry Professionals
- Public Officials
- Public Utilities
- Students
- International Organizations
- Technology Developers

Important Dates

**FEBRUARY 3, 2020**
ABSTRACT SUBMISSION DEADLINE

**MARCH 2020**
EMAIL NOTIFICATION OF ACCEPTANCE SENT

**MAY 15, 2020**
PRESENTATION CHANGES AND WITHDRAWALS DEADLINE

**JUNE 1, 2020**
FINAL PAPERS AND POSTERS DUE

**JUNE 8, 2020**
EARLY BIRD REGISTRATION ENDS

Abstract Submission Requirements

- Complete all sections of the online abstract submittal form, including name and all contact information. This data is required so INMM can contact you regarding paper acceptance. INMM is not responsible for non-notification due to incomplete or incorrect contact information.
- Abstracts must conform to the submission requirements outlined. Your abstract will not be reviewed or accepted if the format is not used. For more information on submission, please visit the INMM website.
- Select the Cross-Cutting Theme and/or Technical Division to which your abstract contributes.

Abstract Submission System and Guidance at www.inmm.org

Check out the Student Paper and Poster Competitions for 2020! Visit inmm.org for more details.
SPECIAL SESSIONS WILL BE DESIGNED TO ENCOURAGE INTERACTION AMONG MULTI-DISCIPLINARY PARTICIPANTS FROM DIFFERENT TECHNICAL DIVISIONS ON THESE SEVEN CROSS-CUTTING THEMES.

- Advanced Reactors, SMRs, New Fuels
- Data Science and Analytics
- Spent Fuel, Decommissioning and Disposition
- Emerging Technologies (e.g. Robotics, Additive Manufacturing, UAVs, VR, IoT, Distributed Ledger)
- Cybersecurity and IT reliance
- Communication/Engagement on nuclear materials management, 3S (safety, safeguards, security) culture
- Knowledge Retention and Information Sharing
Topics of Interest by Technical Division

If you are interested in organizing a special session, Please Contact the INMM Technical Program Committee before taking any action by emailing inmm@inmm.org as soon as possible. Abstracts are requested on a variety of topics that span technology, policy, systems, concepts and operations, across the seven Technical Divisions of the INMM.

FACILITY OPERATIONS

Nuclear Facility Infrastructure
- Decommissioning
- Aging Nuclear Facility and Infrastructure – Replacement Facilities and Bridging Strategies
- Data Protection For Digital Processes
- Cyber Protection of Instrumentation and Control (I&C) Systems
- Safety Considerations in the Transition from Operation to Decommissioning of Nuclear Facilities
- Major Project Updates at Department of Energy Facilities
- Maintaining an Experienced Workforce
- Process and Equipment Recapitalization

Nuclear Fuel Cycle
- Trends Towards Sustainability in the Nuclear Fuel Cycle
- Global Coordination on Small, Medium-Sized, or Modular Nuclear Reactors (SMRs)
- Technology Innovations and Updates for the Nuclear Industry
- Interfaces with Other Nuclear Groups - American Nuclear Society, World Organization for Nuclear Operators, Nuclear Energy Institute, World Nuclear Association, Nuclear Suppliers Group, etc.

Nuclear Material Management, Consolidation and Disposition
- Surplus Special Nuclear Material Disposition and Disposal
- Surplus Nuclear Material Minimization and Removal
- Nuclear Reactor Conversions
- Research Reactor Fuel Management
- Current Trends in Nuclear Material Research and Technology
- Materials Management Issues and Best Practices as They Pertain to Daily Operations in a Licensed Nuclear Facility (Commercial and/or Government)

Nuclear Operations
- Managing Human Performance to Improve Facility Operation
- Challenges and Opportunities in Operations, Regulations, Licensing, etc. in Commercial Nuclear Power
- Operating and Maintaining Nuclear Reactors and Facilities at Universities and Government Facilities
- Implications from Systems-level Perspective and State Approaches, Policies and Regulatory Framework

