INSTITUTE OF NUCLEAR MATERIALS MANAGEMENT

ANNUAL BUSINESS MEETING
ATLANTA MARRIOTT MARQUIS
ATLANTA, GEORGIA
TUESDAY, JULY 22, 2014
6:30 – 7:30 P.M.

AGENDA

1. Call to Order
   Sorenson
2. Approval of Minutes
   Pickett
4. President’s Report
   Sorenson
5. Financial Report
   Curl
6. Election Report
   Pickett
7. Committee Reports
   Satkowiak
8. Chapter Reports
   Satkowiak
9. Technical Division Reports
   Vance
10. New Business
    Sorenson
    a: Recognition of Sustaining Members
    b: Recognition of New Senior Members
    c: Resolutions of Respect
11. Drawings for Two Complementary 2015 Memberships
    HQ
12. Adjournment
ANNUAL BUSINESS MEETING MINUTES
Tuesday, July 16, 2013
6:00 – 7:00 p.m.

Call to Order
The 54th Annual Business Meeting of the Institute of Nuclear Materials Management, an Ohio nonprofit corporation, convened on July 16, 2013 at the Desert Springs JW Marriott in Palm Desert, CA, after notification to all members. President, Ken Sorenson announced that a quorum was present and called the meeting to order at 6:02 p.m.

Approval of Minutes
Chris Pickett, Secretary, read an abbreviated version of the minutes of the 53rd Annual Business Meeting held July 17, 2012. The minutes were approved.

President’s Report
President Ken Sorenson highlighted INMM’s year in review and reported on upcoming events. INMM’s membership number stands at 1305, which represents a slight increase from the total membership number reported in last year’s Annual Report. Despite the Officers and members of the Executive Committee (EC) working diligently to request the DOE to relax the OMB guidance for conference attendance, the efforts were unsuccessful and sequestrations limited conference attendance by about 50% of the previous year’s attendance. The Institute has been successful due to its careful stewardship of finances and the many volunteers that serve it faithfully. Ken Sorenson thanked several leaders that stepped down from their positions this year: James Larrimore as Chair of International Safeguards Division, John Matter as the Chair of the Chapter Relations Committee, Arden Dougan as the Bylaws Committee Chair, Richard Rawl as the Chair of the N14 Technical Standards Committee, and Debbie Dickman as Chair of the Education & Training Committee. Successors have been identified for all these positions. In addition, he thanked Joyce Connery for her service as the Interim Chair of the Nonproliferation & Arms Control Division and Brian Boyer as Chair of the Communications Committee. Both individuals will assume their new role as Members at Large on the EC.

Financial Report
Treasurer Robert Curl reported that the Institute’s total assets as of September 30, 2012, were $994,414. These assets included $169,669 in operating funds, $754,111 in reserves, and $70,634 in prepaid expenses/accounts receivable/other. The associated liabilities were $28,392 resulting in net assets of $966,022. The fiscal year 2012 gross income was $840,452 and the associated expenses were $906,655, resulting in a net loss of $66,203 for the fiscal year. The fiscal year 2013 budget was established at a projected income of $1,394,160 and expense of $1,405,670, which results in a deficit of $11,510. As of May 31, 2013, the actual income and expenses were following the budget projections. The financial report was accepted for file.

Secretary’s Report
Chris Pickett revealed the Bylaws change that was voted on the past year by the membership now allows Emeritus members to stay involved and be able to vote. Chris also announced the results of the 2013 fiscal year election of Officers and Members at Large. This was the seventh year for online balloting and it received a great response. We hope that those who voted found it easy to participate in the balloting process. Voting notification with instructions on how to access the online voting were sent, by e-mail or post to each of the 975 eligible Institute members of which 261 voted online or requested and returned paper ballots by the deadline. The number of members voting this year was down from last year.

As a result of the balloting, the Officers and Members at Large constituting the INMM Executive Committee beginning October 1, 2013 are:

President
Ken Sorenson

Vice President
Lawrence Satkowiak

Secretary
Chris Pickett

Treasurer
Robert Curl

Members at Large:
Brian Boyer
Joyce Connery
Mark Schanfein
Steve Wyrick

9/30/15
9/30/15
9/30/14
9/30/14
Committee Reports
Vice President Larry Satkowiak noted that the committee reports were included in the 2013 Annual Report to the Membership and proceeded to highlight various activities. The reports submitted show dynamic growth within INMM and continuing efforts association wide. The Strategic Planning Committee with Jack Jekowski as Chair, is always looking for new ideas. Melanie May with the INMM Accredited Standards Committee N15 worked on the ANSI audit and passed it.

Chapter Reports
Vice President Larry Satkowiak stated that Chapter reports could be found in the 2013 Annual Report to the Membership. Currently there are 30 Chapters of the Institute, six being U.S. Regional, ten being International and fourteen being student. Of the 30, the Executive Committee recently approved a charter for a student chapter in India.

Technical Divisions Reports
Past President Scott Vance acknowledged that the Technical Division reports were included in the 2013 Annual Report to the Membership. Nonproliferation & Arms Control and Packaging, Transportation, and Disposition (PTD) reports were not included in the Annual Report to the membership but both divisions provided reports at the EC meeting at the Annual Meeting. The PTD focused on how successful the January 2013 Spent Fuel Seminar was with over 130 attendees and stated that registration for PATRAM 2013 was already well over 500 attendees. Scott announced that Michael Whitaker is now the International Safeguard Division Chair, taking over from James Larrimore.

Old Business
There was no old business.

New Business
The floor was opened for new business.

Recognition of Sustaining Members
Vice President Larry Satkowiak recognized the Sustaining Members of INMM and announced the two newest Sustaining Members: Quaesta Instruments and LLC and Tech Source Inc.

Recognition of New Senior Members
Ken Sorenson also recognized eight new Senior Members, and presented to each of them their Senior Member certificate.

Golf Tournament
Obie Amacker organized the annual golf tournament on site and indicated there were 25 participants this year.

First Place Team
Howard Hall
Hamza Tahir
Muhammad Tahir
Craig Williamson

Charity Run/Walk
Ken Sorenson announced that there were 34 participants in the 3K Charity Run/Walk.

Under 40 group
Male – Rian Bahram
Female – Leslie Johnson

40 – 59 group
Female – Debbie Vance
Male – Tapani Honkamaa

60 and up
Female – Diana Mangan
Male – Markku Koskelo

Free 2014 Membership Drawings
Both James Larrimore and Joyce Connery were the recipients of a free one-year regular INMM membership in the membership drawing.

There being no other business, the Annual Business Meeting adjourned at 6:43 p.m.
The State of the Institute

In my President’s report to the membership at the 2013 Annual Business Meeting, I described the current times as financially challenging in that our budget revenue projections were not meeting actual costs for the Institute. By now, hopefully everyone is aware of the severe impact the U.S. Government’s travel and conference attendance restrictions for participants supported by a government agency has had on the INMM. While we make conference arrangements three to four years in advanced, based on past and current attendance levels, the immediate restrictions for conference attendance for 2012 and 2013 created a double-whammy for us. Our conference participation was down (revenue) while our conference expenses increased (costs). We did not meet our conference hotel minimums on rooms rented or on food and beverage. The Treasurer’s Report provides an excellent overview of finances for INMM. I encourage you to read it.

We believe that 2013 was a low point for the INMM with regard to annual meeting participation. Numbers are substantially higher than last year. At the time of this writing, our registration numbers are at 568 compared to 396 at the same time last year (first week in July). We booked 100% of our committed room block for the hotel. Revenue for our Exhibits, Sponsorships, and Advertising are near, at, or above what was budgeted.

What is causing the turnaround? Fundamentally, U.S. government agencies recognize that technical organizations such as the INMM serve a very useful and important purpose in advancing the state of knowledge in nuclear materials management, bringing together professionals from around the world to engage in important collaborations, engaging and encouraging new interest in this important field through the establishment of regional and student chapters, and maximizing efficiencies in bringing together groups of professionals to one location who work on specific projects.

While things do look better, we believe the turnaround will be slow. Because of this, we are being prudent with our budget planning and how we stage the annual meeting to reduce our costs with the expectation that our registration numbers would improve only incrementally. The biggest visible adjustment is the elimination of the banquet. The Speaker’s Breakfast has also been changed (no breakfast). The number of sponsored luncheons and receptions for various INMM committees and groups has also been reduced. These events, which have a large food and beverage component, are significant cost leaders. In making these kinds of changes, the Executive Committee has been careful not to jeopardize the technical content of the conference while addressing the important cost components of the annual meeting. The balance is tricky and we will continue to structure the annual meeting in ways that preserve the technical integrity while honoring the traditional aspects of the INMM Annual Meeting. As things improve, we do hope to put back some of the events that have been taken out of this years meeting.

What is the State of the Institute?

- Thanks to careful stewardship of our finances over the years, we have a reserve of funds that will carry us through these difficult times. Immediately after the Annual Meeting, the EC will begin work on the FY15 budget. As this process evolves and we get a sense of how the 55th Annual Meeting performed from a financial point of view, the EC will make decisions regarding the structure of the 56th Annual Meeting.
- We have a technical and policy relevance that provides the foundation of our mission. This relevance is important and will sustain us through these times and will be the engine for future growth.
- Our workshops provide a forum for extending the reach of INMM past the Annual Meeting. We will continue to encourage workshops as a way to demonstrate relevance to the international nuclear materials management community.
- We continue to be active internationally through our chapters and through partnerships with the European Safeguards Research and Development Association (ESARDA) and the World Institute for Nuclear Security (WINS).
- We are managing leadership transitions in light of a fair number of retirements over this past year. These new leaders will add new perspectives that will meld well with our existing leadership.
• We have strong management support through the Sherwood Group. These professionals are an important part of our management team.

Leadership Transitions

Here is an overview of 2014 leadership transitions:
• Ruth Duggan had to step down as a Member-at-Large and Steve Wyrick stepped up to fulfill her role.
• Shirley Cox retired and stepped down as the Chair of the Facilities Operations Division. Morris Hassler has taken over as the Chair. Morris is a longtime member of INMM and of the Facilities Operations Division.
• Joyce Connery was elected as a Member-at-Large on the Executive Committee beginning in Oct 2013. She was the acting Chair of the Nonproliferation and Arms Control Division. When Joyce assumed her EC role, she stepped down from her acting Chair position and Mona Dreicer assumed the Chair of the Division.
• Al Garrett, Chair of the Membership Committee, has accepted a position at the IAEA in Vienna and has stepped down as Chair. Michelle Romano, a longtime member of INMM and the Membership Committee has stepped up in this role.
• George Baldwin has assumed the Chair of the Communications Committee and took over this role when Brian Boyer assumed his elected Member-at-Large EC position.
• Steve Ward is now the Chair of the Education and Training Committee.
• Markku Koskelo is the Chair of the Exhibits Committee.

The membership at large owes these leaders a big “Thank You” for the time, effort, and leadership that they individually gave to the INMM. As group, they represent decades of sustained leadership and helped position the INMM as a strong institute that is critical to the future of global nuclear materials management. Thank you!

The Year Ahead

In many ways, the year ahead will be business as usual. We will continue to encourage workshops, we will work to strengthen and grow our chapters, we will engage on a global scale, and we will work through our Division and Committee structure to conduct the business of the INMM in a way that addresses our current situation, but also looks to the future.

I am delighted to point out that we have three new chapters; the South Africa Chapter, the India Pandit-D-P University Student Chapter, and the Morocco University of IBN Tofail (UIT) Student Chapter.

The 2014 Annual Meeting

From the Sunday Division meetings, to the Sunday evening President’s Reception, to the Opening Plenary session, the technical sessions, the poster sessions, the various committee meetings, and the Closing Plenary, we are confident that this meeting will once again provide an enriching experience for all our Annual Meeting participants. Enjoy!
As of September 30, 2013, the Institute of Nuclear Materials Management’s total assets were $905,012. These assets included $285,670 in operating funds, $604,954 in reserves, and $14,388 in prepaid expenses/accounts receivable/other. The associated liabilities were $130,419 resulting in net assets of $774,592.

The FY 2013 gross income was $1,120,238 and the associated expenses were $1,293,163, resulting in a net loss of $172,925 for the fiscal year.

As many of you know, 2013 was a very difficult year financially for the INMM. There were a number of factors contributing to that, but the unforeseen severe government travel restrictions were perhaps the greatest factor. To our good fortune, INMM hosted the 2013 PATRAM Symposium which reduced our net loss for the year. Without PATRAM, our 2013 net loss would have been $304,428. The INMM Executive Committee started working the 2014 budget right after the Annual meeting last year, realizing substantial changes would need to be made in order to remain fiscally solvent in 2014 and the foreseeable future. Sherwood assisted by reducing their 2014 management fee. There were many drastic changes to the Annual Meeting as well as other committee and chapter activities. In the end, the EC developed a greatly reduced INMM budget that retained the core technical values of the INMM. The 2015 picture appears to be improving with a gradual easing of travel restrictions and growing international participation; however, it may take several years before we are able to restore some of the items cut from the budget.

The FY 2014 budget was established at a projected income of $670,920 and expense of $666,900, which results in a small net income of $4,020. As of May 31, 2014, the actual income and expenses were following the budget projections, with an anticipated increase in this year’s Annual Meeting attendance. A breakdown of FY 2014 income and expense projections, by major category, is presented below.

### Income:

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Dues</td>
<td>$96,000</td>
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<tr>
<td>Memorial/Education Fund</td>
<td>$1,000</td>
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<td>Journal</td>
<td>$15,800</td>
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<td>Annual Meeting</td>
<td>$415,575</td>
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<td>Proceedings</td>
<td>$1,825</td>
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<tr>
<td>Dividends and Interest</td>
<td>$800</td>
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<td>Spent Fuel Monograph</td>
<td>$270</td>
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<tr>
<td>Web Site Job Listings</td>
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<tr>
<td>PATRAM 2013 Proceedings</td>
<td>$1,000</td>
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<tr>
<td>Other Workshops and Topical Meetings</td>
<td>$138,450</td>
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<td><strong>Total Income</strong></td>
<td><strong>$670,920</strong></td>
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</table>

### Expenses:

<table>
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<tr>
<th>Item</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Society Headquarters</td>
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<td>Journal</td>
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<td>Annual Meeting</td>
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<td>Proceedings Archive</td>
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<td>Administration</td>
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<td>Technical Committee Support</td>
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<td>Standing Committee/Chapter Support</td>
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<td>Technical Division Support</td>
<td>$4,550</td>
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<td>PATRAM Web Site</td>
<td>$1,200</td>
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<tr>
<td>Other Workshops and Topical Meetings</td>
<td>$79,540</td>
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<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$666,900</strong></td>
</tr>
</tbody>
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Any INMM Member wishing to obtain a copy of the FY 2013 year-end financial statement may do so by contacting Robert Curl, INMM Treasurer, or Jodi Metzger, INMM Executive Director.
Balloting Results 2014:
Election of Executive Committee

According to INMM bylaws, “the Secretary shall notify each member in good standing of the results of the election before October 1 of each year”. This notice in the Annual Report, the Communicator, and the Journal is construed as having met that obligation. In accordance with the bylaws, the Nominating Committee selected the following candidates for Officers and Members-at-Large of the INMM Executive Committee.

President – Lawrence Satkowiak
Vice President – Corey Hinderstein
Secretary — Chris Pickett
Treasurer — Robert Curl

Members-at-Large:
- Cary Crawford
- Claudio Gariazzo
- Houston Wood
- Steven Wyrick

We hope that those who voted found it easy to participate in the balloting process. Voting notification with instructions on how to access the online voting was sent, by e-mail or post to each of the 1042 eligible Institute members of which 194 voted online or requested and returned paper ballots by the deadline. The number of members voting this year was down from last year. As a result of the balloting, the Officers and Members-at-Large constituting the INMM Executive Committee beginning October 1, 2014 is as follows:

President – Lawrence Satkowiak
Vice President – Corey Hinderstein
Secretary — Chris Pickett
Treasurer — Robert Curl

Members-at-Large:
- Brian Boyer 9/30/15
- Joyce Conne ry 9/30/15
- Cary Crawford 9/30/16
- Steve Wyrick 9/30/16

Immediate Past-President — Ken Sorenson
Japan Chapter Designate
Korean Chapter Designate
Vienna Chapter Designate

There were write-in votes for the following:

President
None

Vice President
Cary Crawford, Jill Cooley, Joseph Stainback, Gotthard Stein

Secretary
Obie Amacker, Michael Whitaker, Frank Lamb, Susan Pepper, Jess White-Horton

Treasurer
Grace Thompson, Obie Amacker, Eric Smith

Member-at-large
George Baldwin, Ken Sanders, Kirby Amacker, DL Whaley, Matthew Sternat

We wish continue to encourage members to recommend candidates to the Chair of the nominating committee. It has been the practice of the nominating committee to select candidates who have had INMM involvement in committees or chapters, who are generally familiar with the overall operations of the INMM and have a working knowledge of the Executive Committee. Candidates for the Executive Committee may also be nominated for any of the elective offices or positions by fifteen (15) members who submit a petition to the Secretary. (See INMM Bylaws for details)

We urge all members to review the INMM structure and Chapter activities to find an activity in which they can become involved.

Minutes of the 2013 Annual Business meeting are included in this Annual report.
TECHNICAL STANDARDS N14
Matt Feldman, Chair

July 2014
Packaging and Transport of Radioactive and Non-Nuclear Hazardous Materials

Standards Activities

N14.1-2012 – Packaging of Uranium Hexafluoride for Transport - Published
ANSI Headquarters approved the N14.1 Standard on December 3, 2012. This standard is now available from ANSI Headquarters as an electronic file and also available as an electronic file from the N14 Secretary.

N14.5-2014 – Leakage Tests on Packages for Shipment
ANSI Headquarters approved the N14.5 Standard on June 19, 2014. This standard will soon be available from ANSI Headquarters as an electronic file and will also soon be available as an electronic file from the N14 Secretary.

N14.6-201X – Special Lifting Devices for Shipping Containers Weighing 10,000 Pounds (4500 kg) or More for Nuclear Materials
The individual that was leading the resolution of comments received during the balloting process unexpectedly retired and we were not aware of his retirement until late February 2013. The N14 Chair is currently working with the writing team members to determine the status of this standard.

N14.7-2013 – Packages for Type A Quantities of Radioactive Material - Published
ANSI Headquarters approved the N14.7 Standard on April 15, 2013. This standard is now available from ANSI Headquarters as an electronic file and also available as an electronic file from the N14 Secretary.

N14.33-201X – Storage and Transport of Damaged Spent Fuel
The N14 Vice chair and as member of the N14.33 writing team submitted this standard for reaffirmation. The N14 Secretary prepared the ballot along with the N14.33 standard and submitted them to the N14 Chair for review prior to submitting the ballot to the N14 Balloting Committee. Once his review is complete the N14 Secretary will submit the ballot to the N14 Balloting committee and submit the N14.33 standard for public review.

N14.36-2013 – Measurement of Radiation Level and Surface Contamination for Packages and Conveyances - Published
ANSI Headquarters approved the N14.36 Standard on March 27, 2013. This standard is now available from ANSI Headquarters as an electronic file and also available as an electronic file from the N14 Secretary.

N14 Annual Meeting
The annual meeting is being tentatively planned for late October 2014.
INMM ACCREDITED STANDARDS COMMITTEE N15
Melanie May, Chair

Report to the INMM Executive Committee
July 2013 to July 2014

Status of Accredited Standards Committee (ASC) N15 Standards.
ASC N15 has three active standards:
• N15.8-2009 – Special Nuclear Material (SNM) Control and Accounting Systems for Nuclear Power Plants,
• N15.36-2010 – Measurement Control Program, Nondestructive Assay Measurement Control and Assurance, and
• N15.51-2007 – Measurement Control Program, Nuclear Materials Analytical Chemistry Laboratory.

All of these standards were published by the American National Standards Institute (ANSI) and are available for purchase online at http://webstore.ansi.org/.

ASC N15 has several standards under review or development, including:
• N15.8-2009 – SNM Control and Accounting Systems for Nuclear Power Plants (active). A group of interested stakeholders reviewed this standard and determined that it remains relevant, is in active use and should be reaffirmed. This N15 Consensus Body Ballot Roster re-affirmed this standard with no changes and there were no comments during the public comment period. The N15 Board is preparing the final paperwork for submission to ANSI.
• N15.19-1989 – Volume Calibration Techniques (not active).
  o An N15 writing team has reviewed International Organization for Standardization (ISO) Standard 18213, “Tank Calibration and Volume Determination for Nuclear Materials Accountancy”, parts 1 through 6, as part of the ANSI process for adopting the ISO standard as an American National Standard. Comments have been integrated and the consolidated draft is under review.
  o A written modification to the ANSI/INMM Adoption Agreement was approved by INMM and ANSI. The modification will function legally as part of the ANSI/INMM Adoption Agreement already in place.
• N15.28-1991 –Guide for Qualification and Certification of Safeguards Personnel (not active). Input from the writing team has been consolidated into a draft and reviewed. As part of the writing team work, other domestic and international models for defining a qualification & certification process were reviewed and discussed. The team is planning to hold an ad hoc meeting during the 2014 INMM Annual Meeting.
• N15.41-1994 – Measurement Control, General Principles (not active). The writing team prepared a draft to be circulated to a wider writing group for further review and revision. The writing team seeks additional members: statisticians and destructive and nondestructive assay subject matter experts from the regulatory agencies, standards and testing laboratories, NRC licensees, and DOE contractors are asked to participate in the revision of this standard.
• N15.51-2007 – Measurement Control Program – Nuclear Materials Analytical Laboratory (active). An N15 writing team has revised the standard in response to suggestions submitted by N15 members. The writing process is being documented and the standard will be sent for technical editing. Following resolution of technical edits it will be submitted to the N15 Consensus Body Ballot Roster for approval.
• N15.56 (New standard) – Non-Destructive Assay Measurements of Nuclear Material Holdup: General Provisions. The N15 Ballot Roster approved the standard with comments, and the comments were resolved by the writing team. The standard was submitted for public review: no comments were received during the public comment period. The N15 Board will meet July 11 to prepare and submit a request that ANSI approve N15.56 as an American National Standard. This standard defines administrative practices for generating and reporting nondestructive assay results for holdup deposits. The American Nuclear Society (ANS) is preparing a sister standard, “Administrative Practices for the Use of Non-Destructive Assay Measurements for Nuclear Criticality Safety”. A representative from ANS ASC N16 participated on the N15.56 writing team.

