

## New NNTG Leadership

Congratulations to our newly elected NNTG leadership who will begin their new roles after the June meeting:

**Chair:** Morris Hassler  
**Vice Chair:** Gene Carpenter, Jr.  
**Secretary:** Lenka Kollar  
**Treasurer:** Shaheen Dewji  
**EC:** Stephen Mladineo  
**EC:** Ross Christopher Robinson  
**EC-Student:** Mateusz Monterial

Executive Committee (EC) members serve a three year term, and are expected to attend a majority of the six meetings that will occur during their term. EC members are involved in development of our technical program, review of position statements, and establishing the direction of the NNTG. From those actively involved in the NNTG, we solicit nominations for Officers. In established divisions, officers generally have an unofficial progression, starting with Treasurer, and then moving to Secretary, Vice Chair, and then Chair over a period of four years.

## NNTG is Looking for a New Newsletter Editor

The NNTG newsletter is a biannual publication which communicates items of potential interest to members as well as NNTG activities. Michaela Hoffman has prepared the first several newsletters but is ready to hand off this role to someone new so she can work more generally on chairing the Communications Committee. The responsibilities of the Newsletter Editor are primarily to receive raw content from NNTG Members, Officers, and Committee Members, as well as creating content. If you are interested, please contact Michaela Hoffman at eddy.michaela@gmail.com.

## Have a Story to Tell?

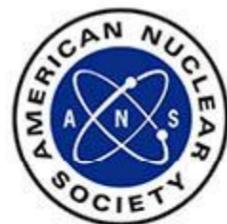
Member contributions to the newsletter are always welcome. We are interested in member written articles about interesting conferences, trainings, insights into current events, or anything else you think other members would like to read. If you would like to be considered for the next newsletter, please contact Michaela Hoffman (eddy.michaela@gmail.com) by August 2014 for publication in the Fall newsletter.



May 2014 Nuclear  
Nonproliferation Technical Group  
Newsletter (Issue No. 3)

Michaela Hoffman, Editor

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



**American Nuclear Society**  
Nuclear Nonproliferation Technical Group



# ANS

# NNTG News

A newsletter of the ANS Nuclear Nonproliferation Technical Group

ISSUE

# 03

May 2014

## Your NNTG Leadership Team

### Officers

Steven Nesbit – Chair  
Steve.Nesbit@duke-energy.com

Morris Hassler – Vice Chair  
hasslerme@y12.doe.gov

Shikha Prasad – Secretary  
shikhaprasad@hotmail.com

C.E. (Gene) Carpenter – Treasurer  
gene.carpenter@nrc.gov

John Dewes – Immediate Past  
Chair john.dewes@sml.doe.gov

### Executive Committee

(Terms Expiring June 2014)

Shaheen Dewji  
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Susan Turner  
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(Terms Expiring June 2015)

Michaela Hoffman  
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Adam Stulberg  
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(Terms Expiring June 2016)

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Lenka Kollar  
lenka.kollar@gmail.com

Sarah Marie Poe  
sarahmpoe@gmail.com

Luc Van Den Durpel

## A Message from the Chair

Greetings to all members of the American Nuclear Society's Nuclear Nonproliferation Technical Group (NNTG). I would like to review some of our past work with you and look ahead to what the future may hold.

The ANS Winter Meeting in Washington, DC last November was a significant event for the society and for NNTG. The meeting commemorated the 75<sup>th</sup> anniversary of the discovery of fission, and many of the plenary speakers featured nonproliferation in their remarks. The winter meeting included NNTG's first Embedded Topical Meeting "First Fission to the Future." I could go on about the 2013 Winter Meeting but I prefer to look forward toward what lies ahead.

First and foremost, I will highlight an important ongoing NNTG initiative. In January we established a Division Transition Committee (DTC) to evaluate and plan for transition of NNTG to full Division status within the Society. Jim Behrens is serving as chair of the DTC, and members include Jeff Brault, John Dewes, John Gunning, Morris Hassler, Michaela Hoffman, Bernie Kirk and Shikha Prasad. When NNTG constituted as a technical group in 2011, it was with the expectation that the technical group would progress to full division status. The NNTG Executive Committee resolved at its November 2013 meeting to pursue this course of action. However, it is not a step to be taken lightly, and there are responsibilities and repercussions associated with such a change. Accordingly, the charter of the DTC is to evaluate the pros, cons and alternatives; identify the necessary actions to support a transition to division and make a plan for accomplishing them; and make appropriate recommendations to the NNTG Executive Committee prior to the ANS Annual Meeting in June 2014. The expectation is that the Executive Committee will act on those recommendations at the annual meeting. The work of the DTC is nearing completion. I want NNTG and any successor organization to be an open and inclusive group, so I invite anyone with input to offer to contact Jim Behrens at jwbehrens@comcast.net.

