

ANS Nuclear Nonproliferation Technical Group

Spring 2013 Newsletter

Note from the Chair

Welcome to the first of what we hope to be a bi-annual Nuclear Nonproliferation Technical Group (NNTG) newsletter. NNTG is the newest Technical Group within the American Nuclear Society (ANS). Our mission is to enhance the technical prowess of the ANS by fostering the application of technology to address nonproliferation-related problems and issues. It's kind of like the old BASF advertisement – "We don't make the products, we make the products BETTER." As a group, we seek to enhance our members' understanding of nonproliferation issues in the hope that we can use our knowledge to help solve problems and issues in nonproliferation.

That said, we need your help as members to accomplish this mission. Tell us how we can help develop your knowledge and understanding of nonproliferation, and associated issues and problems. As the former Special Committee on Nuclear Nonproliferation, we had an excellent track record of sponsoring panels and sessions at national meetings under the sponsorship of the Fuel Cycle and Waste Management division. We hope to continue this trend as we grow into a stand-alone division. Ideas and suggestions for topics to cover are always welcome.

I would also like to invite you to our first Embedded Topical Meeting in Washington, D.C. this fall. Washington is a logical place to emphasize nonproliferation topics given the easy access to government personnel who work in this area. It should prove to be

an excellent learning opportunity for our members.



John Dewes
Chairman, 2012-2013

Get Involved in NNTG

It's always exciting to be part of a new group. Hopefully, that's the case with our NNTG the new discipline within our professional society. If things go well, in a few years I hope to see us become the newest professional division of the American Nuclear Society. Of course, being new also means growing pains, as we work to establish our role and develop relationships within our group, with the ANS professional divisions, and with the society's leadership and staff. We may stumble from time to time, but that's what growing and learning is all about.

I want us to build a strong, vibrant and inclusive technical group. I think we are off to a good start behind the leadership of John Gunning and John Dewes. Ultimately, however, our fate will be up to the members. I encourage you to get involved in the technical group in one way or another. If you can, come to our technical group meetings on the Sunday prior to the ANS annual and winter meetings. Pick out an area and help out – program committee,

newsletter, planning, publicity, honors and awards, membership, website, scholarship, etc. We are just getting started, and we need your contribution. If you have a good idea, bring it forward and help put it into practice. Encourage your friends and co-workers to join ANS and the NNTG. If you are interested in a leadership role, run for an office.

Ultimately, our success and growth depends on how well we bring value to our membership. To do so, we must have good ideas and the actions necessary to implement them. Toward that end, I look forward to working with you over the coming years.



Steve Nesbit
Chairman, 2013-14

To volunteer or learn more about NNTG Subcommittees, email Steve (steve.nesbit@duke-energy.com) or join us at one of the national meetings.

Origins of NNTG

While the NNTG is technically new, we have grown out of the longstanding Special Committee on Nuclear Non-Proliferation (SCNN). SCNN was founded in 1993 by Vanice Perin, who served as chairman until 1999 and remains a member of the committee.

Among the early highlights of SCNN activities was the committee's support for the ANS Blue Ribbon Panel on Disposition of Excess Plutonium. The Blue Ribbon Panel was chartered by the ANS in 1994 to evaluate options for the immediate and long-term protection and management of civilian plutonium and issued its report in 1995. Among the panel's stated goals was to produce a balanced and unbiased study capturing the diverse perspectives of its membership, which included ANS members and non-members alike.

Updating Nuclear Nonproliferation Position Statements

A team with representatives from Fuel Cycle and Waste Management Division (FCWMD) and NNTG is working to update and rewrite Position Statement (PS) 45 Nuclear Fuel Recycling (**ANS-45-2007**). PS 45 was originally adopted in 2002 after several attempts during the 1990s. It was updated in 2007 without substantial changes to the original statement and had limited references and no background information. The revised PS will include appropriate references and background information including discussion of the BRC recommendations on fuel recycle and the information developed in the aftermath of Fukushima related to the MOX fuel performance.

The other major nonproliferation statements (Utilization of Surplus Weapons Plutonium as Mixed Oxide Fuel [**ANS-47-2009**] and Nonproliferation [**ANS-55-2009**]) were updated and approved in 2009 and remain current with excellent references and background information. Periodic review is recommended with full updates in 2 to 4 years. Anyone interested in helping

update or draft position statements can contact Mel Buckner (mbuckner001@comcast.net).

Planning for June Annual Meeting

We hope you can join us in Atlanta June 16-20, 2013. Everyone is welcome at our executive and program meetings — the time and location will be printed in the final conference program.