Outreach and Collaboration.
• Tracking UF6 cylinders – DOE/NNSA staff expressed an interest in developing a voluntary consensus standard for the identification, labeling and tracking of UF6 cylinders. Through discussions with industry
and manufacturers over the last several years, focus will first be placed on methods for identification and labeling of UF6 cylinders (within the scope of ASC N14), to be followed by methods for tracking (within the scope of ASC N15). Communications have been established between N15 and N14 to assist the team in a collaborative manner. There were several meetings and discussions over the past years to agree on a scope and path forward. There was no active work on this project in the time period March to June 2014.

- N15 Board Officers participated in the INMM Executive Committee meetings in November 2013 in Chicago and March 2014 in Atlanta. Over the past year N15 Board Officers participated in several ANSI Webinars, Nuclear Energy Standards Coordination Collaborative (NESCC) meetings, ASTM C26.10 standard committee meetings, and a NIST standards workshop.

ANSI Audit (5-Year) 2013. The INMM ASC N15 Board submitted revised Operating Procedures to ANSI in accordance with the results of the 2013 Audit. INMM ASC N15 was granted reaccreditation by ANSI in December 2013 and the 2013 audit was closed based upon revised approved procedures. This concludes the audit and N15 appreciates the support of INMM through this process.

Annual Meetings. The N15 Annual Meeting will be held Wednesday, July 23 from 12-2 EDT. The N15 / INMM 5.1 Subcommittee will meet on Sunday, July 20 from 12-2 EDT. Both meetings will be during the INMM Annual Meeting in Atlanta, Georgia USA.

Summary. The N15 Board would like to thank all who contribute to and participate in the development of ASC N15 voluntary consensus standards. We invite all those with a material and stakeholder interest in N15 standards to attend our meetings. Please visit the INMM/N15 website at http://www.inmm.org/N_15.htm.

Respectfully submitted on behalf of N15 by,

Melanie May, Chair
melanie.may@hq.doe.gov

Lynne Preston, Vice Chair
lynne.preston@hq.doe.gov

Steve Ward, Secretary
steveward.inmm@outlook.com

ANNUAL MEETING TECHNICAL PROGRAM
Teresa McKinney, Chair

A detailed report of the INMM Annual Meeting for 2014 will be provided in the fall 2014 issue of the Journal of Nuclear Materials Management and posted on the INMM Web site at www.inmm.org
This year the INMM Call for Award Nominations went out by email in January from INMM HQ encouraging members to go to the INMM website to read the electronic Awards Brochure and consider nominating deserving individuals. Nominations were due on April 1, 2014. The Distinguished and Meritorious Awards subcommittee, chaired by Joseph Indusi, and the Special Service Awards and Recognition subcommittee, chaired by Susan Pepper, conducted thorough reviews of the nomination packages. In May the Awards Oversight Committee forwarded recommendations for awards and recognition to INMM President Ken Sorenson for consideration by the Executive Committee. Rather than hosting our traditional Awards Banquet, this year the INMM President will be presenting our awards during the opening plenary of the INMM Annual Meeting on Monday morning, July 21, 2014. We are looking forward to highlighting these awards in such a broad audience.

Sorrowfully, several Resolutions of Respect were also prepared to honor INMM colleagues who have recently passed away. These resolutions will be read during the Annual INMM Business meeting on July 22, 2014.

Respectfully submitted,
Nancy Jo Nicholas
Awards Oversight Committee Chair
In between the INMM Annual Meeting 54 and 55, the following items are reported from the CRC Chair:

1. Approved INMM Chapters:
   a. Student Chapter from the Pandit Deendayal Petroleum University (PDPU)-India has been approved during the last INMM Annual Meeting. It has become a very active chapter.
   b. Student Chapter from the Witwatersand University in South African was approved. It promises to be a very active chapter including the initiative for regional outreach (in line with previous US, IAEA and EU initiatives in the region e.g. focusing on nuclear materials safety, safeguards and security). The chapter members expressed also interest in academic teaching on nuclear safeguards and it is thus planned to deliver an ESARDA type course in Pretoria in the Winter 2015.
   c. Student Chapter from University IBN Tofoil in Morocco has been created and was approved by the EC (per email from C. Pickett, 15/07/14).

2. Developing INMM Chapters
   a. A NEW Indonesian Student Chapter (UGM) “Universitas Gadjah Mada” is well advanced in the preparation.
   b. Interest has been expressed very recently to form a new INMM Student Chapter at University of Nevada Reno and at the Indian Institute of Technology – Kanpur (IIT-K) through collaborations with US Department of State’s Partnership for Nuclear Security and CRDF.
   c. ABACC to form a regional (Argentina-Brazil) INMM Chapter (O. Peixoto) was discussed with the ABACC colleagues at the last INMM Annual Meeting and with Prof. Odilon Marcuzzo do Canto, Secretary of ABACC, during his visit to Ispra on September 26th 2013.
   d. Potentially Student Chapter initiative (even through multiple universities) in Europe (e.g. Liege University in Belgium and Uppsala in Sweden) – see below.

3. A proposal was made to the INMM EC to request for a budget of about 15000USD over two years to test out a new idea to foster integration between Chapter (by providing (partial) support to the mobility of students for short periods between Chapters, starting with a focus on the US Chapters) The proposal could not yet be approved and will be resubmitted in upcoming EC meetings.

4. Presentations on the INMM Chapter Mechanism, Opportunity, Attractiveness, etc.:
   a. Jakarta in January 2014: BAPETEN, Indonesia: including the INMM Chapter Mechanism presentation (in line with discussions held, also with PNS, during the INMM Annual Meeting in 2013)
   b. Hanoi in January 2014: VARANS in Vietnam to solicit their interest in an INMM Chapter. There is an interest also for enhanced educational efforts and it is planned to deliver an ESARDA type course in Vietnam in the Spring 2015.
   c. ENC-2014 meeting in May 2014 in Marseille (Fr) focusing on NuSaSET activities, expected to become a major vehicle also for the INMM Student Chapter communications and information exchange.
   d. A presentation was held on the INMM Chapter Mechanism to the ESARDA WG Training and Knowledge Management in Luxembourg on May 14th, with quite a positive resonance. It was agreed with the ESARDA president to seek and get as first European “new initiative” two European Universities on board as INMM Chapter (Liege, Belgium and Uppsala, Sweden). Initial discussions were held, but more detailed contacts will be taken after the summer.
   e. Presentation including the INMM Chapter Mechanism (and NuSaSET website) at the IYNC (International Young Nuclear Congress), Burgos, Spain, July 8th 2014
   f. An abstract has been submitted to the IAEA Safeguards Symposium, Oct. 2014, entitled “Need for strengthening Nuclear Non-Proliferation and Safeguards Education to prepare the next generation of experts” between IAEA, INMM and ESARDA authors, where the INMM (Student) Chapter Mechanism will be explicitly included/promoted

5. To enhance the cross-fertilisation between students from technical, political, legal and other disciplines, NuSaSET (www.nusaset.org) has offered the INMM Student Chapters its networking technologies to provide virtual groups where Student Chapter members...
can connect and keep in touch on current activities. Furthermore, NuSaSET can provide virtual training classes through streaming-based technologies, making it easier for long distance students to attend high-level invited lectures and to interact in real-time with the attendees. Up to date, NuSaSET has invited all Student Chapters to participate in creating their own web section on the NuSaSET portal, until now we have created three dedicated pages for the following student Chapters: Penn State, Pandit Deendayal Petroleum University (PDPU), and the University of Missouri.

Chapter. The Portal also collects on its main landing page dedicated to the INMM Chapters a list of all Chapters on Social Networks, a Google map to locate the chapters globally, and a module that aggregates all the news and events the chapters want to disseminate amongst the portal community. All other INMM Chapter Presidents have been contacted for NuSaSET participation before the EC Meeting in July 2014.

**EDUCATION AND TRAINING COMMITTEE**

*Steve Ward, Chair*

**Past Activities**

INMM was pleased to participate in the ANS Student Conference at Penn State. A workshop was held to introduce students to safeguards and security principles. Thanks to Brian Boyer and Joe Rivers for speaking at the event and Chris Sopko for his work to make this happen.

ETC congratulates Texas A&M on winning the 2015 ANS Student Conference!

ETC and INMM’s Northeast Chapter participated in the USA Science & Engineering Fair in April in Washington, DC. The event drew over 325,000 people. INMM representatives enjoyed talking about many aspects of nuclear materials, power, and nonproliferation with both K-12 students and adults.

**INMM Annual Meeting**

ETC is pleased to sponsor 5 sessions with 29 papers during the INMM Annual Meeting. The international participation in these sessions is remarkable.

ETC has a record number (56) papers eligible for the J.D. Williams Student Paper Competition by submitting both their abstract and paper on time. This year also marks the best distribution of papers between Technical Divisions. This year the best paper in each Technical Division will be recognized, except for the division(s) represented by the overall first and second place papers.

The Sorenson Scholarship had 4 applicants this year, two from the US and two international. ETC is going to examine what motivates or demotivates students from applying for the Sorenson scholarship to determine if it should continue to be offered.

**Upcoming Activities**

- A webinar with Steve Bellamy for all INMM students this fall
- Supporting the 2015 ANS Student Conference at Texas A&M

The ETC is pleased to announce that Amanda Sayre will be the new Chair for the Student Activities Subcommittee. Amanda will be transitioning into this new role over the next several months.

The ETC thanks Jodi, Anne, Patricia, Lyn, Kim, and Tajuanna for their support!
The Fellows Committee continued to communicate electronically throughout the year to conduct business, as the Annual Meeting provides the only real opportunity for the Fellows to meet face-to-face and address issues in more depth.

During the 2013 Awards Banquet at the 54th Annual Meeting, Scott Vance was introduced as the newest Fellow. The Fellows lunch meeting held during the Annual Meeting in Palm Desert provided an opportunity for the Fellows in attendance to personally congratulate Scott. Twenty five Fellows along with INMM Officers attended the meeting. The lunch meeting provided a forum for catching up and reminiscing about INMM as well as a very lively discussion which focused primarily on current issues facing the Executive Committee; new conference management requirements and the budgetary impacts; opportunities to increase the Institute’s visibility and value proposition across governmental organizations; new initiatives that could be coordinated with the Strategic Planning Committee; and proposed modifications to the Annual Meeting format.

The annual solicitation for nominations for the advancement to the Grade of Fellow was distributed to Chapter Presidents and all of the Fellows in February, 2014. Subsequently, the Fellows Committee reviewed the nomination material received from Secretary Picket and forwarded a recommendation to the EC for final disposition. The annual solicitation of nominations will continue to be transmitted to the Chapter Presidents and Fellows, but the Committee appreciates the membership’s interest in the nomination process and continues to encourage the submittal of nominations following the established protocol.

The Fellows plan to meet in conjunction with the Annual Meeting in Atlanta, Georgia to discuss industry-wide issues, Executive Committee items, and INMM business in general. Agenda items will be solicited prior to the meeting and any issues or topics from the EC will be welcome.

Obie P. Amacker, Jr. Chair
Fellows Committee
The digital delivery of the Journal has apparently been a very successful endeavor. We have received many compliments and no complaints. The upcoming annual meeting will be the first one where we do not have a print copy of the Journal to distribute to meeting attendees, so we plan to have a pdf file of the JNMM available for all attendees to download. They will be sent an email with a link where they will be able to login, as they do for the Annual Meeting proceedings, and download the pdf file.

The summer issue is a special issue dedicated to the Galaxy Serpent project conducted by the U.S. Department of State. The program was a virtual tabletop exercise regarding the development of a national nuclear forensics library by several countries. The issue includes 10 articles, an overview of the program plus individual articles written by teams from nine countries that participated in the Galaxy Serpent project.

Starting with the summer issue, we will be posting a table of definitions of abbreviations and acronyms used in the Journal. We will link to it from the each issue of the Journal and it will be available freely on the INMM website. Our authors use many abbreviations and we strive to make sure each is defined within the articles and we will continue to do so. We believe that having a file of definitions updated as each new issue of the Journal is published will help our readers and helps us make better use of being online. We have also included “bonus content” with each issue we have published digitally. This has included publishing four articles from last year’s meeting proceedings to augment a summary article, publishing maps and images that were too large to include in the Journal, and now the table of abbreviation definitions. The incorporation of color images into the Journal has also been an enhancement to its quality.

We are open to ideas that we might incorporate in our JNMM web site.

We print a limited number (three) of copies via our on-demand publisher (lulu.com), and keep them for a permanent archive of the Journal.

In an effort to respect the international nature of INMM and our readers and members in the southern hemisphere, we will no longer use the seasons of the year to define each issue of the Journal beginning with the next volume of the Journal. Instead of Fall, Winter, Summer and Spring, we will refer to the issues strictly by their numbers. The first issue of our next volume will be identified only as Volume 43, No. 1.

Dennis Mangan
Technical Editor

Markku Koskelo
Assistant Technical Editor
Since the March 2014 INMM EC meeting, the Membership Committee has reviewed and recommended approval of 34 regular members and 36 student member applications.

In addition, the Membership Committee reviewed 14 applications for INMM Senior Membership and provided recommendations to the INMM Executive Committee. Of the original field of 14 applicants, the EC has approved 8 as new Senior Members, they are listed below. These new Senior Members will be recognized during the annual INMM business meeting July 22nd in Atlanta, GA.

- Steve Bellamy
- Joyce Connery
- Bryan Fearay
- Joseph Glaser
- Debarah Holmer
- Na Young Lee
- Michelle Romano
- Jim Shuler

Please make a point of welcoming all new Members and Student Members at the annual meeting July 20-24, 2014 in Atlanta.

Membership Recap
Current membership statistics are shown in the table below, along with previous years for comparison.

<table>
<thead>
<tr>
<th>Member Type</th>
<th>June 2014</th>
<th>June 2013</th>
<th>March 2013</th>
<th>March 2012</th>
<th>March 2011</th>
<th>March 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular</td>
<td>924</td>
<td>924</td>
<td>874</td>
<td>813</td>
<td>846</td>
<td>812</td>
</tr>
<tr>
<td>Fellow</td>
<td>25</td>
<td>24</td>
<td>24</td>
<td>23</td>
<td>23</td>
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</tr>
<tr>
<td>Emeritus</td>
<td>4</td>
<td>7</td>
<td>7</td>
<td>8</td>
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<tr>
<td>Senior</td>
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<td>102</td>
<td>102</td>
<td>95</td>
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<td>89</td>
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<tr>
<td>Senior Emeritus</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>6</td>
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<td>7</td>
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<tr>
<td>Sustaining</td>
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<td>37</td>
<td>36</td>
<td>40</td>
<td>33</td>
<td>34</td>
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<tr>
<td>Fellow Emeritus</td>
<td>15</td>
<td>13</td>
<td>13</td>
<td>9</td>
<td>7</td>
<td>6</td>
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<tr>
<td>Honorary Member</td>
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<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Life Fellow</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Student</td>
<td>152</td>
<td>188</td>
<td>154</td>
<td>129</td>
<td>86</td>
<td>71</td>
</tr>
<tr>
<td><strong>Total Members</strong></td>
<td><strong>1262</strong></td>
<td><strong>1305</strong></td>
<td><strong>1153</strong></td>
<td><strong>1043</strong></td>
<td><strong>1109</strong></td>
<td><strong>1057</strong></td>
</tr>
</tbody>
</table>
The current Membership on the Committee includes:

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katherine Bachner*</td>
<td>Scientific Associate, Brookhaven National Laboratory</td>
</tr>
<tr>
<td>Arden Dougan</td>
<td>SNM Movement Tech Advisor, NNSA</td>
</tr>
<tr>
<td>Franklin DuBose</td>
<td>Senior Scientist, Savannah River Nuclear Solutions</td>
</tr>
<tr>
<td>Jeff England</td>
<td>Program Manager, Savannah River Nuclear Solutions</td>
</tr>
<tr>
<td>Braden Goddard*</td>
<td>Senior Scientist, Remote Sensing Laboratory, NSTec</td>
</tr>
<tr>
<td>Jack Jekowski, chair</td>
<td>Principal Partner, Innovative Technology Partnerships LLC</td>
</tr>
<tr>
<td>Geneva Johnson</td>
<td>Global Nuclear Security, Oak Ridge National Laboratory</td>
</tr>
<tr>
<td>Christian (Chris) Kessler</td>
<td>U.S. Department of State, retired</td>
</tr>
<tr>
<td>Bill Knauf</td>
<td>President, Advanced Insights Group</td>
</tr>
<tr>
<td>Dennis Mangan</td>
<td>Sandia National Laboratories, retired; JNMM Editor, Past INMM President</td>
</tr>
<tr>
<td>Nick Quintero*</td>
<td>Grad. Research Asst., TAMU Nuclear Science and Security Policy Institute</td>
</tr>
<tr>
<td>Susan Pickett</td>
<td>Safeguards Training Officer, IAEA</td>
</tr>
<tr>
<td>Therese Renis</td>
<td>Section Head, Concepts and Approaches IAEA</td>
</tr>
<tr>
<td>James W. (J.R.) Russell</td>
<td>Manager for International Nonproliferation, Nevada National Security Site</td>
</tr>
<tr>
<td>Emily Saunders</td>
<td>PhD Candidate; Claremont Graduate University</td>
</tr>
<tr>
<td>Grace Thompson</td>
<td>International Nuclear Monitoring &amp; Transparency, SNL; Chair, INMM Operations Oversight Committee</td>
</tr>
<tr>
<td>Susan Voss</td>
<td>President, Global Nuclear Network Analysis, Inc.</td>
</tr>
<tr>
<td>Steven Ward</td>
<td>University of Michigan; Chair INMM Education &amp; Training Committee; INMM Northeast Chapter President</td>
</tr>
<tr>
<td>Klass van der Meer*</td>
<td>President, ESARDA, and Head, Society and Policy Support, Environment, Health and Safety, Belgian Nuclear Research Center</td>
</tr>
</tbody>
</table>

*Four new members were added to the Strategic Planning Committee (SPC) this past year – Katherine Bachner, Braden Goddard, Nick Quintero, and Klass van der Meer. These individuals will strengthen our international, “next generation”, and student engagement, key areas of support we have been seeking for our Committee. We have one more opening available on the Committee.

The Purpose of the Strategic Planning Committee, as identified in the Institute’s planning documents is:

The Strategic Planning Committee will assist the Executive Committee in performing both short- and long-term analysis of the effectiveness of the Institute for Nuclear Materials Management (INMM). The Committee will conduct ongoing strategic planning and respond to initiatives requested by the Executive Committee to ensure that the organization is effectively meeting the needs of the professional nuclear materials management community. The Executive Committee will appoint a Chair of this Committee, who will then select volunteers to serve on the Committee and assist the Chair.

Accomplishments and Highlights of Committee Activities August 2013 – July 2014

1. **Organization chart.** Because of the maturity of the functional organization format, it was agreed that INMM Headquarters would take responsibility for updates this year. The Strategic Planning Committee will monitor strategic issues and events and provide feedback to the EC if organizational changes need to be considered. Please check under the “About INMM” tab on the INMM website (http://www.inmm.org), and click on the “Organizational Chart” link for the latest pdf formatted version. See Attachment 1 for the latest version posted as of June, 2014.

2. **EC Action Item List. No. 071313-2 – “Do a pros and cons report comparing INMM to other organizations and what activities they do.”** - Annual Meeting Comparison Matrix. As part of this tasking, the initial suggestion was to compare the Annual Meetings of two other recognized organizations with “nuclear missions”, The American Nuclear Society (ANS) and the Health Physics Society (HPS). In constructing the matrix (Attachment 2), we also included the International Conference of Nuclear Security that was held in the summer of 2013 by the IAEA. Additionally, some reviewers pointed out that there were other, similarly-missioned organizations that also have annual meetings in and around the same time as INMM, including the U.S. Women in Nuclear. Although we did not include those on this iteration of the matrix, it may be instructive to compile a listing of such meetings in the future for each upcoming calendar year. EC
members are encouraged to examine this matrix, and provide any additional information to Jack Jekowski for refinement. The most notable “take-away” was the potential conflict that occurred between just these three events this past year, not to mention that PATRAM also was only three weeks after the INMM Annual Meeting. Most of our members undoubtedly find it difficult to spend several days away from the office every few months, let alone seek approval to attend this many conferences in such a short period of time. One might ask the question, how many INMM members had to make a choice between these different venues? It is also interesting to note that both ANS and HPS have had similar reductions in their annual meeting attendance over the past two years as INMM. Although we cannot change our date commitments with hotels quickly, this is an issue that the Institute should look at with respect to future planning. Perhaps, as we continue to build our collaborations with similar-missioned organizations such as these, we can all compare calendars and avoid competition for a shrinking participant market. Of note, WINS held an International Best Practice Workshop on the Security of Dry Storage of Spent Nuclear Fuel June 10-12 in Vilnius, Lithuania, and the ANS annual meeting was held June 15-19 at the Grand Sierra Resort in Reno, Nevada (with a theme of “The U.S. Role in a Global Nuclear Energy Enterprise”).

