

# INMM Communicator

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## Editor's Note



**By Brian Boyer**  
INMM Communicator Editor  
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Welcome to the Winter 2009 issue of the INMM Communicator.

I started to write this letter from the cabin of a Boeing 737 descending into Vienna on a flight arriving from Amsterdam with my journey originating in Manchester. It is a route I know well from my days as an IAEA safeguards inspector doing inspections at the URENCO Capenhurst gas centrifuge enrichment plant. I was part of the URENCO safeguards conference held in Chester where many INMM members were participants.

An active travel schedule is a big part of the life of many safeguards experts. It can be a very exciting part of a nuclear materials management career. In fact, I continued this letter on a flight from Moscow to New York that was sprinkled with several of our lab colleagues in the nuclear materials management field. It is hard to avoid people in our field on travel even if you try. This publication tries to give an idea in each issue what INMM and careers in nuclear materials management are like. Please note that not everyone travels all over the globe. This is an appropriate point since I finished this letter at my desk in Los Alamos since sometimes all the information you need is not on the road with you. So being at home and working at your desk or lab is very important, too, since new technologies and ideas are hard to develop at an airport or in an airplane cabin.

As in every issue of the Communicator, we have news about the Institute's internal operations in a column by INMM Vice-President Scott Vance, "[Inside Insights](#)." Another regular feature is the piece "Member News," by our new Membership Committee chair Albert Garrett. We bid a special welcome to all the new INMM members since the annual meeting in Tucson. Their

names are listed in Al's piece. As has been the mission of the Communicator we also highlight a technical division. This month is the [International Safeguards Division](#).

One of the pleasures of my job has been working on Human Capital Development as part of the Next Generation Safeguards Initiative (NGSI). The Communicator has highlighted students and young staff. This issue we have [an article from Melissa Schear](#) from Los Alamos National Laboratory, who just moved from being a post-master's student into a full-time staff at LANL. She writes about her recent trip to Japan for the IAEA-JAEA Workshop. I think all our national labs are looking forward to hosting some more young fresh enthusiastic faces this summer. So those younger readers in the audience should start contacting us in the labs now!

We also have an update on activities at one of our new student chapters at the [University of Michigan](#) from the chapter president Eric Miller. I had the privilege of visiting Michigan to give a course lecture and a talk at the chapter meeting. They have a vibrant program in nuclear engineering with a group with safeguards and security emphasis lead by Dr. Sara Pozzi, one of our INNMM members, who is one of their faculty advisors. Being a Penn Stater it is hard thing to say, but Michigan has an incredible group of students. However, I must note that Eric Miller did not mention that the double-header seminar speakers, Dr. Robert Mayo and myself, are both Penn State grads from the nuclear engineering program in the 1980s.

Other articles in this issue include updates on:

- [PATRAM 2010](#)
- [4th Workshop on Reducing the Risk from Radioactive and Nuclear Materials](#)
- [INMM 51st Annual Meeting](#)

As always, I look forward to hearing from you. If you have any items you would like to have in the Communicator please forward them to me. We are the Communications Committee! Spreading the news of what is and what goes on in our profession is our mission! Of course, the Communications Committee is still looking for volunteers: drop me a line at [bboyer@lanl.gov](mailto:bboyer@lanl.gov). We are getting ready for the 51st INMM Annual Meeting in Baltimore in July 2010 abstracts will be due Feb. 1, 2010. We are looking forward to your contributions to this meeting.

## Inside Insights



**By Scott Vance**  
INMM Vice President  
E-mail: [savance@tva.gov](mailto:savance@tva.gov)

It is once again my privilege to update you on the recent activities of the Executive Committee. Before I do, however, I want to remind you of several important dates and activities.

First, you should have renewed your membership by now. If you have not done so, remember that you will no longer receive member-only mailings and notifications after the first of the year. Please submit your renewal now if you have not done so.

