



## Farewell

By Jennifer Varnedoe

Dear YMG Members,

Thank you for your continued participation in ANS. The knowledge and skills we each gain from ANS are invaluable. From my experiences at ANS and with you, I have been able to reference industry events in conversations at work with confidence, call on colleagues at other utilities and businesses for operating experience, and gain a wealth of input and advice on work-life balance. I hope that each of you are learning and growing in all of the areas of ANS that interest you as well! Thank you to each of you for all you have taught, shared, discussed, debated, labored,

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read, thought, written, and presented. I have enjoyed being the YMG chair this year and look forward to continued participation in YMG over the years to come!

## A Message from the Executive Director

By Robert Fine, Executive Director of ANS

As the new ANS Executive Director, I am pleased to share my thoughts on the Young Members Group and young members in general. Though I can't claim to be young anymore, I am new to ANS, just as many of you. The advantage of being new, whether to a profession, or an organization like ANS, is that we have "fresh eyes" and new insights that can move all of us forward. As ANS' young members, you are not only the future of the Society, but also the present. You are the present because right now you have ideas and perspectives that can help shape ANS into something better and more relevant for all members.

In my twenty-plus years working in professional societies, I have consistently found young

members to be an exciting and valuable group to work with – you are the ones who often drive innovation and give us the energy and enthusiasm we all need to embrace change and move ahead.



And so, I look forward to learning more about your ideas for ANS not only to do a better job meeting your needs but to serve all our members more effectively.

## Insider's View: ANS National Standing Committees

By Benjamin Holtzman

Standing committees have been established to help accomplish the objectives of the Society. Committee members are appointed by the ANS president, usually with the blessing of the committee chair, with the exception of the Nominating Committee which is appointed by the board of directors. Committee meetings are open to ANS members, which means that you can simply sit-in and participate as an observer. The meeting times and locations are located in the back of National Meeting Conference program (for the June 2012 Annual meeting check [http://www.new.ans.org/meetings/c\\_1](http://www.new.ans.org/meetings/c_1)).

It is recommended to arrive a few minutes early, and introduce yourself to the committee chair as

an observer. Listen in on the meeting, and volunteer for any tasks that sound interesting to you. Committee chairs want enthusiastic members working on their committees. Young members who want to join committees should complete a volunteer form – this is essential as it is viewed as your official statement of interest – where you can expound on why you want to be involved in that committee. It is also highly encouraged to discuss your interest with the current committee chair.

Committees have a set range of members who can serve at one time as committee members, so there are not always openings. There are no restrictions on observers who want to help though.

## ANS Elections Results

Listed below are the officers and Executive members elected for 2012–2013:

**Division Chair:** Gale Hauck

**Vice Chair/Chair-Elect:** Allison Miller

**Secretary:** Elia Merzari

**Treasurer:** Benjamin Holtzman

**New Executive Committee Members:**

Micheal J. Hope

Harsh S. Desai

## ANS Meeting: YMG Events

If you are attending the ANS Annual meeting (June 24<sup>th</sup> – June 28<sup>th</sup> 2012 Hyatt Regency Chicago), consider attending the following events:

**YMG Executive Committee Meeting.** Monday June 25<sup>th</sup> 11:30 am – 1:00 pm, *Location: Comiskey* (at Hyatt Regency, Chicago) – Meet the Officers and Executive Committee Members of YMG. Interact. Get Involved.

**YMG Working Dinner.** Thursday June 28<sup>th</sup> 5:30 pm, *Location: Girl & The Goat* – 809 West Randolph Street Chicago, IL 60607 – YMG has a reservation at Girl & The Goat ([www.girlandthegoat.com/](http://www.girlandthegoat.com/)) one the most popular restaurants in the Chicago area. It is a good occasion to discuss YMG business in an informal setting. You are responsible to pay for your own food and drinks. Availability is on a first come – first served basis. Contact [emerzari@anl.gov](mailto:emerzari@anl.gov) for more information.

## ANS Special Committee on Fukushima

The report of the **ANS Special Committee on Fukushima** was released with a press conference on March 8<sup>th</sup>. “The release of this report is the culmination of a nearly year-long effort by Special Committee members to analyze a range of factors related to what happened at the Fukushima Daiichi facility. The report was officially released at a press conference held on March 8 at the National Press Club in Washington, DC. ANS Executive Director Robert Fine made opening remarks and introductions. Drs. Dale Klein and Mike Corradini, the Special Committee co-chairs, lead the discussion of the report and the Q&A session. Special Committee members Paul Dickman -- who also served as study director -- and Jacopo Buongiorno, lead for regulatory issues, also appeared on the discussion panel.” [from <http://fukushima.ans.org/>]

The full report is available for download at:

<http://fukushima.ans.org/>

Check also the ANS nuclear café for interviews and articles related to the report (such as the following, where ANS President elect Prof. Corradini answers a few questions):

<http://ansnuclearcafe.org/2012/04/03/ans-vice-president-corradini-discusses-ans-fukushima-report/>



## Thermal Hydraulics Research Competition

By Elia Merzari

One of the missions of the American Nuclear Society's Young Members Group is to promote participation of young members in the activities of the society. Boosting the involvement of young members in the technical programs of the society's professional divisions is an important goal in this effort. Every year since 2006, the Thermal Hydraulics Division (THD) and the Young Members Group (YMG) have organized the Thermal Hydraulics Young Professional Research Competition for ANS members with less than 5 years of professional experience after graduation or younger than 35 years old.

The competition is also open to graduate students, but the first author of the summary is expected to present the work and be largely responsible for the research conducted. Participants submit a summary to the ANS Winter Meeting, which undergoes the

usual peer-review process. The accepted summaries and the corresponding presentations are then critiqued by a panel of judges organized by the THD at the winter meeting. The winner receives a plaque furnished by the THD.

The competition has enjoyed a growing success, in each of the last two years receiving 14 submissions or more. The majority of these summaries are from graduate students, but a growing number of papers come from professionals working in national laboratories, research centers, and industry. The competition has proven to be an effective means for YMG members to become involved in THD activities—and *vice versa*. For example, I began my involvement in the YMG because of the competition, while, in turn, the THD also benefitted from the competition, with a significant increase in summary submissions

observed in recent meetings, most of which are from young members.

Nathaniel Salpeter, the 2011 Winner, had this to say about the competition: “The Young Professional Thermal Hydraulics Competition was a constructive experience that provided a great platform not just for presenting my own research, but also for engaging with many extremely talented peers in a mutually beneficial setting where high quality research presentations, constructive peer review, and interaction with nuclear industry champions combine to form a model professional development competition.” Overall, the Thermal Hydraulics Young Professional Research Competition is a remarkable

success story of cooperation between the YMG and the technical divisions. Experience has shown that the dedication of some key people is essential. If you wish to volunteer to organize this competition or a similar one sponsored by a different division, please don't hesitate to contact us. We are always looking to expand on this positive experience! **The next Thermal Hydraulics Young Professional Research Competition will be held in San Diego in conjunction with the ANS Winter Meeting in November (November 11<sup>th</sup> -November 15th).** For more information, check the competition announcement or contact Wade Marcum ([wade.marcum@oregonstate.edu](mailto:wade.marcum@oregonstate.edu)). **The deadline for submission is the same as the ANS Winter meeting – Hurry!**

## David Pointer Honored

David Pointer, principal nuclear engineer at Argonne National Laboratory and the founding chair of the American Nuclear Society's Young Members Group (YMG), was honored with the **2012 ANS Landis Young Member Engineering Achievement Award**. The award recognizes an individual who has made significant technical contributions in any one of the many engineering disciplines served by ANS (<http://www.new.ans.org/honors/va-yngmbreng>).

Pointer received the award in recognition of his outstanding young career, exceptional technical achievements, and excellence in leadership to support the development of next-generation simulation tools on high-performance computing platforms. He is currently the technical lead in the development of the [SHARP toolset](#), an integrated code able to address reactor multi-physics problems (thermal-hydraulics, neutronics, structural mechanics) in a fully coupled manner. Among his numerous achievements are notably the development of innovative aerodynamic solutions for trailer-trucks, the development of multi-phase computational fluid dynamics models, and ground-breaking simulations of large-scale sodium fast

reactor assemblies. Pointer also received the **YMG Excellence Award in 2007**. A long-time member of YMG, and now a supporter of its mission, he exemplifies how YMG can be instrumental in promoting and fostering a young professional's career through ANS. He had this



to say about his vision of the role of YMG and how it helped him:

*“The ANS Young Members Group was established to enable the next generation of nuclear professionals to reap the full benefits of active involvement in the Society much earlier in their careers. My involvement in YMG has enabled me to take a much more active role in the development of my career, and I credit much of my success to the strong relationships I've forged through YMG.”*

The Landis Award will be presented to Pointer at the ANS Annual Meeting in Chicago, in June. Join us there to toast Dave Pointer for this prestigious achievement!

## Nuclear Engineering PE Exam Review at June ANS Meeting

By Jennifer Varnedoe

Ready for the next leap in your career? Who doesn't like extra letters after their name? Well then, why not get a Professional Engineer license?