3. **EC Action Item List. No. 112113-4 – “Create a one-pager identifying the benefits of INMM.”** – This was a new assignment from the November EC meeting that grew out of discussions at the Annual Meeting with Willem Janssens suggesting we develop a “Global Presence” chart showing INMM Chapters, Student Chapters and perhaps, even formal organizational affiliations, to demonstrate the breadth and depth of the Institute’s reach. This chart would complement a previous chart that was created to show the alignment of U.S. DOE and NNSA facilities with our U.S. Chapters. In addition providing a snapshot of INMM’s International reach for current and potential members, such a chart may also be useful in our discussions with supporters both in the U.S. and internationally. At the direction of the EC in the November meeting, material provided in response to the previous Action Item 030613-8, as well as other briefing materials previously prepared for discussions with leaders in DOE and NNSA dealing with the conference restrictions/approval, were examined for highest impact in the development of a “one-pager” that would best convey the benefits of INMM. The one-pager went through nine drafts during the year, and was vetted with the EC and Fellows Committee, with several ideas being incorporated into the final version which is provided at Attachment 3. This version posted on the INMM website.

4. **Taking the Long View Industry News Column.** During this period Industry News columns were provided for the Fall 2013, and Winter, Spring and Summer 2014 Journal of Nuclear Materials Management (JNMM). Entitled *Taking the Long View in a Time of Great Uncertainty: Working Toward Solutions* – (Fall of 2012); *Taking the Long View in a Time of Great Uncertainty: Bumps in the Road* (Winter of 2014); *Taking the Long View in a Time of Great Uncertainty: Reflecting on the Health of the INMM* (Spring 2014); and *Taking the Long View in a Time of Great Uncertainty: Throwing Down the Gauntlet to the Next Generation of Nuclear Stewards – the Enduring Nuclear Legacy* (Summer 2014), these columns continued the discussion of global and U.S events that are dramatically influencing the future of the Institute and examined the changing role of the Institute during a period of many challenges.

5. **Strategic Planning Template.** In the process of developing the Annual Meeting Comparison Matrix for the last EC meeting, the SPC discovered a “one-page” strategic plan posted by the Health Physics Society on their website. Intrigued by this simplified, yet effective approach, the Committee has undertaken to develop a template that might be considered for the development of a manageable strategic planning document that could be used by the E.C. and Institute members. It is based upon the Institute’s mission statement, and provides for the inclusion of strategies and actions, as well as milestones, responsibilities and status under each of the Mission Elements, similar to the current E.C. Action Item list. This template is presented in Attachment 4 with some suggested examples of the types of strategies and Actions. The EC members are encouraged to contact Jack Jekowski with their comments or suggestions for Strategies and Actions.

**Planned actions for 2013-2014:**

- Work with the EC and Leadership to develop the Roles, Responsibilities, Authorities and Accountabilities (R2A2) of each position on the Functional Organization
chart in collaboration with the Bylaws Committee.

- Assist members of the EC and others in the development of strategic relationships with similar-missioned organizations identified on the Collaboration Matrix.

- Work with various Committees and individuals to further develop opportunities to enhance the revenue of the Institute and mitigate the impact of the U.S. restrictions on conferences and workshops.

- Work closely with the Student Activities Committee and the chair of the Education and Training Committee, Steve Ward, to identify strategic issues with respect to engaging the next generation of Institute membership.

- Work with the SPC to develop topics for the Industry News “Taking a Long View” column, and provide feedback to the EC on critical events and their strategic implications to the Institute.

- Examine the possibility of creating a succinct and focused “Strategic Plan” for the Institute based upon our mission and strategic issues.

Strategic current events impacting the Institute today since the 2013 Annual EC Meeting:

During the 2013-2014 year extraordinary events have continued to influence the world that the INMM and its membership operate within, including:

**International**

- **Obama Brandenburg speech.** President Obama chose the historic location of the Brandenburg Gate in Berlin, Germany on June 19, 2013 to reinforce his Prague, 2009 vision of a world without nuclear weapons. Of note, he suggested that a strong and credible strategic deterrent could be maintained by the U.S. while reducing deployed nuclear weapons by up to one third (down to a level of approximately 1,000):

  “Peace and justice means pursuing the security of a world without nuclear weapons – no matter how distant that dream may be…and we can forge a new international framework for peaceful nuclear power, and reject the nuclear weaponization that North Korea and Iran may be seeking.”

- **Third Nuclear Security Summit held in The Hague.** The third Nuclear Security Summit was hosted by the Netherlands at The Hague in late March, 2014. Initiated by President Obama in 2010, this international gathering has been held every two years, with the fourth, and possibly final, summit now scheduled to be held in Washington, D.C. in 2016. One document that came out of this year’s Summit, “Strengthening Nuclear Security Implementation”, was a declaration signed by 35 of the 53 states attending, intended to bring the international community closer in their efforts to strengthen the security of their nuclear materials. Understanding and discussing consensus documents such as these is an important part of a continuous “environmental scan” to ensure that the focus of the Institute’s Mission is proper, and that our priorities are appropriately placed.

- **Diplomatic resolution to Syrian Chemical Weapons.** The challenge presented to the world with the use of Chemical Weapons in the Syrian War was resolved diplomatically on the eve of threatened military action. The United Nations Security Council Resolution 2118 was adopted unanimously on 27 September 2013, in regard to the Framework for Elimination of Syrian Chemical Weapons. Challenges still exist to implement the agreed-upon actions to eliminate the stockpile in the midst of a continuing conflict.

- **Annexation of Crimea by Russia.** The events that unfolded in the Crimea after the Olympics have impacted the continuity of scientific and other collaborations that have been building between Russia and many INMM member organizations, including the open exchange of information at the Institute’s Annual Meeting and technical workshops. Additionally, these events have opened discussions in the media and among policy makers on some of the more important nonproliferation issues associated with national security and nuclear weapons in other states, including suggestions by some in the U.S. Congress that further reductions associated with the New START Treaty be delayed. Although the Institute does not inject itself at these levels, it behooves the membership to understand and discuss the complex interactions events such as this might have on the ability to accomplish its Mission of enhancing global safety and security.

- **Escalation of tensions over Senkaku/Diaoyu Islands in the East China Sea, and territorial claims in the South China Sea.** The long standing territorial conflict between China and Japan over islands in the East China Sea (Senkaku/Diaoyu) took on a new dimension as China established an “air defense identification zone” (ADIZ) requiring all foreign aircraft to identify themselves and the reason for being...
in the zone. This was challenged almost immediately by two U.S. B-52 bombers that flew through the zone without annunciation. More recently, tensions increased over territorial claims in the South China Sea by the Philippines and other countries. Vice President Biden opened dialog with Chinese leaders in a Far East visit to attempt to resolve these issues. Unfortunately, this escalation of has now involved Vietnam and Malaysia as well, only further complicating the international environment that challenges the world today.

- **Iran.** The international community is holding its breath as multi-party diplomatic and technical talks with the P5+1 and the IAEA have brought renewed hope to addressing the Iranian nuclear enrichment programs through a “Joint Plan of Action”. As the July 20, 2014 deadline approaches, however, U.S. Senators continue to wave a potentially deal-breaking “what-if” sanctions bill that could disrupt the delicate diplomatic process. Former LANL Director Sig Hecker, and former Secretary of Defense William Perry, co-authored a New York Times Op-Ed entitled “Iran’s Path to Nuclear Peace”, suggesting that the costly pursuit of enriched uranium by Iran makes no sense, and instead offered some practical solutions for working with the international community to establish a nuclear energy infrastructure that would provide the enriched uranium fuel needed for their energy and research programs from international sources. Although there are still dissenting voices over the negotiated agreement in the U.S., Iran, and internationally, this challenge represents the ultimate test of the Obama Administration’s National Security position “Diplomacy is as fundamental to our national security as our defense capability. Our diplomats are the first line of engagement, listening to our partners, learning from them, building respect for one another, and seeking common ground.”

- **North Korea (DPRK).** Concern increased during this period about the stability of the North Korean government and its leader, Kim Jong Un, as a purge continued that included a highly publicized execution of his Uncle, who at one time was considered to be in a position of great influence. Tensions in the region remained high as South Korea and the U.S. conducted military exercises, and North Korea espoused numerous threats, and conducted missile tests. Continued activity at its Punggye-ri nuclear test site raised concerns of an imminent nuclear test, as the United Nations Commission of Inquiry on Human Rights in the Democratic People’s Republic of Korea released a large report documenting a wide array of crimes against humanity, arising from “policies established at the highest level of State,” and called for urgent action by the international community to address the human rights situation in the country, including referral to the International Criminal Court.

- **Global Instability.** The continued unrest in the Middle East, including the challenges presented by the use of chemical weapons in Syria; rising numbers of terrorist attacks in Iraq, including the rise of a new coordinated effort by the Islamic State of Iraq and Syria (ISIS); terrorist attacks in Russia; and continued unrest in Egypt, the Ukraine and numerous other countries, presents unique challenges to the world as a general malaise has spread across the continent.

- **Nuclear Renaissance.** Although some countries have decided to forgo nuclear power as a result of the Fukushima accident of 2011, the United Arab Emirates is currently building four nuclear reactors, and Saudi Arabia announced last year they plan to build up to 16 reactors at an estimated cost of over $100B. Continued technological struggles by Japan, however, to contain the spread of nuclear contamination at the Fukushima site, and the enormously expensive technologies being developed to achieve the clean-up (such as the ice wall designed to contain contaminated cooling water) continue to influence global opinions on the safety and cost of nuclear power.

- **India-Pakistan Relations.** Tensions between these two nuclear armed nation states rise and fall as both nations continue to strengthen their strategic weapons systems.

- **U.S. – Russian Relations.** Russia continues to cite the need for reliance on its nuclear deterrent, while the U.S. continues to de-emphasize the role of the nuclear stockpile in its national security strategy. How these differences are resolved in a more complex global environment, where nuclear technology and knowledge is expanding, will be a significant challenge.

- **Spread of Terrorist Networks and use of Cyber Warfare.** The past year has seen the rise of terrorist networks in new areas of the world, including North Africa. These non-state networks continue to enhance their use of technology, as well as to seek nuclear materials for the purpose of achieving their goals. The revelations associated with the release of classified information by Edward Snowden have also impacted the world-wide use of technologies to access information, and has brought into question the
• **Theft of Cobalt-60 source in Mexico.** A container of medical Cobalt-60 radioactive material was stolen in Mexico, and found two days later. It appears the container was not the target for theft, but rather the transport vehicle. When found two days later, the source had been opened and the individuals who stole it unknowingly exposed themselves to significant radiation. Early reaction was world wide – asking the IAEA to strengthen international standards for waste shipments.

U.S.

• **U.S. Government Shutdown.** The shutdown of the U.S. Government in October of last year impacted many of our members and their organizations, including an INMM-sponsored Risk Reduction workshop planned for Stone Mountain, Georgia in that same time frame, requiring it to be moved to February of this year. The possibility of similar disruptions in the future creates critical uncertainties for not only our membership, but the Institute itself.

U.S. Nuclear Security Enterprise

• **Key personnel changes.** The U.S. Senate finally confirmed General Frank Klotz as the new NNSA Administrator – but has yet to act upon the nomination of Madelyn Creedon as the Deputy Administrator.

• **Future of the Enterprise.** Congressional pressure continues to be put on NNSA and DOE by Congress on a number of issues related to cost overruns, program delays, security and other issues as DOE and NNSA re-evaluate the benefits and costs of privatizing the contracts for the three Nuclear Security Laboratories. A Congressional Advisory Panel will provide some new insight and recommendations for possible restructuring of NNSA in July, as public policy debates on the need for investing in new infrastructure continues.

INMM

The INMM itself faces “history in the making” as it attempts to adapt to this dramatically changing international and U.S. environment:

• **Conference restrictions.** The restrictions placed on U.S. federal agency participation in scientific and technical conferences and workshops have not only have had a negative impact on the technical collaborations that are so important to the core mission of the Institute, but since the Annual Meeting is the primary source of revenue for Institute activities, have the potential for adversely impacting the Institute’s finances. Although the INMM continues to enjoy broads support from many segments of DOE and NNSA, these restrictions continue to impact the smooth operations of the Institute.
**INMM Functional Organization Structure**

**INMM Officers & Executive Committee**

<table>
<thead>
<tr>
<th>5 Officers</th>
<th>4 Members-at-Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>President - Ken Sorenson</td>
<td>Brian Boyer</td>
</tr>
<tr>
<td>Vice President - Larry Satkowski</td>
<td>Joyce Connery</td>
</tr>
<tr>
<td>Treasurer - Robert Cul</td>
<td>Mark Scharenberg</td>
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<tr>
<td>Secretary - Chris Pickett</td>
<td>Steve Wynn</td>
</tr>
<tr>
<td>Immediate Past President - Scott Vance</td>
<td></td>
</tr>
</tbody>
</table>

*Note: International Chapters with more than 50 members have an ex-officio membership on the EC.*

**U.S. Chapters**
- California
- Central
- Northeast
- Pacific Northwest
- Southeast
- Southwest

**International Chapters**
- Japan
- Korea
- Morocco
- Nigeria
- Oman
- Russian Federation
- South Africa
- United Kingdom
- Ukraine
-Urals
- Vienna

**Chapters**
- Student Chapters
  - Georgia Institute of Technology
  - Idaho State University
  - Jordan University of Science and Technology
  - Mercer College
  - Monterey Institute of International Studies
  - Triangle-Area Universities
  - Purdue University
  - Pennsylvania State University
  - Texas A&M University
  - University of Michigan
  - University of Missouri
  - University of New Mexico
  - University of Tennessee
  - University of Washington

**Technical**
- Technical Oversight - Steve Mudineo - Chair
  - Facility Operations - Morris Hassler
  - International Safeguards - Michael Whitaker
  - Materials Control & Accountability - Cory Crawford
    - ASC INMM N15 Standards
    - Melanie May
  - Nonproliferation and Arms Control - Mona Dreier
  - Nuclear Security & Physical Protection - Tom Bonner
  - Packaging, Transportation & Disposition - Steve Bellamy
    - ASC INMM N14 Standards
    - Matt Feldman

**Operations**
- Operations Oversight - Grace Thompson - Chair
  - Annual Meeting
    - Technical Program - Teresa McKinney
    - Exhibits and Sponsors - Markku Koskelo
    - Registration - D. L. Whaley
  - Awards Oversight
    - Nancy Jo Nicholas
    - DARPA/NSF Recognition - Joe Inderl
    - Special Recognition & Service Awards - Susan Peper
  - Bylaws
    - Steve Ortiz
  - Membership
    - Michelle Romano
  - Nominating
    - Scott Vance

**Management**
- Management Oversight - Charlie Harmon - Chair
  - Chapter Relations - Willem Janssen
  - Communications - George Baldwin
    - PR and Event Sponsorship - Susan Peper
    - Website Management - Karl Horak
    - Publications - Brian Boyer
  - Education and Training
    - Steve Ward
    - Student Activities - Steve Ward
    - Education and Outreach - Glenda Ricker
    - Student Career Fair - Steve Ward
  - Fellows
    - Olie Amacker
  - Journal of Nuclear Materials Management - Dennis Mangan
  - Strategic Planning - Jack Tulekowski

**NGO Liaisons**
- ESA/RDA - Debbie Dickman
- NIC - Steve Bellamy
- WINS - Scott Vance

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*Accredited Standards Committee N15M N15 – Methods of Nuclear Material Control
Accredited Standards Committee N15M N14 – Packaging and Transportation of Radioactive and Non-Radioactive Hazardous Material*
CHAPTER REPORTS

CENTRAL CHAPTER

William Brosey, Chapter President

The Central Region Chapter conducted a one-day Spring Training Event “75 Years of Securing Nuclear Material: Reflections on the Past, Lessons from the Nuclear Experts, and the INMM Future Vision” on March 18, 2014, at the Howard H. Baker, Jr. Center for Public Policy, UTK. The one-day event featured speakers from Y-12, ORNL, IAEA, and Portsmouth. A considerable contingent of students attended from the University of Georgia and Mercyhurst University.

There was engaged interaction between the audience and the speakers.

The student perspective of the future was presented by Ann Pederson, a UT student.

Ray Smith from Y-12 provided the historical perspective for securing nuclear material.

The International perspective was presented by John Oakberg, formerly of the IAEA.

Jim Morgan from Portsmouth provided the current operational perspective for securing nuclear material.
Central Chapter (cont.)

The event was sponsored by ORNL’s Global Security & Nonproliferation Program Office, Tetra Tech HEI, and The University of Tennessee. UT endorsed the event for UT Continuing Education Credit as a non-credit educational and career enhancement experience. A copy of the final agenda and flyer are attached. There were forty-five attendees and a profit of $2824.84 was realized.

During the event, Shirley Cox was awarded the INMM Central Region Chapter Vincent J. DeVito Distinguished Service Award. Additionally, four long-term sponsors of the Central Region Chapter were awarded Special Service Awards. Those recognized were the Oak Ridge National Laboratory, Tetra Tech, The University of Tennessee, and Y-12 National Security Complex.

The Central Region Chapter plans to conduct a chapter meeting at the INMM annual meeting in July.

Chapter Financial Status: As of June 3, 2014, the Central Chapter had a balance of $21,768.54.

Respectfully submitted:

Bill Brosey, President, Central Region Chapter
Central Region Chapter Executive Committee:
Linda Paschal, Vice-President
Jackie Shipwash, Treasurer
Jason Roback, Secretary
Shirley Cox, Immediate Past President
Howard Hall, Member-at-Large
Jessica White, Member-at-Large
Louise Evans, Member-at-Large
Terrance McGuire, Member-at-Large

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Respectfully submitted:

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Central Region Chapter Executive Committee:
Linda Paschal, Vice-President
Jackie Shipwash, Treasurer
Jason Roback, Secretary
Shirley Cox, Immediate Past President
Howard Hall, Member-at-Large
Jessica White, Member-at-Large
Louise Evans, Member-at-Large
Terrance McGuire, Member-at-Large
The NE Chapter Executive Committee members are the following:

<table>
<thead>
<tr>
<th>Office</th>
<th>Term Ending</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Steven Ward October 2014</td>
</tr>
<tr>
<td>Vice President</td>
<td>Joe Rivers October 2014</td>
</tr>
<tr>
<td>Secretary</td>
<td>Charles D. Harmon October 2014</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Joseph Glaser October 2014</td>
</tr>
<tr>
<td>Member-at-Large</td>
<td>Kelsey Hartigan October 2015</td>
</tr>
<tr>
<td>Member-at-Large</td>
<td>Kate Bachner October 2015</td>
</tr>
<tr>
<td>Member-at-Large</td>
<td>Melvin Feather October 2014</td>
</tr>
<tr>
<td>Member-at-Large</td>
<td>Sarah Poe October 2014</td>
</tr>
<tr>
<td>Immediate Past</td>
<td>Houston Wood III October 2014</td>
</tr>
</tbody>
</table>

**Activities**

The Northeast Chapter continues to conduct monthly Executive Council Meetings via teleconference. The approved minutes from the latest meeting are posted to the Chapter Web Site.

On March 13, the INMM NE Chapter held a lunchtime meeting at George Washington University. The meeting consisted of a panel discussion on the topic of material attractiveness and how it might inform a graded security program. The Chapter was asked to host the panel discussion as part of the Nuclear Regulatory Commission’s (NRC) stakeholder outreach on their fuel cycle security rulemaking. The panel was chaired by Joe Rivers, a Senior Level Advisor on Security at the NRC, and Vice President of the Northeast Chapter. The panelists consisted of Oleg Bukharin of the NRC, Andrew Mauer of the Nuclear Energy Institute, and Ed Lyman of the Union of Concerned Scientists. Each panelist provided a short discussion of their views on the topic and then questions were taken from the audience. There were approximately 50 people in attendance and the discussion was very good and continued for about one hour.

On 3 April, the INMM NE Chapter hosted a workshop in conjunction with the American Nuclear Society Student Conference at Penn State. The workshop was chaired by Brian Boyer of Los Alamos and Joe Rivers of the NRC, and Vice President of the NE Chapter made a presentation on nuclear security. After the presentations, the students were broken up into groups: two related to safeguards and two to security. One group in each area served as the attacker and the other served as the defender. The groups were given about 30 minutes to develop an approach and then briefed what their group had come up with. There were about 25 students at the workshop and all seemed to feel that it was worthwhile.

On April 25-27, the INMM NE Chapter participated in the USA Science and Engineering Festival at the Walter E. Washington Convention Center in Washington, DC. The Grand Finale Expo is the culmination of the 3rd Annual Science Festival that has been ongoing throughout 2013 with nationwide school programs, contests and events. Over 750 leading Science, Technology, Engineering and Math (STEM) organizations provided hands-on science and engineering activities for people of all ages. Although the INMM booth did not include hands-on activities at this festival, a steady stream of participants dropped by to inquire about INMM as an organization and discuss areas of interest including recent nuclear events in Japan, issues associated with the back end of the fuel cycle, and nonproliferation of nuclear technologies. Steve Ward was present at the INMM Booth for the entire three day festival.

The NE Chapter Executive Committee received two papers from students at Penn State and selected the submission from Luis A. Ocampo-Giraldo on the Status of the Implementation of Safeguards by Design in the International Safeguards Regime as the one that the Chapter will support at the INMM Meeting in July.

The Annual NE Chapter Membership Meeting will be held at The Marriott Marquis in Atlanta, GA at 6:00 PM on Wednesday, July 23, 2014. The room location will be posted on the Message Board located in the vicinity of the Registration Center. The meeting announcement was included in the latest NEC Newsletter.

The Northeast Chapter will join the Southwest Chapter in the annual mixer to be held in Canberra’s Hospitality Suite on Wednesday, July 23rd immediately following our Chapter Membership Meeting. The room location will be posted on the Message Board located in the vicinity of the Registration Center.
Again, as a priority of the PNW Chapter, we are working on ways to engage the broader student population through the existing student chapter at University of Washington (UW) and other colleges and universities in our region (Washington, Oregon and Idaho).

On 5 May 2014, the Pacific Northwest INMM chapter EC supported a lunch meeting for students visiting PNNL from the University of Washington’s INMM chapter. Several INMM members, including EC members gave presentations to the students on various topics. Doug Trout welcomed the students and gave a brief talk on the importance of INMM, and the opportunities for young students to attend conferences and network. Skip Kershner provided a lecture on enhancing technical skills amongst young people and Rosalyn Leitch discussed her background in Policy. Both talks played to the backgrounds of the students and explained opportunities for each in the nuclear field. Cary Crawford talked about his experience with INMM and Zoe Gastelum discussed the upcoming INMM Conference in Portland.

