2015
Annual Report to the Membership
October 1, 2014 – September 30, 2015
Institute of Nuclear Materials Management

RENAISSANCE ESMERALDA
INDIAN WELLS, CALIFORNIA
TUESDAY, JULY 14, 2015
6:30 – 7:30 p.m.

AGENDA

1. Call to Order
   SATKOWIAK
2. Approval of Minutes
   PICKETT
3. President’s Report
   SATKOWIAK
   CURL
5. Election Report
   PICKETT
6. Committee Reports
   HINDERSTEIN
7. Chapter Reports
   HINDERSTEIN
8. Technical Division Reports
   SORENSON
9. New Business
   SATKOWIAK
      a: Recognition of Sustaining Members
      b: Recognition of New Senior Members
      c: Resolutions of Respect
10. Drawings for Two Complementary 2016 Memberships
    HQ
11. Adjournment
ANNUAL BUSINESS MEETING MINUTES
Tuesday, July 22, 2014
6:30 – 7:30 p.m.

Call to Order
The 55th Annual Business Meeting of the Institute of Nuclear Materials Management, an Ohio nonprofit corporation, convened on July 22, 2014, at the Atlanta Marriott Marquis in Atlanta, Georgia, after notification to all members. President, Ken Sorenson announced that a quorum was present and called the meeting to order at 6:30 p.m.

Approval of Minutes
Chris Pickett, Secretary, read an abbreviated version of the minutes of the 54th Annual Business Meeting held July 16, 2013. The minutes were approved.

President’s Report
President Ken Sorenson highlighted INMM’s year in review and reported on upcoming events. Sorenson was encouraged by the participation and energy of the Annual Meeting attendees. He noted that attendance numbers seem to be turning around and bouncing back from the government restrictions over the past couple of years. The Institute has been successful due to its careful stewardship of finances and the many volunteers that serve it faithfully. Sorenson thanked several leaders that stepped down from their positions this year: Ruth Duggan had to step down as Member at Large on the EC being replaced by Steve Wyrick for the remainder of her term, Shirley Cox retired and stepped down as Chair of the Facilities Operations Division being replaced by Morris Hassler, Joyce Connery as the interim Chair of the Nonproliferation and Arms Control Technical Division as she takes her place as Member at Large on the EC being replaced on the NAC TD by Mona Dreicer, Al Garrett, who accepted a position at the IAEA was replaced by Michelle Romano, George Baldwin assumed the position of Communications Committee Chair when Brian Boyer became a Member at Large on the EC, Steve Ward is the Chair of the Education and Training Committee and Markku Koskelo is the Chair of the Exhibits Committee.

Financial Report
Treasurer Robert Curl reported that there were changes in the 55th Annual Meeting to help offset expenses and it appears that INMM is again moving in a positive direction. During budget preparations for the next fiscal year, programs and activities that were removed from this year’s program will be considered again and may be added back for the 56th Annual Meeting if the activities are beneficial to a successful program and the expenses can be controlled. Curl added that the PARTRAM Meeting helped INMM by contributing revenue to the budget.

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.

Secretary’s Report
Chris Pickett announced the results of the 2014 fiscal year election of Officers and Members at Large. 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 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 are:

President Lawrence Satkowiak
Vice President Corey Hinderstein
Secretary Chris Pickett
Treasurer Robert Curl
Immediate Past President Ken Sorenson
Members at Large:
  Brian Boyer 9/30/15
  Joyce Connery 9/30/15
  Cary Crawford 9/30/16
  Steve Wyrick 9/30/16

Committee Reports
Vice President Larry Satkowiak noted that the committee reports were included in the 2014 Annual Report to the Membership and proceeded to highlight various activities. The reports submitted show dynamic growth within INMM and continuing efforts association wide.

Chapter Reports
Vice President Larry Satkowiak stated that Chapter reports could be found in the 2014 Annual Report to the Membership. He encouraged participants to read the Student Chapter reports as there was a lot going on in the Student Chapters.

Technical Divisions Reports
Past President Scott Vance acknowledged that the Technical Division reports were included in the 2014 Annual Report to the Membership. Vance highlighted key activities taking place in each Technical Division.

New Business
The floor was opened for new business.

Resolutions of Respect
Vice President Larry Satkowiak read and presented two Resolutions of Respect for INMM members that had passed away.

Recognition of Sustaining Members
Vice President Larry Satkowiak recognized the Sustaining Members. Renewing Sustaining Members receive a year plate to go on their Sustaining Member plaque. New Sustaining Members get a plaque to place their renewing year plates on.

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

Free 2015 Membership Drawings
Both Claudio Gariazzo and Steve Wyrick 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 7:12 p.m.
**The State of the Institute- Revisited**

Last year Ken Sorenson, Immediate Past President, in his 2014 Report identified the challenges facing the Institute and the steps the Executive Committee took to address them. He was cautiously optimistic about the impending 55th Annual Meeting that was held last July. In my mind, the meeting was a success. Atlanta proved to be a gracious host and the Marriott Marquis an excellent venue. We had over 700 attendees and representatives from over 36 countries. The final technical program had 449 papers in 68 concurrent sessions. We had a strong international participation with more than a third of the attendees being from outside the United States. The meeting was kicked off with an excellent Opening Plenary. Senator Sam Nunn was fantastic with his talk “Nuclear Risk: The Race Between Cooperation and Catastrophe”. We closed the meeting with a screening of “Pandora’s Promise” and had over 150 attendees. From the beginning to the very end there seemed to be an air of excitement in the hallways as professionals from all over the world engaged each other, exchanged information, renewed friendships and made new ones. Another encouraging development was the fact that we had 139 students registered who presented over 115 papers during the four day meeting. We were very pleased with the number of attendees and the quality and number of papers presented at the Annual Meeting. Last year at this time we were struggling with the impacts of the US Government travel policy on conference travel and attendance. I think the worst is over and the future is looking brighter.

What is the current State of the Institute? In general, very good and getting better.

- 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 Kellen Company. These professionals are an important part of our management team.

**New INMM Mission Statement**

During our November Executive Committee Meeting, Jack Jekowski, chair of the Strategic Planning Committee, led a lively discussion on the revision of the INMM Mission Statement. After input from the extended leadership of the INMM that included the EC, Technical Division Chairs, Oversight Chairs and the Fellows, the following Mission Statement was approved.

**INMM Mission Statement**

The Institute of Nuclear Materials Management (INMM) is an international professional society dedicated to development and promulgation of practices for the safe, secure and effective stewardship of nuclear materials through the advancement of scientific knowledge, technical skills, policy dialogue, and enhancement of professional capabilities.

I think the new mission statement accurately and succinctly captures our current focus. My thanks to Jack, the Strategic Planning Committee, and everyone involved.

**Leadership Transitions**

Here is an overview of 2014- 2015 leadership transitions:

- Tom Bonner assumed the role of Annual Meeting Registration Chair, from D.L. Whaley. My thanks to D.L. for his many years of service in this important role.
- Nancy Jo Nicholas turned over the Awards Committee Chair to Susan Pepper. Nancy Jo did a superb job and plans to continue being active in the Institute. Thank you Nancy Jo and good luck in your new (day job) position!
- Arden Dougan will be assuming the position of Special Recognition and Service Awards Chair, a position previously held by Susan Pepper.
• The Student Activities Chair is now Amanda Sayre, who took over the reins from Steve Ward. Amanda did a terrific job at last year’s Annual Meeting engaging students.
• The Publications Chair was vacant in 2014, and we were fortunate to recruit Katherine Bachner and Jay Disser to this position. They are doing an excellent job on the INMM Communicator, our online newsletter.
• Scott Vance completed his term as chair of the Nominating Committee, to become INMM’s Bylaws Committee Chair, replacing outgoing chair Steve Ortiz. Thank you Steve for everything you’ve done for the Institute. Enjoy a well-deserved retirement.
• Ken Sorenson, as INMM’s Immediate Past President, now chairs the Nominating Committee. As IPP, he is also the Institute’s official representative to the World Institute for Nuclear Security (WINS). Ken continues to be my mentor and sounding board.
• The Materials Control & Accountability Technical division saw a transition from Cary Crawford to Mike Baker. Cary stepped down after he was elected to the Executive Committee as Member-at-Large.
• Steve Bellamy of the Packaging, Transportation & Disposition Technical Division turned over chair duties to Jeff England. Thank you Steve for leading the division and making the annual Spent Fuel Management Seminar such a success.

I am pleased to point out that we have a new chapter, the Korea Advanced Institute of Science and Technology (KAIST) Student Chapter, our 17th student chapter, 34th chapter overall. Congratulations!

The 2015 Annual Meeting

There is so much happening in the nuclear materials management world – the nuclear deal with Iran, future cooperation with Russia, the NPT Review Conference, nuclear power expansion and its effects, nuclear terrorism, the next Nuclear Security Summit, safeguards, detection enhancements, export control, future of arms control, nuclear trafficking, forensics, nuclear facility management, security issues, education/training, inventory controls, verification challenges, etc. I look forward to seeing everyone at this year’s Annual Meeting, we have a lot to talk about. Enjoy meeting with your friends and colleagues.

The Institute is fortunate to have such dedicated volunteers, people who are willing to give their time and talents to support the Institute and believe in its mission. Our dedicated members are our true strength. The membership at large owes these leaders a big “Thank You” for the time, effort and leadership that they individually gave to the INMM.

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.
As of September 30, 2014, the Institute of Nuclear Materials Management’s total assets were $934,726. These assets included $207,676 in operating funds, $705,416 in reserves, and $21,634 in prepaid expenses/accounts receivable/other. The associated liabilities were $80,669 resulting in net assets of $854,057.

The FY 2014 gross income was $744,972 and the associated expenses were $665,508, resulting in a net gain of $79,464 for the fiscal year.

As you know, 2013 was a very difficult year financially for the INMM. The INMM Executive Committee realized that substantial changes would need to be made in order to remain fiscally solvent in 2014 and the foreseeable future. They made many major changes to the Annual Meeting, as well as other committee and chapter activities, resulting in a greatly reduced INMM budget that retained the core technical values of the INMM while eliminating non-essential costs. The INMM’s financial well being improved substantially in 2014 and the 2015 picture appears to be continuing to improve with a gradual easing of travel restrictions and growing international participation; however, it will take several years before we are able to restore some of the items cut from the budget. Some of the changes may become permanent.

The FY 2015 budget was established at a projected income of $783,745 and expense of $796,589, which results in a small net loss of $12,844. The excess expense is partly due to the INMM Executive Committee approving a two year project of collecting and electronically archiving all past PATRAM proceedings. The proceedings will be placed on, and made available through, the INMM web site. As of May 31, 2015, the actual income and expenses were following the budget projections. A breakdown of FY 2015 income and expense projections, by major category, is presented below.

### Income:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dues</td>
<td>$ 95,000</td>
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<tr>
<td>Memorial/Education Fund</td>
<td>2,000</td>
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<tr>
<td>Journal</td>
<td>7,000</td>
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<tr>
<td>Annual Meeting</td>
<td>520,475</td>
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<tr>
<td>Proceedings</td>
<td>1,200</td>
</tr>
<tr>
<td>Dividends and Interest</td>
<td>650</td>
</tr>
<tr>
<td>Spent Fuel Monograph</td>
<td>270</td>
</tr>
<tr>
<td>Web Site Job Listings</td>
<td>200</td>
</tr>
<tr>
<td>Workshops and Topical Meetings</td>
<td>156,950</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td><strong>$783,745</strong></td>
</tr>
</tbody>
</table>

### Expenses:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Society Headquarters</td>
<td>$115,395</td>
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<tr>
<td>Journal</td>
<td>50,145</td>
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<tr>
<td>Annual Meeting</td>
<td>371,295</td>
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<td>Annual Meeting Revenue Share</td>
<td>24,590</td>
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<tr>
<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>
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<td>PATRAM Web Site</td>
<td>1,200</td>
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<tr>
<td>PATRAM Proceedings Archive</td>
<td>15,000</td>
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<tr>
<td>Workshops and Topical Meetings</td>
<td>92,908</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$796,589</strong></td>
</tr>
</tbody>
</table>

Any INMM Member wishing to obtain a copy of the FY 2014 year-end financial statement may do so by contacting Robert Curl, INMM Treasurer, or Aaron Adair, INMM Executive Director.
Balloting Results 2015:
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:
Jill Cooley
Claudio Gariazzo
Teri Leffer
Kenneth Sanders

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 956 eligible Institute members of which 241 voted online or requested and returned paper ballots by the deadline. The number of members voting this year was increased from last year. As a result of the balloting, the Officers and Members-at-Large constituting the INMM Executive Committee beginning October 1, 2015 is as follows:

President – Lawrence Satkowiak
Vice President – Corey Hinderstein
Secretary – Chris Pickett
Treasurer - Robert Curl
Members-at-Large:
Cary Crawford 9/30/16
Steve Wyrick 9/30/16
Jill Cooley 9/30/17
Kenneth Sanders 9/30/17

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, Dianna Blair

Secretary
Obie Amacker, Michael Baker, George Baldwin, Susan Pepper

Treasurer
Cary Crawford, Ken Sorenson

Member-at-large
Steve Bellamy, Peter Mason, Eric Smith, D.L. Whaley

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 2014 Annual Business meeting are included in this Annual report.
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 and the N14 Secretary as an electronic file.

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

N14.6-1993 – Special Lifting Devices for Shipping Containers Weighing 10,000 Pounds (4500 kg) or More for Nuclear Materials
N14.6 Standard was submitted to the N14 Balloting committee on April 19, 2012 with the comment period closing May 31, 2012. 67% of the balloting membership submitted ballots. Of those, 71% balloted Yes, 13% balloted Yes With Comments, 8% balloting No With Comments, and 8% abstaining. 113 comments were provided, each of which must be resolved. Additionally, each No ballot must be resolved or the balloting member must be given the opportunity to appeal any decision that will be made by the committee, if necessary. The comments were submitted to the N14.6 working group to resolve by June 15, 2012.

The ANSI BSR-8 was submitted to ANSI headquarters on May 31, 2012 and published in the “Standards Action” on June 8, 2012, with the comment period closing on July 23, 2012. The BSR-8 is how the standards developer (N14), lets the public know that they have a standard out for review. When ANSI receives the BSR-8 from N14 they place a notice in the “Standards Action” which notifies the public of the availability of the standard. The public has 45-days to review this standard. The public did not comment on the N14.6 standard.

The N14.6 working group has two major setbacks. First the chair resigned and the acting chair retired without notice at the end of 2013. The N14 Chair has been working with this working group to determine who can chair this standard. Once the chair is determined The N14 Chair will have that individual balloted. Once approved by the N14 Membership committee the work on N14.6 will continue.

The second setback encountered by the N14.6 working group is that after 10-years the standard is administratively withdrawn by ANSI. Since no action was taken by N14, ANSI administratively withdrew the standard as of October 24, 2003. Once the chair has been selected and balloted N14 will start the process to reactivate 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 and the N14 Secretary as an electronic file.

N14.33 Standard was submitted to the N14 Balloting committee on July 20, 2014 with the comment period closing September 2, 2014. Due to a lack of response the N14 Chair extended the closing date of this ballot to September 23, 2014. 82% of the balloting membership submitted ballots. Of those, 71% balloted Yes, 13% balloted Yes With Comments, and 16% abstained. Forty-three comments were provided, each of which must be resolved. The ANSI BSR-8 was submitted to ANSI headquarters on September 2, 2014 and published in the “Standards Action” on September 5, 2014 and the comment period closing on October 20, 2014. The public did not provide any comments on the N14.33 standard. The comments from internal balloting were submitted to the N14 Chair and Vice Chair on October 1, 2014 to determine a path forward because this ballot was just to reaffirm the standard. The comments received appear to require the standard to be revised instead of reaffirmed. The N14 Vice Chair will get back to the N14 Chair with a path forward. If no action is taken on this standard by October 1, ANSI will administratively withdraw the standard.
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 and the N14 Secretary as an electronic file.

INMM ACCREDITED STANDARDS COMMITTEE N15
Melanie May, Chair

Status of Accredited Standards Committee (ASC)

N15 Standards

ASC N15 has four active standards:

- N15.8-2009 (R2015) – Methods of Nuclear Material Control, Special Nuclear Material (SNM) Control and Accounting Systems for Nuclear Power Plants;
- N15.36-2010 – Measurement Control Program, Nondestructive Assay Measurement Control and Assurance;
- N15.51-2007 – Measurement Control Program, Nuclear Materials Analytical Chemistry Laboratory; and

The American National Standards Institute (ANSI) approved INMM ASC N15’s reaffirmation of N15.8-2009 on June 10, 2015 and the reaffirmed standard is being submitted to ANSI for publication. The remaining three active standards were published by 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). The N15 Consensus Body Ballot Roster re-affirmed this standard with no changes. No comments were received during the public review period. ANSI approved INMM ASC N15’s reaffirmation on June 10, 2015. The reaffirmed standard is being submitted to ANSI for publication.
- N15.19-1989 – Volume Calibration Techniques (not active). 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 generated from several webinar sessions have been integrated and the consolidated draft of the standard, all six parts, is under review. Future webinars sessions are being planned to complete the review. When the writing team completes the review and revision process, the standard will be edited and submitted to the N15 consensus body ballot roster for approval.
- N15.28-1991 – Guide for Qualification and Certification of Safeguards Personnel (not active). Input from the writing team has been consolidated into a draft revised standard which was then reviewed by the team. As part of the writing team work, other domestic and international models for defining a qualification & certification process (e.g. ISO, WINS) were reviewed and discussed. The revised standard is ready for the writing team “vote”. Following writing team approval it will be submitted to the N15 Board for INMM ASC N15 consensus body ballot vote.
- N15.41-1994 – Measurement Control, General Principles (not active). A draft revision of the standard is under review by the writing team, along with key topics for consideration. One set of comments have been received, although more are needed. A writing team teleconference is planned for summer 2015 to discuss existing comments and solicit additional input.
- 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.

N14 Annual Meeting

The annual meeting is currently being planned for the third quarter of 2015.
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. During the Global Cylinder Identification and Monitoring System (GCIMS) Stakeholder Meeting in April 2014 the DOE/NNSA UF6 cylinder tracking team discussed engagement with the World Nuclear Transport Institute (WNTI). WNTI indicated that they want to develop an industry-wide concept for the identification of UF6 cylinders. The U.S team is currently engaged with WNTI.
- N15 Board Officers participated in the 3rd Workshop on Isotope Federal Supply and Demand, U.S. DOE WebEx sessions on the Use of 10 CFR Part 851 voluntary consensus standards, the INMM Executive Committee meetings in November 2014 and March 2015, an ANSI OMF meeting in October 2014, a meeting of the ASTM C26.10 standards committee, and the INMM Northeast Chapter meeting in December 2014.
- N15 and N14 (Packaging and Transportation) are invited by the INMM EC to submit a joint article for the INMM journal. An abstract has been prepared and work has begun on the article, which is intended to highlight the importance, function and benefit of the INMM as Secretariat for N15 and N14, two nationally accredited standard development organizations.
- The N15.56-2014 standard writing team is scheduled to present a technical paper at the 56th INMM Annual Meeting in July 2015.
- The N15 Board has confirmed Dr. B. (Chino) Srinivasan of New Brunswick Laboratory, as the new INMM ASC N15 Secretary. N15 expresses appreciation and gratitude to Steve Ward who served as N15 Secretary for two years and resigned to complete his university degree work.
- The N15 Board welcomes Jacqueline L. Shipwash (Jackie), of Oak Ridge National Laboratory, as a new ASC N15 Writing Group Liaison.

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 ASC 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

INMM Accredited Standards Committee N15 (cont.)

ANNUAL MEETING TECHNICAL PROGRAM

Teresa McKinney, Chair

COMMITTEE REPORTS

AWARDS OVERSIGHT COMMITTEE
Susan Pepper, Chair

In late 2014, Nancy Jo Nicholas announced her intention to resign from the position of Awards Oversight Committee Chair. Nancy Jo served the INMM faithfully in this position for several years. The Executive Committee solicited volunteers to succeed Nancy Jo, and I am very honored to have been selected from among the very qualified candidates. I previously served as the Chair of the Subcommittee for Special Service Awards and Recognition, and I selected Arden Dougan to succeed me in that position. Joseph Indusi remains the Chair of the Subcommittee for Distinguished and Meritorious Service Awards.