We also constituted a task force for another project - develop a standard presentation on the subject of nonproliferation. Steve Skutnik is leading this effort, building on work he and Margaret Harding did last year for ANS in the public policy arena. Assisting them are Dave Rossin, Adam Hoffman and Tomi Akindele. I expect the product to be very useful for NNTG and for ANS in its public outreach activities.

A few weeks ago I sent out a message to NNTG seeking those interested in getting involved in three particular areas: Program Committee, Honors and Awards, and Communications. I am gratified by the hearty response. We should be getting in touch with our volunteers soon, if we haven't already, to engage you in these important areas.

Lenka Kollar has taken over as webmaster and she has completely revamped our website. Please visit <http://nn.ans.org/> and check it out. Thanks to Lenka, you can also connect with NNTG on Facebook, Twitter and LinkedIn (all accessible from the website).

The third Nuclear Security Summit was held this spring (see <https://www.nss2014.com/en>). World leaders gathered in The Hague, Netherlands on March 24-25, 2014 to discuss nuclear security matters. The summit was somewhat overshadowed by events in Ukraine but still produced progress in securing and reducing stockpiles of fissile material and strengthening the framework of international cooperation in nonproliferation. There were two previous Nuclear Security Summits: Washington in 2010 and Seoul in 2012. A fourth Nuclear Security Summit is scheduled for Washington in 2016. In addition to the gathering of world leaders, side meetings of nuclear industry and non-governmental organizations are held in conjunction with the primary events. I suggest ANS make it a priority to participate in the "Nuclear Knowledge Summit" of non-governmental organizations in 2016, and NNTG should have the lead role in such an endeavor.

I turn over the reins of the NNTG to the able hands of Morris Hassler after the ANS Annual Meeting in June, so this will be my last "Message from the Chair." I appreciate having had this opportunity to serve the NNTG and the ANS. I encourage everyone in NNTG who is at the Reno meeting to participate in our NNTG Program Committee and Governance meetings on Sunday, June 15. I hope to see many of you there.



Steve Nesbit, Chair

## Nuclear Social Media Presence

By now you've probably heard about how social media has changed the way in which people get information; it is searchable, instant, and free (most of the time). Studies have estimated that a third of adults get their news from various social media outlets. While instant and abundant information is great, it is not always factual and people are too busy to double-check sources.

There are plenty of examples where nuclear-related misinformation has been spread through social media and on the Internet. Classic examples include misrepresentations of radiation clouds and exaggerated mortality rates from nuclear accidents. For this reason, it is important for nuclear professionals to have a presence on social media in order to crowd out misinformation by sharing facts and posts that are well researched and written by experts. The point is not to attack or discredit anti-nuclear activists, but rather to be louder than them on the Internet.

With my blog, [Nuclear Undone](#), I try to explain difficult nuclear topics, including about nonproliferation, in a way in which the public can understand and choose to form their own opinions. I also share some of my personal life on social media so that people can put a "face" to the nuclear field. This isn't necessary but does help humanize our industry. You can share as little or as much as you want on social media and also use it as a tool to connect with your colleagues and even share your (unclassified) research. All of you are doing important work and the world should know about it.

Be sure to join the NNTG [Facebook](#) and [LinkedIn](#) groups and follow ANS on [Twitter](#). If you're new to social media or looking to spruce up your presence, let me know and I'm glad to help!

[Lenka Kollar](#)  
NNTG Executive Committee

## Summer Reading

As the weather warms and we (ostensibly) have more time for leisure reading, I thought it worthwhile to share some NNTG related summer reading suggestions.

**Eating Grass: The Making of the Pakistani Bomb** by Feroz Khan

The story of how and why Pakistan acquired nuclear weapons. A 30-year professional in the Pakistani Army details how the nuclear program was organized, reveals the role played by outside powers in nuclear decisions, and explains how Pakistani scientists overcame the many technical hurdles in the quest to develop nuclear weapons.