INMM Pacific North West Chapter, IS and NAC Workshop, Portland May 2014

The Pacific Northwest Chapter, with the INMM International Safeguards (IS) and Nonproliferation and Arms Control Technical Divisions (NAC), hosted an “Information Analysis Technologies, Techniques and Methods for Safeguards, Nonproliferation and Arms Control Verification Workshop”. This topical workshop was held May 12-14, 2014 in Portland, Oregon, USA. The workshop had over 50 participants from throughout the DOE National Laboratory complex, domestic and foreign universities, the IAEA, the European Commission Joint Research Centre, government, and non-governmental organizations. The workshop was highlighted by an opening plenary address from the IAEA’s Department of Safeguards, Division of Information Management (prepared by Jacques Baute, delivered by Thomas Lorenz), eight technical sessions, a software demonstration session, and a closing plenary panel including Joe Kielman from DHS, and Peter Sprunger and Daniel Wurmser from DOS.

Financial Report: Current available Chapter funds are $12,108.

Current officers remain:

President – Doug Trout, PNNL
Vice President – Sarah Frazer, PNNL
Secretary/Treasurer – Glenda Ackerman, Dade Moeller
Members at Large – Roberta Burbank, PNNL
Skip Kerschner, PNNL; Jason Shergur, PNNL
Immediate Past President – Cary Crawford, PNNL

Chapter elections will be held this fall.
ELECTIONS:
The Southeast Chapter of INMM held elections for the 2014 Executive Committee in February. Based on the results of the election, the Southeast Chapter Executive Committee members for 2014 are:

President: Kerry Dunn
Vice President: Glenn Abramczyk
Treasurer: Bradley Loftin
Secretary: Lindsay Sexton
Members At Large: Michelle Romano, Paul Cloessner, Rick Poland, Steve Bellamy
Others: Jeff Allender (website), Steve Wyrick (Past President)

Per the Chapter by-laws the Executive Committee voted to create three non-voting positions on the Executive Committee. These positions will be for 2 years and then reviewed.

Non-Voting Positions Include: John Dewes (Corporate Liaison), Paul Ebel (Educational Outreach Officer), Rich Koenig (Nominations and Elections Chair)

SOUTHEAST CHAPTER MEETINGS:
An Executive Committee Meeting was held in Aiken, SC on March 27, 2014. Committee members in attendance were: Kerry Dunn, Glenn Abramczyk, Lindsay Sexton, Paul Cloessner, Rick Poland, Steve Bellamy, Jeff Allender, John Dewes, Paul Ebel, and Rich Koenig.
The second Executive Committee meeting of the year was held in Aiken, SC on May 29, 2014. Committee members in attendance were: Kerry Dunn, Glenn Abramczyk, Lindsay Sexton, Bradley Loftin, Rick Poland, Steve Bellamy, Jeff Allender, Rich Koenig. A call-in conferencing number was provided for those that could not attend the meeting. No one called in to the number. We will continue to provide a call-in conference number for those that can’t make it to the meetings.

SUMMARY OF SOUTHEAST CHAPTER MEETINGS:
The Southeast Chapter Meeting at the 2014 Annual Meeting will be held 5:30-6:30 PM on Wednesday, July 23. A room will be assigned by INMM. Initial meeting will occur in a room at the conference hotel – but the meeting will transition to a nearby restaurant (TBD by Bradley Loftin). Once a location has been selected the secretary, Lindsay Sexton, will send out an email notice to the members. We will notify the Southeast Chapter and the Georgia Tech student chapter about the meeting approximately 1 month before the Annual Meeting.

The Southeast Chapter, along with the Central Chapter (Tetra Tech), and the INMM Executive Committee, will host a showing of Pandora’s Promise at the Annual Meeting in place of the closing plenary at the Annual Meeting. The cost of the showing, AV equipment, and snacks will be shared by each participating host.

Rich Koenig provided coordination with Georgia Tech to offer laboratory tours during the Annual Meeting in Atlanta. There will be 4 tour times with a maximum of 18 people per tour. Buses for the tours of Georgia Tech at the Annual Meeting have been arranged. The tours will take place on Tuesday, July 22, 2014. The first tour bus will depart at 12:10. Sign-ups for the tours will take place during registration at the Annual Meeting and are on a first come first serve basis. The Executive Committee for the Southeast Chapter will request that members allow other attendees to sign-up for the tours at the Annual Meeting. The Southeast Chapter plans to schedule a time in the fall meeting at Georgia Tech with the Student Chapter and will take a tour at that time.

Jeff Allender will be made the official webmaster. Initial updates to the website will include meeting minutes and the by-laws.

Nominations for INMM Senior Membership were discussed and all eligible members were reviewed. Kerry Dunn will be sending out the nomination form to all of the eligible members.

BUDGET
Balance as of June 26, 2014:
Checking Acct. $2,857.94
CD $1,047.39

Total assets $3,905.33

There are no outstanding payments to be made so this is accurate to date.

We have not received our $400 annual stipend for 2014.
The FY14 Executive Committee of the Southwest Regional Chapter is as follows:

President: Markku Koskelo, Aquila Technologies
Vice President: Open
Secretary: Danielle Hauck, Los Alamos National Laboratory
Treasurer: Rian Bahran, Los Alamos National Laboratory
Members at Large:
  Jack Jekowski, Innovative Technology Partnerships, LLC
  Carolynn Scherer, Los Alamos National Laboratory
  Claudio Gariazzo, Texas A&M University
  Adam Hecht, University of New Mexico
Communications: Scott Kraus, Aquila Technologies
Student Liaison: Keith Tolk, Milagro Consulting
Past President: J.R. Russell, Nevada National Security Site

Activities this Fiscal Year:

1. The Southwest Regional Chapter participated in a joint dinner meeting with the American Nuclear Society’s Trinity Section on November 22, 2013, at the Santa Fe Marriott Courtyard. The talk was on the current status and apparent future directions of the Russian nuclear enterprise by Galya Balatsky of Los Alamos National Laboratory.

2. The SW Chapter held two Executive Committee meetings, October 31, 2013, and February 20, 2014 at the offices of Aquila Technologies in Albuquerque. The Committee reviewed activities from the past year, discussed plans, and conducted business for the coming year. On February 28, 2014, the Chapter participated in the “Make Your Mark” Career Technical Education Open House, hosted by Central New Mexico Community College in Albuquerque. The Chapter had the opportunity to speak with high school students (estimated attendance was 2,000) about INMM and safeguards and security careers and to lead hands-on activities with radiation detectors. The Chapter is considering adding a summer event for student interns at Sandia and Los Alamos Labs.

3. The Southwest Chapter held its Annual Winter Dinner Meeting in Santa Fe, New Mexico on January 17, 2014. The keynote speaker was Bruce Held, NNSA Acting Undersecretary for Nuclear Security. The event was very well attended with 75 INMM members, spouses and guests attending the dinner, including the current INMM president and five past INMM presidents (photo credit to Jack Jekowski for pictures at end of this report). President Felicia Durán focused her comments on the traditions of the Chapter and planned activities for the year, and Bruce Held was very engaging and candid about topics that included security matters and the critical importance of security for DOE and NNSA, the insider threat, and a few anecdotes about his work with the CIA.

4. The 16th annual Taos Technical Exchange, that the SW Chapter organizes every year, was held on May 17th. The attendance was 23, of which 15 were students. A total of 14 Texas A&M students (4 graduate and 10 undergraduate) participated in visits at Los Alamos Laboratory, Sandia Laboratories, URENCO USA Enrichment Plant in Eunice and Aquila Technologies in conjunction with this event.

5. The SW Chapter President Felicia Durán resigned her position for personal reasons on May 14, 2014. Markku Koskelo, the elected Vice President will serve as the Chapter president until the next election.

6. The University of New Mexico student chapter is having an active year. The officers for the academic year 2013-2014 were President: Arnika Chidambaram (achidamb@unm.edu), Vice President: Jason Seik (jseik@unm.edu), Secretary: Danielle Redhouse (dancired@unm.edu). The faculty advisor is Dr. Adam Hecht. In September, the Chapter hosted Shirley Johnson, Consultant with Tucker Creek Consulting and INMM Fellow. Shirley talked about her 25+ years of experience with the IAEA and their efforts and responsibilities in the field of international nuclear safeguards. Matt Sternat from Sandia National Laboratories spoke in February on nuclear forensics. The Chapter also hosted a bowling night, did laser tag with the ANS Student Chapter, and had members speak to the ChNE 101 class about the INMM Student Chapter. See the UNM Student Chapter report for additional details.

7. The Texas A&M University student chapter continues to be active. Officer elections were held a the end of the Spring semester and the new officers for the 2014-2015 academic year are President: Robert Zedric (r.zedric@gmail.com); Vice President: Manit Shah (manitshahd@gmail.com); Secretary: Timothy Jacomb-Hood (jacombhood@gmail.com); Treasurer: Meyappan Subbaiah (meysubb@gmail.com); Bush School Liaison: Eric Pennington (ebpenn@neo.
tamu.edu); Undergraduate Liaison: Matthew Schaper (matschaper@tamu.edu); and Webmaster: Jose Trevino (j.f.trevino361@tamu.edu). Drs. William Charlton and Sunil Chirayath are Chapter faculty advisors. The first speaker meeting of the spring semester took place on January 30th with Dr. Jasen Castillo of the Bush School for Government and Public Service speaking on the role of nuclear weapons in reassuring current U.S. allies. In February, Richard MacNamee, another professor from the Bush School, spoke on “The Five W’s of Terrorism” focusing on nuclear facilities. The chapter officers also interacted with several international student chapters via Skype meetings: the Indonesian Student Chapter (that is forming with support of the US State Department’s Partnership for Nuclear Security) and the PDPU Student Chapter in India. PDPU shared a report on a workshop they held and TAMU shared a chapter newsletter. Two professors from the Jordanian University for Science and Technology visited TAMU in February, and the both chapters are collaborating on an abstract for a joint paper to be presented at the Annual Meeting; they are comparing the NE curricula at the two universities. DOE/NA gave the TAMU Chapter the opportunity to write a script and perform in a video on NDA fundamentals. The chapter elected new officers for the upcoming academic year. See the TAMU Chapter report for additional details.

Figure 1. Then SW Chapter President Felicia Durán and INMM President Ken Sorenson with Winter Meeting Speaker Bruce Held and his wife (left to right).

Figure 2. Six INMM Presidents with Winter Meeting Speaker Bruce Held (left to right) – John Matter, Nancy Jo Nicholas, Ken Sorenson, Bruce Held, Yvonne Ferris, Dennis Mangan, and Jim Lovett.

Figure 3. The student participants at the Taos Technical Exchange.
1. Officers and Executive Committee Members as of the end of May 2014

President: Takahiko Ito
Immediate Past President: Yoshinori Meguro
Vice President: Kaoru Naito
Secretary: Takeshi Osabe
Treasurer: Kazutomo Taniguchi
Members-at-Large:
  Tomonori Iwamoto
  Tomohiko Kita
  Tetsuzo Oda
  Masao Senzaki
  Katsuyuki Suzuki

2. Executive Committee Meetings

The Chapter’s Executive Committee Meetings were held every three month intervals. Chair of Planning Committee and Chair or Annual Meeting Program Committee were attended by request.

Following topics were discussed and resolved at the meeting:
- Report by Annual Meeting Program Committee;
- Report by Planning Committee;
- Immunity on payment of annual sustaining membership due;
- FY2013 business report and financial statement;
- FY2014 business plan/financial budget;
- Japan Chapter’s annual membership due for FY2014;
- Japan Chapter’s 35th annual meeting program;
- The Chapter’s 2013 distinguished service awards;

3. Annual Business Meeting

FY2014 annual business meeting was held on October 24, 2013, in conjunction with the 34th annual meeting of Japan Chapter. The FY2013 business report/financial statement and FY 2014 business plan /financial budget were approved at the meeting.

4. Annual Meeting

The 34th Annual Meeting of Japan Chapter was held in Tokyo during October 24-25, 2013. As an opening plenary, four invited lectures and special report were provided covering the following topics:
- Nuclear Security Challenges: NRA’s Policy and Activities
  Lecturer — Kenzo Ooshima, Nuclear Regulatory Agency.
- Nuclear Security Program in Japanese Electric Power Company
  Lecturer – Hiromu Masuda, Executive Officer, Nuclear Power Department, Nuclear Power Division, Chubu Electric Power Co., Ltd.
- IAEA International Conference on Nuclear Security: Outcomes of Ministerial Conference
  Lecturer – Takashi Hatori, Disarmament, Non-Proliferation and Science Department, Ministry of Foreign Affairs.
- Overview of 2013 International Conference on Nuclear Security
- Summary Report on the 54th Annual Meeting of INMM

During this two days meeting, 31 technical papers were presented and a total of 96 persons participated.

The Chapter’s 34th annual meeting is being planned to be held during November 27-28, 2014 in Rokkasyo, Aomori.

5. Japan Chapter’s Workshop/Seminar

Following workshops/seminars were held since October 1, 2013 to date.

(1) Trend on Nuclear Security at Nuclear Power Plant In Japan-Lesson Learned from Fukushima Accident.
  Lecturers: Seiji Nishida, Nuclear Regulatory Agency
  - Date and place: 12 February, 2014 in Tokyo
  - Number of participants: 22
  This workshop was jointly conducted by INMM Japan Chapter and Nuclear Nonproliferation, Safeguards, Nuclear Security of Atomic Energy Society of Japan.

(2) Introduction of Recent International Trends on Nuclear Security
     Lecturer: Takeshi Inoue, JAEA
  b. Summary Report of Training Course on Countermeasure for Insider Threat
     Lecturer: Reina Matsuzawa, JAEA Date and place : 16 June, 2014 in Tokai-mura
• Date and place: 16 June, 2014 in Tokai-mura
• Number of participants: 25

The 4th issue of Nuclear Materials Management Bulletin is being prepared. The bulletin will focuses on the nuclear security related education and training activities such as International Security Education Network (INSEN) of the IAEA and Global Nuclear Human Resources Development for Safety, Security and Safeguards organized by Tokyo Institute of Technology.

7. Other activities
The Japan Chapter sustaining collaboration activities with Nuclear Nonproliferation Study Committee of The University of Tokyo.

8. Membership Status as of the end of the May 2014
• Regular membership: 140
• *Sustaining membership: 25 organizations
• Student membership: 4

Those with* are relevant only to Japan Chapter
The Korea Chapter Executive Committee members are as follows:

President: Dohee Hahn
Vice President: Gyung-sik Min
Secretary: Eun-ha Kwon
Treasurer: Na-young Lee
Members-at-Large: Sook-Hyeon Kim et al.

The balance in the Korea Chapter’s account is 9,842,018 Korean Won as of June 30, 2014. Membership dues amounting to $5,640 USD were wire-transferred to Headquarters on February 6, 2014.

The entire regular membership of the Korea Chapter comprises 94 members as of June 30, 2014.

The activities of the Korea Chapter in this fiscal year have included the following:

1. The 17th Annual Meeting was held on November 14, 2013, at the Renaissance Hotel, Seoul, Korea, with the theme “3S (Safeguards, Security, and Safety) for the Sustainable Development of Nuclear Energy.” Approximately 80 people attended the meeting, and 20 papers were presented in both oral and poster formats, enabling experts to share their knowledge with others. In particular, the recent emphasis on the relationship between safeguards, security, and safety in the aftermath of the 2011 nuclear accident in Fukushima, Japan served as the background for discussions. Two special speakers from abroad were invited: Ms. Shok Iso, the Deputy Director of the Nuclear Material Control Center (NMCC) of Japan, and Ms. Melissa Hersh from the US firm, Hersh Consulting. Ms. Iso spoke about the implementation of safeguards at the Fukushima Daiichi site, discussing both the current status and future plans for managing nuclear materials from a “safeguards” point of view. Ms. Hersh talked about the emergency readiness of nuclear entities at both the national and organizational levels. Although Mr. Ken Sorrenson, President of INMM, had also been invited to the meeting, his participation had to be canceled at the last minute due to a scheduling conflict in Korea. However, he kindly sent a written remark to the participants, expressing his appreciation of the Chapter members’ contributions to the field of nuclear nonproliferation and material control. Mr. Kaoru Naito, President of NMCC, also kindly provided the participants with a paper entitled, “Nuclear Security Lessons from the Fukushima Accident.” The Korea Chapter had scheduled this meeting to take advantage of another international symposium being held on the same day and hosted by the Korea Radioactive Waste Agency (KORAD), which is responsible for managing spent nuclear fuel and radioactive waste in Korea. Some, if not all, of the meeting participants took advantage of this opportunity, enjoying a KORAD technical tour of the Gyeongju Low- and Intermediate-Level Radioactive Waste Disposal Repository that is due to open by the end of 2014. The 18th Annual Meeting will be held in Daejeon in October 2014.

2. During the first quarter of 2014, our energy was fully directed towards setting up a new Chapter website (http://www.inmm-kc.or.kr). This focus had been decided during the last two Executive Committee meetings (held on October 14, 2013 and March 27, 2014), when most attendees acknowledged the need for a website to provide a space to (1) share academic results with other members, and (2) share the personal
resources accumulated by members during the past 16 years. Although there is not yet much content on the website, we hope that with time and effort devoted to its development, this website will encourage communication among members. We plan to set up an English-language version of the Chapter website by the end of 2014.

3. The Committee members have also been discussing taking legal action to make the Korea Chapter an incorporated association. The current legal status of the Chapter under Korean law is only a branch of the INMM, an international association. For this reason, the Chapter’s scope is quite limited. According to Korean law, the Chapter is not eligible to apply for any governmental or non-governmental research funds; it cannot undertake joint research with other Korean entities, despite being the nation’s only society for experts and professionals in the field of nuclear nonproliferation and material control. We consider it a great loss for the community that we, as experts in these fields, should not be given the opportunity to contribute. Making the Chapter an official association will give us the freedom to take action.

4. The Korea Chapter has organized two special sessions for the upcoming 55th INMM Annual Meeting and will present a total of 27 papers at the event.
**Introduction**

I am pleased to report that after a number of false starts, that a number of members of INMM have been able to come together to establish a Chapter of INMM in South Africa. The formation of the Chapter was approved, along with the necessary by-laws in February 2014. Thanks in no small part must go to the members of the Executive Committee. It would also perhaps be appropriate to make a special note of thanks to Dr Willem Janssens of the JRC and Mr Ryan Thaugher of The Partnership for Nuclear Security, and Mr Benjamin DeThomas of CRDF Global who also assisted in the writing of the Chapter’s By-Laws.

The topic of nuclear security, has over the last couple of years, come to the fore in South Africa, and I am pleased to be able to tell the Committee and the Members of INMM that a number of efforts are underway within South Africa, to upgrade the skills necessary to put world class nuclear security systems into place. It is also pleasing to be able to report that these endeavours are being done in a collaborative partnership with a number of international organisations. To the extent now that people from South Africa are actively working to help people and organisations from other countries.

Some of the projects that should be mentioned (and this is by no means an exhaustive list) include:

1. A series of Professional Development Courses (PDCs) that are being jointly presented by the University of the Witwatersrand (Wits), Johannesburg, South Africa and Centre for Science and Security Studies, King’s College London, UK. These PDCs are aimed at both local and international participants with the intention of teaching them both nuclear security skills but also specific teaching techniques. The hope then is that once these individuals have completed a PDC that they are then better able to return to their own teaching/training academies and incorporate their newfound knowledge into new and existing courses. At the half way stage of this project, there have been something like 30 participants from South Africa, but in addition there have also been attendees from Morocco, Egypt, Nigeria, Indonesia, Ukraine and the United States.

2. Wits University is also working with The University of Tennessee to develop an advanced PDC that will be given next year.

3. Wits University and the Institute for Security Studies (an International NGO) will be working with the JRC to bring their acclaimed Esarda programme to South Africa in April 2015.

4. Several academics from universities in South Africa have been asked to assist PNS/CRDF Global facilitate on a number of nuclear security curriculum development workshops that have been organised in the past twelve months.

5. The National Nuclear Regulator of South Africa, in partnership with the South African Department of Energy have also arranged a number of specific training interventions, assisted by the International Atomic Energy Agency.

6. Necsa, The South African Nuclear Energy Corporation have taken a number of steps to upgrade their physical security, including additional access control features and an upgrade of the perimeter fencing.

7. Oakridge National Laboratory (ORNL) are working with Eskom, the South African power utility that operates Koeberg nuclear power station, to refine their ‘Fitness for Duty Programme’ and develop a Human Reliability Programme.

8. ORNL are also working with Wits University to develop an academic table-top exercise on the ‘Insider Threat” that is going to be given to a number of nuclear management trainees as part of an MSc programme designed to bring on the new nuclear managers of the future.

9. Northwest University is working in conjunction with Texas A & M University (TAMU) developing a number of nuclear security collaborations.

10. ORNL and Necsa have a long standing MOU which has seen them co-operating on a number of safeguards projects, a legacy of the weapons programme in South Africa.

11. There have also been a number of faculty exchange between universities in South Africa and the United States and visits to many of the National Laboratories including Sandia, LLNL etc.

**Interim Office Holders**

To facilitate the establishment of the Chapter, and to ensure the principal offices are populated, these positions have been filled by a process of general consensus amongst the establishing members; these selections will be ratified or modified at an appropriate time in the future by a formal...
vote of the members. A brief résumé of the key office holders is provided below.

**Interim President: Mr James Larkin MSc. (Radiation Protection) FRMS**

Prior to working at the University of the Witwatersrand (Wits), Johannesburg, South Africa, I worked for a radiation protection consultancy doing much of our work on the West Rand gold mines, where they have a significant radiological problem associated with the gold ore mined there. I joined Wits University in February 1999, to run a MSc course in “radiation protection and the safe use of radioactive sources”. In 2008 I took on the role of the university’s radiation safety officer and became the Director of the Radiation and Health Physics Unit. In 2010 I was part of the nuclear security team at the FIFA Soccer World Cup that was held in South Africa, running security teams at one of the major stadiums and also the principal international airport in the country. In 2011 this work at the World Cup lead me into the field of nuclear security education where I have been working almost constantly since that time. Working with the Partnership for Nuclear Security (PNS) and a number of other partners, I have travelled extensively lecturing/facilitating/presenting papers on various aspects of nuclear security. Since my start in this area I have been asked to present in Egypt, Morocco, USA, Austria, Brazil and UAE, to name but a few of the places.