Believe it or not, it's also time to begin submitting your papers for the 2010 Annual Meeting in Baltimore, Maryland. If you plan to participate in the meeting, make yourself aware of the important deadlines regarding paper submission, which can be found on the INMM Web site ([www.inmm.org](http://www.inmm.org)). The Technical Program Meeting, scheduled for March 2010, will be here soon, and **all abstracts must be submitted by February 1** to be considered for inclusion in the 2010 program.

The INMM Executive Committee met during the first week of December at the site of the 2011 Annual Meeting, the Marriott Palm Desert Resort. In addition to accomplishing the necessary business of the Institute, the EC was also able to tour this facility. This promises to be a great location for our 2011 meeting.

During the meeting, the EC was able to once again pass a budget for our next fiscal year. The 2010 budget reflects the EC's belief that interest in the activities and mission of INMM will remain strong.

The EC had the pleasure of welcoming two new Technical Division chairs and a new Standing Committee chair. With Chris Pickett's election to the office of Institute Secretary, Cary Crawford has assumed the chair of the Materials Control and Accountability Technical Division. After a brief absence of a Waste Management Technical Division chair following the retirement of Ed Johnson, John Veilleux has assumed this role. And, following the retirement of Yvonne Ferris from her role as chair of the Awards Committee, Nancy Jo Nicholas has assumed this role. The EC congratulates all of these new chairs and looks forward to their active participation on the EC.

Several measures were considered by the EC that will serve to strengthen INMM's presence in the international nuclear materials management community.

The Physical Protection Technical Division brought a proposal to the EC for the addition of a Nuclear Infrastructure Security topical area within the division. This new topical area will provide a venue for an even more inclusive look at nuclear facility protection. It will focus on nuclear security more comprehensively to include the counterterrorism and sabotage to power transmission and distribution systems that support nuclear reactors, protection of safety systems from sabotage, and possibly include work on developing and maintaining human reliability programs. Mr. John Yuan-Heng, Taiwan Power, has cordially agreed to form a Standing Committee on Nuclear Infrastructure Security within the Physical Protection Division. The EC welcomes this addition and congratulates the Physical Protection Division for identifying ways to ensure that INMM continues to be involved in all aspects of nuclear materials management.

The EC also took some important steps forward in a completely different area, education and outreach. Anyone who has been following INMM for any amount of time knows that the development of the "next generation" of nuclear materials management professionals is a primary concern of the Institute. With this in mind, the EC decided to team with ESARDA to form a working group to specifically focus on educational and outreach opportunities. Debbie Dickman has agreed to chair this effort.

Ken Sorenson provided the EC with a report from the Strategic Planning Working Group, which has been chaired by Ken Sorenson and has been investigating the possible restructuring of the Institute's Technical Divisions to better reflect the current state of nuclear materials management. The EC thanked Ken and the working group for their efforts to date. Ken agreed to lead a follow-on effort to evaluate a path forward for implementing the plan.

The EC also received reports from most of the Institute's Technical Divisions and Regional/Student Chapters. Of significance, the Vienna Chapter reported that it has elected new officers and is undertaking fresh efforts to revitalize itself.

If you are not currently active in a regional chapter or technical division, I encourage you to become involved. And, if there is anything that I can do to assist you in becoming involved, I look forward to hearing from you. Find more information on our [technical divisions](#) and [chapters](#), along with contact information.

## The 2nd Japan-IAEA Workshop on Advanced Safeguards Technology for the Future Nuclear Fuel Cycle



**By Melissa A. Schear**  
Los Alamos National Laboratory

Melissa Schear at  
Tokai JPARC  
Facility  
*Photo by Brian  
Boyer*

In November, I had the remarkable opportunity to travel to Tokai-Mura, Ibaraki, Japan, to attend the 2nd IAEA-Japan workshop on Advanced Safeguards Technology for the Future Nuclear Fuel Cycle, which was hosted by the Japan Atomic Energy Agency (JAEA). There were representatives from R&D organizations, safeguards inspectorates, the nuclear industry, state systems of accountancy and control, and member states support programs. As a young professional in nuclear safeguards, I appreciated the opportunity to learn more about the range of safeguards technology, to meet other professionals in this field, and to present my research to an experienced and internationally diverse audience.