The Special Service Awards and Recognition Subcommittee is responsible for drafting text for Resolutions of Respect and judging nominations for the Charles E. Pietri Special Service Award to recognize noteworthy contributions to the industry or the Institute.

The Distinguished and Meritorious Awards Subcommittee members review nominations for both the Vincent J. DeVito Distinguished Service Award to honor long-term noteworthy service to the nuclear materials management profession and the Edway R. Johnson Meritorious Service Award to honor long-term outstanding contribution to the INMM and the profession.

Award nominations were due on April 1, 2015. Nominations were received for the Vincent J. DeVito Meritorious Service Award, the Edway R. Johnson Distinguished Service Award, and the Early Career Award. There were no nominations for the Charles E. Pietri Special Service Award. The subcommittees reviewed the nominations in April, and in May the Awards Committee’s recommendation was submitted to the Executive Committee.

Sorrowfully, three Resolutions of Respect will be prepared to honor INMM colleagues who have recently passed away: Carl Bennett, Jeff Jay, and Ruth Duggan. These resolutions will be read during the annual INMM Business meeting on July 14, 2015.
The Communications Committee has been tasked (EC action Item 112113-6) to develop a “communications strategy” for the INMM. The draft has been revised several times based on internal Committee input. The latest draft will have been forwarded to the Fellows and Strategic Planning committees before the end of June for review and comment.

The Communications Committee met briefly on March 5 in New Orleans in connection with the INMM Executive Committee (EC) and Technical Program Committee (TPC) meetings. Subcommittee chairs Karl Horak and Kate Bachner were unfortunately unable to attend, yet Oversight chair Charlie Harmon and past Communications chair Brian Boyer did join us. We have many issues to consider; we were only able to discuss a few of them. Since such opportunities to meet in person are relatively rare, we therefore plan to arrange occasional teleconferences as a means to make progress on the agenda. Other topics we touched on, besides the review plan for the Communications Strategy, included:

1. Need to support workshops: how best to do so? What should be the role of the Public Relations and Sponsorship Subcommittee?
2. Social media and apps: combine these topics under the same subcommittee, or keep them separate?
3. What should be the appropriate content, frequency, and authority levels for INMM social media applications?
4. INMM Communicator vs the Journal of Nuclear Materials Management (JNMM): differentiate the content for each
5. Website subcommittee portal: Sandia National Laboratories has been hosting the portal; should we find an alternate host?

On June 2 several of us met by teleconference to discuss questions specific to the INMM Communicator newsletter. In particular, we’re looking at ways to increase the readership. Thanks to such tools as Google Analytics, there are ways for us to get a sense of how well the publication is reaching our membership. Although recent indicators are encouraging, there is always much room for improving the outreach. Is it a question of content? Of awareness? Or are other issues in play?

We will hold an open meeting of the Communications Committee during the Annual Meeting. Please look for a notice of time and location, which have yet to be arranged. We encourage anyone with interest in the business of the committee to join us. We will have an agenda for discussion, but are certainly open to topics of new business from any of the INMM membership. If you are unable to attend the meeting, but wish to share ideas or have questions, please contact the chair: gtbaldw@sandia.gov.

Additional information from the three Communications subcommittees follows:

Publications (Jay Disser and Katherine Bachner, Co-chairs)
The May 2015 issue of the INMM Communicator has been released. The issue includes articles on two of the INMM Technical Divisions, International Safeguards and Nuclear Security/Physical Protection. Roger Howsley contributes a ten-year anniversary report on the World Institute of Nuclear Security (WINS). U. Washington student member Sarah McPhee and U.S. exchange scholar from Japan Masahiro Chikushi both share personal viewpoints from their current career perspectives. The newsletter proves to be an informative and interesting read!

Please feel free to contact the Editors with ideas for future issues; they welcome all constructive feedback as well. Our particular concern is to make the publication of value to the membership. We expect to release the next issue in August or September, to include highlights from the Annual Meeting.

Public Relations and Sponsorship (Susan Pepper, Chair)
Susan Pepper has been supporting the 8th INMM/ESARDA Joint Workshop on Building International Capacity, to be held in Jackson Hole, WY, October 4-7, 2015. As with other events, sponsorship is a critical need. Chapters and other INMM entities are encouraged to ask for help with resources for developing workshops and soliciting sponsorships.

Two other topics for the subcommittee have been (1) INMM interaction with the media, which is being considered as well by the Fellows Committee, and (2) communicating the benefits of Sustaining Memberships. Both of these topics highlight the difficulty for Communications: often the issues are not simply one of communicating a topic; there is often a policy matter or...
in institutional decision required by the EC that is involved, before Communications can take action.

Website (Karl Horak, Chair)

There is still much that could be done to improve and update content on the INMM website, inmm.org, especially by the technical divisions. We’d also like to see the website host more content from the various standing committees, and are in the process of originating a separate web page for the Communications Committee as a model. The web portal used by the website subcommittee, https://iwsc.sandia.gov, has recovered from previous server security issues and has seen modest activity over the past couple of months. The portal is our mechanism to keep the main organization website up to date and relevant. Also, we now conduct regularly scheduled, automated scanning for broken links on the INMM website, which had been a source of frustration in the past when we had relied entirely on user feedback to identify problems.

Committee Membership

George Baldwin, Chair
Susan Pepper, Public Relations and Sponsorship Subcommittee
Jay Disser, Publications Subcommittee
Katherine Bachner, Publications Subcommittee
Karl Horak, Website Subcommittee
Sean Morrell
Patricia Sullivan

The only subcommittee with additional members is the website subcommittee:

<table>
<thead>
<tr>
<th>Member</th>
<th>Representing</th>
<th>Note*</th>
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<tbody>
<tr>
<td>Karl Horak</td>
<td>Chair</td>
<td></td>
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<tr>
<td>George Baldwin</td>
<td>ex officio (Communications Committee)</td>
<td></td>
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<tr>
<td>Patricia Sullivan</td>
<td>INMM Headquarters</td>
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<tr>
<td>Jeff Allender</td>
<td>FO tech division</td>
<td></td>
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<tr>
<td>Mari Gillogly</td>
<td>ISD tech division</td>
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<tr>
<td>Teri Leffer</td>
<td>NAC tech division</td>
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<tr>
<td>Michael Baker</td>
<td>MCA tech division</td>
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<tr>
<td>Felicia Duran</td>
<td>NS &amp; PP tech division</td>
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<td>Steve Bellamy</td>
<td>PTD tech division</td>
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<td>Alan Bolind</td>
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<td>John Dewes</td>
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<td>Arden Dougan</td>
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<td>Matt Feldman</td>
<td></td>
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<tr>
<td>Marek Flaska</td>
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<td>Kim Gilligan</td>
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<td>Kyle Hartig</td>
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<tr>
<td>Jack Jekowski</td>
<td>Strategic Planning Committee</td>
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<td>Alexis Kaplan</td>
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<tr>
<td>Carrie Mathews</td>
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<tr>
<td>Melanie May</td>
<td>Standards committees</td>
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<tr>
<td>Steve Ortiz</td>
<td>Bylaws Committee</td>
<td></td>
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<tr>
<td>Michelle Romano</td>
<td>Membership Committee</td>
<td></td>
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<tr>
<td>J.R. Russell</td>
<td>U.S. regional chapters</td>
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*Note: “provisional” members are enlisted until they have appointed a representative to the subcommittee.
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 2014 Plenary Session of the Annual Meeting, Charlie Harmon and Steve Ortiz were introduced as the newest Fellows. The Fellows lunch meeting held during that meeting in Atlanta, Georgia provided an opportunity for the Fellows in attendance to personally congratulate Charlie and Steve. Fifteen Fellows along with INMM President Ken Sorenson attended the meeting which 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 and issues discussed the previous year: Webinars as educational opportunities; press coverage of INMM events and press interactions in general; the evolving opportunities with PATRAM; and the relationship with WINS.

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, 2015. Subsequently, the Fellows Committee reviewed the nomination material received from Secretary Picket and forwarded a recommendation to the EC for final disposition. The Executive Committee has asked the Fellows to take a look at defining a more prescriptive process or procedure for nomination submittals so a set of recommendations is under development. 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 Indian Wells, California 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.
Membership Committee Updates

- Formation and increased memberships of International Student Chapters have been the highlight of the membership in late 2014/early 2015, most notably those in Korea, Jordan, India, and Morocco.

- In late 2014, we established an informal, routine dialogue with the North American Young Generation in Nuclear (NAYGN) President. NAYGN’s website states the vision is to develop leaders to energize the future of nuclear, and the mission is to provide opportunities for a young generation of nuclear enthusiasts to develop leadership and professional skills, create life-long connections, engage and inform the public, and inspire today’s nuclear technology professionals to meet the challenges of the 21st century.

Most NAYGN members are from Industry (NEI, Areva, Exelon, etc.) Where applicable and missions align, NAYGN members receive updates with postings related to INMM and meetings, abstract submittals, workshops, etc. on the website (www.naygn.org) as well as the Facebook page and Twitter feed.

- We continue to provide feedback to Kellen in the effort to keep improving the website application/review process. We will have a luncheon at the July meeting where we will resolve some of the issues, especially those related to the International Student Chapter applications.

- The Executive Committee has approved 5 new Senior Members of the Institute this year. They will be recognized and given their certificates at the July Annual Business meeting.

Since the last EC meeting in March 2015, the Committee has recommended approval of 34 new regular members and 21 new student member applications.

Membership Recap:
Current membership statistics are as follows with previous years for comparison.

Members of the Committee:
Jill Cooley
Bob Curl (EC)
Al Garrett
Leigh Gunn
Michelle Romano
Grace Thompson
Mark Schanfein
Mark Mount

<table>
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<tr>
<th>Member Type</th>
<th>Jun-15</th>
<th>Jun-14</th>
<th>Jun-13</th>
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<td>Life Fellow</td>
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<td>1</td>
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<td>Student</td>
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<td>152</td>
<td>188</td>
<td>122</td>
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<td>Total Members</td>
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<td>1307</td>
<td>1277</td>
<td>1303</td>
<td>1181</td>
<td>1158</td>
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</tbody>
</table>
STRATEGIC PLANNING COMMITTEE
Jack Jekowski, Chair

The current Membership on the Committee includes:

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jeffrey Allender</td>
<td>Program Manager, Savannah River National Laboratory</td>
</tr>
<tr>
<td>Katherine Bachner</td>
<td>Scientific Associate, Brookhaven National Laboratory</td>
</tr>
<tr>
<td>Arden Dougan</td>
<td>Program Manager, NNSA</td>
</tr>
<tr>
<td>Franklin DuBose</td>
<td>Manager, Operations and Business Development at the Georgia Institute of Technology</td>
</tr>
<tr>
<td>Jeff England</td>
<td>Program Manager, Savannah River Nuclear Solutions</td>
</tr>
<tr>
<td>Braden Goddard</td>
<td>Post-Doctoral Research Fellow, Nuclear Engineering, Khalifa University of Science, Technology &amp; Research (KUSTAR)</td>
</tr>
<tr>
<td>Jack Jekowski, chair</td>
<td>Principal Partner, Innovative Technology Partnerships LLC</td>
</tr>
<tr>
<td>Geneva Johnson</td>
<td>Nuclear Consultants and Engineers (NCAE), 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>Graduate Fellow supporting the Office of Nuclear Materials Integration, National Nuclear Security Administration</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>

The SPC now has a full complement of 20-members. The Chair continues to actively seek a nominee for Co-Chair to create a succession plan for the organization.

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 2014 – July 2015

1. Organization chart and other INMM Website Additions. The functional organization format created by the SPC is now maintained by INMM Headquarters and can be found under the “About INMM” tab on the INMM website (http://www.inmm.org) by clicking on the “Organizational Chart” link. This item is now considered closed.

2. EC Action Item List No. 11213-4, “Create a one-pager identifying the benefits of INMM.” This has been a continuing effort by the SPC to succinctly portray the Institute on a single page, providing an introduction to stakeholders on the international scope of the organization. The map from this draft “one-pager” has subsequently been posted on the INMM website, under the “About INMM” tab as “Our Global Presence”. This “one-pager” has now been turned over to Headquarters for control and updates and will be linked on the INMM website. This item is now considered closed.

3. EC Action Item List No. 030414-5, “Redraft the mission statement coordinating with Steve Mladineo and the Fellows Committee and bring back to the E.C. for review.” This effort was prompted from the work done by the SPC on the “one-pager” (above), where an attempt was made to capture the mission of the organization more succinctly rather than use
the longer original version in the By-Laws. The interactions during this updating process among leadership, members of the SPC and others in the Institute demonstrate the extraordinary diversity of expertise and technical/policy interests that constitute our organization. The final revised version agreed to by the EC after the November meeting is now available on the INMM website:

The Institute of Nuclear Materials Management (INMM) is an international professional society dedicated to development and promulgation of practices for the safe, secure and effective stewardship of nuclear materials through the advancement of scientific knowledge, technical skills, policy dialogue, and enhancement of professional capabilities. This item is now considered closed.

**EC Action Item List No. 11214-2. “Contact the Chapter Relations Committee to discuss involvement of CDRF Global in Committee Activities.”** The significant work that the U.S. Department of State’s Partnership for Nuclear Security (PNS) program accomplished in collaborating with the Institute last year by the encouragement and creation of new international chapters, with a focus on student engagement, was described in the INMM Taking the Long View in a Time of Great Uncertainty: Turning the Corner (Fall 2014, Vol. 43, No.1). CDRF Global is the contractor supporting the DoS program, and collaborated on the Article. Since the Annual meeting last year, staff at CDRF Global has turned over, however the Chapter Relations Committee have been in touch with them, and the PNS website continues to promote the INMM (recently with a link, for example to our Annual Meeting), as well as describing the activities of various INMM International Chapters. This item is now considered closed.

**Taking the Long View Industry News Column.** During this period four INMM “Taking the Long View columns were submitted:

a. Journal of Nuclear Materials Management (JNMM, Vol. XLIII, No. 1) – “Taking the Long View in a Time of Great Uncertainty: Turning the Corner”. This column addressed the significant effort by the DoS’ Partnership for Nuclear Security (PNS) initiative to sponsor international student chapter members to the Annual Meeting, and the special program activities that were part of that effort.

b. JNMM 2015, Vol. XLIII, No. 2 – “Taking the Long View in a Time of Great Uncertainty: International Collaborations Amid a 21st Century Test for Diplomacy”. This column was co-authored with Mike Whitacker, Susan Pepper and Kim Gilligan, and includes a report on the October IAEA International Safeguards meeting as well as a retrospective, in context, of the Tuesday Plenary talk at the Annual Meeting by Tero Varjoranta, Deputy Director General and Head of the Department of Safeguards at IAEA. The column also focused, in that context, on the continuing diplomatic efforts by the U.S. and others to strike an international agreement with Iran on their nuclear program.

c. JNMM 2015, Vol. XLIII, No. 3 - “Taking the Long View in a Time of Great Uncertainty: Making Sausage – A View into Creating the Annual Meeting Technical Program.” This column provided insight into the Technical Program Committee meeting activities and the strategic importance of those efforts to the success of the overall Mission of the Institute. For a short video of this year’s morning session to get a sense for the activity, see http://youtu.be/UA44OsRr_lI. Two video clips of the afternoon session can be found at http://youtu.be/ajHC3Az7rbI and http://youtu.be/39Wa6O4r5zw.

d. JNMM 2015, Vol. XLIII, No. 4 - “Taking the Long View in a Time of Great Uncertainty: Going Back to Our Roots – DOE’s Nuclear Security Role”. This column recounts the historical roots of the Institute, and reflects on the difficulties going back to the days of the Atomic Energy Commission, and continuing these days to many Commissions and studies looking at the organizational challenges facing the Nuclear Security Enterprise (NSE). The column also looks at the bright side of the NSE’s technical accomplishments including the recent consultations during the negotiations with Iran, and paints a brighter future ahead based on student participation in the recent Southwest Chapter Technical Meeting where more than thirty young students attended and several made highly technical presentations on their research.
Encouraging Women to Pursue Careers in Nuclear Materials Management. An SPC Committee member, Arden Dougan, initiated a discussion with the Management Oversight Chair late last year about how the Institute might encourage more women to enter the nuclear materials management disciplines. The SPC had previously identified the Women in Nuclear U.S. (WINUS) organization as a possible collaborator when a list of more than 50 organizations was created two years ago to serve as a strategic initiative for the Institute to enhance its influence and presence. Subsequently, the Management Oversight Chair and other members of the SPC researched how other, similar-missioned organizations are addressing this important element of diversity in their membership, and developed a set of questions that the SPC is pursuing:

- Do we need a separate Committee for Women in the Institute? Charlie Harmon did some work on this in December and discovered that other professional societies do indeed have a focused support element:
  - American Chemical Society - Women Chemists Committee [http://www.womenchemists.sites.acs.org/](http://www.womenchemists.sites.acs.org/)
- Do we want to have just social events and networking events at the Annual Meeting, or is this topic important enough to consider having a special session?
- Do we want to network with other “women in nuclear” organizations such as WINUS?
- Is this an important strategic issue for the INMM to focus on? (based on the interest already expressed, I think we can agree it is).
- Should we include a preference in filling leadership and Committee positions in the Institute to improve our diversity?
- What specific support can the Institute provide, such as the support currently provided to students?
- What challenges do we face internationally, and are they different than the challenges we face here in the U.S.?

The SPC will continue to research this topic, as members of the Committee have already become engaged in some side-events at other meetings (for example, at an April ANS/INMM meeting at Texas A&M). We are also monitoring DOE initiatives in this area, as the new Deputy Secretary, Elizabeth Sherwood-Randall, has shown interest in this issue, delivering a Key Note address last month at the annual DOE Oak Ridge Woman’s Workshop (see [https://www.facebook.com/OakRidgeWomensWorkshop](https://www.facebook.com/OakRidgeWomensWorkshop)).

Planned actions for 2015-2016

- Examine the possibility of creating a succinct and focused “Strategic Plan” for the Institute based upon our mission and strategic issues, including the development of a Strengths, Weaknesses, Opportunities and Threats (SWOT) analysis, and/or other related activities associated with the development of a formal strategic plan for the Institute.
- Continue to identify possible opportunities to improve participation in the Institute by women in appropriate fields of study.
- Assist members of the EC and others in the development of strategic relationships with similar-missioned organizations identified on the Collaboration Matrix.
- 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.
- 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.
- 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, including women.
- 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.
- Identify and name a Co-Chair of the Committee.
Strategic current events impacting the Institute today:

Halfway through 2015, the world continues to face many uncertainties that impact the mission of the Institute and the work of its members, including:

International

- **Continuing tensions between the West and Russia.** This situation has had a dramatic negative impact on the collaborative work by many members of the Institute, both in the U.S. and internationally, including the open exchange of information at the Institute’s Annual Meeting and technical workshops. When reconciliation does occur, trust and relationships will have to be re-built as they were in the years after the end of the Cold War through the Lab-to-Lab program. Immediate concerns are the sustainability of Russian Chapters and keeping lines of communication open with peers in those Chapters.

- **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) continues, as tensions have escalated and are now influencing national defense policy in Japan and other states. In the recently released 2015 U.S. National Security Strategy (NSS - http://www.whitehouse.gov/blog/2015/02/06/presidents-obamas-national-security-strategy-2015-strong-and-sustainable-american-le), the “Rebalance to Asia and the Pacific” strategy continues to take a top priority as the U.S. monitors this situation closely.

- **Iran.** The international community is holding its breath as multi-party diplomatic and technical talks with the P5+1 and the IAEA inch toward yet another deadline in June, 2015 for resolution of this situation. These negotiations have raised the technical nature of the talks to a very high level, which reinforces the need for an organization such as the INMM to provide the expertise and an international collaborative environment to resolve the complex issues on the table, including negotiations on enrichment technology.

- **North Korea (DPRK).** Concern continues about the secretive nuclear work being conducted by this nation, with recent speculation by senior military experts on the Korean peninsula that the DPRK could be close to having the capability to mate a small nuclear warhead to their long-range mobile missiles. Recent missile tests by the DPRK also indicate that their delivery-system development continues un-abated.