**Interim Vice President: Dr Grant Manuel, DPhil, MSAIEE, Pr Tech Eng**

Dr Grant Manuel received his Bachelor and Master degrees from the Cape Peninsula University of Technology and a Doctorate from the University of Johannesburg, South Africa. He has been appointed as the security systems manager at the Nuclear Energy Corporation of South Africa (NECSA). He has undertaken several key projects involving nuclear security and INFCIRC225 compliance. He is a member of the South African Institute of Electrical Engineers and registered with the Engineering Council of South Africa. He has also taken up the position of deputy president of the South African chapter of the INMM.

**Interim Secretary; Lüka Potgieter M Eng. (Development and Management)**

Lüka Potgieter has a background in computing and electronics and is currently working as a Design and Project Engineer at Koeberg Nuclear Power Station, Africa’s only nuclear power station. She also has been working in the arena of nuclear security education. September 2012 attended the Professional Development Course in Cyber Security at Brandenburg University, Germany. As an active member of the Education and Training Sub-Committee of the Nuclear Industry Association of South Africa, she was one of the lead authors on a training and education needs assessment document for the nuclear new build project in South Africa, which has subsequently been adopted by the South African Government and incorporated into their strategies for developing nuclear power in the country.

**Interim Treasurer; Bransby Nangu**

Mr Nangu has been working as a Safeguards Inspector for The Nuclear Energy Corporation of South Africa since 2008. Prior to that he spent some time working for the National Nuclear Regulator (NNR) of South Africa. In his time at Necsa, he has developed a number of specialist skills in NDA and has travelled to both LLNL and ORNL to further develop these skills and also to participate in a number of inter-laboratory exercises. He has authored and presented a number of papers at various conferences and workshops both nationally and internationally. He is one of the three key individuals responsible for getting the South African Chapter of INMM up and running.

**Interim Committee Members-at-large:**
1. Reuben Mogafe, Necsa
2. Dr Iyabo Usman, Wits University
3. Dr Anthonie Cilliers, Northwest University.

The committee members represent both industry and academia, and it is also pleasing to say that we have managed to attract two women (Dr Iyabo Usman and Lüka Potgieter) to join the committee. Going forward we will also try and appoint a Student representative to the committee. Already there has been some interest shown by...
a number of students in the idea of joining the SA Chapter of INMM

**Going Forward**

To maintain enthusiasm within the Chapter it is going to be necessary for the group to remain active. To this end a number of different ideas, other than the usual presentations by local and international experts, have been proposed. Chief amongst these is the possibility of arranging and hosting an INMM branded conference at the University of the Witwatersrand. The target date would be towards the middle of next year. This could be seen as an awareness raising conference both on the broader issues addressed by INMM and about INMM itself. This being the first of hopefully many such conferences, it might well be wise to base it on something like “An Introduction to nuclear security and the INMM”, the intention would be to try and get as many people from African countries involved, those people who thus far have not really been exposed to the concepts of nuclear security and the broader range of themes as represented by INMM.

The Chapter has also set ourselves the task of making strenuous efforts to promote youngsters in the related specialties of INMM, particularly in the light of the proposed nuclear new build in South Africa. Like many other countries in the world, and South Africa is no different, there has been a critical loss of nuclear skills and so it is vital that we do some serious ‘succession planning’ to ensure that as and when the new build project commences, the country is not left with a critical shortage in the necessary nuclear skills needed for a successful build programme.

In another key area that the Chapter is keen to work in, is to help and assist other countries in Africa develop their own INMM chapters, so they too can develop the necessary skills to secure and safeguard their own nuclear and radiological materials. Africa has significant reserves of uranium and thorium, much of it yet to be mined. There are also many thousands of Category 1 and 11 sources distributed around the continent that needs to be carefully and safely managed. Indeed there are many of these types of radioactive sources that, as a result of conflict are left completely unprotected. This is an area in which there are opportunities to do a significant amount of very necessary work, possibly something that could be co-ordinated through INMM members from a number of different organisations and countries.

The coming months and years look to be quite exciting, and it is hoped that through the expansion of INMM into a number of new countries that the whole organisation can be re-energised, and become a truly international organisation. Certainly the South African Chapter, whilst small in size will be hoping to make a significant and meaningful contribution to the efforts of the INMM. Certainly the number of papers being presented at INMM by South African delegates will be evidence of our commitment to the larger body.
This report covers the period January 2014 to March 2014.

On Wednesday 15 January 2014 the Chapter hosted a lunchtime seminar with Trevor Edwards talking about the A.Q. Khan Network. About 30 Chapter members heard about the history of the A.Q. Khan network and Trevor’s view on its demise (or not). The talk was illuminated by personal anecdotes from Trevor during his career within the enrichment area and subsequent work with the IAEA. The photograph shows Chapter President, John Kinney, introducing Trevor to the audience.

The Chapter also took the opportunity of Jonathan Forman, the Science Policy Adviser of the Organisation for the Prohibition of Chemical Weapons (OPCW), visiting Vienna in January. The Chapter hosted lunchtime seminar on Thursday 23 January with Jonathan talking about the OPCW and its verification activities to about a dozen Chapter members. The photograph shows Jonathan receiving a certificate of appreciation and an INMM lapel badge from the Chapter President.

In February the team organising the Symposium on International Safeguards, being held in October 2014, gave a presentation to a small group of Chapter members on the symposium – what it is all about and how members can become involved. The Symposium is being organised by the IAEA in cooperation with ESARDA and the INMM.

During the first quarter of 2014, our energy was fully directed towards organizing the Vienna International Science and Engineering Fair which was held on 15 March 2014, at the Vienna International School, Vienna. Ninety-five students from six international schools in Vienna, as well as the Bratislava International School in Slovakia and the Riverside International School from Prague in the Czech Republic, presented a wide range of high quality projects on different science and engineering topics.

An Awards Banquet was held on 19 March 2014 at the Vienna International School, with 140 people attending, most of them students and their family members. The photo shows the Chapter Vice-president, Carrie Mathews, and the Judging Coordinator, Bernie Weiss, announcing the prize-winners.

The commitment and dedication of our members, as well as the support of the INMM headquarters and other sponsors, made it possible for us to conduct a very successful Science Fair.

Executive Committee of the INMM Vienna Chapter

<table>
<thead>
<tr>
<th>Position</th>
<th>1 October 2013</th>
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</thead>
<tbody>
<tr>
<td>President</td>
<td>John Kinney</td>
</tr>
<tr>
<td>Vice-President</td>
<td>Carrie Mathews</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Fabian Rorif</td>
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<tr>
<td>Secretary</td>
<td>Thomas Jeffrey</td>
</tr>
<tr>
<td>1st Member at Large</td>
<td>Ana Raffo-Caiado</td>
</tr>
<tr>
<td>2nd Member at Large</td>
<td>Karin Burmester</td>
</tr>
<tr>
<td>Past President</td>
<td>Therese Renis</td>
</tr>
</tbody>
</table>
Our membership is growing, and is currently comprised of students from the Nuclear and Radiological Engineering Program (NRE), the Sam Nunn School of International Affairs (INTA), and a few students from the Chemistry Department. We are continuing to reach out and gain new members who share INMM’s interests.

Meetings and Events

MCNP Workshop
April 10, 2014
We hosted our second annual MCNP workshop to introduce nuclear engineering students to this MCNP so that they will have a better understanding and starting point for their research projects. We also had students who have had some experience with MCNP attend to get more comfortable with modeling and defining sources. Overall, we had seven participants, and all left the workshop with a better understanding and greater confidence in their abilities to create radiation particle transport models. We plan continue to offer workshops to our members that will help in undergraduate studies and graduate research.

We have stopped general meetings for the summer, but will resume our monthly meeting schedule in September 2014. We have plans to host an INMM tailgate, reach out to students in nuclear materials management related majors, and continue inviting professionals from national labs and industry to visit and speak to our chapter. If you are interested in visiting Georgia Tech to speak to our chapter please contact Jessica Paul (jpaul9@gatech.edu).

Officer elections will be held in the Fall with new officers taking over in January 2015.

Students attending the INMM Annual Meeting

Jessica Paul- “A Low Cost Qualitative/Quantitative System for Wet Stored Nuclear Fuel”
Spencer Mickum- “Evaluation of Hybrid K-Edge Densitometer for Safeguarding Pyroprocessing Activities” and “Safeguards Motivations and Limitations on Pyroprocessing Activities”
Paul Rose- “Detection of Shielded Special Nuclear Material Using High Energy Gamma Ray Transmission Imaging and Cherenkov Detectors”
Abdallah Abou Jaoude- “Non-Proliferation Characteristics of Composite Nuclear Fuels”
Michael Chin- “Final Design of a Mobile Pit Verification System”
Christopher Stewart- Using Antineutrinos to Detect Single-assembly Diversion from a Long-life Fast Reactor with a Once-through Fuel Cycle”
Erin Gawrone
Allison Harbottle
Jefferson Dixon

We would like to congratulate our past advisor on accepting a new position as Chief Scientist at the Air Force Technical Applications Center. Dr. Sjoden has been an integral part in starting our chapter at Georgia Tech and making our chapter a success. We have selected a new faculty member from the Nuclear and Radiological Engineering Program, Dr. Chaitanya Deo, to act as our new chapter advisor. His expertise is in radiation effects in structural materials and nuclear fuels. He is a great addition to our chapter, and we look forward to our chapter’s continuing growth.

Executive Committee

President: Jessica Paul- jpaul9@gatech.edu
Vice President: Erin Gawrone- gawrone@gatech.edu
Secretary: Spencer Mickum-gmickum3@gatech.edu
Treasurer: Jefferson Dixon- jp.dixon@gatech.edu
Member-at-Large: Dylon Wegner- dwegner@gatech.edu
Advisor: Dr. Chaitanya Deo- chaitanya.deo@me.gatech.edu

We would like to thank INMM for their continuing support of our chapter, and we look forward to participating in future INMM functions.
This past May marks the closing of our first semester as the Idaho State University INMM chapter. We had several rough patches over the course of the semester and many good experiences to go along, such as the tour of the Materials and Fuels Complex at INL. We have also passed the torch on to a new Executive Board, and we hope for them to do well and make our chapter prosper throughout campus.

2013-2014 Executive Board
President: Tony Riley  
Vice President: Rita Hoggan  
Treasurers: John Mulvaney  
Secretaries: Tyson Krieger  
University of Idaho Rep: Lei Tu

2014-2015 Executive Board
President: John Mulvaney  
Vice President: Rita Hoggan  
Treasurers: Gerrit Bruhaug  
Secretaries: Brian Andersen  
University of Idaho Rep: Lei Tu, Marvin Fielding

Executive Board Meetings-Event Planning
September 19, 2013 and January 27, 2014
During this first officers meeting we discussed the newly approved bylaws and what each of our responsibilities are under them. We then discussed what membership fees should be for the chapter, we settled on $5. Then the event planning began, with a tour planned for an INL facility, a tour of Richland, WA nuclear sites for Spring Break, a bowling night at the ISU bowling alley to foster camaraderie amongst our new membership, and a visit from our Pacific Northwest Chapter leadership. The INL facility chosen was the Materials & Fuels Complex because of Executive Board knowledge of, and connections within, the facility. A possible fundraising activity was discussed to show Pandora’s Promise to the public and have the chapter run a concessions stand to benefit sending students to the INMM 55th Annual Meeting, this is still being looked into. Each officer was given a responsible event to coordinate.

April 9, 2014
This meeting was for the transition of new officers. During the meeting we had each officer explain their duties and responsibilities in detail to the new officer replacing him/her. We discussed funding with the new Board, where we keep it and how to obtain it. We also explained to them that we require that all of our officers have national INMM membership as a requirement by INMM. We then discussed the Annual Meeting to take place on July 21, 2014 in Atlanta, GA. INMM will supply funding for the President of our chapter, and that ISU was looking into funding any Graduate Students who might be presenting a paper.

Chapter Meetings
February 5, 2014
During this first meeting we discussed the role of INMM and defined many terms for our new membership. We were able to help give a broad instruction on what nuclear material are important and what safeguard are in place for these materials. At this meeting we discussed the many events we had planned for the rest of the semester, such as the visit from Pacific Northwest Chapter leadership to talk about student opportunities at PNNL as well as provide a short technical presentation on special nuclear material assay of waste drums. We also have a tour of the Materials & Fuels Complex scheduled where post irradiation testing is performed and a working electrochemical processing facility is. Eight members were at the meeting but interest has increased since that time, so future meetings should be well attended.

Activities-Spring 2014
Feb. 18, 2014 – INMM Pacific Northwest Chapter leadership visit and presentation to students
• This meeting had a great turnout from membership. We were all impressed with the presentation and plan to have more like it in the future.

Feb. 21, 2014 – Inelastic Scattering night at bowling alley
• There was not a good turnout from membership, we think either due to scheduling so close to the PNNL meeting or due to not enough communication. We plan to attempt this event again in Fall 2014 in hopes that new members can meet everyone.

March 20, 2014 – Tour of Materials & Fuel Complex at INL
• This tour was impressive and fun for the membership. We will definitely try to schedule more like it in the future.
Introduction:

Jordan University Of science and technology is meeting its purposes related to security and nuclear materials through the INMM students Chapter located at the department of nuclear engineering.

Being a new nuclear country, Jordan wants to prepare students with many qualifications. JUST INMM student chapter was and still a rich field for students to communicate with each other, with the community around and with nuclear facilities all around the world.

JUST INMM student chapter is now three years old.

Chapter 2013-2014:

Activities:

Participating with the scientific day held at JUST:
On 1 May 2013, JUST INMM student chapter has introduced itself to all engineering departments at JUST at this day. Members of INMM talked about the Institute goals and opportunities offered for members through it.

They also talked about nuclear energy applications and adequacy.

Elections

On 3 October 2013, Elections for new administration authority was held. The results are:

President: Reem Khrais
o.reem.o@hotmail.com

Vise President: Mohammad Otoom
mohamad27491@gmail.com

Secretary: Saed Al-Momani
saed1992mo@hotmail.com

Treasurer: Laith Zaidan
Leith_zeidan@live.com

Members:
Issa-Toqa Bani
toqabaniissa_92@yahoo.com
Kamal Harahsha
walid23456@gmail.com
Shayyab-Saddam Al
alsheyabsaddam@yahoo.com
Rasheed-Ayyman Al
Ayman.arrasheed@yahoo.com
Zaid Taher
zaid.abdtaher@gmail.com
Jamous-Saif Abu
saif_abujamous@hotmail.com

Electronic poll:

A poll was spreaded through social websites, to study public awareness about nuclear technology. It consists of several questions that focus on how much public know about nuclear, and with their acceptance of nuclear technology reflects their knowledge.
Facebook Page:

In order to reach as much people as possible. A Facebook page was established. It focuses on introducing public to all what is about nuclear and energy mix.

Joint Papers:

JUST INMM student chapter collaborated with INMM chapter of Texas A&M. This experience gave the opportunity to meet nuclear students from other universities, and to learn from their chapter experience and knowledge. JUST – A&M Paper is about making a comparison between our both curriculums. It focuses on Safety, Security and Safeguards.

Next Step: A meeting has been held on May to discuss the plan for the second semester. The plan Include: 1. A Debate. 2. Meeting with a nuclear scientist from JNRC (Jordan Nuclear Regulatory Commission). 3. Watching a movie. A nuclear documentary one: Pandora Promise. The plan is flexible to add additional ideas.

Budget:

A (268)JD was received, And the expenses were (227) JD

<table>
<thead>
<tr>
<th>expenditures</th>
<th>Number</th>
<th>Price (JD)</th>
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<tbody>
<tr>
<td>Roll up</td>
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<td>15</td>
</tr>
<tr>
<td>Posters</td>
<td>2</td>
<td>50</td>
</tr>
<tr>
<td>leaflets</td>
<td>200</td>
<td>110</td>
</tr>
<tr>
<td>Chocolate</td>
<td>2</td>
<td>32</td>
</tr>
<tr>
<td>Chocolate</td>
<td>5 months</td>
<td>10</td>
</tr>
</tbody>
</table>

the remainder = 268-227 =41JD
This past year has been a busy one for the INMM Chapter at the Monterey Institute of International Studies! In addition to strong showing at last year’s Annual INMM Conference in Palm Desert where chapter members Marc Quint, Jerry Davydov and Catherine Dill, all presented well-received projects at the conference, it is expected that we will have several more strong presentations at this year’s conference. Aside from individual achievements of the chapter’s members, our chapter has focused on trying to integrate INMM events better with the larger Monterey campus and did so very successfully through last November’s Pandora’s Promise screening which drew students from all the programs on campus. We hope to continue seeking out events like the screening that address more cross-cutting issues and can bring together students and faculty from all the disciplines on campus.

2014 Executive Board:
President: Tom Gray
tgray@miis.edu
Treasurers: Adam Proveaux
aproveaux@miis.edu
Secretaries: Grecia Cosio Flores
gcosioflores@miis.edu
Member-at-Large: Einar Engvig
eengvig@miis.edu
Member-at-Large: Lewis Dorman
ldorman@miis.edu
Member-at-large: Tom Gray
tgray@miis.edu

Pandora’s Promise
18 November 2013
The Pandora’s Promise movie screening was undoubtedly our largest and most involved event of the school year, requiring the support of the entire chapter for it to run smoothly. The movie, which was screened at last year’s INMM Annual Conference, is a documentary that examines the debate over the pros and cons of nuclear power. Specifically, it addresses the advantages of nuclear power in the context of climate change, and for this reason it was chosen as a means of engaging as many students as possible across the wide range of interests on the Monterey Institute Campus.

In total, it is estimated that approximately 80 students and staff attended the movie screening and panel discussion that immediately followed it, which is considered an immense success considering the small size of our campus. The three panelists who participated in the panel discussion were as follows: 1) Jason Scorse from the Center for the Blue Economy, who discussed the environmental impact of nuclear power; 2) Phillip Bleek, MIIS Professor from the Graduate School of International Policy and Management who discussed the policy implications of the film; and 3) Ferenc Dalnoki-Veress, Research Scientist at the James Martin Center for Nonproliferation Studies, who discussed the technical aspects discussed in the film. Ultimately, while it was concluded that the film could have provided more substance and less emotion, all three panelists agreed that the film provided an excellent tool for inspiring discussion on many of the complex topics addressed in the film.

Tour of the USS Louisiana
27 May 2014
Marc Quint, former INMM MIIS Chapter Vice President, organized a tour of the USS Louisiana, a ballistic missile submarine stationed in Bangor Naval Base, near Seattle WA. The tour was hosted in cooperation with the University of Washington INMM Chapter, and ultimately ten participants made it out the base to do a tour of the submarine and several of the training facilities on the base. It should be noted that the US Navy contact who arranged the tour said that they are always looking for students groups like the INMM student chapters as it presents an excellent recruiting opportunity for the Navy and an amazing experience for the students.
2014 Future Planned Activities

Fall 2014
To inspire greater participation in chapter meetings, meetings in the fall will be directly followed by a nuclear related movie screenings with commentary provided by Dr. George Moore, Scientist in Residence at the James Martin Center for Nonproliferation Studies

October 2014
Nuclear Science Merit Badge Event for local Boy Scout Troops

November 2014
Potential speaking engagement and book signing with Eric Schlosser, author of Command and Control and local resident of Carmel, CA.
Greetings from Pandit Deendayal Petroleum University.

The PDPU-INMM Student Chapter is pleased to have grown our partnerships this past year with other student chapters around the world. The main aim behind the formation of PDPU-INMM student chapter in India, was to bring Nuclear Industry experts and students on such a platform where students can learn from the Industry Experts and enhance their understanding about Nuclear Safety, Security and safeguards. To provide a platform for students in nuclear engineering and other related fields, PDPU Student Chapter successfully organized many events.

In this summer, our chapter members are moving all around the world to enhance their knowledge about the subjects and building new contacts with the think-tanks, researchers and scientists. Whether it’s training at Nuclear Power Corporation of India Limited or attending Nuclear Security certificate course at Texas A&M or visiting ORNL, SNL. All members are going to attend the INMM 55th annual meeting at Atlanta. Most of the members will be attending the INMM annual meeting for the first time.

The following is a chronology of this past year’s events at the Pandit Deendayal Petroleum University.

Past Events:

1. Participation of PDPU-INMM Students at India Nuclear Energy Summit 2013 (28th Nov-2013 to 30th Nov. 2013)

   The summit was organized for energy security for the future and to bring together buyers and sellers, national and international, on varied platform to discuss and transact business conveniently. It was really energetic and enthusiastic experience for the students. The interaction with national and international companies was well experience for the students. The major highlight was speech and technical presentation from expert speakers belongs to various research institute and companies. The representative from different companies involved in panel discussion in various topics. It was intellectual experience to be part of such kind of discussion. All the sixteen students (1st & 2nd year) from Pandit Deendayal Petroleum University, Department of Nuclear Energy attended three day ‘INDIA NUCLEAR ENERGY SUMMIT- 2013’ from 28th Nov.2013 to 30th Nov. 2013.


   The one day symposium turned out to be a strong platform for researchers and players to come together and discuss the issues, challenges and way forward in the development of India’s nuclear energy program. Each of the speakers demonstrated the advancements being conducted in the field of nuclear power generation and the safe ways to take these developments forward.


   Mr. Daniel Miller (U.S. Department of State), Dr. Robert Finch (Sandia National Laboratory) Dr. Sunil Chairayath (Texas A & M University) visited PDPU.