NNTG is sponsoring two sessions in Atlanta. We are sponsoring a panel Monday afternoon on “Managing the Spectrum of Risks in the Complexities of New Build Nuclear—Call for a New Business Model to Meet the Challenges and Opportunities in the U.S. and International Nuclear Markets” and Tuesday afternoon a paper session titled “Recent Developments with Nuclear Security and Safeguards.”

We encourage you to review the preliminary conference program available on the ANS website to see what else will be happening in Atlanta. Remember, ANS is no longer mailing printed preliminary programs.

Looking Forward to the November Embedded Topical in Washington DC

Our first major project as a technical group is hosting an embedded topical at the November 10-14 meeting in Washington, D.C. The theme is “Nuclear Nonproliferation—First Fission to the Future” and the summary submission deadline for papers is June 14. If you have questions or are interested in participating, feel free to reach out to the General Chair, John Gunning, or the Technical Program Chair, Howard Hall.



John Gunning
gunningje@ornl.gov



Howard Hall
howard.hall@utk.edu

The planned topical sessions are:

1. Opening Plenary Session
2. University Programs for Nuclear Security Education—I
3. University Programs for Nuclear Security Education—II: Highlighting the International Nuclear Security Education Network
4. University Programs for Nuclear Security Education—III: Building the International Workforce-Panel
5. Nuclear Security—National and International Needs-Panel
6. The Global Threat Reduction Initiative—Accomplishments and Challenges
7. The Role and Importance of Policy in Nuclear Security
8. Nuclear Energy Development in the Middle East and North Africa: Strategies for Security, Safeguards, and Nonproliferation-Panel
9. South Asia Nonproliferation: Perspectives, Prospects and Challenges
10. Nuclear Industry’s Role in Nonproliferation Initiatives
11. Uranium Management and Impending Conversion Needs in the U.S.
12. Improving the Assessment of Proliferation Risk of Nuclear Fuel Cycles-Panel

- 13. Recent Developments in Nuclear Safeguards
- 14. Technology Challenges and Solutions
- 15. Tools for Nuclear Nonproliferation

We are also co-sponsoring a panel in the SMR Embedded Topical titled “Nonproliferation and Security for SMRs.”

How to Propose Conference Sessions

Chris Robinson of Oak Ridge National Laboratory (robinsonrc@y12.doe.gov) is the Program Committee Chair for NNTG. However, you can think of the entire NNTG as the Program Committee. Any member can propose, organize or chair a session at an ANS meeting, just follow the steps below. Have a great idea but don't want to chair the session? That's OK; we probably have another member willing to help out.

1. Write a ~100-word description (a paragraph) about the intended session/topic. Specify if it will be a panel or paper session.
2. Submit the summary at the Program Committee meeting or send it to anyone on the leadership team to represent it for you. Sessions are decided on a year in advance (In June 2013 we choose sessions for the June 2014 meeting).
3. Solicit experts to submit summaries by the deadline (usually about six months in advance) of the meeting in which the session will occur.
4. Inform the Program Chair of who will chair the session at the meeting.

Treasurers Report

While our current NNTG financial position is not strong, we look forward to additional income generation from the upcoming fall embedded topical meeting. As or monthly membership allocations come in, we should be in the black soon. Unfortunately, we had a March invoice for past years website expenses that I have included in these financials. This legacy cost will inhibit our finances for the remainder of this year.

	Approved Budget 2013	Actuals Thru Feb 2013
Budget Income		
2012 Carry Forward	\$85.00	\$85.00
2012 Memberships	\$750.00	*\$165.00
Other Division Income	\$0.00	\$0.00
Total Budget Income	\$835.00	\$250.00
Budget Expenses		
Newsletters, Website	\$200.00	**\$429.57
Awards		
National Meeting		
Division Officer Expense		
Student Support		
Scholarships		
Other Expenses		
Total Expenses	\$200.00	\$429.57
Budget Income Over Expenses	\$635.00	(\$179.57)

* Only first 2 months of allocation..

** Known March expense paid. Website expenses were from 2010-12. Remaining 2013 expenses still pending.



Morris Hassler
Treasurer, 2012-13

Your NNTG Leadership Team

We all thank you for joining NNTG and look forward to working with you to build the technical group. Please don't hesitate to reach out to anyone on the leadership team with suggestions or if you'd like to get involved.

Officers

John Dewes – Chair
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Steven Nesbit – Vice Chair
(Steve.Nesbit@duke-energy.com)

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Morris Hassler – Treasurer
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Michaela Eddy, Editor

NNTG website: <http://nn.ans.org/>