- **Global Instability.** The continued unrest in the Middle East, including the rise of a new coordinated effort by the Islamic State of Iraq and the Levant (ISIL, or otherwise known in the Media as ISIS) and the expansion of the ground war across international borders presents unique challenges to the world as a general malaise has spread across the continent. Through the use of Social Media, these extremist factions have also shown the ability to recruit members internationally, creating the “lone-wolf” scenarios that could lead to extraordinary events of destruction as demonstrated with the attack on offices of the Charlie Hebdo magazine in France, and now, several incidents in the U.S. 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 extensive diversity of the Institute’s members in multiple disciplines could very well be a determining factor in how successful the world is in battling this new confounding challenge.

- **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, with the first scheduled to come on line in 2017. Continued technological struggles by Japan, however, to contain the spread of radioactive 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 as they push the limits of science and technology. Of note, the recent IAEA Diplomatic Conference on the Convention on Nuclear Safety (http://www-ns.iaea.org/conventions/nuclear-safety.asp?s=6&l=41) reinforced the on-going development and implementation of international safety standards for nuclear installations.

- **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.

- **Change in U.S. Senate Leadership.** The mid-term elections shifted power in the Congress to the Right, and, as expected, some issues such as the negotiations over the Iranian nuclear program have become
confrontational. With the Presidential election now looming for 2016, historic consequences resulting from decisions being made on a number of international fronts will begin to play a more prominent role.

**U.S. Nuclear Security Enterprise**

- **WIPP Radiation Incident.** The breach of a stored radioactive waste drum at the Waste Isolation Pilot Plant (WIPP) in Carlsbad, New Mexico has created a major problem for the DOE and raised questions about the safety of nuclear waste storage programs, despite the fact that the release was very minor, and safety systems in place appeared to work. The resulting decision to dramatically reduce the Award Fees for both Los Alamos National Security (LANS) and Nuclear Waste Partnership (NWP) was precedent-setting in the DOE/NNSA. Further actions by the State of New Mexico, levying fines initially of $54M for the two contractors, and subsequently negotiating $73M in corrective action initiatives have created a liability nightmare for the DOE and its contractors.

- **Future of the Enterprise.** Congressional pressure continues to be put on NNSA and DOE for a number of issues related to cost overruns, program delays, and security as they re-evaluate the benefits and costs of privatizing the contracts for the three National Security Laboratories, amid discussions of a “Public Interest Model” and a move to renegotiate award fee structures for the major M&O contracts. With the successful resolution of the protests filed over the award of the combined Y-12/Pantex contract, the new contractor, Consolidated Nuclear Security (CNS) has undertaken the challenge of meeting promised goals, as all eyes watch to see if this new initiative will prove its worth. Two new reports examining the Nuclear Enterprise and the structure of the NNSA and its Laboratories will also provide new perspectives to the Congressional Hearings this spring and summer on the FY 2016 budget as many in the public policy community are questioning the $ Trillion investment being cited over the next 30 years to sustain the nuclear stockpile.

An additional Task Force, established by Congress in 2014, and known as the “Commission to Review the Effectiveness of the National Energy Laboratories”, is chartered to review whether the DOE national laboratories are properly aligned with the Department’s strategic priorities, have clear and balanced missions, have unique capabilities to meet current energy and national security challenges, are appropriately sized to meet the Department’s energy and national security missions, and are appropriately supporting other Federal agencies. Work is continuing on this Commission and a report is expected later this year.

**INMM**

- The INMM itself faces “history in the making” as it attempts to adapt to this dramatically changing international and U.S. environment, including the continuing impact of U.S. government restrictions on conferences, and the loss of participation by some members and Chapters due to international tensions.

Respectfully Submitted,
Jack Jekowski
Strategic Planning Committee Chair
505 280-2217
jpjekowski@aol.com
A Central Region Chapter meeting was held July 23, 2014, at the INMM Annual Meeting in Atlanta, Georgia. Four students were provided stipends toward their attendance at the annual meeting. Those students were: Jarred Auxier, Hannah Hale, Alex Okowita, and Chris Pope. Each agreed to also present their work at the chapter meeting in the fall.

Elections for Member-at-Large were conducted. Tom Bonner and Morris Hassler were elected to a two-year term to replace Howard Hall and Jessica White-Horton, both of whom had completed a two-year term. The change in leadership was effective October 1, 2014.

The Central Region Chapter conducted a fall meeting, “The Next Generation of Nuclear Materials Management Professionals” at the Y-12 New Hope Center in Oak Ridge, TN, on Tuesday, October 28, 2014. The event featured a plenary presentation by Melissa Scholz, US DOE NNSA, on “NNSA Human Capital Development (HCD), Opportunities for Students, and Areas of Interest in the Field on the Horizon.” A panel discussion featuring participants from INL, ORNL, and Y-12 provided perspective on “Developing the Next Generation of Nuclear Materials Management Professionals.” The highlight of the event was the nine student papers from the University of Tennessee, Purdue University, and Georgia Tech. A meeting agenda is attached. One student presenter will be sponsored to the INMM Annual Meeting in Palm Desert, California, in July 2015. Sponsors for the fall meeting were Canberra, CNS (Y-12), MS Technology, ORNL Global Security and Nonproliferation Program Office, ORNL Nuclear Security and Isotope Technology Division, and Tetra Tech. Thanks to Louise Worrall and Jessica White-Horton for leadership in planning the fall meeting.
Central Chapter (cont.)

There were many networking opportunities.

Students from Purdue University and Georgia Tech participated.

There was stimulating discussion and audience participation.

Video of the meeting was sponsored by the University of Tennessee and will be available on the UT Institute for Nuclear Security website.

UT Institute for Nuclear Security website.

The Central Region Chapter Spring Meeting was held on March 10, 2015 at The University of Tennessee Howard H. Baker, Jr. Center for Public Policy. The meeting: “70 Years of Managing Nuclear Materials/Weapons: The Nuclear Fuel Cycle” discussed nuclear fuel cycle facilities in our region. A full range of topics covered managing nuclear materials, the nuclear fuel cycle, milling and mining, uranium oxide resources, conversion and enrichment facilities, reactors, reprocessing, and the weapons fuel cycle. The Central Region Chapter worked closely with the UT Student Chapter in putting on this meeting which was well attended by UT students. Additionally, students from the University of Florida and Georgia Tech were also in attendance. Sponsors for the spring meeting were ORNL - Global Security & Nonproliferation Programs, ORNL Nuclear Security & Isotope Technology Division, and Tetra Tech. Thanks to Jackie Shipwash and Linda Paschal for taking leadership in planning the spring meeting.

The sessions were engaging and interactive.

Dan White, RCMT spoke on “70 Years of Managing Nuclear Materials”.
Networking opportunities abounded. Some of the speakers for the meeting are highlighted in the pictures below.

Joe Stainback, UTK spoke on Resources for Uranium Oxide.

Al Stratemeyer, Honeywell/Converdyn spoke on Conversion Facilities.

Robert Eby, USEC/Centrus Energy spoke on Enrichment Facilities.

Jessica White-Horton, ORNL spoke on Milling and Mining.
The meeting was videotaped for inclusion on the UT Institute for Nuclear Security Website.

A new logo design has been approved by the Central Region Chapter Executive Committee and has been submitted for approval to the INMM Executive Committee. The new logo, seen below, has been incorporated in the attached document.

The Central Region Chapter is sponsoring one UT student, Andy Giminaro, to attend the 2015 Annual Meeting. Andy won the student paper competition during the Central Region Chapter’s 2014 fall meeting.

The Central Region Chapter conducted a chapter meeting at the close of the spring meeting. During the meeting upcoming elections and student sponsorship opportunities were discussed.

Chapter Financial Status: As of June 4, 2014, the Central Chapter had a balance of $22,387.86.

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
Louise Worrell, Member-at-Large
Terrance McGuire, Member-at-Large
Tom Bonner, Member-at-Large
Morris Hassler, Member-at-Large
Leadership

The NE Chapter Executive Committee members are the following:

<table>
<thead>
<tr>
<th>Office</th>
<th>Name</th>
<th>Term Ending</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Joe Rivers</td>
<td>October 2015</td>
</tr>
<tr>
<td>Vice President</td>
<td>Arden Dougan</td>
<td>October 2015</td>
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<tr>
<td>Secretary</td>
<td>Charles D. Harmon</td>
<td>October 2015</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Joseph Glaser</td>
<td>October 2015</td>
</tr>
<tr>
<td>Member-at-Large</td>
<td>Kelsey Hartigan</td>
<td>October 2015</td>
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<tr>
<td>Member-at-Large</td>
<td>Kate Bachner</td>
<td>October 2015</td>
</tr>
<tr>
<td>Member-at-Large</td>
<td>Melvin Feather</td>
<td>October 2016</td>
</tr>
<tr>
<td>Member-at-Large</td>
<td>Serena Vergantini</td>
<td>October 2016</td>
</tr>
<tr>
<td>Immediate Past President</td>
<td>Houston Wood III</td>
<td>October 2015</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.

The NE Chapter held its Annual Membership Meeting on Wednesday, July 23rd at the Marriott Marquis in Atlanta, GA. The 23 Chapter Members present offered several suggestions for Chapter events in the coming year, including continuing to hold fall and spring Chapter meetings at George Washington University’s Elliott School of International Affairs; participating in science fairs and bowls that are held in the Washington DC greater metropolitan area; and supporting the Boy Scout Energy Merit Badge activities. The Members also offered suggestions regarding establishing a Student Chapter in the Washington DC areas and recommended that the Executive Committee engage George Washington University, Georgetown University, University of Maryland, American University, and the Virginia Polytechnic Institute and State University in Blacksburg. The Chapter EC will discuss potential efforts towards accomplishing these activities.

The Department of Energy/Energy Information Administration held their annual Scout gathering, which enables Boy and Girl Scouts to earn their Nuclear Science and Energy Merit Badges. Consistent with recommendations from the Chapter Membership Meeting, the Northeast Chapter provided support for the November 15th training day, which by all accounts was a very successful event. The round robin approach to satisfying the merit badge requirements proved to be an efficient method of accomplishing the required learning. 85 Boy and Girl Scouts completed the Nuclear Science Merit Badge and 65 Boy and Girl Scouts completed the Energy Merit Badge. The training day activity will be held again next year. The following article appeared in the Science-Technology-Engineering-Mathematics (STEM) section of the Northern Capital Area Council’s Scouting Digest winter edition:

On October 6th, registration went live for the U.S. Energy Information Administration’s Scout Day and within five minutes all the spots were booked. Testament to its popularity, nearly 400 scouts have participated since Scout Day began in 2012. This year, 130 Boy and Girl Scouts came to the United States Department of Energy’s headquarters to further their energy and STEM education and to earn an Energy or Nuclear Science merit badge or patch on November 15th. Boy Scouts in attendance also earned three of the requirements towards their Start Your Engines! Nova Award. To facilitate the event, the DOE cafeteria in downtown Washington D.C. was converted into an education center full of hands-on experiments, Geiger counters, fuel cells, cloud chambers, and other displays. The very popular mousetrap reactor exhibit which demonstrates what occurs in an uncontrolled nuclear reaction also made a return appearance. Scout Day was made possible thanks to three dozen employees from the EIA, National Nuclear Security Administration, and other Energy Department agencies who volunteered to be counselors and support staff. Local chapters of the American Nuclear Society and the Institute of Nuclear Material Management also contributed to the event’s production. (Reproduced with permission from the National Capital Area Council, Boy Scouts of America)
On Wednesday, December 3, 2014, the Northeast Chapter of the INMM and George Washington University’s Elliott School of International Affairs hosted a lunch-time panel discussion on “Nuclear Security: Policy and Practice”. The keynote speaker was Laura S. Holgate from the National Security Council followed by a discussion session led by Douglas B. Shaw from GWU’s Elliott School of International Affairs and Samantha Pitts-Kiefer from the Nuclear Threat Initiative. Approximately 50 persons attended the session representing the Elliott School, DOE/NNSA, Department of State, and private industry. A key discussion area was a need to provide better technical information to non-technical track students and workers in the nuclear security area.

The Northeast Chapter supported the Nonproliferation and Arms Control Division Sponsored Workshop on Reducing the Risk from Nuclear and Radioactive Materials that was held at the Elliott School of International Affairs (ESIA) on March 17-18, 2015. Following welcoming remarks by Dr. Douglas Shaw, Associate Dean for Planning, Research and External Relations Assistant Professor of International Affairs, Dr. David Huizenga, DOE/NNSA Principal Assistant Deputy Administrator for Defense Nuclear Nonproliferation, opened the workshop with comments relative to DOE/NNSA’s recent realignment to better address the threat from global adversaries. Dr. Christian Kirchsteiger, Senior Policy Officer, European Commission’s Directorate for Safeguards and Nonproliferation, presented an overview of the Perception of Nuclear Risk and Cybersecurity. The first panel discussion on the Perception of Nuclear Risk was chaired by Joe Rivers and included panelists Patricia Milligan and Maureen Conley from the NRC, Edwyn Lyman from the Union of Concerned Scientists, and George Moore form the Middlebury Institute in Monterey, CA. Dr. Peter Rollberg, Director, Institute for European, Russian and Eurasian Studies at the Elliott School chaired the session on the Changing Relations with Russia that included panelists Matthew Bunn from Harvard University and Henry Hale and Cory Welt from the Elliott School. Dr. Rensselaer from the Foreign Policy Research Institute wrapped up the first day or presentations with comments relative to Reappraising Nuclear Security Strategy. Karyn Durbin, Foreign Affairs Specialist at NNSA, opened the second day with comments regarding International Safeguards. Dr. Joe Stainback from the University of Tennessee chaired the 4th panel discussion on Insider Mitigation that included Joshua Sinai from Resilient Corporation, Randy Trzeciak from Carnegie Mellon and Joe Rivers form the NRC. Joe Rivers then chaired the fourth session on Cybersecurity with panelists Rob Hoffman form INL, Mitch McCrory from SNL, Phil Craig from PNNL, Russ Felts from the NRC and Bill Gross from the Nuclear Energy Institute. The audience included 52 individuals from the nuclear materials management and cybersecurity communities. Planning for the following 2015-2016 workshops continues: The Chapter sponsored a spring lunch meeting on Cyber Security on 09 April 2015. George Washington University’s Elliott School of International Affairs hosted this meeting as another in their series of Nuclear Policy Talks. The meeting featured a panel discussion on “Cyber Security Threats: Mitigation and Policies”. The panel members included Robert Hoffman from the Idaho National Laboratory, who presented “Cyber Security Threats to the Critical Infrastructure”; Joe Rivers from the Nuclear Regulatory Commission (NRC), presented “Cyber Security at NRC Licensed Facilities”; and Frank J. Cilluffo, Associate Vice President and Director of George Washington University’s Center for Cyber and Homeland Security, presented “Policy Analyses and Research of Current Issues Related to Cyber Security”. The audience included approximately 55 individuals from DOE/NNSA, NRC, Academia and other Foreign and USG organizations. The Annual Chapter Membership Meeting will be held at 6:00 PM on 15 July 2015 during the 56th Annual INMM Meeting in Indian Wells, CA. The meeting will convene in one of the ad hoc meeting rooms to be announced at a later date. The meeting location will be posted near the INMM Meeting registration desk.

The Northeast and Southwest Chapters will sponsor a social event in the Canberra Hospitality Suite on Wednesday, 15 July at 7:00 – 10:00 PM. The location of the hospitality suite will be posted near the INMM registration desk.

The Chapter continues planning for these upcoming events:

- A VA Tools Workshop is anticipated to be conducted on 14-16 September 2015 in Boston, MA. The NE Chapter will be supporting the Nuclear Security and Physical Protection Technical Division for this workshop. NRC Commissioner William C. Ostendorff is expected to be one of the keynote speakers. There is an increasing interest by government and industry to take advantage of computer tools to support regulation, training,
and management. This interest is expanding into nuclear security, as well as other elements of critical infrastructure security. There is always a desire to have a tool that does everything. However, the ultimate tool rarely exists. The workshop participants will have the opportunity to leverage what has been learned in the worlds of safety and commercial simulation. They will learn of the evolution of vulnerability assessment tools used in nuclear security. This workshop will help the nuclear industry and government regulators to better understand what the tools can do and how they might be used in a regulatory environment. The workshop will also benefit the vendor/developer community by providing a better understanding of the needs of their customers and what level of understanding is sufficient to meet the requirements of regulators.

- A joint ANS/INMM event is scheduled to be held at Annapolis, MD on 17-20 April 2016. Several planning meetings have been held recently that included representatives from the NE Chapter, as well as other participants from INMM Leadership, the INMM Northeast Chapter, the Washington DC American Nuclear Society (ANS) Section, the US Naval Academy, and George Washington University’s Elliott School of International Affairs. The primary purpose of these meetings has been to develop a preliminary agenda, identify organizational roles and responsibilities, and prepare an initial budget, which has been submitted to the INMM EC for approval. The ANS representative is estimated the attendance to be on the order of 250, which is the maximum capacity of Rickover Hall at the US Naval Academy where the technical program will be conducted. The Northeast Chapter is expected to support the meeting by actively participating with the Organizing Committee and assist ANS with registration and financial management, outreach, and mass mailings. The Chapter will also take responsibility for two of the Technical Sessions that focus on the following areas: Nuclear Nonproliferation, Nuclear Safeguards and/or Nuclear/Cyber Security. Joe Rivers will represent INMM on their Technical Program Committee. The Elliott School of International Affairs is expected to support the meeting in the area of nuclear policy. The INMM Executive Committee, Division Chairs, and selected Committee Chairs have been invited to meet with the Technical Program Committee Co-Chairs during the EC Meeting Lunch break on 11 July 2015 in one of the ad hoc meeting rooms to be announced at a later date. The location for this meeting will be posted near the INMM registration desk.
Southwest Chapter
Markku Koskelo, President

The FY15 Executive Committee of the Southwest Regional Chapter is as follows:

President: Markku Koskelo, Aquila Technologies
Vice President: Adam Hecht, University of New Mexico
Secretary: Arnika Chidambaram, University of New Mexico
Treasurer: Rian Bahran, Los Alamos National Laboratory
Members at Large: Galya Balatsky, Los Alamos National Laboratory; Alexis Kaplan, Los Alamos National Laboratory; Chantell Murphy, Los Alamos National Laboratory; Claudio Gariazzo, Texas A&M University
Communications: Scott Kraus, Aquila Technologies
Student Liaison: Keith Tolk, Milagro Consulting
Past President: Felicia Durán, Sandia National Laboratories

Activities this Fiscal Year:

1. The SW Chapter held its first Executive Committee meeting of this fiscal year on October 31, 2014, at the offices of Aquila Technologies in Albuquerque. The Committee reviewed the SW Chapter activities from the past year and discussed plans for 2015, including our Annual Winter Dinner Meeting, January 2015.

2. The Southwest Regional Chapter participated in a joint dinner meeting with the American Nuclear Society’s Trinity Section on November 7th, 2014, at the Santa Fe Marriott Courtyard. The talk was about Proliferation Potential and Safeguards at Gas Centrifuge Enrichment Plants by Dr. Brian D. Boyer of Los Alamos National Laboratory.

3. The SW Chapter held its Annual Winter Dinner Meeting at the Lodge in Santa Fe on January 9th, 2015. Our Speaker was Dr. Pete Lyons, currently the DOE Assistant Secretary for Nuclear Energy (NE). 63 attended the dinner.

4. On January 29th, 2015, INMM Southwest Chapter EC Member-at-Large, Claudio Gariazzo, provided a guest lecture on the International Safeguards System and the Nonproliferation Regime to the local INMM Student chapter of the Pandit Deendayal Petroleum University (PDPU). Students from both the Nuclear Engineering Department and the PDPU School of Political Science were in attendance and engaged Gariazzo in light of the very recent US-India Nuclear Deal agreed upon earlier that same week between US president Barack Obama and Indian Prime Minister Narendra Modi.

5. The 17th annual Taos Technical Exchange, that the SW Chapter organizes every year, was held on May 20th. The attendance was 47 of which more than half were students.

6. The University of New Mexico student chapter officers for the academic year 2015-2016 effective August 1, 2015 are: President: Jenny Smith (jsmith314@unm.edu), Vice-President: Justin Davis (davisj@unm.edu), Secretary: Arnika Chidambaram (achidamb@unm.edu), and Treasurer: Corey Skinner (skinnerc@unm.edu).