4. Guest Lecture on Nuclear Threat Analysis from Mr. Mathew Swinney (7th Feb 2014)

   Mr. Swiney who is a PhD student at TAMU and Guest Faculty at PDPU for 1 month talked about nuclear threat analysis. His presentation focused on analyzing the treats and developing the security and safety measure and to develop a quick response mechanism to deal with any undesired events. He shared his experiences by stating the example on how security was breached and how it was responded. It was a very informative presentation.

5. Enrollment of Ten New Members in INMM (07th March 2014)

6. Dr. M. Saibaba ‘s Visit to PDPU (20th April 2014)

   Associate director of IGCAR (Indira Gandhi Centre for Atomic Research) Dr. M. Saibaba visited PDPU for a brief interaction with the students of Nuclear Engineering Department on 20TH APRIL.

7. Mr. Shrishail Padasalagi’s visit to PDPU (25th April 2014)

   Head of Design office, ITER Mr. Shrishail Padasalagi along with Scientist-SE Mr. Chandramouli Rotti visited PDPU for a brief interaction with the students of Nuclear Engineering Department on 25TH April 2014.

8. PDPU-INMM Student Chapter page on the NuSaSET portal (10th June 2014)

   http://www.nusaset.org/index.php?option=com_content&view=article&id=514&Itemid=426
Future Events:

(1) Guest Lectures Seminars:
In next one year duration we will arrange guest lectures and seminars in the duration of two months. The INMM student will be exposed to some of the finest business brains and industry leaders in India and abroad. Arrays of stalwarts are an integral part of the INMM philosophy of learning from leaders. Direct one on one interaction with people of this stature provide the INMM student with inspiration and play a large role in professional grooming to be industry ready.

(2) Student Online Interaction Activity with Other Student Chapter across the globe:
The purpose of the interaction is to introduce graduate students to ongoing research in the other universities across the globe. It will be good exposure for those who have not decided in which field of research they would like to pursue their career, this is an excellent opportunity to sample the various research opportunities.

(3) Student Outreach Activity and Technical Quiz:
The quiz will include questions from Basic Nuclear Energy, which will create awareness and positive sentiment among students of other streams.

(4) Nuclear Energy: A Sustainable and Reliable Alternative to Meet India’s Energy
Demand in association with DAE units, Amity University, IIT Delhi: The objective of the symposium is to foster the exchange of information on topical issues in nuclear safety, especially on issues that ensure safety for sustainable nuclear development. The symposium will identify foundations for international and national consensus on the basic approaches for dealing with these issues, and will propose recommendations concerning:
• The vital role of national regulators and international organizations in the global harmonization of nuclear safety;
• Opportunities for nuclear development: the perspectives of vendors and operators;
• Safety infrastructure for nuclear programmes
• Safety management and operational experience feedback; and
• The recent development in Technologies to improve safety culture.

(5) Industrial Visit: IPR, L&T
PDPU INMM Student Section offers Nuclear Engineering students an Industrial visit to Kakrapar Atomic Power Station (KAPS) near Surat, Gujarat. Students will spend two days in the plant and they will learn about electricity generation from nuclear sources, various safety aspects, plant automation, source of nuclear fuels and nuclear disposal, etc. During the visit students could ask questions about technical details of the plant to plant engineer.

(6) Video Lecture by Foreign Expert:
Get information about the topic that is updated more frequently and participate in discussions and interaction with the expert in the nuclear field. Recent developments and research in their Nuclear Program

(7) Pandora’s Promise Movie show:
Pandora’s Promise is a 2013 documentary film, directed by Robert Stone. It presents an argument that nuclear energy, typically feared by environmentalists, is in fact the only feasible way of meeting humanity’s growing need for energy while also addressing the serious problem of climate change. In June 2013 it won Sheffield Doc/Fest’s Sheffield Green Award for best addressing environmental challenges.

(8) INMM Chapter Officers Election:
Several Officers Post like President, vice president, treasurer, secretary, joint secretary and webmaster are elected by voting of current members. Nominations are filled and submitted to faculty advisor.

(9) INMM Chapter Meeting:
There will be five meetings of chapter members to plan strategy for chapter activities, requirements, and discuss the progress of chapter.
Pennsylvania State University Student Chapter
Christopher Sopko, Chapter President

The following is a summary of the activities held by the Pennsylvania State INMM Student chapter for the 2013-2014 academic year. Penn State INMM (hereafter referred to as PSU-INMM) membership has grown over this past year (see Figure 1), and it is our hope that this trend will continue for our 2014-2015 year.

We would like to thank our outgoing officers for a wonderful year, and encourage all of them to maintain a level of connectivity with INMM. They are as follows:

*President: Chris Sopko  
cjs5599@psu.edu
*Vice President: Sarah Sarnoski  
ses49@psu.edu
*Secretary: Rahul Ghosh  
rkg5073@psu.edu
*Treasurer: Nancy Sinha  
nws5163@psu.edu
*Outreach: John Klecha  
jsk5297@psu.edu
*Faculty Advisor: Prof. Igor Jovanovic  
izj1@psu.edu

Summary of events:

INMM Annual Conference  
This year we sent five of our members to INMM’s annual conference. While in attendance, members attended panels on various subject matters from INMM’s six disciplines. In addition, members brought back useful information to help improve the upcoming 2013-2014 school year. The knowledge gained from this conference helped us to keep our membership numbers stable, despite so many members graduating. With another successful conference behind us, Penn State students are looking forward to attending the next annual conference this summer in Atlanta.

Presentation by Brian Boyer  
August 29th, 2013
After speaking to the nuclear engineering department, Dr. Boyer agreed to come speak to potential new INMM members and showed them the benefits of joining INMM. This talk was followed by dinner with Dr. Boyer, with INMM officers of the past and two members of the nuclear engineering department in attendance.

Presentation by Stephen Mladineo (NNSA)  
September 16th, 2013
Mr. Mladineo visited PSU to give a talk on MPC&A as well as the NNSA Graduate Fellowship Program. His talk was followed by dinner and drinks with PSU-INMM past and current officers. Two of our students, Jessica McNutt and Sarah Bender, participated in the NNSA fellowship program last year, while Kyle Hartig participated the previous year.

Presentation by James Disser (BNL)  
September 18th, 2013
James visited Penn State University to give an overview of the work done at Brookhaven National Laboratory in the Nonproliferation and National Security Department as well as opportunities for research available at the national laboratories related to safeguards and security. He also discussed the various positions, and requirements, available at the International Atomic Energy Agency in Vienna,
Austria. His talk was followed by dinner and drinks at a nearby restaurant. A coworker of his, Tanya Collins, was present to help provide students an easy way to get access to information about current job openings in the IAEA.

**General Body Meeting**  
**September 23rd, 2013**  
In our second general meeting, PSU-INMM discussed the future of INMM and held elections for vacant officer positions. The elections were followed by a social lawn bowling event, in which members who had time stayed and enjoyed themselves.

**Special Study Event**  
**October 18th, 2013**  
In this specially called meeting, PSU-INMM volunteers came and helped tutor junior INMM students in Penn State’s nuclear science class, NUC E 301. With this subject being a backbone to many of INMM’s many institutions, we felt it appropriate to help some of our newer members get a better understanding of the field and help them prepare for an upcoming test. Six junior members of INMM and a WIN officer attended, and with its success, plans for another similar event in December are likely.

**General Body Meeting**  
**January 23, 2014**  
This general body meeting was held in place of a postponed guest speaker event. A discussion of what was planned to be a busy next two months occurred. Particular emphasis was put on our upcoming visit to Brookhaven National Lab, where students would be attending workshops hosted by the lab.

**Brookhaven National Lab Workshop**  
**March 19-20, 2014**  
Our chapter of INMM was given the opportunity to attend workshops at Brookhaven National Lab (BNL). While at BNL, students had the opportunity to listen to excellent lectures and participate in events hosted by various speakers from many departments within BNL. Students also had the opportunity to visit BNL’s light source, NSLS, and parts of their new light source, NSLS II. A special thanks to Ms. Susan Pepper for organizing this event for us.

**Presentation by Paul Ebel**  
**March 24, 2014**  
Mr. Ebel visited Penn State University to talk to students about the “INMM 11 Tips for a Better Presentation”. This famous lecture within the INMM community was delivered at the perfect time for students, with the ANS Student Conference the following week. Many of the students presenting at the 2014 INMM Annual Conference were also greatly appreciative of the information Mr. Ebel presented to us.

**INMM Workshop Event - ANS Student Conference**  
**April 3, 2014**  
During the 2014 ANS Student Conference at Penn State, our chapter helped host a workshop event for INMM. During this workshop, short lectures on INMM, safeguards, and security introduced attack and defend style events. These events were designed to give students an opportunity to think like safeguards and security personnel while promoting our organization. Experts in the field critiqued different groups’ of students plans, giving these students an idea of what can be reasonably applied in the field. A special thanks to Steve Ward for his part in organizing the event, to Brian Boyer and Joe Rivers for lending their time and skills to this event, and to the Penn State ANS Student Chapter for giving us the opportunity to introduce INMM to a wide variety of students.

**Presentation by Joe Rivers**  
**April 15, 2014**  
Joe visited PSU to give a presentation on a project to inform security requirements based on the attractiveness of special nuclear materials to an adversary, and a discussion on risked informed security. As nuclear security is a subject usually not touched on by university members, this was an excellent opportunity for students to explore one of the Technical Divisions of INMM. Students in attendance at the ANS Student Conference also had the opportunity to expand on what Joe had already presented during the INMM workshop.
General Meeting
April 22, 2014
The final meeting of the semester brought about elections for some of the 2014-2015 PSU-INMM officers. Our upcoming officers will consist of:
*President: Sarah Sarnoski
ses49@psu.edu
*Vice President: Luis Ocampo
lio5000@psu.edu
*Treasurer: Adi Shivprasad
aps202@psu.edu

with Secretary and Outreach officers being elected in the fall so as to provide new members a chance to be active within the organization. Further discussions focusing on the itinerary of our upcoming trip to Jefferson National Lab and the INMM National Conference took place.

Jefferson Lab Open House
May 17, 2014
PSU-INMM members were given the opportunity to explore aspects of particle physics at Jefferson Lab during its open house this year. Five members attended this event and had a chance to talk to professionals, hear lectures, and explore current projects being worked on at Jefferson Lab.

Final Statements
It is our hope that the PSU INMM Chapter will continue to draw in new members from a variety of disciplines and maintain a strong level of connectivity with INMM international. It is our belief that this chapter’s upcoming officers (See General Meeting – April 22nd for a list of officers) can accomplish these goals, and we would like to wish them luck in the upcoming academic year.
Greetings from Aggieland!

The Texas A&M University INMM Student Chapter is pleased to have grown our partnerships this past year with other student chapters around the world and among the students here at home. As we see the expansion of nuclear energy around the world, the foundation and the future of a strong global nuclear security culture rests in the international student body. To foster this culture, the Texas A&M INMM Student Chapter has made a commitment to reach out to our student colleagues. We hope to make lasting friendships with the students and professionals that are part of nuclear materials management community.

As we develop these partnerships, we look forward to promoting the Aggie standard of excellence in the discovery, development, communication, and application of knowledge in our respective fields. Around the world and within the academic community, Texas A&M University has a lasting legacy of leadership, excellence and service.

The Texas A&M University INMM Student Chapter is proud to be a part of that legacy.

Nicholas Quintero, 2013-14 INMM Student Chapter President Texas A&M University

Chapter Introduces New T-Shirt Design

Continuing the tradition, the Texas A&M Student Chapter will be introducing a new creative t-shirt design at the 2014 Annual Meeting in Atlanta, GA. The design was chosen from a series of submissions as part of a competition amongst the membership. INMM members submitted their creative content and the finalist was chosen by the membership via an online ballot hosted on the TAMU/INMM website.

The chosen design parodies the well known theme and slogans from the 1983 Cold War science-fiction film War Games. The designs will be printed on black t-shirts and will be available for purchase along with the traditional INMM polos and t-shirts this July.

Comparison of 3S Curriculum with the Jordanian University of Science and Technology

In keeping with this year’s theme of making friends at home and abroad, the TAMU INMM Student Chapter collaborated with the Jordanian University of Science and Tech-nology INMM Student Chapter to develop a comparison of the two schools’ Safety, Secu-rity, and Safeguards (3S) curriculum. The comparison focused on the course specific as well as programmatic elements of the two universities. After examining the curriculum and educational programs of both schools, the intention of this analysis was to introduce the different approaches of both schools and provide an explanation of their respective strengths. In addition, this analysis will hopefully provide helpful assessment of the possible future collaboration between the two universities. The results of the collaborative work will be presented at the 2014 INMM Annual Meeting.

NDA Educational Training Video

The TAMU Student Chapter has completed the filming for the Non-Destructive Assay Educational Video the week of the April 28th - May 2nd. Sponsored by the Department of Energy’s Materials Control and Accountability Program, the video is intended to communicate important elements of the NDA concepts to non-scientific members of the security community. The theme of the video is intended to be accessible and entertaining. An informal narrative approach, inspired by the “Blimey Cow” video blog series on YouTube, was chosen as the most appropriate theme for the vignettes. After responding to a casting call by the
U.S. Department of Energy National Training Center in Albuquerque, NM, TAMU students Jennifer Erchinger, Stephen Gerlt, and Ryan Coogan from the TAMU INMM student chapter were featured in the film. The final product of the scripting and filming is a cohesive video, timing around 8 minutes. The clear, yet comical, manner in which ten fundamental principles of Non-Destructive Assay are presented aims to keep a non-technical audience engaged throughout the entirety of the video.

2013 INMM Annual Meeting

The student chapter enjoyed a robust turnout at the INMM annual meeting in July with multiple paper presentations given by students and faculty advisors. The chapter was excited to have established a relationship with the newly formed student chapter at Pandit Deendayal Petroleum University (PDPU) in India and greeted students from Gadjah Mada University in Indonesia. It was apparent to the chapter Executive Committee that a dedicated position for continuing these international relationships was necessary. To accomplish this objective Mr. Manit Shah was appointed as the chapter’s new International Relations Liaison. Mr. Shah, who is currently pursuing his PhD in Nuclear Engineering at Texas A&M, is a former PDPU student and has worked with their students and the faculty advisor who are members of the Indian INMM student chapter.

Collaboration with the Tokyo Institute of Technology

The TAMU INMM Student Chapter helped welcome students and faculty from the Tokyo Institute of Technology (TI Tech) as they participated in an Academic Exchange with the Nuclear Security Science and Policy Institute from September 11-13. Officers from the TAMU student chapter were able to introduce the TI Tech students to the benefits of INMM and explain the steps required to form a student chapter at a their University. Continued positive collaboration was facilitated as a delegation of TAMU students participated in a two week academic exchange that attending the International Symposium and Seminar on Global Nuclear Human Resource Development for Safety, Security and Safeguards. There, TAMU/INMM Vice President Rob Zedric presented an overview of INMM’s objectives and answered questions from participants who showed further interest.

2013 Fall Cookout

On November 3rd, 2013 the Texas A&M INMM Student Chapter and the Nuclear Security Science and Policy Institute hosted the first annual cookout. Special guests included faculty from Gadjah Mada University who are in the process of starting their own INMM student chapter. INMM student members, Nuclear Engineering faculty, and their families spent time relaxing and enjoying food, games, a marshmallow roast, and the beautiful scenery at the Lake Bryan pavilion.
Student Members Participate in 2014 Southwest Region Chapter Taos Technical Meeting.

Students from the TAMU/INMM Student Chapter participated in the 2014 INMM Southwest Region Chapter Taos Technical Meeting on Saturday, May 15th. The Technical Meeting was the last stop in a series of technical tours that INMM student chapter members and other students from Texas A&M were privy to as part of a New Mexico facility road trip sponsored by the Texas A&M Nuclear Engineering Department. Other stops included URENCO and Sandia National Laboratories. Students presented their work at the Technical Meeting allowing for peer review in preparation for the 2014 Annual Meeting.

Collaboration with International Student Chapters

Gajah Mada University (GMU)
The TAMU chapter has been communicating with the students at Gadjah Mada University in Indonesia as they work towards laying their own chapter’s foundations. The respective chapter presidents have hosted several video teleconference calls exchanging ideas. Texas A&M INMM Chapter President Nick Quintero was able to send a short welcome message via Skype to the GMU Student Chapter during one of their first meetings in the fall of 2013.

Jordan Institute for Science and Technology (JUST)
Officers of the TAMU student Chapter and officers of the JUST student chapter have been working on opening communication lines to further collaboration. The two chapters completed a collaborative research project that investigated the security, safety, and safeguards curriculum for both schools.

Pandit Deendayal Petroleum University (PDPU)
Officers from the PDPU INMM Student Chapter and the TAMU INMM Student Chapter have started a dialogue with the intent of developing a stronger relationship and sharing best practices. Officers from both chapters hosted a video teleconference and discussed the upcoming 2014 Annual Meeting in Atlanta, GA.

Student Chapter Membership

The TAMU INMM Student Chapter was able to host a variety of special guest speakers since the beginning of the academic year. Membership was formalized at the start of the Spring 2014 Semester allowing for more structured accountancy. Currently, 36 student members are on the official roster with the Texas A&M Student Chapter. Members consist of students from the Bush School of Government and Public Policy and the Department of Nuclear Engineering. Members are not required to pay dues to the student chapter but are highly encouraged to join the larger professional organization. General meetings are open to the public and usually draw an attendance of 40-50 students. Events and socials exclusive to members are some of the incentives associated with the structured membership.

2013-2014 Events

Sept 9th, 2013
NNSA Graduate Fellowship Information Session

Sept 11th, 2013
David Court, Los Alamos National Laboratory

Sept 11th, 2013
Beginning of the Year Social - Special Guests, Tokyo Institute of Technology

Sept 25th, 2013
Dr. Singh, Indian Institute of Technology-Kanpur - “Fast Reactor Technology”

Oct 8th, 2013
Dr. Ana Claudia Raffo-Caiado, Director, IAEA Division of Programme Support and Coordination

Nov 3rd, 2013
Cookout with Nuclear Security Science and Policy Institute Faculty and Staff at Lake Bryan

Nov 19th, 2013
Col Kevin Gamache, USAF (Ret), - “The START Inspection Process: A U.S. Team Chief’s Perspective.”

Jan 30th, 2014
Dr. Jasen Castillo, Bush School of Gov. and Public Policy - “Role of Nuclear Weapons in Assuring Current U.S. Allies”

Feb 24th, 2014
Prof Richard Mac Namee, Bush School of Gov. and Public Policy - “The 5W’s of Terrorism”
Texas A&M University Student Chapter (cont.)

Fed 24th, 2014
Beginning of the Semester Social

March 25th, 2014
Words of Wisdom: The Internship Experience

April 10th, 2014
Student Forum Discussion on the Russia/US Relations on Ukraine and the Implications to Nuclear Security

April 24th, 2014
Dr. William Charlton, Director, Nuclear Security Science and Policy Institute, Texas A&M University - “Nuclear Weapon Latency.”

April 24th, 2014
End of the Academic Year Social

May 15th, 2014
INMM SWR Chapter Taos Technical Meeting

Student Chapter Prepares for Participation in 2015 ANS Student Conference

Recognizing the benefits of collaboration among professional organizations, the TAMU/INMM Student Chapter will be contributing to the 2015 American Nuclear Society Student Conference which will be held at Texas A&M University. The student chapter plans to feature a series of nonproliferation specific breakout sessions that compliment the conference’s mission and provide students exposure to important issues in nuclear security.

2014-15 Chapter Officers:

President
Robert Zedric
r.zedric@gmail.com

Vice President
Manit Shah
manitshahd@gmail.com

Secretary
Timothy Jacomb-Hood
jacombhood@gmail.com

Treasurer
Meyappan Subbaiah
meysubb@neo.tamu.edu

Web Master
Jose Trevino
j.f.trevino361@tamu.edu

School Liaison
Eric Pennington Bush
ebpenningtonbush@neo.tamu.edu

Undergraduate Liaison
Matthew Schaper
matschaper@tamu.edu

Col. Kevin Gamache addresses students during an INMM meeting.
With the completion of another year in the triangle area, we had many successful events to attend throughout the academic year here in Raleigh, NC.

The following are a list of the past year’s events at the Triangle Area INMM Student Chapter.

<table>
<thead>
<tr>
<th>Date</th>
<th>Type</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/9/2013</td>
<td>Social</td>
<td>Interest Meeting</td>
<td>Dr. John Mattingly</td>
</tr>
<tr>
<td>09/26/2013</td>
<td>Meeting</td>
<td>Neutron Detection for Nuclear Forensics</td>
<td>Dr. Justin Clinton</td>
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<tr>
<td>10/16/2013</td>
<td>TISS Luncheon</td>
<td>Vulnerabilities in the Nuclear Fuel Cycle</td>
<td>Prof. John Mattingly</td>
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<tr>
<td>10/17/2013</td>
<td>TISS event</td>
<td>From the Amish to the Atomic Bomb</td>
<td>Laban Coblentz</td>
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<tr>
<td>10/21-25/2013</td>
<td>Meetings, Panel, and Tours</td>
<td>National Nuclear Science Week Co-Host with American Nuclear Society and Graduate Student Association</td>
<td>Multiple Speakers</td>
</tr>
<tr>
<td>10/21/2013</td>
<td>Movie</td>
<td>Viewing of Clean Energy Movie “Switch”</td>
<td>N/A</td>
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<tr>
<td>10/22/2013</td>
<td>Tour</td>
<td>Tour of PULSTAR Research Reactor</td>
<td>N/A</td>
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<tr>
<td>10/22/2013</td>
<td>TISS event</td>
<td>Kim Jong-Un and North Korean Nuclear Policy</td>
<td>Lawrence Grinter</td>
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<tr>
<td>10/23/2013</td>
<td>Panel</td>
<td>The Future of Nuclear Engineering</td>
<td>Prof. Igor Bolotnov, Prof. John Mattingly, Prof. Steve Shannon</td>
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<tr>
<td>10/24/2013</td>
<td>Seminar</td>
<td>Consortium for Advanced Simulation of Light Water Reactor</td>
<td>Dr. Paul Turinsky</td>
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<tr>
<td>10/25/2013</td>
<td>Meeting</td>
<td>Boy Scout Nuclear Science Merit Badge</td>
<td>N/A</td>
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<tr>
<td>01/27/2014</td>
<td>Meeting</td>
<td>The Nuclear Revolution &amp; American Grand Strategy</td>
<td>Dr. Francis Gavin</td>
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<tr>
<td>2/19/2014</td>
<td>TISS Luncheon</td>
<td>International Energy Policy</td>
<td>Dr. Tana Johnson</td>
</tr>
<tr>
<td>04/10/2014</td>
<td>Meeting</td>
<td>Nuclear Material Signatures and Safeguards Radiation Measurements</td>
<td>Dr. Louise Evans Worrall and Dr. Andy Worrall</td>
</tr>
<tr>
<td>04/16/2014</td>
<td>TISS Luncheon</td>
<td>Nuclear-Weapons Programs and the Security Dilemma</td>
<td>Dr. Kyle Beardsley</td>
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**September 9, 2013 – Interest Meeting**
The year started off well with an interest meeting where Professor John Mattingly spoke about the Institute of Nuclear Materials Management and what it means to be a member. We had a good turnout of approximately 20 people.