I learned a great deal from the technical content presented at the workshop. The first three days of the workshop consisted of presentations and discussions covering a wide range of issues, from the current status of safeguards technology development to the foreseen technology and instrumentation needs, as a part of a broader discussion of the use of guidelines and safeguards approaches to aid in future safeguards implementation. It was instructive to hear about experiences and lessons learned in areas such as Joint Use of Equipment and Safeguards by Design. I valued the understanding of how safeguards instrument R&D, which is my focus, fits into the larger safeguards approach. The session titled "Improvement of NDA Technologies for New and Spent Fuel" had two talks, directly related to my research. Another talk, "Recent Developments in Neutron Detection and Multiplicity Counting with Fast Liquid Scintillator," was relevant to my instrument design and performance.

One of the most valuable aspects of attending this workshop was the chance to meet safeguards professionals from several domestic and international organizations. There were several attendees from the IAEA Division of Technical Support, who are responsible for the development and maintenance of safeguards equipment, and there were many who had worked as IAEA and EURATOM inspectors, relating their experiences of safeguards technology implementation at different facilities throughout the world. There were also representatives from the JAEA's Nuclear Nonproliferation Science and Technology Center (NPSTC) and the Japan Safeguards Office (JSGO). A few of us, from the Pu-NDA research effort sponsored by the DOE's Next Generation Safeguards Initiative (NGSI), seized the opportunity to seek a possible

U.S.-Japan collaboration on spent fuel measurements. We met with officials from the Tokai Reprocessing Plant (TRP), NPSTC, and the Quantum Beam Science Directorate (QBSD), and toured the Reactor Fuel Examination facility (RFEF) the day before the workshop began.

There were also tours for the workshop attendees on the last day. We toured the Japan Proton Accelerator Research Complex (J-PARC), a high intensity accelerator facility at the Tokai location of the JAEA with proton beams and secondary particle beams for research areas in material and life science, nuclear and particle physics, and Transmutation R&D. We then toured the Clean Laboratory for Environmental Analysis and Research (CLEAR), which are clean-room facilities to analyze nuclear materials in environmental samples. CLEAR provides support to the domestic safeguards system and is a member of the IAEA network analytical laboratories. Overall, attending this workshop was of great professional and personal worth to me. I experienced the Japanese culture and hospitality, and also learned a lot in the process.



This picture was taken inside the Japan Proton Accelerator Research Complex (J-PARC). Workshop attendees toured the facility on the last day of the workshop

*Photo by Phil Hypes*



CLEAR Facility staff member explains the details of the FT-TIMS environmental analysis sampling method to the tour participants.  
*Photo by Dianna Blair*



## University of Michigan Student Chapter Highlights

**By Eric Miller**

INMM University of Michigan Student Chapter President

We are working our way through our second year here as an INMM student chapter at the University of Michigan. With the help of our faculty advisors Sara Pozzi, Marek Flaska, and Shaun Clarke we continue to have an active student organization with a loyal group of interested students.

Already this year we have had presentations from four speakers. Professor Pozzi gave a presentation, "History of the Discovery of Fission to Today's Challenges in Safeguarding Nuclear Materials," that outlined the historical development of the safeguards problem while also stressing the contributions of women to the development of nuclear science.

Dr. Alan Icenhour from Oak Ridge National Lab presented "Overview of Nuclear Security and Nonproliferation Programs at Oak Ridge National Laboratory." This talk showcased the research and opportunities for students at the lab.

A special double-header seminar event was also arranged with Dr. Brian Boyer and Dr. Robert Mayo. Dr. Boyer gave a presentation on "Uranium Enrichment: A Short History of Theory, Production Plants, and Safeguards," which gave an excellent overview of the development of enrichment technology and also outlined the current developments and new technologies that are currently being deployed and investigated for large scale enrichment.Â

Dr. Mayo presented on "Overview and Opportunities in Radiation Detection for National Security." This presentation outlined the career opportunities for students at the Johns Hopkins Applied Physics Laboratory and also outlined some of the research projects and capabilities of the lab.