7. The Texas A&M student chapter officers for the academic year 2015-2016 are: President: Manit Shah (manitshahd@gmail.com), Vice-President: Timothy Jacomb-Hood (jacombhood@gmail.com), Sec.: Jose Trevino (j.f.trevino361@tamu.edu), Treasurer: Meyappan Subbaiah (meysubb@gmail.com), Bush School Liaison: Steven Horowitz (horowitzsm@tamu.edu), Webmaster: Robert Zedric (r.zedric@gmail.com).
Officers and Executive Committee Members
(as of end of May 2015)

President: Takahiko Ito
Vice President: Kenji Murakami
Secretary: Takeshi Osabe
Treasurer: Kazutomo Taniguchi
Members-at-Large: Tomonori Iwamoto
Takuya Ito
Tomohiko Kita
Tetsuzo Oda
Masao Senzaki
Masaki Saito

Executive Committee Meetings
The Chapter’s Executive Committee Meetings were held every three month intervals.

In particular, following topics were discussed and resolved at the meeting:
• Annual Meeting Program Committee Report
• Planning Committee Report
• FY2014 business report and financial statement
• FY2015 business plan/financial budget
• The 35th Annual Meeting Program
• Appointment of the 36th annual meeting program committee chair and vice-chair
• Japan Chapter’s 36th Annual Meeting Schedule
• Editorial policy on Chapter’s Nuclear Materials Management Bulletin-5th edition
• Themes for FY 2015 workshop of Japan Chapter
• Amendment of Japan Chapter’s Bylaws

Annual Business Meeting
FY2015 annual business meeting was held on November 27, 2014 in conjunction with the 35th annual meeting of Japan Chapter. The FY2014 business report/financial statement and FY2015 business plan/financial budget were approved at the meeting.

Annual Meeting
The 35th Annual Meeting of INMM Japan Chapter was held in Rokkasyo, Aomori, during 27-28 November 2014. Following two invited lectures were given at the plenary meeting:
• Nonproliferation and nuclear security challenges for post Fukushima Japan. Yasunobu Abe, Vice Chair, Japan Atomic Energy Commission
• Acceptance of IPPAS Mission in Japan’s Hiratake. Yamaguchi, Director of Nuclear Regulatory Authority

In addition, 26 technical papers were presented in first day and plant observation tour at Japan Nuclear Fuel Limited Facilities was carried out in second day. Total of 95 persons were participated in.

The 36th Annual Meeting of Japan Chapter will be held in Tokyo during October 15-16, 2015. The 36th annual meeting will focus on encouragement university student participation to the meeting including special poster session and organize career fair, etc. We anticipated more than 30 technical papers presentation and more than 100 attendees. The detail program will available late August 2015.

Japan Chapter’s Workshop/Seminar
Following workshops/seminars were held during period covered this report:
• Introduction of Recent International Trends on Nuclear Security
  a. Summary Report of 2014 Nuclear Industry Summit in Amsterdam, Takeshi Inoue, JAEA
  b. Summary Report of Training Course on Countermeasure for Insider Threat, Reina Matsuzawa, JAEA
• Possibility on Industrial Application of Multi-Copter (Drone) and Challenges in Nuclear Security. Kenzo Nonami, Professor, Graduate School of Engineering, Chiba

In addition, workshop on “Assessment of 2015 NPT Review Conference and Future Prospects of Nuclear Policy in the United States” will be held 19 June, 2015 in Tokyo
Japan Chapter

Issuance of Nuclear Materials Management Bulletin

The 5th edition of Nuclear Materials Management Bulletin will be published in July, 2015 focusing around “Trend on Nuclear Security Culture both domestically and abroad”.

Membership Status as of the end of the May 2015

- Regular membership: 133
- Student membership: 4
- *Sustaining membership: 25 organizations

Those with* are relevant only to Japan Chapter

Korean Chapter

Dohee Hahn, President

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: Ho-Dong Kim, et al.

The balance in the Korea Chapter’s account is KRW 9,842,018 as of June 15, 2015. Membership dues amounting to USD 3,600 were wire-transferred to the Headquarters on February 6, 2015.

The Korea Chapter comprises 60 regular members as of June 15, 2015.

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

1. The 18th Annual Meeting was held on November 13, 2014, at the Interciti Hotel, Daejeon, Korea, with the theme “Meeting Nonproliferation Challenges in Spent Fuel Management.” Approximately 110 people attended the meeting, and 20 papers were presented in both oral and poster formats, enabling experts to share their knowledge with others. Given that public debates were ongoing on how to manage spent fuel in Korea (indeed, the Public Engagement Commission on Spent Nuclear Fuel Management (PECOS) was scheduled to present recommendations to the government by the end of June 2015) and as the disposal facility in Gyeongju for low- and intermediate-level radioactive wastes was scheduled to open by the end of 2014, the theme attracted much interest from the participants. The meeting itself was divided into two sessions: in the first—chaired by Prof. Man-Sung Yim from the Korea Advanced Institute of Science and Technology (KAIST)—the presenters talked about safeguards and security considerations in spent fuel management, while more detailed scientific and technical issues and solutions were discussed in the second—chaired by Dr. Seong-Won Park, Former Senior Vice President of the Korea Atomic Energy Research Institute (KAERI). Four special speakers from abroad were invited: Prof. Sunil S. Chirayath (Visiting Assistant Professor of Texas A&M University), Mr. Tapani Honkamaa (Senior Inspector and Project Manager, the Radiation and Nuclear Safety Authority (STUK)), Dr. Masahiro Kikuchi (Former Executive Director of the Nuclear Material Control Center (NMCC)), and Mr. Ken Sorenson (Immediate-past President of the Institute of Nuclear Materials Management (INMM) and the Manager of Sandia National Laboratory (SNL)). The Korea Chapter had scheduled this meeting to take advantage of another international conference being held on the same week from November 9 to 12 in Jeju called “Asian Nuclear Prospects” (ANUP). Some, if not all, of the participants from abroad took advantage of this opportunity, by participating in the conference as well, as the session topics were spent fuel and radioactive waste management, including for fast reactors. The 19th Annual Meeting of the Korea Chapter will be held in Seoul in November 2015.
2. Our efforts toward setting up a new Chapter website (http://www.inmm-kc.or.kr) continued in this fiscal. Recognizing the need for a website to provide a platform for sharing resources accumulated during the past 17 years, we hope that with time and effort devoted to its development, this website will encourage communication among members. In particular, the English-language version of the Chapter website is expected to serve as a bridge between Korean and non-Korean members so that they have a better understanding of each other’s nonproliferation cultures.

3. During the first quarter of 2015, we solely focused on taking legal actions to make the Korea Chapter an “incorporated association,” in which we succeeded. As of May 1, 2015, the Chapter is now eligible to apply for both governmental and non-governmental research funds. It can also undertake joint research with other Korean entities. Being the nation’s only society for experts and professionals in the field of nuclear nonproliferation and material control, we hope to contribute to more to the community.

4. The Korea Chapter will present 18 papers at the upcoming 56th INMM Annual Meeting.
This report covers January 2015 to May 2015. Officers of the Chapter are given at the end.

2015 INMM Kick-off Meeting

On January 29th, the Vienna Chapter held the 2015 INMM Kick-Off Meeting. We solicited more event ideas for 2015 from members and also reviewed the activities that we have planned for 2015 including:

- Producing a dedicated ‘Journal of Nuclear Materials Management’ issue on IAEA Safeguards.
- The Annual Science and Engineering Fair. This year taking place on International Pi (π) Day 3-14-15! http://inmmvienna.org/ScienceFair/2015/
- Lunchtime Seminars featuring guest speakers.
- A viewing of “Pandora’s Box” at the VIC Auditorium.
- And other events such as dinner meetings, to socialize with other professionals in nuclear materials management.

Science and Engineering Fair: Judges Briefing Meeting

On March 11th, the volunteer judges for the Science and Engineering fair gathered at Feuerwehr Wagner Heuriger to organize and obtain the necessary information and instructions to carry out their judging responsibilities. We had a great turn out this year for volunteer judges, totalling 42 judges. It was also an opportunity for INMM members and colleagues to socialize.

INMM Science and Engineering Fair: International Pi Day

March 14th- or 3/14/15, INMM held the 2015 Science and Engineering fair. This year the theme of the Science Fair was the mathematical constant “Pi”, celebrating the countless contributions of calculations. At approximately 9:26a.m, INMM served pies in honour of pi day to the students, judges and viewers.

Over 130 students from 11 international school participated. Projects were submitted in a variety of categories for Junior and Senior levels (participants come from grades 6 through 12), including Human Behaviour; Health and Life Sciences; Machines and Technology; and Computer, Space and Environmental Sciences. Projects are awarded ribbons during the Fair by technical professionals, many of which are INMM members. At lunchtime, the students were able to watch “Pandora’s Box,” while the judges made their assessments.
Science and Engineering Fair Awards Banquet

On March 19th, an Awards Banquet was held, following the Fair, where dinner was provided to the participants, and recipients of awards are recognized and honoured. Awards are given in both Junior and Senior levels for individuals and teams in ‘Best of Category’ and ‘Best Overall Project’. This year the best overall junior individual project went to Tiberius Popescu for a project entitled “Proving Snell’s Law.”.

Officers of the INMM Vienna Chapter

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>President</td>
<td>Carrie Mathews</td>
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<tr>
<td>Secretary</td>
<td>Elisa Bonner</td>
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<td>Vice-President</td>
<td>Thomas Jeffrey</td>
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<td>Treasurer</td>
<td>Fabian Rorif</td>
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<tr>
<td>1st Member at Large</td>
<td>Ana Raffo-Caiado</td>
</tr>
<tr>
<td>2nd Member at Large</td>
<td>Sebastian Richet</td>
</tr>
</tbody>
</table>

Tiberius Popescu (left), Bernard Weiss and Carrie Mathews present awards (right)

Projects displayed at the Vienna International School (top), Judges deliberation (bottom)
The 2015 INMM Vienna Chapter International Science & Engineering Fair

Every year, the Institute of Nuclear Materials Management (INMM) Vienna Chapter holds a Science and Engineering Fair for students of nearby international schools.

The theme of this year’s Fair, held on 3.14.15 (14 March 2015), was ‘International Pi Day: Celebrating the countless contributions of calculations’. Next year’s Fair will be held at the Lycée Français de Vienne in March/April 2016.

Over 130 students from 11 International Schools participated from the Amadeus International School, the American International School in Vienna, the American College of Sofia, the British International School of Bratislava, the Danube International School, the Lycée Français de Vienne, the International Christian School of Vienna, International School of Brno, the QSI International School of Bratislava, the Riverside International School of Prague and the Vienna International School. The Vienna International School graciously hosted both the Science & Engineering Fair and the Awards Banquet.

Scientific and engineering professionals volunteer their time as judges to review each and every project, interview the students, and ultimately make the very difficult choices of those projects deserving of an award. The students are grateful for the technical expertise of the judges and the interesting questions they ask and discussions they have during the Fair.

Projects are submitted in a variety of categories for Junior and Senior levels (participants come from grades 6 through 12), including Human Behaviour; Health and Life Sciences; Machines and Technology; and Computer, Space and Environmental Sciences. Projects are awarded ribbons during the Fair.

An Awards Banquet is held one evening of the week following the Fair, where dinner is provided to the participants and recipients of awards are recognized and honoured. Awards are given in both Junior and Senior levels for individuals and teams in ‘Best of Category’ and ‘Best Overall Project’. This year the best overall junior individual project went to Tiberius Popescu for a project entitled “Proving Snell’s Law”.

Exhibitors provide essential funding for awards and the banquet, and also display their organization’s materials and answer questions, giving the participants a sense of how technology, science and engineering are applied in real life companies. This year, the European Patent Office, the Organization of Petroleum Exporting Countries, and Canberra Packard participated as Exhibitors. Additional exhibitors and sponsors are needed for future Fairs – if you know of a company that may be interested, please contact the Fair committee.

Photos and more information is on the Vienna Chapter Website: www.inmmvienna.org
We have continued to grow participation with new members from different departments on campus and discuss visibility on campus. Due to different attendance numbers with meetings, we continue with the model of one business meeting and one executive meeting a month, unless there is a planned event which requires more coordination. Current group members are from Nuclear Engineering, Chemistry, International Affairs, and Mechanical Engineering.

Current Officers:
President – Erin Gawron  gawrone@gatech.edu
Past President – Jessica Paul  jpaul9@gatech.edu
Vice President – Spencer Mickum  gmickum3@gatech.edu
Treasurer – Allison Harbottle  aharbottle3@gatech.edu
Secretary – Caroline Hoyt  choyt3@gatech.edu
Member-At-Large – Martin Zavala  martin.zavala@gatech.edu

Meetings Summary:
Aug 27, 2014 – Executive Committee
EC met to discuss: future semester meeting times, possible speakers, social events, and upcoming tour of NRC Region II office. Also finalized reimbursements from the Annual Meeting and discussed date for upcoming chapter elections.

Sep 3, 2014 – Business Meeting
Discussed benefits of joining/renewing INMM, outlined NRC Region II tour details (Thank you to Michelle Romano!), gathered suggestions for speakers for the Spring, and reviewed the Annual Meeting highlights for those who could not attend. The president also advertised various fellowship and summer opportunities for both graduate and undergraduate students.

Oct 7, 2014 – Executive Committee
Discussed the upcoming election process, gather information on interest in the NRC tour.

Oct 15, 2014 – Business Meeting
Elections took place at this meeting (see current officers below). Also, discussed benefits of joining/renewing INMM, discussed date change and details of NRC Region II tour on Oct 17, and joining UT chapter for the Central Region Chapter meeting in Oak Ridge. Discussed details of upcoming speaker, Dr. Jennifer Steeb on Oct 21.

Oct 22, 2014 – Executive Committee
Transfer of leadership roles. Outgoing officers worked with incoming officers on explaining new duties, setting up JacketPages, etc. Advisor: Dr. Chaitanya Deo. Discussed details for upcoming event on Dec 5 for Fat Man & Little Boy, any big “kick off” event for the Spring semester.

Nov 5, 2014 – Executive Committee
Review of Erin and Allison meeting with UT chapter, update from Erin and Allison on the Central Region chapter meeting, discussed Fat Man & Little Boy event in Dec, discussed ideas for future chapter meetings.

Nov 11, 2014 - Business Meeting
Details of Fat Man& Little Boy event finalized. Possible speakers discussed from ORNL. Next semester business and executive meetings 1 per month. Book Club- “The Girls of Atomic City” by Denise Kiernan picked. Social events discussed such as curling and trivia.

Jan 8, 2015 – Executive Committee
Decided on meeting times for the semester. New format: one formal business meeting, one formal executive committee meeting, one professional or social event per month. Discussed possible first guest speaker Dr. Carter Hull or speaker from industry. Discussed important upcoming due dates for Annual Meeting abstracts and fellowship applications, national EC meeting details, and social events. Discussed possible starting up of a book club and a Learn to Curl event.

Jan 20, 2015 – Business Meeting

Jan 28, 2015 – Executive Meeting
Made calendar of events, important dates for Spring 2015. Discussed outreach/fundraiser ideas: MCNP workshop, Univ of Tenn – Georgia Tech joint event, Foundation Grant from SAA for teacher workshop.
February 9, 2015 – Business Meeting
Discussed recent events: curling & The Man Who Saved the World. Discussed possible speakers and specific dates for speakers, and fundraisers. Also, discussed reflections on the past Annual Meeting in July, as well as upcoming Book Club and Security Journal Club invitation. Spencer may also attend Central Region Chapter meeting.

February 27, 2015 – Executive Meeting
Discussed upcoming meeting and important dates for scholarships and opportunities to disseminate to members. Invited WiC (women in Chemistry) to participate in “Girls of the Atomic City” discussion. Continued exchanging times with UT for a research exchange.

March 2, 2015 – Business Meeting
INMM member presented current research. Continuing discussion of research exchange with UT. INMM can take over security journal club. Also disseminate announcements about upcoming scholarships and opportunities in the nuclear community.

April 1, 2015 – Executive Meeting
Discussed different fundraisers, announcements for fellowships. Times to invited Dr. Carter Hull to come and speak. Put together a trivia event for the coming month at nearby restaurant.

April 6, 2015 – Business Meeting
Low meeting attendance, took opportunity to brainstorm how to increase attendance. Emailed Amanda Sayre to ask for tips and advice on ideas for increasing visibility.

April 15, 2015 – Executive Meeting
Put together questions and structure for the Iran discussion event the next week. Provide food and also interactive discussion format for April 20th Iran discussion event. Talked about dates for visiting SRNL and research exchange with UT. Also streamlining emailing process with mail chimp.

May 6, 2015 – Executive Meeting
Conference called with Amanda Sayre about fundraising and raising on-campus presence of INMM. Summer events chose dates to visit SRNL and a University of Tennessee visit. Discussed ways to be more visible on campus, including hosting an event for the incoming NRE students and hosting multiple speakers in the fall. Also co-sponsor event, i.e. 3K at Annual Meeting.

Events:
October 17, 2014 – NRC Region II tour given by Michelle Romano
Chapter was able to tour the incident response center and view live data from power plants. Michelle and Jose Diaz gave a demonstration of incident analysis software and discussed career opportunities with the NRC.

October 21, 2014 – Dr. Jennifer Steeb in conjunction with Dr. Jiri Janata’s class
Dr. Steeb gave an outline of nuclear forensics work being done at Argonne National Laboratory and what a safeguards career entails. Her job description includes: Analytical chemist with experience working with radioactive materials at Argonne National Laboratory. Proficient in radionuclide extraction chromatography, gas pressurized extraction chromatography (GPEC), thermal ionization mass spectrometry (TIMS), inductively coupled plasma mass spectrometry (ICP-MS), reverse-isotope-dilution mass spectrometry, scanning electron microscopy (SEM), electron dispersive spectroscopy (EDS), X-ray fluorescence spectrometry (XRF), atomic force microscopy (AFM), and scanning tunneling microscopy (STM). Experienced in electrochemistry, cyclic voltammetry, potentiometry, and microelectrodes.

October 27, 2014 – Outing with UT chapter
Erin and Allison were in Knoxville to attend the Radiobioassay and Radiochemical Measurements Conference. They were able to attend a social outing with members for the University of Tennessee chapter.

October 28, 2014 – CRC meeting at Y-12
Erin and Allison were also able to attend the Central Region Chapter Fall Meeting held at the Y-12 New Hope Visitor Center. Members of the University of Tennessee and Purdue University chapters were also in attendance and gave presentations on their research.
Oct 27-31 – Two members went to RRMC
Erin and Allison were able to attend the Radiobioassay and Radiochemical Measurements Conference in Knoxville, TN. Allison presented on her candidacy exam work on Alpha emitters for brachytherapy.

Dec 5, 2014 – Movie: Fat Man & Little Boy in conjunction with Dr. Janata’s class & ANS Chapter
Movie was viewed as a wrap-up to Dr. Janata’s radiochemistry course and was sponsored by INMM & ANS with students from all groups in attendance. Refreshments were provided.

Jan 30, 2015 – Curling
Erin is a member of the Atlanta Curling Club and invited members of INMM to a Learn to Curl class.

This event was a simultaneous viewing of the movie on campuses across the country. Over 100 people from campus were in attendance. Our chapter co-sponsored this event with the ANS chapter and the Georgia Tech Energy Club. Dr. Adam Stulberg (from School of International Affairs) gave an opening talk on the Cold War era, and the movie was followed up with a panel discussion and Q&A session from Liz Dallas and Phil Baxter. Dinner was also catered.

April 25, 2015- Iran Discussion Event
This event was co-hosted with International Affairs and Nuclear and Radiological Engineering. The discussion followed the Iran Nuclear Talks. Iran Primer, a state report, was used as a guide. Pizza and drinks were provided, and there was strong attendance and active participation for this event. A current INMM member with an affiliation to a person involved in the Iran discussions was able to offer an interesting perspective on the negotiations around Arak reactor. A professor, Dr. Phil Baxter with the International Affairs, Science, and Technology department helped guide the discussion.

Respectfully submitted,

Erin L. Gawron, president
gawrone@gatech.edu

Caroline Hoyt, secretary
choyt3@gatech.edu
This past May marks the closing of an eventful year for the Idaho State University INMM student chapter. We planned many events including a cooperative event with the Idaho State University ANS student chapter. We have also passed the torch on to a new Executive Board, and we will aid them in whatever way we can to make a long-lasting impact on the students and community of Idaho State University.