**September 26, 2013 - Neutron Detection for Nuclear Forensics**
In this presentation, Dr. Justin Clinton presented his research into an alternate neutron spectrometer that incorporates design elements to accurately determine source location while preserving neutron energy resolution, as well as a method for unfolding the incident neutron energy spectra from the spectrometer response function.

**October 16, 2013 – Vulnerabilities in the Nuclear Fuel Cycle**
Professor John Mattingly discussed what makes SNM “special” in terms of its attractiveness for use in weapons, the process by which SNM is made and the technologies used to make it. He also spoke of how these processes and technologies can be used to exploit the nuclear fuel cycle to produce nuclear weapons and the resultant “holes” in current international nuclear nonproliferation efforts.

**October 17, 2013 - From the Amish to the Atomic Bomb**
To illustrate the dysfunctional relationship between modern society and technology, Laban Coblentz drew on a disparate set of experiences that include his Amish-Mennonite childhood, his work with nuclear weapons inspection teams in pre-war Iraq and Iran and his efforts to streamline the transfer of innovation from the research university to the global marketplace.

**October 21-25, 2013 – National Nuclear Science Week**
Over National Nuclear Science Week there were two tours of the PULSTAR research reactor and a movie night for the clean energy movie “Switch.” There was also a Shearon Harris Nuclear Power Plant Presentation, a Consortium for Advanced Simulation of Light Water Reactor Seminar, and a panel discussing the Future of Nuclear Engineering with Dr. Bolotnov, Dr. Mattingly, and Dr. Shannon, who have expertise in fission and thermodynamics, non-proliferation, and industrial plasmas and fusion engineering respectively. And to conclude the nuclear science week, the nuclear community supported Boy Scout Nuclear Science Merit Badge.

**October 22, 2013 - Kim Jong-Un and North Korean Nuclear Policy**
Lawrence Grinter discussed North Korean Nuclear policy concerns drawing from his studies and published books as a Professor of Asian Studies from Air War College.
Dr. Francis Gavin discussed how nuclear weapons have affected and will continue to affect U.S. strategy and world politics.

February 19, 2014 - International Energy Policy
Dr. Tana Johnson discussed her experiences in the Global Governance Futures Program and interesting suggestions as to how to keep climate change on the policy agenda along with how to mitigate climate change even if a global climate policy cannot be reached.

April 10, 2014 - Nuclear Material Signatures and Safeguards Radiation Measurements
This meeting provided an overview of nuclear material signatures in the context of safeguards and described the work performed at ORNL in safeguards radiation measurements. The second part discussed uncertainties in NDA measurements that may impact the ability to draw meaningful safeguards conclusions from those results. Detail was provided on a Next Generation Safeguards Initiative exploratory research and development project to improve NDA measurements of 233U from a nuclear data perspective. The meeting concluded with an open discussion about the presentation and other relevant questions related to the nuclear policy.

April 16, 2014 - Nuclear-Weapons Programs and the Security Dilemma
The talk given by Dr. Kyle Beardsley from Duke University addressed how nuclear-weapons programs are a source of instability and cause of international crises while the attainment of nuclear weapons tends to be a source of stability. Policy applications were discussed with regard to the so-called nuclear renaissance that involves the potential spread and expansion of civilian nuclear energy programs.

The Officers for the 2013-2014 academic year were as follows:
President Kyle Weinfurther kjweinfu@ncsu.edu
Vice President Kalene Hanson kmhanson@ncsu.edu
Secretary Molly Glass mjglass@ncsu.edu
Treasurer Kelsey Reamer kareamer@ncsu.edu

Our entire chapter wishes to express our sincere thanks to the INMM and all the members of the Executive Committee for all your generous support.
It has been another busy and productive year for the Institute of Nuclear Materials Management student chapter at the University of Michigan. Some of our goals included increasing the number and variety of social events, engaging with the Ford School of Public Policy and coming up with new events beyond invited seminars. Some new initiatives included a panel discussion co-hosted with the public policy school and a model UN style debate on the Iran nuclear deal. The new executive board will surely continue to set new and exciting goals for the upcoming year. Below is a recap of the past year’s events.

**July 11th - 12th 2013—Presentation Practice Sessions:**
Our chapter hosted practice sessions for all University of Michigan INMM presenters. This provided a fantastic opportunity to practice in front of a large crowd. Each presentation was followed by a time slot to provide insightful critique of the presentations.

**July 14th - 18th 2013—54th INMM Annual Meeting:**
A total of eleven University of Michigan students including three first time attendees presented thirteen papers at the 54th Annual Meeting of the INMM in Palm Desert, CA. Two members, Charles Sosa and Marc Ruch, benefited from generous travel grants from the INMM Central Region Chapter.

**July 29th 2013—Chapter Exec Board Meeting:**
The new chapter executive board met to discuss plans for the upcoming semester. This included planning joint seminars via Skype with the Monterrey Institute, invitations of guest speakers and planning of new social events as well as the designation of Charles Sosa as Social Chair.

**August 19th 2013—Chapter Exec Board Meeting:**
The executive board brainstormed a list of speakers to invite to University of Michigan, discussed fundraising options, planned a t-shirt design competition and organized a social to kick off the new semester.

**September 3rd 2013—INMM Social:**
Well over twenty graduate and undergraduate students and even faculty congregated at the Blue Leprechaun to play trivia and learn about our INMM student chapter at the University of Michigan. Our team fought well, but was stumped by the fact that Maryland’s official state sport is jousting.

**October 4th 2013—Chapter Exec Board Meeting:**
The executive board met to plan in detail the upcoming Nonproliferation panel discussion (“Nuclear Technology: The Power and Peril”) on October 10th featuring Nuclear Engineering Professor Emeritus, Glenn Knoll, as well as former State Department official, Chris Kessler.

In the evening, over 75 students, faculty and members of the public attended a 2 hour panel discussion on nonproliferation. This event was co-hosted by the Nuclear Engineering Department, our INMM student chapter and the Science and Technology Public Policy program. Apart from Professor Emeritus Glenn Knoll and Chris Kessler, University of Michigan professors Dr. Sara Pozzi and Dr. Carl Simon participated in the panel. The panel discussion focused on the basics nuclear nonproliferation, radiation detection, the role of the IAEA and current and future challenges for preventing the spread of nuclear weapons.

**October 23rd 2013—Guest speaker, Dr. Robert Bean:**
Dr. Robert Bean, formerly a safeguards engineer at the Idaho National Laboratory and NNSA, joined us fresh from his start as a professor at Purdue University. He shared his experiences as a DOE safeguards inspector with Professor...
Pozzi’s Nuclear Nonproliferation and Safeguards class, and also gave a well-attended (~25 people) seminar on the research portfolio funded by NNSA NA-22, where he was employed as a Technical Advisor.

**November 5th 2013— Joint Social With University of Tennessee INMM Chapter:** Several of our chapter members headed to Oak Ridge National Laboratory for a weeklong nondestructive analysis training session at the Safeguards Laboratory as part of Professor Pozzi’s Nuclear Safeguards course at the University of Michigan. Our chapter president jumped on the opportunity to organize a joint social with the University of Tennessee INMM student chapter. The event was held at Barley’s Taproom and Pizzeria in Knoxville.

**December 6th 2013— Screening of “Countdown to Zero”:** Our chapter hosted over twenty interested students and faculty for a pizza lunch and a screening of the 2010 nuclear weapons documentary “Countdown to Zero”. This thought provoking film on the dangers of nuclear proliferation, nuclear terrorism and nuclear disarmament sparked much debate on whether or not nuclear disarmament is achievable or even desirable.

**January 16th 2014— Chapter Exec Board Meeting:** The exec board planned a new social and discussed organizing a model UN type discussion round regarding the six month nuclear deal with Iran.

**January 27th 2014— Trivia Night Social:** Students met at the Brown Jug for a night of trivia, appetizers and merriment.

**February 10th 2014— Chapter Exec Board Meeting:** The exec board met to continue fine-tuning the planning for an event on the Iran nuclear deal. Furthermore, ideas for future guest speakers and events were discussed.

**February 20th 2014— INMM Social:** About 10 INMM members and friends met at the Heidelberg for a fun evening.

**February 24th 2014— Chapter Exec Board Meeting:** The final details for the model UN Iran nuclear deal were discussed. The board also discussed ideas for upcoming social events, and whether or not to introduce membership dues.

**February 27th 2014— International Perspectives on the Iran Nuclear Deal:** Our INMM chapter hosted a model UN type discussion on the Iran nuclear deal of November 2013. Students could chose to represent and research the views of a list of key players, including the IAEA, the United States of America, the Islamic Republic of Iran, Israel, the Russian Federation, the People’s Republic of China, Switzerland and the Democratic People’s Republic of Korea. About one to two students signed up for each country slot. The Chapter Exec Board provided participants with a list of relevant news articles, IAEA quarterly reports and an overview of Iran’s nuclear facilities as well as the terms of the interim deal. We were pleased to have Professor Emeritus Ronald Fleming act as our moderator. We started the event by going over Iran’s nuclear facilities and the terms of the interim deal. Then each country gave introductory statements on their country’s views on the situation in Iran and how they viewed the new deal. This was followed by nearly two hours of lively debate that was deftly guided by our moderator. In the end, we ran out of our allotted time, gave our final views on the chance of the deal succeeding, and agreed to host another such event in the future if there are any major advances in negotiating a long term agreement on Iran’s nuclear program.

**March 10th 2014— Chapter Exec Board Meeting:** Our executive board decided to plan a St. Patrick’s Day social for the following week.
March 17th 2014— St. Patrick’s Day Social: INMM student members celebrated whatever small percentage of Irish heritage that they could claim.

March 24th 2014— Chapter Exec Board Meeting: Our executive board designated April 10th as the date for new officer elections, and April 23rd for a beer garden social. Additionally, the board decided to investigate the possibility of organizing tours of Fermi nuclear power plant and the medical isotope production cyclotrons at the University of Michigan hospitals.

March 31st 2014— Chapter Exec Board Meeting: Our executive board finalized plans for an event with Dr. Scott Kiff from Sandia Livermore, decided to combine new officer elections set for April 10th with an ice cream social and further discussed plans and tentative dates for touring the medical isotope production facilities at the University of Michigan’s hospitals.

April 1st 2014— Guest Speaker Dr. Scott Kiff: Dr. Scott Kiff, a Michigan nuclear engineering alumnus and a technical staff member working on neutron detection and imaging at Sandia National Laboratories, joined 21 students for lunch and to discuss his group’s research and career opportunities at Sandia.

April 10th 2014 — Chapter Officer Elections and Ice Cream Social: The new officers are Matthew Marcath (President), Mateusz Monzter (Vice President), Katie Schneider (Secretary/Treasurer), Marc Paff (Communications Chair), Charles Sosa (Publicity Chair) and Cameron Miller (University of Michigan Engineering Council representative). Many thanks to the outgoing officers and good luck to the new officers. We are also very pleased to see an undergraduate student (Katie) elected to the board since our chapter’s leadership and events have generally been dominated by graduate students in the past.

April 21st 2014— Chapter Exec Board Meeting: Newly elected and outgoing officers met to ensure a smooth transition of power. The board also discussed possibilities for events concurrent with the SORMA conference this summer in Ann Arbor.

PhD students Mark Bourne, Alexis Kaplan, Christopher Lawrence, Marc Paff and Marc Ruch are looking forward to representing University of Michigan at the 55th Annual Meeting with the following papers:


Additionally, our newly elected chapter president, Matthew Marcath, will be attending thanks to the generous support of INMM, and our newly elected Secretary/Treasurer, Katie Schneider, will be sponsored to attend through a summer internship in safeguards at Argonne National Laboratory.

With many students leaving Ann Arbor to head to national laboratories over the summer, the only currently planned INMM event is to host practice talks about a week before this year’s Annual Meeting in Atlanta.
At the University of Missouri we are working on growing our chapter. The letter below has been sent out to professors in several departments. We are planning to have at least one speaker next semester from within the university discuss their research in the nuclear materials management field. This should help grow our organization and spark new interest in this field of research. We are also working on a tour of the MU Research Reactor (MURR) to show members and non-members the nuclear facility on campus. A website for our chapter is being developed, thanks in large part to Andrea De Luca. We are also planning on having Melanie May, as well as some of her classmates from the University of Missouri, come and talk to students working in the nuclear materials management field and how they got their start at the MU. Our chapter is still very small, but we are making progress towards becoming a bigger chapter thanks to help from several people in INMM. One of the biggest challenges we face in the coming year is finding new leadership, as the majority of the people working with our chapter are graduating in the next year. We would again like to thank you for your patience as we grow.

The University of Missouri Student Chapter of the Institute of Nuclear Materials Management (INMM) is looking to increase membership and provide services to a larger portion of the university than it currently serves. The INMM is the premier nonprofit technical organization devoted to ensuring the safe, secure and peaceful stewardship of nuclear materials for the benefit of mankind. INMM experts work in the fields of nuclear nonproliferation; international safeguards; material control & accountancy; packaging, transportation, and waste disposition; nuclear security & physical protection; and facility operations. This takes people from across the university spectrum such as engineers (nuclear, chemical, mechanical, industrial, electrical, civil, environmental, etc.), scientists (chemists, physicists, mathematicians, statisticians, etc.), policy experts (international relations, political scientists), accountants and public relations experts or journalists. We are contacting you because we would like to have speakers from both inside and outside the university talk about their work in the nuclear materials management field. If you have a suggestion for a speaker please feel free to contact us at eab7rf@mail.missouri.edu or trauthk@missouri.edu. We look forward to hearing from you and to growing this great organization. For more information on the national chapter of the INMM please go to www.inmm.org.
**Objectives**

The University of New Mexico’s student INMM chapter is oriented towards bringing together students from different areas of academia, who share a common interest in nuclear materials management, and providing them with a platform for sharing ideas and meeting new people. This year, our chapter has held well-attended social events, hosted interesting speakers and has spoken to introductory engineering classes about the benefits of being an INMM member. Having done this, we believe our INMM student chapter will continue to grow and membership will increase.

**Events**

In August, we had our first event at Gravity Park, which was attended by 13 members. We were able to de-stress on a Wednesday night, bouncing around the arena, and then went to dinner. It was a good opportunity for new members to meet returning members and remind everyone about our upcoming meeting schedule.

In October, we had our second event, Laser Tag at Hinkle Family Fun center, and it was attended by 15 members. Everyone had fun and it was a good opportunity to remind people of our November meeting.

In January, the INMM SW Chapter Winter Dinner was held at The Lodge Hotel in Santa Fe, New Mexico. The speaker was Bruce Held, the Acting Undersecretary for Nuclear Security, and he talked primarily about his past work with the CIA and about the present nuclear security agenda. The dinner was a great way to meet new people and visit with members of the Southwest Chapter that have been instrumental in helping rebuild our student chapter.

In February, we hosted “Bowling Night” at the Sandia Bowl in Albuquerque, as a welcome back event for spring semester. 15 members came out, and it was a good way for new and returning members to get to know each other.

In April, students had the opportunity to take a Sandia facility tour. Dr. Hecht was instrumental in getting the word out to students; so many INMM members were able to attend. Students visited the Annular Core Research Reactor (ACRR), the Sandia Critical Experiments (SCX) facility, Gamma Irradiation Facility (GIF) and were given the opportunity to talk with Tech Area 5 managers and supervisors about their work.

**Speakers**

Ms. Shirley Johnson came out to our September chapter meeting (our first meeting of the semester) to talk about her work as an IAEA officer. She was very thorough about the steps she had to take become an officer, which was great because a lot of our members are interested in that as a career path. She discussed her background in chemistry and the unique experiences she had in Vienna and how they’ve helped her company, Tucker Creek Consulting.

Matt Sternat spoke at our February meeting. His talk focused primarily on the international programs center at Sandia and about his experiences as a subject matter expert for nuclear forensics and safeguards. Many of our members have expressed interest in nuclear forensics so his talk was well received. We’re very grateful he was able to make time for us.

**Upcoming**

Our student chapter will continue to work closely with the Southwest INMM chapter and seek out speakers to give talks at our meetings. We are planning social events for the coming year and we will have officer elections in August.

**Chapter Acknowledgements**

It’s been a great year and we’re very grateful to all of the staff and community support we’ve received. We hope to keep the momentum going and increase membership, hold more social events and attend more technical talks this year.

To see our facebook page, please visit us at: https://www.facebook.com/inmmlobos?ref=ts&fref=ts
I. Chapter Activities

In September, Joseph Stainback of the Central Region INMM Chapter and of the UT Institute for Nuclear Security spoke on his career. He detailed his experiences working with Babcock & Wilcox (B&W) from working at the Lynchburg Facility to his time at the Y-12 National Security Complex.

In October, Shirley Cox of Tetratech and the Central Region INMM Chapter chaired our meeting, discussing the transition of attitudes, procedures, and nuclear material control and accountability throughout her time at Y-12. We also had the pleasure to host Bill Brosey, current president of the Central Region, who encouraged further engagement between to the student and Central Region.

Our first social meeting of the year took place in November. A University of Michigan class with many of their INMM student chapter members traveled to Oak Ridge National Laboratory (ORNL) for a safeguards class. During their stay, our chapters met for dinner and discussed our research, institution academics, chapter activities, and topics less prosaic. Many university chapters have members who travel to ORNL for classes, and we encourage any others to contact the UT chapter when they have members visiting the Oak Ridge / Knoxville area.

In January, we planned for Chris Pickett of ORNL to present at our meeting, but inclement weather did not allow it and closed the university. Susan Pepper had planned to speak as well, since she was in the area at the time, making this a doubly unfortunate weather cancellation.

In February, Chris was able to reschedule and speak on the necessary expansion of Continuity of Knowledge within safeguards, particularly within the IAEA mission space. He was able to offer insight into the practices and technologies that enable continuity and lend his perspective on tailoring these measures to suit individual host countries.

In April, we had planned to host Alan Icenhour of ORNL. However, his recent move to Associate Lab Director from director of the Nuclear Security and Isotopes Technology division volatilized his schedule sufficiently to warrant rescheduling. We have plans to invite him to join us in the fall.

In April, we continued our extracurricular social events by meeting off-campus to discuss the future of our chapter with our members. Among our members is the current president of the local ANS student chapter, with whom we discussed joint ventures and membership. This social was a great way to prepare for final exams, chart out the next year, and to hear everyone’s post-graduation plans, whether they were graduate school or employment.

II. Current Officers

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<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>President</td>
<td>Blake Palles</td>
<td><a href="mailto:bpalles@vols.utk.edu">bpalles@vols.utk.edu</a></td>
</tr>
<tr>
<td>Vice President</td>
<td>Fareed Yasin</td>
<td><a href="mailto:fyasin@vols.utk.edu">fyasin@vols.utk.edu</a></td>
</tr>
<tr>
<td>Secretary</td>
<td>Jerrad Auxier</td>
<td><a href="mailto:jauxier@vols.utk.edu">jauxier@vols.utk.edu</a></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Daniel Hamm</td>
<td><a href="mailto:dhamm@vols.utk.edu">dhamm@vols.utk.edu</a></td>
</tr>
<tr>
<td>Faculty Advisor, Professor</td>
<td>Jason P. Hayward</td>
<td><a href="mailto:jhayward@vols.utk.edu">jhayward@vols.utk.edu</a></td>
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III. Financial Statement

Currently chapter funds total $340. This sum will increase upon receipt of the annual INMM Central Chapter stipend.

A discussion is currently underway as to whether we should re-implement chapter dues, with the added financial incentive to the chapter being weighed against the possible negative impact on recruiting. A compromise may be necessary to ensure the financial stability of the chapter while improving programming.

IV. Membership

Chapter membership remains free to members who have registered with the National INMM. We strongly encourage all our members to register and attend or present research at the Annual Meeting, though funding to support this external to the UT Nuclear Engineering department (UTNE) is limited. At the end of the semester, chapter membership was over 20, with more than 15 planning to return in the fall.
The distribution of membership within the class hierarchy is shifted toward the senior and graduate level, which is not ideal. Limited recruiting within the freshmen, sophomore, and junior classes has impacted the sustainability of our chapter.

By December, as part of our executive mentorship program, we anticipate being able to identify capable undergraduate students (not beyond the junior class) who can assume effective leadership of the chapter, with the current Executive Committee maintaining a support role. The presence of students who can continue to hold officer positions for multiple years, while also identifying capable successors, is vital to the continuity-of-government within our chapter.

Recruiting goals for the next year include raising our active membership above 30, and establishing our executive mentorship program to ensure a smooth transition between academic years.

V. Conclusion

I would judge the UT Student Chapter to be in the sustainability phase, wherein we must ensure continued operation of the chapter, and its impactful presence in the University. Continuity is our most pressing issue, toward which we will work throughout the year. Recruitment will be overhauled, with special emphasis on those younger classes who can maintain membership and assume leadership roles over multiple years. In our programming, we intend to expand our utilization of the supreme assets of the INMM Central Region and Oak Ridge National Laboratory.