INTERNATIONAL SAFEGUARDS

Concepts and Approaches
- Implementation of safeguards at the state level
- Safeguards by Design
- Applications of safeguards at the back-end of the fuel cycle
- Process monitoring, sensor integration, remote operation in safeguards

Analysis and Information
- Safeguards information management
- Data science in safeguards
- The human factor - cognitive science in safeguards
- Strategic trade analysis and export control

Technologies and Methods
- Emerging novel methods and technologies in safeguards
Abstract Topics (continued)

» Robotics and unmanned systems for safeguards
» Techniques and standards for destructive analysis in safeguards
» Nuclear material measurements in safeguards
» Spent fuel verification in safeguards
» Containment/surveillance and verification technologies

Cooperation and Communication
» Safeguards culture
» International cooperation in safeguards
» Education, training and knowledge management in safeguards
» Communication in safeguards

MATERIALS CONTROL & ACCOUNTABILITY

Technologies and Methods
» New Fuels: Measurement and Accounting Challenges
» Spent Fuel: Measurement versus Code
» Advances in Neutron Measurement Methods and Techniques
» Advances in Gamma Measurement Methods and Techniques
» Holdup: Measurement Methods and Facility Experience

Policies and Systems
» MC&A Accounting Systems: The good, the bad, and the ugly
» The Insider Threat: Prevention, Detection and Mitigation
» Policy Questions: How good is “Good Enough?”
» Cybersecurity Implications for MC&A Accounting Systems
» MC&A Knowledge Management: Things you should know
» Standards and the roles they play

Analysis and Information
» MC&A Data and Data Analytics
» Statistical Evaluations and Process Controls
» Assessing Laboratory Measurement Performance

NONPROLIFERATION & ARMS CONTROL

Treaties, Policies and Systems
» Nonproliferation and Arms Control Regimes and Treaties
» Strategic Trade Controls
» Promoting International Security
» Topical issues in Nonproliferation (e.g. JCPOA & Iran, DPRK)
» Arms Control and Verifiable Dismantlement
» Status and Lessons Learned from Other Treaties and Regimes (e.g. Comprehensive Nuclear Test Ban Treaty Verification Regime, Chemical Weapons Convention, Open Skies)
» Nuclear Material Inventory and Disposition (including nuclear archeology)
» Regional Nonproliferation Challenges and Approaches

Concepts and Approaches
» Nuclear Fuel Cycle - Implications in Advances in Civil Nuclear Fuel Cycle Technologies and Issues (e.g. Proliferation Resistance, Assured Fuel Supply, Nuclear Material Disposition)
» Interface between Nonproliferation & Nuclear Security

Technologies and Methods
» Data analytics for nonproliferation and arms control (including new tools, results of analysis, new ideas)
» Gaming and Simulation for Nonproliferation and Arms Control
» Nuclear Weapons Dismantlement Verification Technologies and Implementation
» Detection Technologies: Nuclear, Radiological, Chemical, Biological, Digital Information Open Source
» Destructive Analyses and Nuclear Forensics
» Automatic Tamper and Event Detection Technologies
» Unattended and Remote Technologies
Abstract Topics (continued)

NUCLEAR SECURITY & PHYSICAL PROTECTION

Technologies and Methods
» Technologies - detectors and sensors
» Assessment methodologies and modeling and simulation
» Emerging technologies - UAVs, AI, etc.

Concepts and Approaches
» Risk informing security
» Security culture
» Insider mitigation
» Policy considerations
» Panel discussion on quantification of the likelihood of attack

Systems and Implementation
» Spent fuel storage security
» Advanced reactor security
» Advanced reactor fuel cycle and medical isotope production security
» Decommissioning issues for security
» Radioactive Materials Security

PACKAGING, TRANSPORTATION & DISPOSITION

Policies and Practices
» Performance Assurance and Testing Methodologies
» Policy & Best Practices
» Quality Assurance in RAM Packaging Fabrication
» Denial of Shipment
» Regulatory Issues
» Package Tracking and Fleet Management