2014-2015 Executive Board

President: John Mulvaney
Vice President: Rita Hoggan
Treasurer: Gerrit Bruhaug
Secretary: Brian Anderson
University of Idaho Rep: Lei Tu, Marvin Fielding

2015-2016 Executive Board

President: Maxwell Daniels
danimaxw@isu.edu
Vice President: Harish Aryal
aryahari@isu.edu
Treasurer: Gerrit Bruhaug
bruhgerr@isu.edu
Secretaries: Paul Pierson
pierpau2@isu.edu
University of Idaho Rep: Marvin Fielding
fiel5836@vandals.uidaho.edu

Executive Board Meetings-Event Planning

September 10, 2014 and January 22, 2015

During this first officers meeting we discussed national dues and encouraged all officers to apply for this membership. We then discussed what membership fees should be for the chapter, we settled on $5. Then the event planning began: with speakers from INL being sought for our meetings, a partnered tour with the Health Physics Society of an INL facility, a pool night at the university game center to foster camaraderie amongst our new membership, and a table set-up for passing candy out to children as part of Idaho State Universities Bootacular Halloween event. A possible fundraising activity was discussed to show The Man Who Saved the World to the public and have the chapter run a concessions stand to benefit sending students to the INMM 56th Annual Meeting.

Every officer played a critical role in making each of these events a reality.

April 29, 2015

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. We then discussed the Annual Meeting to take place on July 12, 2015 in Indian Wells, CA. INMM will supply funding for the President of our chapter, and another graduate student will be able to attend on funding provided through research.

Chapter Meetings

September 18, 2014

During this meeting we discussed the future speakers for the chapter meetings including INL employees. We were able to discuss ideas for a movie screening as well as what would occur at the Bootacular event including what types of treats we would serve and who would help serve them. A safeguards game that could potentially be played with University of Washington was brought up as a point of interest. The Nuclear Science Expo was a very large event that would take the greatest amount of volunteer work.

November 11, 2015

During this meeting Tony Riley gave a presentation on what safeguards are and where they fit into the nuclear industry. The chapter social event was explored and the status of the trip to PNNL was discussed.

January 22, 2015

During this meeting we discussed the future speakers for the chapter meetings. We were able to discuss the movie idea further selecting a location on the universities Pocatello campus and making sure that proper marketing was done to increase interest in the showing. After the movie plans ranged from having speakers to simply speaking ourselves about missile control and the overall message of the film. Issues arose with the PNNL tour and a mutually agreeable time couldn’t be found for this academic year.
Activites

Oct. 21, 2014 – Idaho State University 1st Annual Nuclear Science Expo
• This expo had a great turn-out from our club as well as the community.
• Partnering with the American Nuclear Society yielded huge exposure for our chapter.
• The university was very supportive by providing food for attendees as well as speakers.
• INL provided prizes, funds, and speakers Catherine Riddle and Samuel Bays who were both instrumental in the success of this event.
• Estimated attendance of 500 people including 200 high-school teens who were able to attend with cooperation from local high-schools

• Nationally the film was being shown on this date.
• Idaho State Journal (a local newspaper) ran an article promoting the event and our chapter.
• The event drew in roughly 50 individuals including students, faculty, and community members.

March 20, 2015 – In-elastic Scattering (Pool)
• This was a fun bonding event for members of the club.
• New members were encouraged to come to learn more about INMM and its members.

Annual Meeting Statistics

| Students at INMM Annual Meeting |
|-------------------------------|-----------------|-----------------|
| Total # of Students at the Annual Meeting | # of students that paid for themselves | # of students the school paid for |
| 1 | 0 | 0 |

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<th># of students supported by other sponsors</th>
<th>Other Sponsors Names</th>
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<td>1</td>
<td>INMM (Student Officer Reimbursement)</td>
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Respectfully,

Paul Pierson
Secretary
INMM-ISU Student Chapter
pierpau2@isu.edu

Maxwell Daniels
President
INMM-ISU Student Chapter
danimaxw@isu.edu
Elections
Following the new elections new by laws, elections were held on 16 October, at which a new President, Vise President and 6 members were elected by students of nuclear engineering department.

The Treasurer and Secretary stays for more one year (as the Laws admit).

All due processes were followed for the election, which was successfully completed under the supervision of the faculty advisor of the chapter Dr Salah Malkawi

President: Kamal Harahsha (kamaljust93@gmail.com)
Vise President: Mohammad Mustafa (mohammad.ajm@gmail.com)
Treasurer and Secretary:
Treasurer: Laith Zeidan (leith_zeidan@live.com)
Secretary: Saed Momani (Saed1992mo@hotmail.com)

Members:
Zeinab Smadi (zeinabsmadi93@gmail.com)
Heba Al-khadri (eng.hiba.yaseen@outlook.com)
Qusai Massadeh (qussai_1994@yahoo.com)
Roa’a Wardat (roaadwardat@gmail.com)
Heba Johainy (heba.aljhani@yahoo.com)
Mutaz Marji (mutazmarji@yahoo.com)

Nuclear Day – 12 December
We organized a nuclear day in the Jordanian capital, Amman, to talk about the nuclear engineering as well as safety and security of nuclear reactors. Also we talked about INMM, how to register at the institute, and what are the benefits a student can get by being an INMM member.

Charmin of the Jordan atomic energy commission Dr Khaled Touqan and the Jordanian information minister Dr Mohammad Al momani attended the nuclear day, and listening from the member about the INMM and our chapter in Jordan.

A lot of jordanian people also attend to this day, and we talk to them about jordanian nuclear program, and to be accepted this program.

Presentation about Jordanian nuclear program
Dr Yusri Abu Shadi — the former head of the nuclear engineering department at the University of Alexandria, Egypt, — visited JUST to give lecture under title “Is nuclear energy the solution for the energy crisis in the Arabic world?”

At the first we introduce about INMM, then the Dr Yusri Abu Shadi talk about the nuclear engineering in Jordan and it’s program, and encourage audience to believe in nuclear engineering.

Visit to JRTR
We have organized a student trip to Jordanian Research and Training Reactor (JRTR). 70 student participants were divided into two groups. The JRTR was built for training nuclear engineering students, producing isotopes
to be used in medicine, and conducting nuclear-related research. A presentation was conducted by Dr. Kalifah Abu-Saleem, the commissioner of the JRTR at Jordan Atomic Energy Commission, the presentation discussed the JRTR characteristics, plans, and percentage completion of the project. We have toured the JRTR’s construction site and took a picture at it.

Nuclear engineering student LUNCH

An opening lunch took place at the nuclear engineering department at JUST. This lunch was meant to be a starting point for our newly elected INMM chapter and to create a meeting for brainstorming ideas and plans for future activities.
The following is a chronology of events at Mercyhurst University’s Tom Ridge School of Intelligence Studies and Information Science from September 2014 until June 2015.

Chapter Meeting #1
Opening Meeting
29 September 2014
Students interested in re-establishing a Mercyhurst chapter of the Institute of Nuclear Materials Management were invited to attend an opening meeting on Monday, Sept. 29. The meeting was organized by Instructor William Welch, faculty advisor to the Mercyhurst chapter.

Chapter Meeting #2
Presentation on the Iranian nuclear development program and chapter elections
20 October 2014
Mercyhurst student Sean Crowley gave a presentation on the nuclear development program in Iran and the issues surrounding it. Chapter officer elections were held following the presentation. Officers for the 2014-2015 year were as follows:
President – Geoff Paschke
Vice-President – Michael Vinopal
Secretary/Treasurer – Erica Arnold

Chapter Meeting #3
Discussion on the Institute of Nuclear Materials Management and opportunities for students
29 January 2015
Discussion of what the Institute of Nuclear Materials Management is and the opportunities it can provide. Upcoming events within INMM were also discussed.

Chapter Meeting #4
Presentation on the Human Element of Nuclear Security
12 February 2015
Mercyhurst seniors Geoff Paschke, Michael Vinopal, and Erica Arnold presented on the human element of nuclear security on a nation-by-nation basis. Particular nations of concern included Nigeria, Saudi Arabia, Pakistan, and India.

Chapter Meeting #5
Presentation of documentary film “Countdown to Zero”
5 March 2015
The chapter met to view the documentary Countdown to Zero which “traces the history of the atomic bomb from its origins to the present state of global affairs: nine nations possess nuclear weapons capabilities with others racing to join them, with the world held in a delicate balance that could be shattered by an act of terrorism, failed diplomacy, or a simple accident.”- IMBD. Following the film, Faculty Advisor Welch reiterated the importance of the fields of nonproliferation and nuclear security.

Chapter Meeting #6
Presentation on Russian foreign nuclear policy and chapter elections
26 March 2015
Chapter member Joseph Rieger presented on Russia’s foreign nuclear policies. “As Russia-US relations deteriorate potential to a place of no return, it is important to note that there are no new bilateral agreements with Russia in regards to their nuclear program. Ultimately resulting in decreasing cooperation in safe nuclear development and inspection of Russia’s nuclear facilities. If bilateral agreements cease with the US it is important to understand Russia’s ‘sphere of influence’ in nations developing nuclear programs.”

Following his presentation, the Mercyhurst chapter held officer elections for the 2015-2016 school year. The results are as follows:
President – Steven Luber
Vice-President – Alison Ockasi
Secretary – Kerri Williams
Treasurer – Madeline Riley

Chapter Meeting #7
Presentation by Mr. Lance English, Nuclear Regulatory Commission (NRC)
4/23/15
Mercyhurst’s INMM chapter was honored to host Mr. Lance English of the Nuclear Regulatory Commission (NRC). He provided an overview of the role and functions of the NRC, with a particular focus on the role of intelligence in safeguarding nuclear material and power plants. Following his presentation, Mr. English met with Mercyhurst students to discuss career opportunities with the NRC.
Mercyhurst University Student Chapter (cont.)

56th Annual INMM National Meeting
The Mercyhurst INMM student chapter will be represented by Ms. Madeline Riley, chapter Treasurer.

Tentative Plans for the 2015-2016 School Year
Continue to grow the Mercyhurst chapter
Increase cooperation with other Mercyhurst student organizations, including the Cyber Threat Research and Analysis Club (CTRAC) and National Security Club (NSC)
Host more guest speakers from the nonproliferation and intelligence community, including joint events hosted with CTRAC and NSC

Respectfully,

Steven Luber
2015-2016 President
INMM Mercyhurst Chapter
Sluber60@lakers.mercyhurst.edu

Alison Ockasi
2015-2016 Vice-President
INMM Mercyhurst Chapter
Aockas04@lakers.mercyhurst.edu

Kerri Williams
2015-2016 Secretary
INMM Mercyhurst Chapter
Kwilli37@lakers.mercyhurst.edu

Madeline Riley
2015-2016 Treasurer
INMM Mercyhurst Chapter
Mriley33@lakers.mercyhurst.edu

William Welch
Faculty Advisor
INMM Mercyhurst Chapter
wwelch@mercyhurst.edu

Students at INMM Annual Meeting

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<td>INMM</td>
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The following is a summary of the activities held by the Pennsylvania State INMM Student chapter for the 2014-2015 academic year. Penn State INMM (hereafter referred to as PSU-INMM) has maintained its student membership numbers and continues to be a solid and sustainable club moving into the new academic year.

Summary of Events:

**General Meeting**
*September 10th, 2014*

Our first meeting of the 2014-2015 academic year was held on September 10, 2014. Following a continued rigorous recruitment campaign during the first month of the semester, PSU-INMM maintained the student growth experienced in the previous years. Avenues taken to increase membership included emails sent through different organization lists, speaking at Penn State’s ANS meeting which draws a very high number of undergrad nuclear engineering majors, and participating in welcome week activities to inform freshman engineers of clubs they may want to join in the future. At the first meeting officers introduced themselves and an overview of the PSU INMM website and the INMM National website were given. PSU-INMM emphasized in the first meeting the many benefits of joining the national chapter and encouraged everyone to become a national member. In addition to this registration drive, PSU-INMM discussed INMM’s mission statement and began planning events for the upcoming year. PSU-INMM strongly encouraged all students to become involved, particularly newer, younger students. President, Vice-President and Treasurer were elected at the end of last academic year and at this meeting a new secretary was elected since that position was not filled last year.

**Presentation by Stephen Mladineo (NNSA)**
*October 7th, 2014*

Mr. Mladineo visited PSU-INMM to give a talk on Analysis of the 3S (Safety-Security-Safeguards) Concept as well as the NNSA Graduate Fellowship Program. Three Penn State students, Kyle Hartig, Jessica McNutt and Sarah Bender, have participated in the NNSA fellowship program. Student participation was very high with over 80% of the chapter members attending. Mr. Mladineo’s presentation was very well received and it helped PSU-INMM new members understand the differences and importance of 3S culture.

**Presentation by Paul Ebel**
*October 28th, 2014*

INMM fellow Paul Ebel visited Penn State to present on Security Culture and Identification Techniques. Students were able to learn about the importance of physical security and security culture from Mr. Ebel’s experiences throughout the world in various types of facilities. Mr. Ebel also took the time to reinforce the importance of joining the INMM for all of our new students in attendance.

**INMM Communicator Article**

PSU-INMM was featured in the January 2015 issue of the INMM Communicator. The article highlighted the success of some of the individual students in the club and the overall success of the club as a whole. It was exciting to be recognized at the national level of INMM.

**INMM Social**
*November 13th, 2014*

Members of PSU-INMM attended a NGSI Nonproliferation Workshop at Oak Ridge National Laboratory along with students from Texas A&M University and Massachusetts Institute of Technology. After a day of lectures and exercises the students attending this workshop then met with the Tennessee University INMM student chapter for dinner. This was a great opportunity to meet with many other students from different universities and discuss INMM events and compare school activities.

**INMM General Body Meeting**
*January 22nd, 2015*

The first meeting of the Spring Semester was held on January 22nd. At this meeting plans for the semester were discussed. PSU-INMM has planned a trip to Brookhaven...
National Laboratory for March 30th. Anyone that was interested in attending was asked to sign up. The INMM National meeting in Indian Wells, CA was discussed and PSU-INMM members were highly encouraged to submit an abstract to the meeting and to attend if possible.

**INMM General Body Meeting**  
**March 19th, 2015**  
The second meeting of the Spring Semester was held on March 19th. A speaker, Andrew Kurzrok, from PNNL was planned for this meeting, but a last minute family emergency prevented his attendance. Instead, at this meeting we watched a video on the Al Kibar Covert Reactor in Syria. Afterwards we discussed the video and reminded everyone about elections at the end of the year and the INMM Annual Meeting over the summer.

**INMM Brookhaven National Laboratory Visit**  
**March 29th-30th, 2015**  
Five members of PSU-INMM visited Brookhaven National Laboratory. Students were welcomed and briefed by the interim chair of the Nonproliferation and National Security Department, Susan Pepper. Then, the PSU-INMM students participated in a safeguards instrumentation and inspection exercise where they were able to perform hands-on exercises to detect hidden radioactive sources and evaluate different uranium gamma spectra. During lunch there was a discussion on career progression and potential future careers in safeguards and nonproliferation at Brookhaven National Laboratory. In the afternoon, the students were then able to tour all research groups involved in the Radiation Detector and Nonproliferation Research and Development Group, led by Dr. Ralph James. The labs toured and their accompany researcher are listed below:

- CZT Crystal Growth – Utpal Roy
- Crystal Processing and Detection Fabrication – Anwar Hossain
- Detector and Material Characterization – Aleksey Bolotnikov
- Thermal Annealing – Ge Yang
- Nuclear Medical Imaging – Yonggang Cui
- Neutron Detection/Imaging – Peter Vanier & Istvan Dioszegi

At the end of the day a final presentation was given by Marco Marzo about his career in safeguards and the IAEA. PSU-INMM wants to thank everyone at BNL who contributed to the visit especially Susan Pepper for her continued support of the PSU-INMM chapter.
INMM General Body Meeting and Elections
April 21st, 2015
The final meeting of the Spring Semester was held on April 21st. At this meeting elections were held for officer positions for the 2015-2016 academic year. The newly elected officers are listed below. Also, the INMM 56th Annual Meeting in Indian Wells, CA was discussed. PSU-INMM members were highly encouraged to attend the meeting and funding opportunities were provided for all students that were interested.

INMM Officer Meeting
April 30th, 2015
The new officers (listed below) for next year met on April 30th to discuss plans for the next year, and to arrange plans for PSU-INMM members to attend the INMM 56th Annual Meeting in Indian Wells, California.

Officers From 2014-2015 Academic Year
Our officers for the past year are listed below. The outreach chair position was done away with this year and the responsibilities of the outreach chair will now be split among the current officers.
President: Sarah Sarnoski, ses49@psu.edu
Vice President: Luis Ocampo, lio5000@psu.edu
Secretary: Alaina Bott, aeb5465@psu.edu
Treasurer: Aditya Shivprasad, aps202@psu.edu
Faculty Advisor: Prof. Igor Jovanovic, izlj1@psu.edu

Officers For 2015-2016 Academic Year
The new officers elected at the general body meeting held on April 21st are listed below.
President: Sarah Sarnoski, ses49@psu.edu
Vice President: Luis Ocampo, lio5000@psu.edu
Secretary: Shane Mitchell, sbm5183@psu.edu
Treasurer: Aditya Shivprasad, aps202@psu.edu
Faculty Advisor: Prof. Igor Jovanovic, izlj1@psu.edu
Greetings from Aggieland!

The Texas A&M University INMM Student Chapter is pleased to report a year that has gone very well for us. We have drawn a variety of engaging speakers to our campus and hosted a number of unique talks. Our membership has stayed consistently strong and we have been able to recruit and retain a number of policy students from the Bush School of Government and Public Policy. We have also been able to work productively with the University of Tennessee – Knoxville chapter to produce an informational video about special nuclear materials. As our next chapter president takes the lead, I look forward to an even better year ahead of us.

Robert Zedric, 2014-15 INMM Student Chapter President
Texas A&M University

Notable Events and Activities 2014-2015

July 2014: 55th INMM Annual meeting
The 2014 Annual meeting was well-represented with Aggies. Several student members gave oral presentations and we also had several first-time attendees. The conference also presented an opportunity for us to interact with our international peers. The Partnership for Nuclear Security (PNS) hosted several activities that helped jump-start new international student chapters. Officers from TAMU attended to show support and to learn new ways to engage our members.

September 2014: Visitors from Tokyo Tech
Texas A&M’s Nuclear Security Science and Policy Institute (NSSPI) hosted six students, two faculty and two staff from the Tokyo Institute of Technology (Tokyo Tech). This visit included presentations, exercises, and tours. Several of our INMM members were able to join them for these activities.

During their visit, we held an INMM meeting that focused on the Japanese nuclear industry. Two Tokyo Tech students gave a presentation on the state of the Japanese nuclear industry in the wake of Fukushima. This gave our members a unique first-hand perspective into the situation. It also gave the Tokyo Tech students a chance to see what INMM meetings were like at the A&M Chapter.

Oct 2014 – May 2015: Collaboration with UT-Knoxville INMM chapter
INMM student chapters at the University of Tennessee and Texas A&M developed a video to convey key concepts about Special Nuclear Material and its role in Material Control and Accountability. This is the second video in a series aimed at communicating nontechnical information to a broader range of people, from policy makers to the protective force. The video was developed with the help of several members from each chapter meeting via web conferences. Scott Stewart from ORNL provided leadership and Amy Whitworth from the NNSA sponsored it. The video will be released at the poster session of the 2015 INMM Annual Meeting.

April 2015: INMM at the 2015 ANS Student Conference
The 2015 ANS student conference was hosted at Texas A&M in April. The TAMU INMM student chapter participated by hosting an exercise on the security of nuclear facilities. We used a model called the Nuclear Security Initiative (NSI) which was designed by faculty in NSSPI. The NSI was run by officer and member volunteers during the conference. This 4-hour table-top exercise focused on the practical applications of security at nuclear facilities. Technical and public policy officials use very similar exercises to simulate security and protection systems of nuclear facilities around the world.