Our chapter is located within the perfect area for nuclear materials management, with an excellent academic institution that recognizes the value of the INMM and its student chapters, and we will take full advantage of this to increase the benefits to our members and community over the coming years.
This report covers chapter activities since the annual report in June 2013. Our chapter has concluded a successful academic year. We held social events, hosted guest speakers, and sponsored valuable educational opportunities such as a tour of the Hanford B-Reactor, Pacific Northwest National Laboratory in Richland, and the USS Louisiana. Each event was student-organized and the result of collaboration with industry professionals, university professors, and alumni. At the end of the spring quarter in May we elected a set of executive officers, which include Sarah McPhee as President, Shirin Lotfi as Vice-President, Teayloure Ring as Treasurer, and Jennifer Jarrett as Secretary. The chapter was represented at the INMM Information Analysis Conference in Portland by Sarah McPhee, who volunteered for the “logistics team.” Furthermore, we are proud to announce that graduating chapter member Alan Huynh was offered a position with the Nuclear Regulatory Commission.

The chapter met biweekly to plan events and organize guest speaker opportunities. In the fall quarter the officers held a recruitment lunch and a social event, and in winter quarter Amy Seward from PNNL Seattle offered a guest lecture on the fuel cycle and nonproliferation. In the spring quarter the Hanford trip was a collaboration between chapter officers, Professor Hal Undem, and PNNL project manager Roberta Burbank. A group of fifteen people from a variety of disciplines attended the trip, which included overnight accommodations at the PNNL Guest House, lectures on nuclear archaeology, containment and seals for safeguards and arms control, as well as a question and answer session regarding internships at PNNL. The tours of the race track, the B-Reactor, and the nuclear waste grounds were particularly valuable for students in Professor Undem’s Weapons of Mass Destruction class.

On May 27th, the United States Navy granted a tour of the USS Louisiana, an Ohio-class nuclear submarine. Nine people, including three employees from PNNL Seattle and several students from the Monterey Institute for International Studies, participated in a tour of the facilities and the submarine itself. On the tour of the facilities participants were invited to interact with professional simulators and demonstrations and learned about opportunities in the Navy’s nuclear field. The tour of the submarine required security clearances well in advance, but it was an incredibly valuable and unique experience. The drive to increase membership and interest on campus and in the community is a continuing focus of the group. Officers will reach out to science, engineering, information science, global health, public affairs, and business classes this summer as our current membership is primarily driven by the strength of the Jackson School of International Studies. This chapter intends to collaborate more closely with university professors and the UW Navy ROTC program to increase membership. Currently the chapter is working to organize speakers and events for fall. We have secured funding from Pacific Northwest National Laboratories for Ollie Heinonen to speak at the university and we exploring the possibility of the university televising the event. We are investing in a banner for academic events and recruitment purposes and we are dedicated to utilizing social media more effectively to reach our audience.

### Budget

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The Facility Operations Technical Division (FOD) continued developing the organization and interest for the technical division throughout the past year. A major area of concentration for the upcoming year is to grow interest and membership from commercial nuclear fuel cycle entities as well as expand engagement with government facilities that manage nuclear materials. An additional emphasis is on member involvement with our subcommittees to increase overall participation in INMM and FOD. FOD will also reach out to other professional organizations that focus on nuclear facility operations for potential collaborations such as the American Nuclear Society, Nuclear Energy Institute and World Association of Nuclear Operators.

Facility Operations at the 55th Annual Meeting

Facility Operations will have 42 papers presented across 7 different sessions. These sessions are as follows:

- Monday AM  Safeguards by Design
- Monday PM  Nuclear Power Systems for Remote or Hostile Environments I
- Tuesday AM  Nuclear Materials Management and Consolidation I
- Tuesday PM  Nuclear Power Systems for Remote or Hostile Environments II
- Wednesday AM  Nuclear Materials Management and Consolidation II
- Wednesday PM  Facility Systems and Controls
- Thursday AM  Facility and Policy Considerations

FOD Divisional Meeting

FOD Chair, Morris Hassler, will be discussing new initiatives for the division for the upcoming year to expand the interest in INMM and FOD. The chairs of the subcommittees will again present a briefing and/or discussion on their subcommittee and encourage participation from others with a common interest during the annual technical division meeting. Four speakers will present briefings and facilitate discussions at the FO divisional meeting. Amy Johnson of URENCO, will present a briefing on an alternative gas-sampling of UF6 cylinders that eliminates liquid sampling, thus reducing risks and costs which tops everyone’s list in today’s environment. Jeff Chapman of Oak Ridge National Laboratory will present a briefing on reestablishing the nuclear measurements infrastructure at ORNL. Eric Hanson will be giving a report on the infrastructure and facility status at Pacific Northwest National Laboratory. Morris Hassler will be presenting an update on the Y-12/Pantex contract consolidation and transition activities.

Other Division Activities

FOD reviewed four technical papers considered for publication in the INMM Journal.

Additional individual contacts to international and commercial nuclear fuel cycle companies and colleagues with particular focus on power generation, enrichment and fuel fabrication are underway.

The Division collaborated with the MC&A and Nuclear Security and Physical Protection Divisions and NRC representatives to conduct a focused workshop, “Risk Informing Security,” conducted this past February in Atlanta, Georgia. FOD intends to discuss continued interest in this workshop at this year’s Technical Division meeting.

2014 Leadership

Morris Hassler, Chair
Ben Watts, Vice-Chair
Virginia Magoulas, Secretary

2014 Subcommittees:

- Nuclear Fuel Cycle Operations – Rose Martyn
  - Mining, Milling, Conversion, Enrichment, Fuel Fabrication, Power Generation, Used Fuel Management
- Facility and Materials Operations – Ben Watts
  - Inventory management – supply, usage, and storage
  - Safety, safeguards and security integration
  - Nuclear material de-inventory activities
  - Disposition and Decommissioning
- Facility and Process Modernization – Skip Kerschner
  - New facility design integration
  - Facility life extension
- Regulatory Compliance – Sam Savani
  - Policy, licensing, and requirement management
- Communications – Jeff Allender
  - Website, Social Media, membership communications
  - Technical divisions interface
The International Safeguards Division (ISD) of INMM had another busy and successful year from July 2013 through June 2014, with the INMM Annual Meeting in July 2013; ISD technical division meetings; activities of the Open-Source/Geospatial Working Group; and preparations for the 2014 INMM Annual Meeting. This annual report highlights the ISD activities in serving the international safeguards community through INMM involvement with important developments in international safeguards.

Divisional Meetings

2013 54th Annual INMM Meeting Palm Desert, CA July 14-18
There was another full schedule of interesting sessions for the international safeguards community at the 2013 INMM Annual Meeting. ISD organized 19 sessions, including several joint session with other technical divisions.

ISD Technical Division meeting at the 2013 INMM Annual Meeting
The ISD meeting on Sunday afternoon, July 13, had a large turnout. It began with a “Tour de Monde” featuring reports from several countries and international organizations. ISD Chair Emeritus, Jim Larrimore, delivered a presentation on the history of the ISD before “passing the gavel” to Michael Whitaker. Following the break, Susan Pepper introduced the upcoming international safeguards sessions, and George Baldwin delivered a report of the activities of the Open Source/Geospatial Information Working Group. Willem Janssens discussed several upcoming opportunities for ISD members to engage with the international student chapters. The session closed with a discussion of workshops being planned for the 2014-2015 timeframe.

ISD at JRC/Ispra, November 2013
From November 10-13, 2013, ESARDA hosted a series of working group meetings at the Euratom joint Research Center in Ispra, Italy. On Nov 12th, ISD hosted a brief meeting prior to the evening dinner to discuss upcoming events; specifically, topical areas for the 2014 INMM annual meeting and the 2015 INMM/ESARDA/Japan workshop. In ~30 minutes, the small group of eight individuals produced a lengthy list of ~20 themes including the 2015 NPT review conference, results of the nuclear security summit, information-driven safeguards, the evolution of safeguards, capacity building, nuclear security, and many more.

INMM Pacific North West Chapter, IS and NAC Workshop, Portland May 2014
The Pacific Northwest Chapter, with the INMM International Safeguards (IS) and Nonproliferation and Arms Control Technical Divisions (NAC), hosted an “Information Analysis Technologies, Techniques and Methods for Safeguards, Nonproliferation and Arms Control Verification Workshop”. This topical workshop was held May 12-14, 2014 in Portland, Oregon, USA. The workshop had over 50 participants from throughout the DOE National Laboratory complex, domestic and foreign universities, the IAEA, the European Commission Joint Research Centre, government, and non-governmental organizations. The workshop was highlighted by an opening plenary address from the IAEA’s Department of Safeguards, Division of Information Management (prepared by Jacques Baute, delivered by Thomas Lorenz), eight technical sessions, a software demonstration session, and a closing plenary panel including Joe Kielman from DHS, and Peter Sprunger and Daniel Wurmser from DOS.

ISD at ESARDA, May 2014
On May 12, the ISD conducted a division meeting in Luxembourg City, Luxembourg in advance of the 36th ESARDA annual meeting. The meeting was held at the Batiment Jean Monnet Building and featured 2 presentations: Caroline Jorant, SDRI Consulting, presented results of the Security Summit 2014 and Irmgard Niemeyer, Forschungszentrum Julich, shared the results of discussions during the technical meetings at the IAEA on the State-Level Concept. Approximately 30 individuals participated
in the lively discussion on these recent events. Additional business included 1) an invitation to attend ISD –related events at the INMM annual meeting in Atlanta, Georgia, 2) an inquiry concerning attendance at the IAEA safeguards symposium on October, and 3) feedback was requested on the final two candidate locations (Seattle and Jackson Hole) for the 8th INMM/ESARDA Joint Workshop to be held in 2015.

Open-Source/Geospatial Information Working Group
The Working Group on Open-source/Geospatial Information has continued to be active in ISD to facilitate cooperation between persons engaged in this area. A special session was held at the 2013 annual meeting with joint ISD and NAC participation. George Baldwin and Claude Norman chaired the session. Karl Horak remains working group’s chairperson and Irmgard Niemeyer continues as vice-chairperson. A special session is not scheduled for the 2014 meeting, but a number of members are attending the Information Analysis Technologies, Techniques and Methods for Safeguards, Nonproliferation and Arms Control Verification Conference in Portland.

The Working Group continues to maintain a LinkedIn forum for the exchange of information. There are 37 active members of the forum as of May 10, 2014. This represents a 19% increase in one year. Interested persons are encouraged to visit http://www.linkedin.com/groups?gid=4037205 and request membership. Those with .gov and iaea.org e-mail addresses are pre-approved for membership.

Upcoming Events

IAEA Symposium, October 2014
The IAEA has begun advertising the October 2014 Symposium on “International Safeguards: Linking Strategy, Implementation and People”. Over 350 abstracts were submitted from more than 40 countries. This is an IAEA meeting, but the INMM and ISD provide traditionally provide financial and organizational support respectively. The ISD often holds a Technical Division meeting in conjunction with the Symposium. Please visit the IAEA symposium web page for more information regarding this symposium: http://www-pub.iaea.org/iaeameetings/46090/Symposium-on-International-Safeguards.

Special Issue of JNMM Planned for 2015
A special ISD issue of JNMM is planned for spring 2015.

INMM/ESARDA/Japan Chapter Technical Meeting, 2015
Plans are underway for a joint INMM/ESARDA/Japan Chapter Technical Meeting to be held in Jackson Hole, WY or Seattle, Washington for the fall of 2015. If you are interested in assisting, please contact Michael Whitaker.

International Safeguards at INMM 54th Annual Meeting, July 2014
The Divisional meeting will be held on Sunday afternoon. The first half will address ISD activities around the world and after the break we will join with NAC Technical Division discuss items of mutual interest. The ISD Management Team led the organization of international safeguards sessions at the Technical Program Committee meeting. There will be 15 ISD technical sessions, several of which are co-sponsored with other Technical Divisions. Topics include: Evolution of Safeguards; Improving the Efficiency of Implementing Safeguards at Nuclear Fuel Cycle Facilities; Advancing the State Level Concept; Continuity of Knowledge; Strengthening State Systems of Accounting and Control; Concepts for Improving Effectiveness of Safeguards Implementation; Advances in Safeguards Technology and Instrumentation; Filed testing of new Methods, Concepts and Technologies; International Safeguards Education and Training; and The Interface among Safety, Security and Safeguards.
On Tuesday morning, July 22, ISD is pleased to welcome Tero Varjoranta, Deputy Director General and Head of the Department of the IAEA. Following his plenary speech, a panel of leading experts in the field will discuss How the Evolving Domestic, Regional and IAEA Safeguards Requirements and Practices are Influencing Safeguards Implementation and Culture.

**Stephen Adams**  
Deputy Director of the Office of Multilateral Nuclear and Security Affairs, US DOS

**Sonia Fernandez-Moreno**  
Argentinean Planning and Evaluation Officer, ABACC

**Olli Heinonen**  
Senior Fellow, Belfer Center for Science and International Affairs, Harvard Kennedy School

**Tomonori Iwamoto**  
Director, Nuclear Security & Safeguards Division, JNFL

**Laura Rockwood**  
Consultant, Former Section Head for Non-Proliferation and Policy Making, IAEA

**Piotr Szymanski**  
Director of Nuclear Safeguards, European Commission

Submitted by: Michael Whitaker, Chair, Gotthard Stein, Vice-Chair, George Baldwin, Arden Dougan, Susan Pepper, Mark Schanfein, and Eric Smith, ISD Management Team
NDA User’s group – Stephen Croft

The NDA user’s group plans to meet in conjunction with the INMM 55th annual meeting in July in Atlanta, GA, USA. Topics will include a report from the ASTM C26.10 subcommittee, the work of the ESARDA NDA WG, the need for physical standards, and many other relevant topics. For further information on the goals and activities of the user’s group, please contact Stephen Croft at Stephen.croft@ornl.gov.

As a follow-up to the suggestion that a series of “MC&A 101” type videos be produced for the benefit of non-MC&A experts and senior managers desiring an abbreviated overview of various elements of the MC&A discipline, and NDA 101 video have been finalized and reviewed by the INMM Division leadership with the results to be demonstrated at the annual meeting and the final product to be placed on the INMM MC&A Division website. Several interns were commissioned to produce the first of such a series related to NDA and vet it among seasoned experts in the DOE community. The Division looks forward to continuing this discussion and hopefully producing follow-on topical videos for the Nuclear Materials Management community. Thanks go to Amy Whitworth from NA-70 for initiating and funding this activity and for the strong team of interns who produced the videos and worked with the MC&A Division to vet them. That group was led by Scott Stewart (NNSA/NGP) and included Nicholas Quintero, Jennifer Erchinger, Manit Shah, Steve GHerlt, Rob Zedric, Royal Elmore, and Ryan Coogan from Texas A&M and Thomas Pope from the University of Tennessee.

DA User group – Jon Schwantes

The DA User’s group will meet at the 55th annual meeting in July in Atlanta, GA, USA. The user’s group will provide an overview of the various nuclear forensics papers and sessions for this year’s annual meeting, the potential for setting up informational webinars on topics such as GUM and establishing stronger interactions with ESARDA and JRC. For further information on the user’s group and its goals and activities or to suggest additional topics for the DA User’s Group, please contact Jon Schwantes at jon.schwantes@pnnl.gov.

Accounting Systems subcommittee

An emerging focus that we would like to promote and explore is that of the integration between cyber security and nuclear materials accounting systems. Any interest in this and other nuclear material accounting topics and ideas should be referred to Andrew Jackson at jacksonaj@y12.doe.gov.

Cary Crawford – Chair
Mike Baker – Co-Chair
Amy Wilson – Secretary
Nonproliferation and Arms Control Technical Division supported the following activities:

- A Reducing the Risk from Radioactive and Nuclear Materials Workshop was held on Day 3 of the PHYTRA-3 conference in Tetouan, Morocco on May 14, 2014. The workshop was hosted by the Morocco INMM Chapter and sponsored by CNESTEN, in conjunction with NAC’s Standing Committee on International Nuclear and Radiological Security and the Department of State’s Partnership for Nuclear Security. The workshop focused on issues of nuclear security culture, insider threat and nuclear security knowledge. The three panels had speakers from Morocco, USA, Nigeria, India, and Jordan. About 50 participants attended the workshop.

- We participated in the ESARDA/VTM Working Group at the 36th ESARDA Annual Meeting, May 2014 in Luxembourg.

- Along with the INMM Pacific Northwest Chapter and the INMM International Safeguards Technical Division, the NAC division supported the May 2014 INMM Information Analysis Technologies, Techniques and Methods for Safeguards, Nonproliferation and Arms Control Verification Conference, which was sponsored by and Nonproliferation and Arms Control Technical Divisions. The workshop brought together analysts, technology experts, and policy makers to discuss challenges, best practices, and the future of information analysis for safeguards, nonproliferation, and arms control verification.

We are planning to engage the Division participants in a discussion on adding new Standing Committees and will welcome new ideas.

At the upcoming Division meeting on July 10th, we have planned presentations from Brian Nordmann (U.S. State Department) on International Scientific Cooperation on Verification, and Ambassador Bonnie Jenkins (U.S. State Department) to speak about the current situation in Russia and Ukraine and prospect for continued cooperation. During the joint NAC and International Safeguard Division meeting, Irmgard Niemeyer will lead a discussion the FMCT Group of Governmental experts meetings in Geneva and progress on the Middle East NWFZ.
INMM Risk Informed Security Workshop

The NSPP Technical Division co-sponsored the INMM Risk Informed Security Workshop, along with the Materials Control and Accountability and Facility Operations Technical Divisions. The workshop was held February 11-12, 2014, at Stone Mountain GA. The NRC hopes to use the workshop to assist the commission in implementation of better risk informing security. The U.S. Department of Energy (DOE) also saw potential benefit from the workshop.

The workshop was well-attended with over 75 registered participants. The workshop featured a great deal of interaction between the audience and panel members during the sessions and breaks, and a wide variety of views were discussed in all of the topical areas. Workshop sponsors included ARES Security, B&W, Oak Ridge National Laboratory, Pacific Northwest Laboratory, and Rhino Corps. The NRC will review the results of the workshop to help define Research activities in the area of risk-informed security.

55th Annual Meeting Plans

Eight technical sessions and one Panel discussion (Using Material Attractiveness in the Development of Graded Security Approach) are planned for the annual meeting July 20-24, 2014. Over eighty technical NSPP–related papers were initiallysubmitted for consideration for inclusion in the technical program, along with sixteen posters.

2014 Annual Nuclear Security and Physical Protection Technical Division Meeting

The annual NSPP meeting will be held Sunday, July 20, 2014, in conjunction with the annual INMM meeting. A summary of the Risk Informed Security Workshop will be presented, along with information related to the efforts of the international community to establish Nuclear Security Training and Support Centres (NSSC) using the guidance published by the IAEA. We expect that additional discussions on nuclear security culture and protection against non-traditional adversaries will be held.

Nuclear Security Culture Workshop

The Nuclear Security and Physical Protection (NSPP) Technical Division had developed preliminary plans for a Nuclear Security workshop that had been projected for the spring of 2014 on the basis of discussions at the NSPP Technical Division Meeting in July 2013. Ongoing reviews involved in the planning indicated that the viability and potential for success of the workshop was heavily dependent upon sponsorship, however, that funding was not realized. Further, concerns related to the workshop involved the timing and scheduling of the workshop in a manner that would not conflict with the Risk Informed Security workshop in February 2014, and planning efforts for the annual INMM meeting in July 2014. We did not feel it appropriate to pull from possible participation at these two priority events. Considering a number of complications, NSPP determined that it was not in the best interest of the Institute to pursue the workshop at this point in time. However, two Culture related sessions (one by NAC and one by NSPP) will be presented at the 55th annual meeting.

Additional NSPP Deputy Chair

K.J. Maddux, from the Y-12 site, has been asked to supplement my efforts and those of Felicia as a second deputy chair for NSPP. Considering all of our expanded responsibilities, travel demands, and other issues, we feel that this was in the best interest of the Division to ensure continuation of support to the Institute and the membership.

Tom Bonner
Nuclear Security and Physical Protection Technical Division Chair

Felicia Durán
K. J. Maddux
Nuclear Security and Physical Protection Technical Division Deputy-Chairs
The world’s increasing need for safe, efficient and secure nuclear energy is driving the need for a new evolution of safe RAM storage and transportation systems. The shutdown of the Yucca Mountain project means new solutions will need to be identified for “Used Fuel Disposition”. The objective of the INMM Packaging, Transportation and Disposition Division is to be the international forum for dealing with these evolving needs.

The INMM Packaging, Transportation and Disposition (PT&D) Division held **INMM’s 29th Spent Fuel Management Seminar** January 13 – 15, 2014 at the Crystal Gateway Marriott Hotel, Arlington, VA in partnership the U.S. Nuclear Infrastructure Council (USNIC). This workshop is managed by Jeff England from Savannah River National Laboratory (SRNL) with assistance from Joseph Kinney (SRNL) in the planning and execution. This seminar is in partnership with the US Nuclear Infrastructure Council (USNIC) with David Blee as the USNIC representative. Volunteers from the INMM student chapter of NC State University attend the meeting and assist with onsite registration.

The 18th International Symposium on the Packaging and Transportation of Radioactive Materials (PATRAM 2016) will be held in Kobe, Japan. PATRAM is an international conference dedicated to the advancement of the safe and secure transport of radioactive materials and has become the premier world forum on this topic. It is held every three years, alternating between the United States and other countries. INMM will provide support as requested by the host country and organizations.

The INMM Packaging, Transportation and Disposition (PT&D) Division is planning to hold **INMM’s 30th Spent Fuel Management Seminar** January 12 – 14, 2015 at the Crystal Gateway Marriott Hotel, Arlington, VA in partnership the U.S. Nuclear Infrastructure Council (USNIC).