Picture taken at the November 18, 2009, meeting of the University of Michigan Student Chapter Meeting From left: Jennifer Dolan, Dr. Boyer, Dr. Mayo, Eric Miller, Amber Donley



This year we were also able to have two students present at the Central Chapter Meeting, both placed in the student paper competition, Jennifer Dolan received first place and Eric Miller received second. Also at this meeting Professor Pozzi received a well deserved Special Service Award for her work in helping to establish the University of Michigan Student chapter.



Central Chapter Meeting student paper competition winners. From left Eric Miller, Tereasa McKinney, Jennifer Dolan and Terrance McGuire

We are always interested in recruiting speakers to come to our meetings, so if you are willing to brave the Michigan winters, please let us know!

The Executive Committee for the Student Chapter at the University of Michigan:

President: Eric Miller

Vice-President: Jennifer Dolan

Treasurer/Secretary: Patricia Schuster

Publicity: David Genevich

Communications: Amber Donley

UMEC: Cameron Bates

## **PATRAM 2010**

### **The 16th International Symposium on the Packaging and Transportation of Radioactive Materials**

October 3-8, 2010

The International Maritime Organization -- IMO  
London, UK

Learn more at [www.patram2010.org](http://www.patram2010.org).

**PATRAM** symposia are the major international conferences dedicated entirely to the exchange of information on the future of packaging and transport of radioactive materials and, therefore, present a unique opportunity for the entire professional community including industry, government, inter-governmental and research organizations to look to the horizon in relation to these issues.

**PATRAM 2010** is hosted by the Department for Transport of the United Kingdom, in cooperation with the International Atomic Energy Agency, the International Maritime Organization and the World Nuclear Transport Institute.

#### Important Dates

Abstract Submission Deadline	January 31
Abstract Notification	April 30
Early-bird Registration Deadline	May 31
Author Registration Deadline	June 30

## International Safeguards Technical Division

The International Safeguards Technical Division (ISD) completed a banner year in July 2009, serving the international safeguards community through INMM involvement with the continuing important developments in international safeguards and nonproliferation. This report highlights the ISD activities.

### **International Safeguards at the 50th INMM Annual Meeting**

The 50th Annual INMM Meeting in Tucson, Arizona, July 12-16, 2009, proved to be a grand celebration concluding INMM's 50th anniversary year. ISD was especially gratified with the excellent Opening Plenary and Closing Plenary sessions. Olli Heinonen, deputy director general and head of the Department of Safeguards at the International Atomic Energy Agency (IAEA), gave the meeting a good sendoff with his fine talk, "*20/20 Vision: the Future of international Safeguards.*" And Hans Blix, former director general of IAEA and head of the United Nations Monitoring, Verification and Inspection Commission for Iraq (UNMOVIC), provided a memorable closing to the 50th Annual Meeting, touching many of his listeners with his thoughtful talk, "*Can We Now Move Toward Peace and Disarmament?*"

ISD organized **Special Sessions** on eight topics in 13 sessions at the 2009 INMM Annual Meeting.

In the Special Session on **The Next Steps in International Safeguards**, authors of articles in the special summer *JNMM* issue on that topic (see below) made presentations. There were 11 presentations in two sessions by Kaoru Naito, *Japan*; John Carlson, *Australia*; Michael Rosenthal, *U.S.*; Gleb Efremov, *Russian Federation*; Stamatios Tsalas, *European Commission*; Trond Bjornard, *U.S.*; Jill Cooley, *IAEA*; James Casterton, *Canada*; Jacques Baute, *IAEA*; Richard Wallace, *U.S.*; and Jim Larrimore, *U.S.*

ISD assisted the INMM Japan Chapter with the special session on **Safeguards in Japan: Achievements and Challenges**, which marked the Japan Chapter's 30th anniversary, as well as the INMM's 50th anniversary. The session was divided in two parts, chaired by Yoshinori Meguro and Masao Senzaki, Japan; and by Shirley Johnson, U.S. and Jill Cooley, IAEA. It included presentations on *Japan's Efforts Toward Achieving Effective and Efficient IAEA Safeguards*; *The J-MOX Project*; *IAEA's Efforts for Safeguards Technology Development*; *Safeguards Implementation at Rokkasho Nuclear Fuel Cycle Facilities*; and *Future Challenges and DOE/NNSA-JAEA Cooperation for the Development of Advanced Safeguards*.