It is always a pleasure to work with Tokyo Tech. Our members were excited to interact with them and show them Texas hospitality. Although Japan has several professional chapters, it does not have any student chapters. We hope that their visit made a good impression to them about INMM.

texas a&M unIversIty student chaPter
Robert Zedric, President
The exercise moderated by Dr. Charlton familiarized participants with basic concepts governing physical protection systems. Students were asked to bolster various systems implemented in a nuclear facility by recognizing vulnerabilities of the current system. Teams of participants were confronted with a nuclear security risk and tasked with developing various pathways for an adversary to reach the vital nuclear materials.

Students from the University of Tennessee, University of Wisconsin, Georgia Tech, University of New Mexico, North Carolina State and many other universities participated in this exercise. Overall, the participating students felt like this exercise was very informative and helpful. Most students were extremely surprised by the ubiquitous use of physical protection systems in today’s society.

April 2015: INMM Vice President visits Texas A&M

On April 27th Ms. Corey Hinderstein, INMM Vice President, visited Texas A&M University. Our INMM chapter hosted two events: one in the morning, a round-table discussion with our INMM members and other in the afternoon, where Ms. Corey presented.

At the round-table, Ms. Corey met with a small group of graduate and undergraduate students. The students talked about their research and areas of interest and Ms. Corey provided valuable feedback and suggestions.

In the evening, she gave a talk on the integration between policy development and technical innovation, which was well received by our members. This brought a larger than average participation from the Bush School of International Affairs.

May 2015: Taos Technical Meeting

Students from the TAMU/INMM Student Chapter participated in the 2015 INMM Southwest Region Chapter Taos Technical Meeting on Thursday, May 21st. The Technical Meeting was a 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, Sandia National Laboratories, Los Alamos National Laboratory, and the Pantex Plant. Students presented their work at the Technical Meeting allowing for peer review in preparation for the 2015 Annual Meeting.

2014-2015: Student Chapter Membership

Our membership remained strong over the past year. We have 41 registered local members and have increased our representation of members from the Bush School of Government and Public Policy. We also reinstated dues for our chapter. This is set at $10 per year and will help us offset the cost of providing food at our meetings.
Texas A&M University Student Chapter (cont.)

2014-2015 Events:

- Sept 4th 2014 Discussion on Ukrainian Conflict and Nuclear Security Concerns
- Sept 15th 2014 Presentation on Advanced Technical Safeguards, with NGFP Recruitment
- Sept 24th 2014 Presentation on Fukushima Cleanup by Tokyo Tech Students
- Nov 24th 2014 Presentation and Discussion on Research and Careers at PNNL
- Dec 3rd 2014 Presentation on Waste Management
- Dec 5th 2014 Year-End Social at Dr. Charlton’s House
- Feb 23rd 2015 Presentation on Boko Haram and Nuclear Security Concerns
- Mar 26th 2015 Presentation on Nuclear Disarmament
- Apr 9th 2015 Nuclear Security Exercise at American Nuclear Society Student Conference
- Apr 27th 2015 Presentation on Policy and Technology Development in Nuclear Nonproliferation and Security
- May 21st 2015 INMM SWRC Taos Technical Meeting

2015 – 2016: Chapter officers

- President: Manit D. Shah
- Vice-president: Timothy Jacomb-Hood
- Secretary: Jose Trevino
- Treasurer: Meyappan Subbaiah
- Bush School Liaison: Steven Horowitz
- Webmaster: Robert Zedric
The Officers elected for the 2014-2015 School Year are as follows:
President: Kelsey Reamer (kareamer@ncsu.edu)
Vice President: Bassam Khuwaileh (bakhuiwai@ncsu.edu)
Treasurer: Shrey Satpathy (ssatpat@ncsu.edu)
Secretary: Gabriel DeCaro (adecaro@ncsu.edu)

This year the Triangle Area Student Chapter of INMM has been focusing on setting goals that will create a larger interest in the organization, particularly amongst students in a wider variety of backgrounds, as the current student chapter is comprised almost entirely of students studying nuclear engineering at North Carolina State University. The executive board has held several meetings in order to discuss how to bring attention to the organization, especially amongst students at all of the Triangle Area universities, including the University of North Carolina at Chapel Hill and Duke University, with backgrounds ranging from technical to policy-oriented, and any combinations of the two. We have established the following goals for the upcoming year:

- Establish connections with more faculty members and increase membership and involvement at all three Triangle Area universities and across multiple departments.
- Possibly find an easier method of communicating between the schools and hosting events, making transportation to certain events held by the INMM chapter less of an obstacle.
- Involve more undergraduate students.
- Invite more members of faculty from multiple different disciplines to each meeting.
- Encourage undergraduates to become involved in research, by introducing them to new connections, ideas and opportunities. Hold meetings focused on research topics, such as how to write an abstract, how to speak at conferences, etc.
- Encourage professors and graduate students to discuss their own research and how an undergraduate might get involved.

Once again, 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.

Respectfully Submitted,
-Gabriel DeCaro, Triangle Area INMM Student Chapter Secretary
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zheesheckla@gmail.com

Activity Report
During 20 – 24 July 2014 three students participated 55th INMM Annual Meeting in Atlanta, Georgia, they were: Helmi Thantawi, Samsiatun Mudzkhiyah and Sheila Amalia. In this annual meeting, they presented four papers. Helmi delivered two presentations, that was “Strengthening Indonesian Nuclear Safeguard by Increasing Quality of BATAN’s Employees” and “The Role of Student to Increase the Knowledge and Understanding of Society about Nuclear”. Samsiatun Mudzkhiyah presented “Mutimodal Biometric System for Security in Nuclear Facility” and Sheila Amalia won Best Student Paper through her presentation about “The Role of Teachers on Forming People’s Perception on Nuclear Safety in Indonesia”. They visited meeting among International Student Chapter as well, had a seat with INMM committee to arrange UGM Student Chapter’s action plan one year ahead and followed some session of paper presentations.

OPEN RECRUITMENT - SEPTEMBER 2014
UGM Student Chapter have conducted recruitment for new members on September 2014. The recruitment was open to all UGM student. Applicants had to make short essay related to how does their major relevant to nuclear development in Indonesia. Then we qualified these essays to determine the applicants who would continue the recruitment. Applicants who passed essays screening were interviewed. Through the recruitment we had ten new members. They are:
Arief Rahman Hakim (Nuclear Engineering student)
Elizabeh Winda Alfanisa (International Relation student)
Hanna Yasmine (Nuclear Engineering student)
Hasna Mardhiah (Medicine student)
Immanuel Adventura Puguh Bagus Permana (Nuclear Engineering student) Muhammad Iqbal Farezza Wardana (Nuclear Engineering student)
Muhammad Rizki Oktavian (Nuclear Engineering student)
Muhammad Tri Wibawa (Nuclear Engineering student)
Nia Febriyanti (Nuclear Engineering student)
R. Andhika Putra Dwijayanto (Nuclear Engineering student)

Student at INMM Annual Meeting, From Left to Right, Samsiatun Mudzkhiyah, Sheila Amalia, and former president of INMM SC UGM, Helmi Tanthawi

Student at INMM Annual Meeting, From Left to Right, Samsiatun Mudzkhiyah, Sheila Amalia, and former president of INMM SC UGM, Helmi Tanthawi
ENGINEERING PHYSICS STUDENTS ACTIVITY EXPO – SEPTEMBER 2014

UGM Student Chapter were participating in student activity expo at Department of Engineering Physics Universitas Gadjah Mada on Sunday (14/09’2014). This expo was aimed to introduce student activity to new students. In this expo we displayed some posters and leaflet about nuclear security and told about Student Chapter’s activities. We got great appreciation from new students. They were very enthusiastic.

GUEST LECTURE – OCTOBER

On Wednesday (01/10’2014) UGM Student Chapter conducted Guest Lecture when PNS’s visitation in Yogyakarta. This event were visited by almost 150 students. The lectures were 3 session, first session lectured by Daniel Miller from PNS, second was Role of Technology in Nuclear Security by Jeremy Townsend from ORNL and the last session was about Human Reliability Program from Jerry Eisele from ORNL. Participants were excited and did a great discussion with all speakers. This event was closed by new member’s launching.

PARTICIPATE NUCLEAR ON SUNDAY MORNING – NOVEMBER 2014

UGM Student Chapter were participating in Nuclear on Sunday Morning, an expo were held by National Nuclear Youth Community. This event were aimed to disseminate nuclear to society. Sunday morning is the most visited place every Sunday in Yogyakarta. In this expo we displayed some posters and leaflet about nuclear security and told about Student Chapter’s activities. We got great appreciation from visitors.

NUCLEAR INSIDER THREAT TABLETOP EXERCISE – NOVEMBER 2014

On Tuesday (11/11’2015) Student Chapter held nuclear insider threat table top exercise through collaboration with several lecturers from Department of Engineering Physics Universitas Gadjah Mada. Through this exercise student were experienced with fun learning method, where they could learn security system in nuclear facility and played security roles. This table top exercise was participated by nuclear engineering student from some classes. We hope that students will be more aware of the existence of insider threat and would be able to develop more secure system.

STUDENT INTERNSHIP IN COLLABORATION WITH BATAN

executive committee of Student Chapter have conducted an internship in Center for Security Culture and Assessment (CSCA) BATAN. They are Samsiatun M, Sheila Amalia,
Andhika Yudha P. and Andri Sagita W. The internship lasted for about a month from 22 January to 26 February in BATAN’s Serpong Area. During the internship they were supervised and lectured by CSCA’s experts such as Mr. Kahirul, Mr. Budiyanto, Mr. Dany, etc. They learned about physical protection in the Serpong nuclear area, nuclear security, threat assessment, nuclear security culture, etc. During the internship they were doing pilot project ‘Self Assessment of Nuclear Security Culture in PPIKSN BATAN. They hope that this internship program could give a nuclear security insight to the student and gave them an experience they couldn’t get in university. This was a great opportunity to learn about nuclear security in practice. This internship was a starter of engagement between Student Chapter and BATAN. In the next future there will be further collaboration as we hope.

Workshop: Introduction on Physical Protection for Nuclear Security Management – INMM Grant

In 21 – 22 March 2015 Student Chapter were running two days workshop. This workshop titled Introduction on Physical Protection for Nuclear Security Management. As the speaker was the experts from CSCA BATAN, Mr. Dany Mulyana and Mr. Budiyanto. They lectured both day. At the workshop day 2 participant also did exercise on nuclear security risk calculation. They implemented knowledge from day 1 session in some practice and exercise.

There were 30 participant, came from Nuclear Engineering and Mathematic and Science Department. They were all very excited and we’ve got many bright and brilliant idea about physical protection system. This workshop was fully supported by PNS by their program that was INMM Grant.

Financial Report of Student Chapter

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Executive Committee Testimonials

Samsiatun Mudzkhiyah
INMM Student Chapter is an open window, big opportunity and great knowledge sharing. It locally played role in advancing nuclear security learning in UGM and globally brought UGM student to the nuclear communities in the world. Joining INMM is really best thing. Through INMM student chapter I learned a lot especially nuclear security topic, met great people with their great mind, and found something I wanna to explore in nuclear field. I hope the INMM student chapter will sustainably continued and get better. Thank you.

Valentina Seli
It’s so fun and exciting to be a member of INMM. Besides the knowledge abot nuclear 3S we’ve got, we also have new friends around the world. So, it really is a great opportunity and I’m so proud of being a member. Thanks INMM (smile).

Steven Wijaya
Being INMM member is the best thing happened in my college years. Through INMM I got to work with great people and exploring my potential to bring out the best of me. I hope INMM members will be the pioneers of nuclear security in Indonesia.

Sheila Amalia
Being INMM member is the best thing happened in my college years. Through INMM I got to work with great people and exploring my potential to bring out the best of me. I hope INMM members will be the pioneers of nuclear security in Indonesia.

Andhika Yudha
Joining INMM is a wonderful experience. Meeting with a bunch of passionate people, learning together, and doing a marvellous project. Joining INMM also gives me opportunity to have an international platform and networking. It’s not an opportunity any student would have. It’s absolutely an useful experience for our research and our future career. I hope that INMM UGM SC could make many more positive activities for years to come.

Humam Fauzi
I am very grateful can be the part of SC UGM of INMM and what I learned from it. I am pretty sure that the greatest thing that SC UGM of INMM offer is my new way of thinking and my way to look something from another perspective. After all the purpose of education is forging a new way of thinking that better than the previous one.

New SC UGM of INMM Executive Committee 2015-2016

Andhika Yudha P., President

Andri Sagita W., Vice President

Hanna Yasmine, Treasurer

Nia Febriyanti, Secretary

Arief Rahman Hakim, Member-at-Large

Immanuel Adventura P. B. P., Member-at-Large

Muh. Iqbal Fahreza, Member-at-Large
UNIVERSITY OF NEW MEXICO STUDENT CHAPTER
Arnika Chidambaram, Outgoing President and Secretary

What INMM means to me

“INMM means opportunities and community to me. When I go to INMM dinners and meetings, I feel welcome and like I belong. Even though I am in the very beginning stages of my career, I can draw experience and wisdom from people who have been in the nuclear engineering world for decades. No professional, no matter how seasoned and accomplished, has ever shown a condescending attitude towards me or expressed anything but support and confidence in my abilities. INMM means opportunities that I would not otherwise get, like taking a tour of Aquila Technologies and hearing Dr. Pete Lyons, secretary for Nuclear Energy, speak about the present state of nuclear reactors in our country. INMM has broadened my education outside of the classroom, and heightened my interest in my major even further.”

--- Jenny Smith, sophomore in nuclear engineering

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. As a result, we believe our INMM student chapter meeting attendance will increase and that more of our members will become national members.

Networking and Social Events

The Southwest Regional Chapter participated in a joint dinner meeting with the American Nuclear Society’s Trinity Section on November 7th, 2014, at the Santa Fe Marriott Courtyard, which five INMM members attended. The talk was about Proliferation Potential and Safeguards at Gas Centrifuge Enrichment Plants by Dr. Brian D. Boyer of Los Alamos National Laboratory.

We had a meeting November 7th, featuring Keith Tolk, where he spoke to students about his work on the Z Pulled Power Facility and his many contributions to the field of nuclear engineering. The meeting was well attended and students expressed interest in having Keith back to speak again.

We held a “Welcome Back” social event at Dave N Buster’s on November 21st, 2014. It was well attended and a good way for underclassmen to meet and socialize with other students in the Nuclear Engineering department. It also helped us as INMM officers to explain the benefits of being a National INMM member and the perks of taking on leadership roles within the chapter.

The INMM SW Chapter Winter Dinner was held Friday, January 9th, 2015, at The Lodge Hotel in Santa Fe, New Mexico. It was attended by five INMM members. Aquila Technologies as always been incredibly gracious to our student chapter. This year, like last year and the year before, they paid for all of the student dinners, which helped with student attendance. Our Speaker was Dr. Pete Lyons, currently the DOE Assistant Secretary for Nuclear Energy (NE). 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.

On April 24, 2015, our chapter went to Silva Lanes to bowl, as our Spring Semester Social. It was well attended, but in hindsight, we realized putting a social so close to finals week was not the greatest idea. Next semester, we will space the event out better. Many of our bowling attendees were first time INMM attendees and expressed interest in future events and in becoming national members. It was an excellent networking opportunity and we established future connections with ANS for the coming year. We have already discussed joint meetings and events to promote greater member involvement.
In May, UNM and TAMU INMM’ers attended the Taos Technical retreat hosted by the INMM Southwest chapter. It was an excellent networking event and we are very grateful to the Southwest chapter for covering everyone’s gas.

A Wrap-Up Committee meeting was held on Friday, June 12 to discuss plans for the coming year. We have consistently had problems with getting funding through UNM and we brainstormed ways to get around this. We have concluded we need a fundraising effort to be successful this semester if we want to cover food at meetings and social events.

Increasing Membership

We had very good meeting attendance last year, and I suspect it is because of the awesome speakers we’ve been having. We’re hoping to have similar, if not more, success this year by hosting more social events in conjunction with ANS and on our own. One thing that we’ve been implementing this year, to maintain our current members and bring in new ones, is going to freshman engineering classes and making announcements about the merits of being a member of INMM. We talk about the benefits of networking, meeting students in your field, and awesome, free food at meetings. Professors have been very accommodating about letting us make short (approx. 2-5 minute) presentations at the beginning of class and students have been very receptive. As a result, more students have “liked” our Facebook page and have emailed me, asking to be put on the listserv so hopefully that will translate to increased membership. Our Facebook page has been an effective platform for sharing up and coming articles and announcing meeting times, so that’s helped raise interest among students as well. Our plan for this coming semester is to do this in different classes, outside of nuclear engineering. We are currently reaching out to the political science department and other engineering departments to schedule time to talk about INMM and reach a broader membership base.

Elections

Elections were held in May and all positions we filled. This has been our goal for many years. Having a president, vice president, secretary and treasurer will make the coming year much easier for everyone and will result in more social events and better organization. Jenny Smith is president elect, Justin Davis is vice president, Arnika Chidambaram is out-going president and secretary and Corey Skinner is treasurer.

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 are especially grateful to the INMM Southwest chapter and Aquila Technologies for all the support they’ve given us over the years. 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

Respectfully submitted,

Dr. Adam Hecht
Faculty Advisor
University of New Mexico INMM Student Chapter
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Arnika Chidambaram
Out-going President and Secretary
University of New Mexico INMM Student Chapter
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Jenny Smith
President-Elect
University of New Mexico INMM Student Chapter
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Justin Davis
Vice President
University of New Mexico INMM Student Chapter
davisj@unm.edu

Corey Skinner
Treasurer
University of New Mexico INMM Student Chapter
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Throughout the first year the University of Ibn Tofail – Institute of Nuclear Materials Management Student Chapter (UIT-INMM SC), has organized and participated to several events.

In addition to manifestations that were hosted, this year was especially marked with the win of PNS Multimedia Competition, the success of 3 members who have completed the WINS Academy Certificate for Scientists and Engineers. Moreover, UIT-INMM published an article on the January issue of the INMM Communicator.

With the support of our institution, PNS and CRDF Global, Listed below are, first the marked event of this year, the workshops and event organized by the chapter, and at the end the activities in which UIT-INMM SC has participated:

**PNS Nuclear Security Culture Multimedia Competition**

The Moroccan Student Chapter participated to PNS competition by submitting a poster that highlights the differences between strong and weak Nuclear Security Culture and a video that promote Nuclear Security Culture. Among other submissions from India, Indonesia, Morocco, South Africa, UIT-INMM Student Chapter won in both categories: Nuclear security Education and Nuclear Security in Facilities.

The Chapter was rewarded by certificates and a book as well as an expert that animated the Security Culture Fundamentals Workshop organized during the 20-21 may 2015.

**WINS Academy**

As it was mentioned before this year was characterized with many achievements and one of these achievements was the success of completing the WINS Academy Certificate for Scientists and Engineers by Three members (Taha Laghouazi, Assia Lasfar, and Youness El Fassi) of UIT-INMM.

The Moroccan Association for Radiation Protection with a poster that highlights the objectives and the activities of the Chapter and take advantage and organize a workshop titled: “Nuclear Security for the Next Generation: Ensuring the Continuity of Knowledge” in which the members of UIT INMM shared their experience acquired in USA with students, educators and young professionals in Africa and aware the attendees about the importance of Nuclear Security and Nuclear Security Culture.

Furthermore, Samira Mimount member of UIT-INMM SC was awarded Gold Prize at the Young Scientist award organized by AFRIRPA and IRPA.

**The 4th African Regional IRPA Congress (AFRIRPA04)13-17 September 2014, Rabat**

UIT-INMM participated to AFRIRPA 04 that was held by the Moroccan Association for Radiation Protection with a poster that highlights the objectives and the activities of the Chapter and take advantage and organize a workshop titled: “Nuclear Security for the Next Generation: Ensuring the Continuity of Knowledge” in which the members of UIT INMM shared their experience acquired in USA with students, educators and young professionals in Africa and aware the attendees about the importance of Nuclear Security and Nuclear Security Culture.

The one day workshop was organized by UIT-INMM Student Chapter at the University of Ibn Tofail, with the participation of PNS representative, U.S Embassy, National Experts, the International University of Rabat, and students as well. The aims of the workshop were to share their experience and knowledge with the attendees and outreach the students about the importance of Nuclear Security Culture.
Personal Development training for Successful Meeting, 11 February, 2015- UIT Kenitra

In order to continue to improve student’s member qualifications and competences, UIT-INMM organized an event that was animated by the president of Junior Chamber International (JCI) at the Faculty of Sciences, University of Ibn Tofail, during this event the members have known how to manage their time and tasks in addition to how to make their participation in events and meetings more effective.