Case Studies, Concepts and Approaches
» Transportation Risk Analysis
» Emergency Response for Transportation Events
» Use of Transportation Packages for Storage

EDUCATION, TRAINING & WORKFORCE DEVELOPMENT
General Information

SUBMITTING FINAL WRITTEN PAPERS

Final papers must be submitted via the INMM Abstract Submission Website by June 1, 2020. Panel discussion summaries must be submitted to INMM Headquarters no later than June 15, 2020. See the Speakers’ Manual for details on how to submit a final written paper. Final papers must have a file size no larger than 10 full, single-spaced, single-column pages (including charts and photos). Authors of papers will be charged a fee of $200 USD per page for each additional page after 10 pages. INMM does not charge for publishing final papers in the online Proceedings that are no more than 10 pages long.

PROMOTION OF COMMERCIAL PRODUCTS

Vendors, laboratories and others promoting the sale of instruments, apparatus, equipment, software, processes and capabilities are required to present or exhibit their commercial products separately from the oral and poster presentation sessions. Only the results of nuclear materials management research may be presented in the oral and poster sessions. Vendors and others wishing to exhibit their commercial products should request an Exhibitor Prospectus from INMM Headquarters (inmm@inmm.org).

INTERPRETERS: WHAT YOU CAN EXPECT

The official language of the conference is English. It is preferred that all presentations be delivered in English. If this is not possible, and you need to use an interpreter, you must notify INMM Headquarters by June 1, 2020, so arrangements can be made. Serious scheduling problems may arise for presenters using interpreters. The use of interpreters with speakers can add significant time to the presentation. Furthermore, private concurrent translation in the meeting room may create a distraction for the other attendees.

WHAT YOU CAN EXPECT FROM INMM

If you are interested in organizing a special session, please contact INMM Technical Program Committee Chair before taking any action. Contact INMM Headquarters (inmm@inmm.org) as soon as possible if you need assistance in making these contacts.

- Acceptance/Rejection emails will be sent in late March 2020. All submitters will be contacted by email. Email inmm@inmm.org if you do not receive an email.
- Presenting authors of accepted abstracts will receive session information and a speakers’ manual by email with detailed information for presenting their papers or posters and guidelines for the preparation of the final paper in March 2020.
- A Preliminary Program with a tentative agenda and other meeting information will be available in April 2020.
- In order to have your paper included in the online Proceedings it must be submitted by the deadline of June 1, 2020. Any papers submitted after the deadline will be uploaded to the Proceedings after the Annual Meeting, later in the fall of 2020.
Registration

Participation in the INMM 61st Annual Meeting is limited to registered attendees.

YOUR FULL REGISTRATION INCLUDES:

- Admission to all sessions (Monday – Thursday)
- Access to exhibits
- Invitation to the President’s Welcome Reception
- Daily coffee and tea breaks
- Entry to the INMM Annual Business Meeting
- Access to the Conference App
- Access to the online Proceedings

REGISTRATION FEES

All speakers, session chairs and meeting attendees are required to pay the registration fee for the Annual Meeting according to INMM policy and fee schedule. Registration and fee schedule apply even when the speaker attends the Annual Meeting for a short time only to present his/her paper or poster or participate in a panel discussion. A Preliminary Program with registration forms will be available in April 2020. Visit the INMM Website at www.inmm.org for the most current meeting information.

INMM Members receive a substantial discount on meeting registration. To be eligible for the member rate, you must be a member of INMM for a minimum of one fiscal quarter (three months) prior to the Annual Meeting; for 2020, you must be a member by April 13, 2020. Visit www.inmm.org/join to learn more.

Questions

Questions regarding the Call for Papers or general meeting information may be directed to INMM Headquarters by:

Email: meetings@inmm.org
Phone: +1-856-380-6813
Fax: +1-856-439-0525

INMM Headquarters
1120 Rt. 73, Suite 200
Mt. Laurel, NJ 08054 USA

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