The Special Session on **Global Safeguards R&D** was co-chaired by Haeok Lee, U.S., and Willem Janssens, Joint Research Centre, European Commission, Italy. The session was very well attended and included six high-quality presentations from ABACC, Australia, European Union (through ESARDA), Republic of Korea, Russian Federation, and United States. The presentations were followed by a panel discussion in which the speakers participated, joined by representatives from the European Commission, France, Germany, Denmark, Finland, the U.S. and the IAEA. Two main points emerged during the panel debate: 1) the need to have a cross-disciplinary approach to safeguards, bringing together people from different horizons and disciplines, especially when seeking to detect undeclared activities or facilities, and the need to

use an international collaboration in this area, and 2) the need to have R&D not only in the hardware and technical field but also R&D in the areas of collection and analysis of data and soft skills (like observation, negotiations, investigation, team-work, etc).

The special session on **Next Generation Safeguards Initiative** (NGSI), chaired by Mark Whitney, U.S. DOE, addressed the major new initiative of the Office of Nonproliferation and International Security (NA-24) in the National Nuclear Security Administration (NNSA). Its goal is to strengthen international safeguards by revitalizing U.S. technical assets and leveraging partnerships to keep pace with the demands and challenges posed by a growing global interest in nuclear energy. It emphasizes development of both technology and human expertise. The session began with an overview, included mention of upcoming events, and closed with time for questions and answers. The presentations made were: *NGSI: Program Overview and Progress Update*; *NGSI: Human Capital Development*; *International Collaborations in Process Monitoring*; *Development of LIBS for Safeguards Applications*; *ABACC's implementation of safeguards at the Brazilian gas centrifuge uranium enrichment plant at Resende*; *Nuclear Safeguards Infrastructure Development: Technical Assistance to the Vietnam Atomic Energy Commission*; and *Nuclear Safeguards Infrastructure Development: Technical Assistance to the Vietnam Agency for Radiation and Nuclear Safety*. This session had room for less than half of the papers describing NGSI activities presented at the 50th Annual INMM Meeting.

The special session on **MOX -- What does the Future Hold?** provided a forum for discussing the planned future for global use of the MOX fuel cycle, including relevant safeguards and nonproliferation issues. The well-attended session attracted a number of international participants, including from France, Japan, Korea, Great Britain, Australia, United States, and the IAEA. The subject matter ranged from historical accounts to future plans, with the specifics ranging from safeguards to the overall national fuel cycle.

The session was divided into two sub-sessions with one session focused on MOX policy and the nuclear industry, chaired by Scott DeMuth, U.S., and Yusuke Kuno, Japan, and the other on nonproliferation and safeguards issues, chaired by Trond Bjornard, U.S., and Caroline Jorant, France.

**Process Monitoring** was featured at the 2009 INMM Annual Meeting in a two-part special session and in several other presentations. **Part I** on Solution-Based Monitoring focused on current realities in the monitoring of the transport of solutions through reprocessing plants. The co-chairs, John Howell, U.K., and Mike Ehinger, U.S., presented their ideas for advancing the application of process monitoring. Other presentations were given by Tom Burr, Hironobu Nakamura and Claire Longo. **Part II** on Non-Solution Based Applications, chaired by Tom Burr, U.S. and Mark Schanfein, U.S., focused on broader types of process monitoring. Seven papers were presented by Ben Cipiti, David Beddingfield, Sam Bryan, Michael Green, Jon Schwantes, James Henkel and Kosuke Yamaya.

In the two-part special session on **Design Information Verification**, Martin Moeslinger, IAEA, chaired one session and Joao Goncalves, European Commission (EC), chaired the second. DIV is becoming increasingly significant as nuclear fuel cycle facilities grow in size, complexity, and flexibility. The wide interest was indicated by the twelve papers were presented and a lively

panel discussion. Presenters and panelists were from ABACC, the EC Joint Research Center-Italy, EC-Luxembourg, France, IAEA, the UK and the U.S. The primary issues addressed were the continuing need for enhanced DIV methods, the responsibilities of and the impact on facility designers and operators, and the importance of operator cooperation when DIV is performed.