WINS Day, 8 May, 2015- UIT, Kenitra

A Half day event organized at Polymers, Radiation and Environment Laboratory, Faculty of Sciences was dedicated to aware the members of UIT-INMM SC about the scope and mission of World Institute for Nuclear Security (WINS), as well as encourage them to become member of this international organization in order to benefit from the Best Practices Guides published by WINS.

Security Culture Fundamentals Workshop, 20-21 May, 2015- UIT, Kenitra

The University of Ibn Tofail in Collaboration with the University of Tennessee and World Institute of Nuclear Security, and with the support of U.S. Department of States Partnership for Nuclear Security (PNS) and CRDF Global Hosted two days workshop titled:” Security Culture Fundamentals” at the University of Ibn Tofail, Kenitra.

The workshop was coordinated by UIT-INMM Advisor Prof. Oum Keltoum Hakam and has known the participation of different national stakeholders and international experts from WINS and University of Tennessee-Knoxville, USA, as well as the participation of students. During these two days, the attendees had the chance to know the basic concept of Security Culture, also interact with experts from different field related to nuclear security.
IAEA-ICTP School on Nuclear Energy Management 17-28 November, 2014- Trieste, ITALY

UIT-INMM Student Chapter participated to the School of Nuclear Energy Management held in the International Center for Theoretical Physics, in Trieste, ITALY. The Two weeks training were addressed to students and professionals from developing countries, and were focused mainly on the importance of Safety, Security and Safeguards in order to use and benefit from the Nuclear Energy.

National Security Days, 7 May, 2015- ENSA, Kenitra

UIT-INMM Advisor (Prof. Oum Keltoum Hakam) was invited to participate to the fifth Edition of National Security Days (7-8 May) that was held at the National School of Applied Sciences, Kenitra. During this event UIT-INMM Advisor shared with the attendees the importance of cyber security through a presentation titled: ”Nuclear Cyber Security”.

“IT-Security” Workshop 14 May, 2015, International University of Rabat

UIT-INMM Student Chapter was invited to participate to the workshop organized by the Security and System of Information Master from the International University of Rabat. The Chapter gave to the attendees a lecture Titled: “Nuclear Security and Security of Information” to aware the participants about the importance of securing the sensitive information in nuclear field.

Environment Day, 23 May, 2015- Kenitra

UIT-INMM Student Chapter was invited to the 2nd Environment Day, Impact of Pollution on the Population organized by association of Youth and Environment of the 3rd Millennium. In this occasion the UIT Student Chapter Shared a presentation about the importance of the uses of Radioactive and Nuclear Material as well as the objectives of Safety and Security and their common aims to protect People and Environment.
Professional Development Course, 25-29 May, 2015- Marrakech, MOROCCO

UIT-INMM was present during the Professional Development Course (PDC) organized by King’s College London in Marrakech from the 25-29 May, 2015. The First week of this PDC was focused mainly on the threats posed by an insider to nuclear facilities, Target identification, exploring the potential insider (motivations, attributes and advantages), protective and preventive measures against an insider, Nuclear Material Control & Accountancy.
Another eventful academic year has come to a close for our chapter at the University of Michigan. Our members won paper awards at the Annual Meeting, helped revitalize a neighborhood in Detroit, hosted numerous guest speakers, and managed to have some fun along the way.

**July 16th 2014 — 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. Lunch was generously sponsored by Professor Pozzi.

**July 20th – 24th 2014 — 55th INMM Annual Meeting:** A total of eight University of Michigan students including three first time attendees had the opportunity to attend the 55th Annual Meeting of the INMM in Atlanta, GA. Among these were two undergraduate students, Katie Schneider, our new chapter treasurer and secretary, who was sponsored to attend the meeting through an internship at Argonne National Laboratory, and Athena Sagadevan who presented a poster at the Annual Meeting. We would like to thank the INMM for funding the attendance of our chapter president, Matthew Marcath. Christopher Lawrence attended his last INMM Annual Meeting as a student, having recently successfully passed his Ph.D. defense. It was also a very rewarding meeting for our Ph.D. candidates Alexis Kaplan, who won both the Robert J. Sorenson Memorial Scholarship and the best paper award for the Materials Control & Accountability technical division, and Marc Paff, who won the best paper award for the Nuclear Security and Physical Protection technical division. Our chapter deeply appreciates the recognition of our research by the INMM.

**September 2nd 2014 — Chapter Executive Committee Meeting:** Our chapter executive committee met for the first time in the new semester to discuss new ideas for the coming academic year, plan a social event for the following week and to discuss three upcoming guest lectures in September and October.

**September 9th 2014 — INMM Social:** Nuclear Engineering students, new and old, congregated at Bar Louie to imbibe potables, savor comestibles, and be indoctrinated in INMM’s mission and our chapter’s activities.

**September 16th 2014 — INMM Guest Speaker Dr. Henzl:** Dr. Vlad Henzl is a staff member at Los Alamos National Laboratory and was in town as a committee member for our chapter’s former Vice President Alexis Kaplan’s PhD prospectus. His presentation was titled “Concept of Multi-Mode Decay Chain of Neutron Generations and its Application as well as Analytical Description of (some) Safeguards Instrumentation”. The talk was focused on novel analytical and simulation methods he has developed for better understanding the Differential Die-Away instrument which is being developed for spent nuclear fuel plutonium content measurements under the Next Generation Safeguards Initiative.

**September 24th 2014 — INMM Guest Speaker Dr. Jon Mueller:** Professor Sara Pozzi’s NNSA funded Consortium for Verification Technology invited Dr. Jon Mueller from Duke University to visit our Nuclear Engineering department. He graciously accepted our request to give a presentation titled “A novel method of assaying special nuclear materials using polarized photofission” to our INMM student chapter during his visit. In his research he measured photofission neutron anisotropies of various actinide targets (U, Np, Pu, Th) exposed to the High Intensity Gamma-Ray Source (HIGS) at Duke University. The photofission neutron anisotropies of even-odd isotopes ($^{239}$Pu, $^{235}$U) are distinctly different from those for even-even isotopes ($^{238}$U) and thus present another potential tool for distinguishing and identifying potential threat materials.

**September 29th 2014 — Chapter Executive Committee Meeting:** The executive committee discussed the upcoming visit of Dr. Ramona Vogt from Lawrence Livermore National Laboratory, discussed potential upcoming social
University of Michigan Student Chapter (cont.)

October 27th 2014 — Chapter Executive Committee Meeting: The executive committee finalized plans for Dr. Ramona Vogt’s upcoming seminar and discussed possible events for the remainder of the semester.

October 29th 2014 — INMM Guest Speaker Dr. Ramona Vogt: In the second joint seminar with the Consortium for Verification Technology our chapter invited Dr. Ramona Vogt from Lawrence Livermore National Laboratory to discuss her work on fission modeling and the event by event fission code FREYA (Fission Reaction Event Yield Algorithm).

January 14th 2015 — Chapter Executive Committee Meeting: Our chapter discussed writing a joint INMM conference paper comparing the nuclear engineering programs at the University of Michigan and the Jordan University of Science and Technology. The Jordanian INMM chapter contacted us and discussed possible US Department of State funding for such a collaborative effort. We also discussed hosting either a whirlyball or laser tag social in February. Homework help in collaboration with our Alpha Nu Sigma nuclear engineering honors society is being continued this semester after a trial period late last semester. The possibility of screening the movie “The man who saved the world” was addressed. This film portrays the Soviet Air Defense Force lieutenant colonel Stanislav Petrov who in 1983 judged that what looked like a nuclear missile attack on the Soviet Union was a false alarm and to not launch a retaliatory nuclear attack on the United States.

February 3rd 2015 — INMM movie night, “The man who saved the world”: The Michigan INMM chapter hosted an evening screening of the 2014 film, “The man who saved the world”. The film received several honorable mention awards at the Woodstock Film Festival. It dramatizes the true-life story of Stanislav Petrov, a Soviet lieutenant colonel who in 1983 judged that a perceived nuclear missile attack on the Soviet Union was a false alarm and to not launch a retaliatory nuclear attack on the United States.

February 10th 2015 — Webinar by Dr. Shawn Tonga, LANL: In a joint INMM and Consortium for Verification Technology event, our chapter joined in on a webinar being hosted by the Nuclear Science and Security Consortium at UC Berkeley. Dr. Tonga’s research on gamma detection research for homeland security and space applications was well received. About 30 students and faculty attended.

February 17th 2015 — Chapter Executive Committee Meeting: Our chapter discussed an unexpected budgetary windfall. We discussed the possibility of participating in a community service event in Detroit called the Detroit Partnership. This program’s goal is to bring University of Michigan students into the city of Detroit for a variety of social service programs. The INMM paper collaboration with the Jordan University of Science and Technology was discussed. An abstract has been submitted and a cohort of U of M and JUST students are actively collaborating on the project. Plans were laid for a visit by Lazar Supic (UC Berkeley) for March 9th during which he will give a presentation on his PhD research on radiation imaging. Finally we planned to organize a whistle wetting social event at the newly opened Hopcat bar in Ann Arbor for February 25th. The next executive committee meeting will occur in early March.

February 25th 2015 — INMM social at Tios Restaurant: About twenty students and our chapter faculty advisor, Professor Sara Pozzi, met at Tios Mexican Restaurant for a pleasant evening of food, drinks and conversation.


March 9th 2015 — INMM/CVT seminar by Dr. Lazar Supic: Dr. Supic received his Ph.D. in nuclear engineering at the University of California, Berkeley, in December 2014. His presentation on his thesis work titled “Enhancing gamma-ray detection and imaging characteristics in HPGe double-sides strip detectors employing signal decomposition algorithms” was well attended and stimulated much discussion.

March 28th 2015 — INMM service event through Detroit Partnership: Our INMM chapter joined over a thousand other U of M students for the annual Detroit Partnership service day on a brisk Saturday. This organization partners students with community and nonprofit organizations in Detroit to help in the revitalization of the city. Activities
range from boarding up abandoned houses, to planting trees and building urban farms. Our INMM team had a fantastic turnout and helped the Grandmont Rosedale Development Corporation pick up trash along the Grand River Avenue, the main commercial boulevard in this Detroit community.

April 16th 2015 — Officer Elections and Ice Cream Social: Democracy was bought with heaping portions of ice cream, chocolate sauce and whipped cream. Congratulations to the new cadre of officers for our student chapter, and many thanks to outgoing president Matthew Marcath and his board:

President  Marc Paff  mpaff@umich.edu
Vice-President  Tony Shin  thshin@umich.edu
Past President  Matthew Marcath  mmarcath@umich.edu
Secretary/Treasurer  Katherine Schneider  kschn@umich.edu
Communications Chair  Cameron Miller  cmillera@umich.edu
Social Chair  Charles Sosa  cssosa@umich.edu
ESG Representative  Marc Ruch  mruch@umich.edu
Publicity Chair  Jennifer Nguyen  jennannn@umich.edu
Faculty Advisor  Dr. Sara Pozzi  pozzisa@umich.edu

May 7th 2015 — INMM Social at HopCat: About twenty students met at the HopCat Restaurant in downtown Ann Arbor for food, drinks and to celebrate the end of winter semester and the beginning of summer.

May 26th 2015 — Chapter Bylaws Amended: The main change was the elimination of the Engineering Student Government (ESG) Representative position from the Chapter Executive Committee. This was due to a restructuring of the ESG, eliminating the need for organization representatives.

The Michigan cohort at this year’s Annual Meeting should be strong once again. We expect to send about 10 attendees (including seven students) and are excited about our joint paper with members of the INMM student chapter at the Jordan Institute of Science and Technology. Funding information is below.

<table>
<thead>
<tr>
<th>Total # of students at the Annual Meeting</th>
<th># of Students that paid for themselves</th>
<th># of students the school paid for</th>
<th># of students supported by other sponsors</th>
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<td>0</td>
<td>4</td>
<td>3</td>
<td>Sandia Excellence in Engineering Fellowship, INMM</td>
</tr>
</tbody>
</table>

Respectfully submitted,

Cameron A. Miller
University of Michigan
INMM Student Chapter Communications Chair
248.860.5734
cmillera@umich.edu
Special Event: NGFP Presentation
Steve Mladineo Presented information on NGFP and International Safeguards
September 18, 2014
Steve Mladineo from PNNL came to the University of Missouri and discussed the NGFP opportunity and what the fellowship entails. He also discussed international safeguards to give students some background on what is involved with international safeguards. Over 75 students attended and the program was well received.

Chapter Meeting #1
September 18, 2014
The officers from the chapter met and discussed what we would like to see the organization accomplish this year.

Chapter Meeting #2
November 18, 2014
The chapter members met to discuss possible activities for the spring semester. Based on this meeting two activities are schedule to occur in March and April.

Special Event: MURR Presentation
Dr. John Gahl Presented an overview presentation about MURR
March 3, 2015
Dr. Gahl, an Electrical Engineering professor and representative from MURR, gave a presentation about what happens at the MU Research Reactor. He gave an overview of the different research areas being studied (engineering, agriculture, archeology, etc.) and the different types of exports are being produced (including medicinal isotopes). He also talked about the facility and compared it with other students throughout the country. Approximately 150 students attended.

Special Event: MURR Tours
MURR Employees took groups of students on tours of the facility
April 2015
Groups of approximately 15 students who attended the MURR presentation had the opportunity to go on a guided tour of the facility. Approximately 75 students toured the facility.

Based on the popularity of the MURR events, more events of this nature are being planned for the future. The new president of the University of Missouri Student Chapter is Dillon Walker (walkerdi@grinnell.edu).
Thursday, February 26, 2015: “Secondhand Sensitive Technologies & the Nonproliferation Regime”
Amanda Sayre came to UW to talk about proliferation and internship opportunities as Chair of Student Activities at INMM. Her talk is titled “Secondhand Sensitive Technologies & the Nonproliferation Regime.” She was preceded by Jackson School graduate student Hannah Haegeland, who presented her research on Pakistan and proliferation.

Wednesday, May 13, 2015: Election
This event was open to the public, students interested in officership or seeing and electing the officers of the next year are highly encouraged to attend. Students who has been supporting the effort of the chapter and has a continuing presence in our events along with all officers from the year 2014-2015 had a get together under a friendly and relaxed environment to elect the officers of the next year. Luckily, this meeting was very productive and we had our basic officer roles for the next year elected. For the new officership, Stanley Jiasheng Xie is going to be the president of this organization for the next year; Michael Brinley is going to be the Vice President of the next fiscal year. Daniel Zhu and Elizabeth Wiley were elected to be the Treasurer and Policy Officer. Justine Sass, the computer specialist—Web Manager of the past year has been elected as the Secretary of the chapter.

Friday, May 29, 2015: The Big Trip to PNNL/Hanford B Reactor
We toured the HAMMER training facility and RADACAD, as well as learn about internship opportunities and INMM during a working lunch (provided). HAMMER Stands for Hanford B-Reactor was built during the world war two and have seeing the presence of famous Physicists like Enrico Fermi and Eugene Wigner. This facility is the first facility in the United States to produce Plutonium-239 and it is one of the first large scale Nuclear Reactor ever built for the war effort.

Hanford B Reactor tour is Saturday morning. Participants were offered an opportunity to do both days or choose just one. We were helping to connect the drivers and carpoolers.
Our overall mission statement:
We’re Social! We continue to build our new website, but thanks to the help of our Web Manager Justin Sass, we have also been actively upgrading our social media presence. At www.inmmuw.com you can register for events, find chapter information and resources, learn about officers, and contact the chapter with questions.

Additionally, you can find us on Twitter, Facebook, and our events can be found on Eventbrite! 
Tweet @inmmuw.
Like us on facebook.com/inmmuw and facebook.com/groups/inmmuw.
Register for events at inmmatuw.eventbrite.com.

Financial Report
Following the events this year, we are grateful to receive our stipend check for $294.00. Thank you for your support as we continue to plan events, outreach, and trips!

Our Officers
President Sarah McPhee
MAIS Candidate, REECAS
sarahm80@uw.edu

Vice President Teyloure Ring
MAIS Candidate, REECAS
teyloure@uw.edu

Secretary Jennifer Jarrett
Senior, Slavic Studies
jen_jay@hotmail.com

Treasurer Igor Sirotkin
Senior, International Relations, REECAS track
is22@uw.edu

Policy Officer Dan Wishard
MAIS/MPA Candidate
dwish@uw.edu

STEM Officer “Stanley”
Jiasheng Xie
Junior, Physics
jx9@uw.edu

Web Manager Justin Sass
Junior, Informatics
justin.sass@gmail.com

Advisor Chris Jones
Professor, Jackson School
cd_jones@outlook.com
The Facility Operations Technical Division (FOD) continued developing the organization and interest for the technical division throughout the past year. A continued area of concentration has been to grow interest and membership from commercial nuclear fuel cycle entities as well as expand engagement with government facilities that manage nuclear materials. FOD has reached out to other professional organizations that focus on nuclear facility operations for potential collaborations such as the American Nuclear Society. An additional emphasis is on member involvement with our subcommittees to increase overall participation in INMM and FOD.

FOD participated with the INMM Central Region Chapter’s (CRC) Spring Training Event on March 10, 2015. The Central Region Chapter event was held at The University of Tennessee Howard H. Baker, Jr. Center for Public Policy. The meeting was titled: “70 Years of Managing Nuclear Materials/Weapons: The Nuclear Fuel Cycle”. The Central Region Chapter is working closely with the UT INMM Student Chapter in putting on this meeting and FOD is offering support where needed and is helping with speakers.

As of mid-June, FOD has 22 papers submitted and four sessions for the Annual meeting. FOD will have a special speaker, Mr. Marc-Andre Charette from Cameco Corp., who is coming from Canada to speak at the FOD meeting on Sunday afternoon to give an overview of Cameco’s facilities and capabilities. Cameco is one of the world’s largest uranium producers accounting for about 16% of the global production from its mines in Canada, the US and Kazakhstan.

FOD will be undergoing some subcommittee leadership changes in the upcoming year with two openings being filled due to illness and retirements. These openings are in the Nuclear Fuel Cycle Operations and Regulatory Compliance subcommittees. The FOD current leadership is listed below:

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

2015 Subcommittees:
- JNMM Assistant Editor – Jeffery Chapman  
  - Responsible for review of all FOTD JNMM papers  
- Nuclear Fuel Cycle Operations – Open  
  - 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 – Open  
  - Policy, licensing, and requirement management  
- Communications – Jeff Allender  
  - Website, Social Media, membership communications  
  - Technical divisions interface
Division Vice Chair
Thomas Grice stepped up to serve as the Vice Chair of the MC&A Division. Tom is currently with the U.S. Nuclear Regulatory Commission (NRC), serving as a Team Leader for the International Safeguards Team with the Material Control and Accounting Branch. Prior to joining the NRC, Tom worked at the Department of Energy’s Mound Facility for over 20 years, managing the sites MC&A program from 1992 to 2005.

NDA Users’ Group
The NDA user’s group will meet in conjunction with the INMM 56th annual meeting in July in Indian Wells, CA on Sunday morning. For further information on the goals and activities of the user’s group and to make suggestions, please contact Stephen Croft at Stephen.croft@ornl.gov.

DA Users’ Group
Peter Mason, New Brunswick Laboratory, has agreed to take the reins of the DA User’s Group from Jon Schwantes, PNNL. The DA User’s Group will meet in conjunction with the INMM 56th annual meeting in July in Indian Wells, CA on Sunday morning. For further information on the goals and activities of the user’s group and to make suggestions, please contact Peter Mason at Peter.Mason@science.doe.gov.

JNMM Associate Editors
The MC&A associate editors for JNMM have recently changed from Michael Baker, LANL, to the following two individuals:

- Rian M. Bahran, Los Alamos National Laboratory, Phone: 505-667-8919, Email: bahran@lanl.gov
- Louise G. Worrall, Oak Ridge National Laboratory, Phone: 865-241-2639, Email: worralllg@ornl.gov

Accounting Systems Committee
Andrew Jackson retired from the Y-12 National Security Complex effective Dec 1, 2014 and subsequently stepped down as chair of the committee. Michael Bridson had been serving the committee as co-chair. Michael has assumed the role of chair. Any interest in this and other nuclear material accounting topics and ideas should be referred to Michael Bridson at mdb@ansto.gov.au.