As the National Society of Professional Engineers (NSPE) states:

*"Just as the CPA defines the accountant, and a law license defines the lawyer, the PE license tells the public that you have mastered the critical elements of your profession. It demonstrates your commitment to the highest standards of engineering practice. The PE after your name is an advantage that will open doors for the rest of your life."*

Four good reasons from NSPE to get licensed:

**Prestige:** PEs are respected by the public and are seen in the same positive light as those licensed professionals in other fields. PEs are also held in high esteem by their peers in the engineering community, who see a licensed PE as part of an elite group.

**Career development:** Employers are impressed with engineers who have their PE license. Licensure not only enhances your stature, it shows commitment to the profession and demonstrates heightened leadership and management skills. Licensure is also a necessity for rising to increased levels of authority and responsibility.

**Flexibility:** Having a PE license opens up your career options. You can become a specialist, or establish your own business. It also protects you during industry downsizing or outsourcing.

**Money:** Studies have shown that PEs earn higher pay throughout their business careers. Having your PE allows expanded opportunities beyond a company structure—as an independent consultant, for example.

The American Nuclear Society periodically offers workshops through the Professional Development Committee to help you get your mind wrapped around the "administrivia" of taking the nuclear PE exam and the actual exam content. The workshops cover how to register for the exam and how the process differs from state to state, and provides an overview of the exam formats. For each of the four basic skill areas—nuclear power, nuclear fuel cycle, interaction of radiation, and nuclear criticality/kinetics/neutronics—the instructor walks through the topics and the skills tested within each topic. During the course, example questions are presented in depth, and you'll have an opportunity to work some problems on your own and then review them with the group.

And the best part... [drumroll, please!]

ANS will provide you with a study guide, including a sample exam, along with additional helpful resources! In addition to assisting you in preparing for the test, ANS supports the development of the test as well. So, once you get your license, you can step up and be instrumental in developing and grading the test. What a great way to give back to the profession!

Please join us in Chicago for the next "*Preparing for the Nuclear Engineering Professional Engineering Exam*" session at the June ANS Meeting. The session will be held on Sunday, June 24, 2012, from 8:30 am to 5:00 pm.

**NOTE:** If you are not attending the ANS meeting in June to participate in the workshop, you can order a copy of the newly revised PE study guide—as a downloadable PDF file, or as a CD-ROM or a hard-copy three-ring binder version mailed to you—from the ANS Store .

## Coming Up

**2012 ANS Annual Meeting:** The next ANS annual meeting will be held in Chicago at the Hyatt Regency Chicago Hotel between June 24<sup>th</sup> 2012 and June 28<sup>th</sup>. The program is available at [http://www.new.ans.org/meetings/c\\_1](http://www.new.ans.org/meetings/c_1). There is still time to register. We hope to see you there.

**YMG Awards Deadline:** You are still in time to submit nominations for:

1. the YMG Young Member Excellence Award (<http://www.new.ans.org/honors/va-yngmbrexel>) and,
2. the YMG Young Member Advancement Award (<http://www.new.ans.org/honors/va-yngmbradvance>).

Nominations are due July 1<sup>st</sup>. Consult the websites for instructions

**IYNC 2012:** The International Youth Nuclear Congress (IYNC) and the North American Young Generation in Nuclear (NA-YGN) invites you to attend the 7th International Youth Nuclear Congress IYNC2012. The congress will be held in Charlotte, North Carolina, USA from 5 - 11 August 2012. A series of congresses have been held every two years since 2000: Slovakia (2000), South Korea (2002), Canada (2004), Sweden/Finland (2006), Switzerland (2008) and South Africa (2010). Register by **July 13th**, to receive the special early bird rate for young professionals (525\$).

**NA-YGN Career Report:** The North American Young Generation in Nuclear (NA-YGN) is pleased to announce the public issuance of the 2012 NA-YGN Career Report. You can find the report on the NA-YGN website at:

<http://www.na-ygn.org/voiceofygn/docs/NA-YGN%20Career%20Report%202012.pdf>

This report represents data from over 1400 NA-YGN members from all across the United States and Canada. NA-YGN members are young professionals in different nuclear-related job functions and companies all across nuclear science and technology. The report addresses responses from young nuclear professionals on topics including demographics, salary, job satisfaction, work hours, and NA-YGN satisfaction. Questions or comments? Contact [benchmarking@na-ygn.org](mailto:benchmarking@na-ygn.org).

**C3E Awards:** The C3E is a program of the Clean Energy Ministerial, a 24 government program to advance clean energy worldwide. The goal of C3E is to attract more women to clean energy careers and elevate role models who can inspire and help advance the careers of younger professionals in clean energy disciplines. More information at [www.C3Eawards.org](http://www.C3Eawards.org). If you have questions or would like more information please email [r.slaybaugh@gmail.com](mailto:r.slaybaugh@gmail.com).

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