A two-part special session addressed **Safeguarding Gas Centrifuge Enrichment Plants**. Orpet Peixoto, ABACC, chaired one session, and Peter Friend U.K., chaired the second. Thirteen papers were presented, with authors from Australia, IAEA and the United States.

**Further IS Technical Sessions.** The Annual INMM Meeting also included a wide-ranging set of international safeguards technical sessions. These sessions addressed *Safeguards Policies, Issues and Challenges* (Chair: Kaoru Naito, Japan); *State-Level and Integrated Safeguards* (Chair: Therese Renis, IAEA); *U.S. Additional Protocol Implementation* (Chair: Michael Rosenthal, U.S.); *Safeguards Information: Satellite Imagery and Environmental Sampling* (Chair: Jacques Baute, IAEA); *Advances in Safeguards Implementation* (Chair: John Begovich, U.S.); *Containment and Surveillance, and Unattended and Remote Monitoring* (Chair: Gotthard Stein, Germany); *Nonproliferation and Safeguards Human Capital Development* (Co-chairs: Dunbar Lockwood, U.S. and Willem Janssens, European Commission); *and Nonproliferation; Safeguards Training - Programs and Results* (Co-Chairs: John McClelland-Kerr, U.S., and Roger Blue, U.K.); *Safeguarding Spent Nuclear Fuel* (joint with WM) (Chair: Stamatios Tsalas, European Commission); *Spent Fuel Measurements* (joint with MCA and WM) (Chair: David Bracken, U.S.); *and Measuring Radionuclide Content in Spent Nuclear Fuel* (joint with MCA and WM) (Chair: Gus Caffrey, U.S.).

If there were any complaints from the international safeguards community about the 2009 INMM Annual Meeting, it was that there were so many interesting sessions and papers that it was impossible to attend everything that one would have wished.

**2009 ISD Divisional meetings:** Vilnius, Lithuania, May; Tucson, AZ, July.

At the ESARDA Symposium in Vilnius, Lithuania, (May 26-28, 2009), a successful ISD meeting was held on May 25, chaired by ISD Chair Jim Larrimore, and followed by a congenial dinner attended by more than 25 people. Safeguards on final disposal of spent fuel was the main topic, introduced with presentations by *Goran Dahlin*, SSM, Sweden, and *Elina Martikka*, STUK, Finland, reporting good news about the now ongoing good cooperation between IAEA, the European Commission and STUK on safeguards for the Onkalo geological repository project. There was a lively discussion about this new type of nuclear facility, which is moving closer to coming under international safeguards. *Michel Richard* gave an impressive update on safeguards and nonproliferation developments in France in response to the growing nuclear renaissance. Also discussed was the news of the day on the second nuclear test by DPRK. At the 2009 ESARDA Symposium in Vilnius, Lithuania on May 26, 2009, Jim Larrimore presented a report on the results from the 2008 Workshop.

There was a large turnout to the International Safeguards Division (ISD) meeting on Sunday afternoon, July 12, before the opening of the 50th Annual Meeting of the INMM. Jim Larrimore chaired the meeting, which started with Ollie Heinonen, IAEA DDG-SG, talking informally about current hot topics for the IAEA. Although Syria was the nonproliferation case on which he

focused, Mr. Heinonen's key message was that the real challenge for the IAEA is the next nonproliferation challenge: events have been unpredictable and surprising.

That discussion was followed by reports on safeguards developments from around the world: Stamatios Tsalas (Europe), Odilon Marcuzzo do Canto (ABACC), John Carlson (Australia), Kaoru Naito (Japan), and Michel Richard (France). Gotthard Stein talked about the preparations for the 2010 NPT Review Conference. After a preview of the many ISD special sessions during the 50th Annual Meeting, the next feature topic was a presentation by Ken Sorenson concerning the progress of his ad hoc working group, which is assisting the INMM with strategic planning.