Respectfully Submitted by:
Michael Baker – Chair
Tom Grice – Vice Chair
Amy Wilson – Secretary
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. When it is held outside the U.S., the INMM provides support as requested by the host country and organizations. The Packaging, Transportation and Disposition Division is supporting the host nation organizations for the 2016 event.

The INMM Packaging, Transportation and Disposition (PT&D) Division presented the INMM 30th Spent Fuel Management Seminar January 12-14, 2015 at the Crystal Gateway Marriott Hotel, Arlington, VA. This INMM conference ran for 26 years under the excellent direction of Mr. Ed Johnson. The U.S. Nuclear Infrastructure Council (USNIC) has been a partner with INMM since 2011. INMM / USNIC are presenting the INMM 31st Spent Fuel Management Seminar January 12-14, 2016 at the Washington Marriott Georgetown, Washington, DC.

The world’s increasing need for safe, efficient and secure nuclear energy is driving the need for a new evolution of safe RAM storage, transportation and disposition systems. The status on 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 meeting these evolving worldwide needs.
ANNUAL REPORT TO THE MEMBERSHIP
October 1, 2014 – September 30, 2015

ADDENDUM
Post-meeting Reports
The following items are put forward from the period during and after the March 2015 INMM EC meeting till early July 2015

1. At the India Institute of Technology (IIT) in Kanpur, India, students and faculty are to submit the final petition and paperwork for establishing the new INMM Student Chapter of IIT-Kanpur. Notice was communicated to Mr. Mishra to proceed with submitting their final version of the IIT-K submission to the INMM Executive Council.

2. Students and faculty INMM members at the University of Utah have expressed heavy interest in forming a student chapter. As of June 25, the new chapter has submitted their by-laws and are awaiting approval by the INMM EC.

3. Students and faculty at the Ahmadu Bello University (ABU) in Zaria, Nigeria are collaborating with CRDF Global to establish a student INMM chapter. A petition and bylaws have been submitted to the Chapter Relations Chair and the EC. A decision will be given at the earliest opportunity.

4. The INMM Japan Chapter amended its bylaws which were approved by the INMM EC

5. INMM Chapters evolution: several universities have demonstrated interest in the INMM Student Chapter mechanism (requests / initial contacts):
   a. Oregon State (C. Snow)
   b. University of Florida (C. Snow)
   c. Universidade Federal do Rio de Janeiro (C. Gariazzo)
   d. Amity University – New Delhi, India (C. Gariazzo)
   e. Tokyo Institute of Technology (C. Gariazzo)
   f. Sidi Mohamed Ben Abdellah University (SMBAU) (W. Janssens/CRDF)

6. INMM Chapter Activities: Few examples with focus on inter-chapter relations
   a. During the 2015 ANS Student Conference in College Station, Texas, TAMU Student INMM Chapter hosted and coordinated a nuclear security exercise to 50 other student attendees from around the US. Topics discussed were basic applied nuclear security sciences and a hands-on exercise where students new to the concept could conceptualize the challenges of applying appropriate security measures to nuclear facilities and evaluating their effectiveness.
   b. TAMU student INMM chapter also hosted meetings with INMM student chapter members (and interested students) from Indian universities in late June 2015: PDPU, IIT-Kanpur, and Amity University.
   c. The PNW is planning a couple of social events for the fall 2015. One will be held in Idaho Falls, including students from the Utah and ISU chapters, and one will be held in Seattle to include the U of Washington and OSU chapters
7. Feedback on one of the previous INMM EC actions (112114-2) to JK to Contact the Chapter Relations Cmt. to discuss involvement of CDRF Global in Cmt. activities. The following information was received from CDRF Global
   a. Priority areas for CDRF engagement:
      i. currently working with chapters in Nigeria, India, Morocco, Jordan, South Africa, and Indonesia.
   b. Funding level is for INMM Chapter engagements
      i. funding is variable and modest; rely on some funds for travel support and small amounts for chapters dues and grants but these allocations require high degrees of coordination with the funder.
   c. How long can newly created Chapters (also those from the last 2/3 years), be financially support
      i. Typically three years of support is anticipated from inception to independence for new chapters. CRDF actively works with the chapters to ensure that they are self-sustaining in the fourth year and beyond.
   d. Which other support is provided by US-DoS ; PNS ; CRDF Global
      i. CRDF Global provides technical support to the chapters to help them develop action plans, craft outreach strategies, initiate new activities, etc. Chapters also actively participate in competitions that CRDF initiates with PNS support, such as the Multimedia Competition.

8. Opportunities used to promote INMM Chapter Mechanism:
   a. XIX Amaldi Conference in Rome (incl Academia), March 30-31st, 2015 (WJ)
   c. ESARDA, WG TKM, May 2015, Manchester (WJ)
   d. INMM Chapter creation and sustainability were discussed during various events hosted by the US Department of State’s Partnership for Nuclear Security (i.e., at universities in India and Brazil)

9. Small update on website activities
   a. NuSaSET: 476 registered members; input from all INMM colleagues is highly welcome (news/grants/student opportunities/meetings etc: via NuSaSET webmaster)
   b. Facebook group of National and International INMM Student Chapters (56 members currently registered)

Signed

Willem Janssens & Claudio Gariazzo

Annexes

1. Agenda for the INMM CRC meeting on Tuesday 14/07/15

2. Agenda for INMM Chapter Presidents and Faculty Advisors meeting on Thursday 16/07/15
Chapter Relation Committee Annual Meeting

Indian Wells, Tuesday 14th July 2015 12.00-13.30

Agenda

1. Welcome and Introduction: W. Janssens

2. Approval of agenda: All

3. Introduction of participants and confirmation of interest to be member of the CRC: All

4. Nomination of CRC members: W. Janssens

5. Updates on CR and on adhesion of new chapters: C. Gariazzo, C. Snow

6. Review of the 2014 actions (Annex I: minutes of July 2014 CRC meeting)
   a. SC1: Chapter outreach: B. Boyer, C. Crawford
   b. SC2: Industry outreach: M. Koskkelo, S. Pepper
   c. SC3: Career prospects: A. Sayre, C. Crawford
   d. SC4: Chapter status monitoring: T. Gray, J. Larkin
   e. SC5: Intra INMM: chapter relation and engagement: T. Gray, K. Snow
   f. SC6: CRC Adin: T. Gray, K. Snow

7. Discussion on chapter sustainability: All

8. Opportunities to promote INMM chapters: All

9. Closure
Chapter Presidents and Faculty Advisors Annual Meeting

Indian Wells, Thursday 16th July 2015

Time and Place

Agenda

1. Welcome & Introduction of all participants

2. Feedback from the INMM CRC meeting on 14th July 2015 (see Annex 1 to this agenda)

3. Feedbacks from proposed joint actions by groups of INMM chapters and plans for upcoming year (For details on last year’s discussed actions, see Annex 2 to this agenda)

4. Feedbacks from newly formed INMM chapters so as to provide a better experience for INMM members in non-US/non-EU chapters

5. Information on few other international networks and funding schemes of relevance to the INMM Chapters e.g. EU CBRN Centres of Excellence, IAEA Nuclear Security Support Centres

6. Presentation on NuSaSET capabilities and use for INMM Chapters (incl. live-streaming of lectures)

7. AOB
Pacific Northwest Chapter INMM (PNW)

June 2015

Again, as a priority goal of the PNW Chapter, we are working on ways to engage the broader student population through the existing student chapters at University of Washington (UW) and other colleges and universities in our region (Washington, Oregon, Idaho and Utah). Also, we will work to unify and excite our community of Laboratory and student membership and establish a consistent schedule of engagement.

The Chapter provided support to the 60th Annual Mid-Columbia Science and Engineering Fair in March 2015, with a monetary donation. The event is held to recognize the achievements of students of our region. It encourages students moving from middle school to high school to keep their interest in science and engineering, and has been very successful in our area.

On June 5, 2015, the Chapter hosted a Regional Chapter social networking event in Seattle at the PNNL offices there. Mr. Carl Greninger, creator of the North West Nuclear Consortium in Federal Way, Washington, spoke at the event. By day, Mr. Greninger is a program manager at Microsoft, but in his spare time, he, along with a group of interested students, built an ion-collider in his garage to encourage high-school students to consider careers in nuclear energy. In his words, “we are the only formalized curriculum offering hands-on opportunities to public and private high school students, to explore and experience the comradery and value of nuclear engineering and nuclear medicine in the US. Our program is about to begin its 5th year, and has garnered $660,000 in scholarship awards, and over 20 1st place trophies in state, regional and international science fairs and competitions. Our all-volunteer staff, and student body, has built an ion-collider based on the Farnsworth Fusor capable of $1 \times 10^5$ Neutron Output, (which translates to a couple hundred millirem an hour at best) and yet with this modest amount of flux, we are actually able to scale and perform university level research. Seattle University has announced they will be pursuing a collider based on our design late this year, as has East Side Preparatory Academy in Kirkland.”

A “Seattle Nuclear Night” has been planned for June 19th as a joint partnership between the Chapter and the Puget Sound Section of the American Nuclear Society. This event hopes to draw a wide cross section of nuclear focused professionals from the Seattle area and foster relationships between memberships of both societies. Plans are also being made for an Idaho based social/networking event to take place in the September 2015 timeframe.

The Chapter is in the beginning planning stages for an INMM Pacific Northwest Chapter Technical Conference to hopefully be held in the March/April 2016 timeframe. This will be open to all membership at a central location. We are planning for a 1-2 day event. Location and other details are yet to be decided, so more will be reported on this as we finalize these plans.
The PNW Chapter officers are:

President – Sarah Frazar, PNNL
Vice President – Skip Kerschner, PNNL
Secretary/Treasurer – Glenda Ackerman, Dade Moeller
Members at Large - Roberta Burbank and Travis Gitau, PNNL; Sean Morrell, INL
Immediate Past President – Doug Trout, PNNL

Financial Report: Current available Chapter funds are $13,746.58.

Respectfully Submitted,

Glenda Ackerman
Glenda Ackerman, Secretary/Treasurer
INMM PNW Chapter
INMM Southeast Chapter Report

July, 2015

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), John Dewes (Corporate Liaison), Paul Ebel (Educational Outreach Officer), Rich Koenig (Nominations and Elections Chair)

SOUTHEAST CHAPTER MEETINGS:

The Southeast Chapter of INMM held a local chapter meeting at the annual INMM meeting in Atlanta in July, 2014 along with a no-host dinner at Max Lager’s. Twenty-six local chapter members attended the meeting.

An Executive Committee Meeting was held in N. Augusta, SC on August 28, 2014. Committee members in attendance were: Kerry Dunn, Glenn Abramczyk, Lindsay Sexton, Bradley Loftin, Rick Poland, Jeff Allender, and John Dewes.

Michelle Romano provided a tour of the NRC Region II Incident Response Center to nine Georgia Institute of Technology students on Friday, October 17, 2014. The tour was followed by a question and answer session with Michelle on careers in the nuclear industry.

An Executive Committee Meeting was held in Aiken, SC on December 22, 2014. Committee members in attendance were: Kerry Dunn, Lindsay Sexton, Bradley Loftin, Jeff Allender, John Dewes, Paul Ebel, Paul Cloessner, Steve Wyrick, Steve Bellamy, Michelle Romano (via Phone).

An Executive Committee Meeting was held in Aiken, SC on March 26, 2015. Committee members in attendance were: Glenn Abramczyk, Jeff Allender, Steve Bellamy, John Dewes, Kerry Dunn, Paul Ebel, Bradley Loftin, Michelle Romano (via Phone), Steve Wyrick (via Phone)

A Southeast Chapter meeting of INMM for all members will be held at the 56th Annual Meeting of INMM on July 15.
SUMMARY OF SOUTHEAST CHAPTER MEETINGS:

We continue to work with student chapters (Georgia Institute of Technology and North Carolina State University Triangle-areas Universities in particular). Southeast members are encouraged to give talks to students if ever travelling close to a college or university. We desire to become more engaged with these student chapters and are trying to identify areas where we can improve to provide student chapters monetary scholarships and/or assistance in attending conferences.

• Several items were reported from the INMM Business meeting in July 2014:
  o In July 2014, Steve Bellamy and Michelle Romano were recognized as Senior Members of INMM
  o SRNL was recognized as a sustaining member
  o Steve Wyrick was elected as a Member at Large for INMM (2 year position)
  o Steve Bellamy was recognized for involvement with PATRAM last year
  o Steve Wyrick won a free membership to INMM next year

• The SE Chapter of INMM recognized the passing of Jeff Jay, a longtime member and supporter of INMM. Jeff battled Sporadic Creutzfeldt-Jakob Disease (CJD) for many months. He passed away on Saturday, August 23, 2014. Flowers were sent from the chapter to Jeff’s memorial.

• The entities that helped to cover expenses at the Annual meeting for the GA Tech tours and the showing of Pandora’s Promise (SRNL and Tetra Tech) were recognized.

• Georgia Institute of Technology and NRC were recognized for providing tours for conference attendees.

Tours
• Michelle Romano provided a tour of NRC in October 2014
  o 8-10 GA Tech students were taken on NRC tour (Chem.E. and Nuc.E Masters and Ph.D. majors)
  o 6-7 NRC employees gave talks on what they do and their backgrounds
  o Toured the incident response center
  o Michelle gave an overview of NRC and hiring process, networking opportunities, and the Nuclear Safety Professional Development Program
  o Additional items that came out of visit:
    ▪ Michelle has also contacted the North American Young Generation in Nuclear (NAYGN) to see how our organizations can work together in the future
    ▪ Should reach out to policy majors at GATech and UGA for future tours

Workshop
• Ideas for a workshop are still being discussed:
  o Partner with CNTA on Nuclear Education workshop
  o Discussed change of location for Security Culture workshop and/or an expansion of the topic: Security Culture / Insider Threat
  o Other items to start considering:
    ▪ Speakers, format, interactive activity
    ▪ Do we need a DOE sponsor or approval
    ▪ Target date – FY16
Website
- A draft website has been completed. Waiting for final approval.
- INMM HQ has to "approve" the website content and once approved, the SE Chapter Secretary can send out the link for the website to SE Chapter members.
- INMM HQ will be creating and maintaining the website with the content and direction provided by Allender.
- Hope to help Southeast student chapters with their information like provide links on our website, etc.

56th INMM Annual Meeting
- Discussed SRNL Sponsorship for the 56th INMM Annual Meeting
  - Items to consider include:
    - Booth space (2 booths usually)
    - Moving materials to Indian Wells for the booths
    - SRNL Sustaining Chapter was funded
    - Potential to resume golf tournament – we will explore having SRNL and the SE Chapter sponsor a golf tournament for the 2016 Annual Meeting in Atlanta

Webinars
- SE Chapter working to have some webinars for students. Maybe in the form of a seminar that is given and recorded so that others can view at a later date.
- Something will be pulled together regarding packaging that might be useful for a webinar. Will pulse INMM fellows to ask for help in this area.

Budget
Balance as of October 28, 2014:

Checking Acct. $3,185.72
CD $1,047.47

Total assets $4,233.19

Respectfully submitted,

Kerry Dunn
Institute of Nuclear Materials Management
Southeast Chapter President
Savannah River National Laboratory
Aiken, South Carolina 29808
1. Introduction

Since our last report to the EC, we have had one technical meeting, attended the Central Region Chapter’s spring meeting, and have continued multiple collaborations with our domestic and international colleagues. These collaborations have largely focused on preparing joint research for the upcoming Annual meeting, as well as exploring additional avenues that we can work together throughout the academic year.

2.1 Chapter Events

In February,

The technical meeting was canceled due to inclement weather that resulted in the University closing. Dr. Donald Kovacic, of the International Safeguards group at ORNL, had been the scheduled guest speaker, and we plan to invite him to speak to our chapter in the fall.

In March,

UT INMM students attended the Central Region Chapter Spring meeting focused on the Nuclear Fuel Cycle, and 70 years of managing nuclear materials and weapons. The event was hosted at the Howard Baker Center at the University of Tennessee, and provided students an educational networking opportunity.

Also in March, we held our technical meeting with a presentation from our visiting research fellow Dr. Yakubu Viva Ibrahim of Ahmadu Bello University, Nigeria. His presentation, “Why Bother with Nuclear Security?”, gave an overview of Nigeria’s nuclear infrastructure and security culture, and how Nigeria is addressing the issues of nuclear security and materials management.
At the same meeting, elections were held for the 2015-2016 UTK INMM executive committee. The election results are listed in Section 3: Current Officers.

In April and May, UTK INMM continued to work on our joint research efforts with our international and domestic partners to prepare for the upcoming meeting. The new EC has also began to plan events for the upcoming year, as well as additional fundraising methods that will allow for more outreach.

2.2 Future Events

Several of our planned future events center around the upcoming annual meeting. UTK INMM has 3 joint presentations with international partners, including 2 students papers and 1 student-faculty presentation.

At the annual meeting, UTK INMM with Texas A&M’s student chapter is planning to host an invite only student social. This event will be focused on providing students from around the world an opportunity to develop relationships, both professionally and socially. This social will also attempt to have a student majority audience, with a few professionals, to attempt to create an open environment where students can interact freely. We plan to do “icebreaker” exercises, such as a team quiz bowl, to help encourage interactions between student chapters.

3. Current Officers

Hannah Hale  
President  
hhale4@vols.utk.edu

Stephen Dahunsi  
Vice President  
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4. **Financial Statement**

Financial resources at the end of the academic year for the chapter total approximately $300. Planned fundraising efforts include continuing the sale of chapter-sponsored logo shirts for the UT Institute for Nuclear Security, as well as creative fundraising opportunities this fall. Since our last report, we have yet to seek corporate and professional sponsorship, though those plans are moving forward presently. Debate is ongoing whether or not to institute chapter dues, which are likely in FY16.

5. **Membership**

Chapter membership remains free to members who have registered with the National INMM. However, our chapter is considering instituting dues in the upcoming year. We continue to encourage our members to present their research at our Central Chapter meetings as well as the Annual Meeting.

Attendance at our meetings is between 15 and 30, depending on the time of year and scheduling conflicts. Competition with the three other nuclear student organizations (American Nuclear Society, Health Physics Society, and Women in Nuclear) has been minimized through the use of departmental scheduling coordination.

Respectfully submitted,

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NAC’s Standing Committee on International Security of Nuclear and Radioactive Materials in cooperation with George Washington University’s Elliott School of International Affairs and the Northeast Chapter, held a workshop on Reducing the Risk from Radioactive and Nuclear Materials (17-18 March 2015) in Washington DC. Galya Balatsky (LANL) and Joe Rivers (USNRC) reported an attendance of just over 50 participants from universities, National Labs, the U.S. government, NGO’s and three foreign countries. National Nuclear Security Administration Representatives (David Huizenga, Principal Assistant Deputy Administrator for Defense Nuclear Nonproliferation, and Jeffrey Chamberlin from the Materials Management and Mitigation Program) and the U.S Nuclear Regulatory Commission (Christiana Lui, Director of the Division of Security Policy) addressed the group, who considered a broad range of topics including perceptions of nuclear risk, the changing relationship with Russia on nuclear security, nuclear security strategy, safeguards, insider threats and cyber security.

The results of the workshop held during the ESARDA/VTM Working Group meeting (19-20 November 2014) in Ispra, Italy was reported by Kier Allen (AWE) at the 2015 ESARDA Symposium in Manchester, U.K. This meeting mixed together international safeguards expertise with experts that have experience in arms control policy and verification. It has helped focus the effort for an upcoming meeting at Lawrence Livermore National Laboratory’s Center for Global Security Research (10 July 2015) and a planned topical session at the next INM/ESARDA meeting in Jackson Hole.

We are pleased to report that Ambassador Rafael Grossi (Argentina and Chairman of the Nuclear Suppliers Group) had agreed to join the 2015 Technical Division Meeting for informal discussions on topics related to nonproliferation, the Nuclear Security Summit, Convention on Nuclear Safety and the Nuclear Suppliers Group.

Respectfully submitted,

Mona Dreicer, Chair, Nonproliferation and Arms Control Technical Division
Kelsey Hartigan, Deputy
Teri Leffer, Secretary
Galya Balatsky, Chair, Standing Committee on International Security of Nuclear and Radioactive Materials
Kevin Whattam, Strategic Trade Controls