**Fukushima: The Story of a Nuclear Disaster** by David Lochbaum, Edwin Lyman and Susan Q. Stranahan  
A thought-provoking and comprehensive account of the 2011 Fukushima nuclear accident.

**Hiroshima** by John Hersey  
Originally published August 31<sup>st</sup> 1946 in *The New Yorker*, this short book tells the stories of six survivors of the Hiroshima atomic bombing. A very quick read which brings a valuable vividness to the effect of nuclear weapons.

**Trinity: A Graphic History of the First Atomic Bomb** by Jonathan Fetter-Vorm  
A graphic history of the first atomic bomb... how could that not make the summer ready list? Enough said.

**The Making of the Atomic Bomb** by Richard Rhodes  
If you haven't yet read it, perhaps this summer is the time to read this classic. Mr. Rhodes was the guest speaker at the 75<sup>th</sup> Anniversary of the Discovery of Fission banquet at the November 2013 ANS Meeting.

[Web-based Reading](#)

**Arms Control Wonk Blog**  
<http://armscontrolwonk.com/>

**NTI Tutorials on NPT and Nonproliferation**  
<http://www.nti.org/treaties-and-regimes/treaty-on-the-non-proliferation-of-nuclear-weapons/>

**ANS Blog**  
<http://ansnuclearcafe.org/>

**Michaela Hoffman**  
NNTG Executive Committee

## Schedule Change for June Meeting in Reno, NV

We hope to see many of you at the upcoming meeting in Reno, NV. For those planning to attend NNTG meetings, we will be tweaking the meeting schedule for this conference only. There will be no Special Advisory Committee on Nuclear Nonproliferation (SACNN) meeting in Reno and instead there will be extended program and governance meetings. All are welcome to attend both meetings.

Sunday, 1:00pm-2:30pm Program Committee Meeting  
Sunday, 2:30pm-4:00pm Governance Meeting

## NNTG on Social Media

For more ways to stay in touch with NNTG, join our Facebook or LinkedIn groups.

<http://www.facebook.com/groups/ansnntg/>  
<http://www.linkedin.com/groups/Nuclear-Nonproliferation-Technical-Group-6509997/about>

## Technical Sessions at Annual Meeting in Reno

NNTG is sponsoring (and co-sponsoring with other divisions) several technical sessions at the June meeting in Reno. Hope to see you there...

Nevada National Security Site (NNSS): Role and Contributions to the Nonproliferation and Global Security Community—Monday afternoon

NNSA Graduate Program (cosponsored by ETWDD/YMG): Past Experiences and Current Highlights—Tuesday morning

Human Reliability in Nuclear and Radiological Systems—Tuesday afternoon

Plutonium Disposition (cosponsored by FCWMD)—The Clear and Present Danger, 20 Years Later—Wednesday morning

Proliferation Risk and Sustainability of Nuclear Energy Systems (cosponsored by FCWMD)—Thursday morning

Radiation Protection and Shielding: General (Sponsored by RPSD cosponsored by NNTG)—Thursday afternoon

## How to Propose Conference Sessions

The Program Committee is chaired by Chris Robinson with committee members Rian Bahran, Steve Mladineo, Alicia Swift, Christie Egnatuk, Luc Van Den Durpel, and Philip Ugorowski. That said, any NNTG 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 November 2013 we choose sessions for the November 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. ([robinsonrc@y12.doe.gov](mailto:robinsonrc@y12.doe.gov))

## Technical sessions for November 2014 Meeting in Anaheim CA

The call for papers is out for the 2014 Winter ANS Meeting at the Disneyland Hotel in Anaheim, CA. Below are the planned sessions. Summaries are due June 13, 2014.

Nuclear Nonproliferation Technical Group (NNTG): General

Integration of Safety-Security-Safeguards (3S) in Nuclear Facilities (with NISD)

International Approaches to Nuclear Nonproliferation and Nuclear Culture and Education (with ETWDD)

Nuclear Industry Role in Nonproliferation Initiatives (with OPD, YMG)

HEU Minimization for Medical Isotope Production (with IRD, YMG)

Nuclear Nonproliferation and Foreign Ownership of U.S. Reactors

New Developments on Nuclear Trade Agreements (with OPD)

International Safeguards for UF6 Containers (with FCWMD)

Global Threat Reduction Initiative (GTRI) Accomplishments & Challenges (with YMG)

Nuclear Data for Nonproliferation and Safeguards Applications (with RPSD, YMG)