The object is to see how INMM can best meet the needs of the industry and the membership with a time horizon of the next five to 10 years. The working group began in April, and is aiming to have recommendations to the INMM Executive Committee at its December 2009 meeting. The final topic of the division meeting was a review of the work in the area of education and training, given by Debbie Dickman. The effort has been a joint collaboration of INMM and ESARDA, an initiative begun at the INMM/ESARDA Santa Fe Workshop in 2005 and given a big boost at the Joint Tokyo Workshop in October 2008.

#### **2008 INMM/ESARDA Tokyo Workshop follow-up**

ISD organized the 6th INMM-ESARDA Workshop, held on October 6-9, 2008, at The International House of Japan in Tokyo, Japan, with the Japan Chapter of INMM and ESARDA. The INMM Korea Chapter also cooperated in the Workshop organization. The Non-proliferation and Arms Control Division participated in developing a Working Group program, and Mark Leek, Chair, Student Activities Committee, organized a Working Group program on nonproliferation and safeguards education.

The topic of the 2008 Tokyo Workshop was "*Meeting Safeguards Challenges in an Expanding Nuclear World*" with the main themes: *Safeguards Implementation and State Evaluation, Technical Progress* – “*The Safeguards Toolbox, Safeguards and Nonproliferation Policy and Institutional Issues, and Safeguards and Nonproliferation Academic and Training Programs*. The Working Group reports from this workshop are posted on the INMM Web site. The CD Proceedings for the Workshop has been prepared and distributed by ESARDA. ISD has been supporting follow-up on the Action Plan proposed on education and training by Working Group 4.

#### **Special Summer 2009 issue of JNMM**

ISD organized a special Summer 2009 issue of *JNMM* on the topic "*The Next Steps in International Safeguards*," with a view to the 2010 NPT Review Conference. The 114-page issue opens with a Foreword by Olli Heinonen, Deputy Director General for Safeguards, IAEA, and in 13 articles covers a broad scope of safeguards and nonproliferation, with authors from Australia, Canada, Germany, Japan, Russian Federation, United States, IAEA, and the European Commission. The special issue was distributed at the 2009 INMM 50th Annual Meeting, where most of the authors presented their articles in a two-part special session. Copies of the special Summer 2009 *JNMM* issue were distributed to IAEA Member State Missions in Vienna at the beginning of September 2009 with the assistance of Jill Cooley at the IAEA.



**ISD Management and Outreach.**

Ana Claudia Raffo Caiado joined the ISD Management Team in August 2009, with Michael Whitaker moving over to the INMM Executive Committee. An overview of the International Safeguards Division and a comprehensive tutorial on international safeguards is posted on the INMM Web site.

*Jim Larrimore, Chair, INMM ISD; Gotthard Stein, Vice Chair, INMM ISD; George Baldwin, Ana Claudia Raffo Caiado, Susan Pepper, Mark Schanfein and Marius Stein, ISD Management Team*

## Member News



**By Albert G. Garrett**

Chair, Membership Committee

Member at Large, INMM

E-mail: [albert.garrett@pnl.gov](mailto:albert.garrett@pnl.gov)

Yes, it's that time of year; membership renewal time! If you haven't done so already, please renew your INMM membership online as soon as possible to prevent unnecessary INMM expenses due to mailing notices and reminders. It's easy, fast, and secure to renew online; just go to [INMM.org](http://INMM.org) and login to the Member's Only section. If you haven't yet established your member account, that's also easy and fast.

I hope you've marked your calendars for the next Annual Meeting scheduled for July 11-15, 2010, in Baltimore, Maryland. This year's INMM Annual Meeting held July 12-16, 2009, in Tucson was a resounding success. See you at the next Annual Meeting!

The Membership Committee has filled two vacancies since the last edition of the *Communicator*. Both John Oyer, United States Enrichment Corporation, and Mark Schanfein, Idaho National Laboratory, have agreed to serve on the Membership Committee. Since the last *Communicator* in August 2009, the Membership Committee has reviewed and recommended approval of 15 [Regular members](#), seven [Student members](#), and one [Sustaining member](#) applications; they are listed below.

As always, if you find the name of a colleague on the list below, be sure to welcome them and let them know of the ways that you find your INMM membership valuable. And, remember to keep your own contact information up to date in our online directory. Modifying the database to reflect your most recent contact information is easy and takes only a few minutes. Your changes will be reflected in the online directory automatically.

I welcome news (and photographs, if you wish) to keep your colleagues informed about any INMM member, including you. Send any items of interest to me at [albert.garrett@pnl.gov](mailto:albert.garrett@pnl.gov) or our *Communicator* Editor, Brian Boyer, at [bboyer@lanl.gov](mailto:bboyer@lanl.gov).

**New Members** (Since the last edition of the *Communicator*):

Xavier Ascanio  
David Carroll  
Lisa Cobb  
Camille de Walder

Charles Dye  
Jeff England  
Joseph Longo  
Trisha Luccero  
Carlos Maria Oivieri  
Mark Pierson  
Katherine L. Smith, PhD  
Wendin D. Smith, PhD  
John Stanke  
Temeka Taplin  
Jeremy Underwood

**New Student Members** (since the last edition of the *Communicator*)

Rishin Behl  
Loc Le  
Tamara Patton  
Christopher Ryan  
Timothy Schriener  
Paul Ward  
Erik Woloszczuk

**New Sustaining Members** (since the last edition of the *Communicator*)

Sellafield Ltd., William Thomas Stanley, MSc

## **INMM 51st Annual Meeting**

**July 11-15, 2010**

Baltimore Marriott Waterfront Hotel

Baltimore, MD USA

**Abstract Submission Deadline: Feb. 1, 2010**

[Submit your abstract today!](#)

To be considered for inclusion in the 51st Annual Meeting program, your abstract must be received by INMM by Feb. 1, 2010. Download the [Call for Papers](#) or [click here to learn more](#).

Download the [Session Organizers Guide](#).

Note on New Topical Area

The Physical Protection Technical Division has created a new topical area, **Nuclear Infrastructure Security**. Anyone wishing to participate in this topical area and present papers at the INMM 51st Annual Meeting in July 2010 in Baltimore, MD USA, are urged to contact [David Lambert](#) and [Jodi Metzgar](#) as soon as possible.

<b>Important Dates</b>	
February 1	Abstracts Due
<b>April 10</b>	Speakers will be notified by e-mail of acceptance
<b>May 22</b>	Presentation Changes and Withdrawals Deadline
June 9	Final Papers Due
<b>June 9</b>	Speaker Registrations Due
<b>August 6</b>	Panel Discussion Summaries Due

## Fourth Annual Workshop on Reducing the Risk from Radioactive and Nuclear Materials

Feb. 2 & 3, 2010

Crystal Gateway Marriott  
Washington, DC USA

- [View the Schedule of Events](#)
- [Register Now](#)

The Nonproliferation and Arms Control Technical Division of the Institute of Nuclear Materials Management (INMM) is pleased to invite you to the fourth in a series of workshops on reducing the risk from Radioactive and Nuclear Materials.

This workshop will examine issues and best practices associated with:

- Secure Transportation of Radioactive Materials
- Addressing Radioactive Materials Trafficking
- The Impacts of UNSCR 1887 on Nuclear Security
- Verification of the Nuclear Nonproliferation Treaty (NPT) Article VI

Participants will discuss technology gaps, policy gaps, and prioritization for addressing the identified gaps.

### Registration Fees

INMM Members	\$350
INMM Sustaining Members	\$300
Nonmembers	\$375
Students	\$100
One-Day Only	\$275

Advance online registration ends **Jan. 14, 2010**. After Jan. 14, 2010, you must register at the workshop. Registrations received after Jan. 14, 2010, will not be included in the participants list distributed at the workshop.

<b>For registration information:</b> INMM Headquarters 111Deer Lake Road, Suite 100	<b>For program information:</b> Ruth Duggan P.O. Box 5800, MS-1375
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