



## Foreword

By Elia Merzari

Dear Colleagues,

In this issue we welcome our new YMG Chair Gale Hauck (Westinghouse). You can find a short interview with her right after this foreword.

It's an exciting time to be an ANS young member, there are plenty of opportunities to volunteer at the national and local level. One of our members discusses her experience on page 2. On the same page you may also find a partial list of national committees. Most of these committees are looking for volunteers.

## Meet the Chair

By Elia Merzari & Gale Hauck



Gale Hauck (left picture), product manager at Westinghouse Electric Company, is the new chair of YMG.

Elia Merzari caught up with her and asked her to introduce herself, as well as her plans for the YMG.

**Elia:** Hi Gale. We are excited to have this opportunity to know you better. Can you tell us a bit about yourself? How did you get involved with ANS and YMG?

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Page 3 features highlights from IYNC 2012 and the announcement of the YMG 2012 awards.

Do not forget to check the Coming Up section for announcements and opportunities.

**Gale:** I got involved with the American Nuclear Society during my undergrad work at Rensselaer Polytechnic Institute because I heard they had free pizza at their meetings! But I kept going because I discovered that I really enjoyed working with others that were as interested and passionate about nuclear science and technology as I was. Once I started attending national meetings regularly, it snowballed from there.

**Elia:** What are your priorities as YMG chair?

**Gale:** I want to continue the great focus YMG has had on integrating new members into ANS, and making the transition from student to professional member as straightforward as possible. We are currently updating the strategic plan, and I will be focusing on what we can do to best serve our membership.

**Elia: You have become YMG chair while ANS is undergoing some dramatic changes. What are your thoughts on how young members should approach their membership at ANS ?**

Gale: These are exciting times! My best advice for young members is: Remember that your opinion is important to the ANS. Don't be afraid to speak up and let others know what you think. ANS isn't a "good ol' boys" club—that sort of model is not sustainable. ANS realizes that meeting the needs of young members is extremely important.

## Highlights from IYNC 2012

by Micheal Hope

From August 5 through August 11 a record number 600+ young nuclear professional gathered at the Westin Hotel in Charlotte, North Carolina for the 2012 International Young Nuclear Congress (IYNC). The North American Young Generation in Nuclear (NA-YGN) hosted the biannual event that included a professional development track, workshops, and technical paper presentations. The theme for the conference was Strategic Planning. The conference opened on Sunday with IYNC games which included a scavenger hunt through downtown Charlotte. The opening reception was held at the Mint Museum on Sunday night. The highlights from Monday included the opening plenary session and a networking event at the VGBG. Tuesday and Wednesday were filled with interesting and interactive workshops.

The technical program included also very well attended technical sessions that covered the whole range of nuclear engineering.

### ***Next YMG EC Meeting***

***Monday, November 12<sup>th</sup> 2012***

*San Diego (CA), Town and Country Resort,*

*Room: TBA, Time: 11:30 am*

Let people know what your needs are.

**Elia: Do you have any message for our Young Members?**

Gale: It is such a blessing to be a young member in the ANS at this time; we have so many experienced members that would be thrilled to share their knowledge with you. Don't squander your opportunity to learn from these folks. Take the first step—reach out, ask questions, and discover something new. You'll be happy you did.



The final networking event was on Thursday with a Farewell dinner at the Westin Hotel. It was also announced on Thursday that Spain will host IYNC 2014.

On Friday, participants were able to go on the several tours:

1. EPRI and UNC Charlotte EPIC building;
2. Westinghouse Uranium Fuel Fabrication;
3. Duke Energy's Nuclear Power Plant and Siemens's Turbine Manufacturing (**top picture**);
4. Palmetto Health Radiological Medicine and Surgery;
5. University of South Carolina Engineering Research Tour;
6. SCE&G's V.C. Summer Units 2 & 3 New Nuclear Construction Tour.

The conference concluded with a team building event with white-water rafting. The week was filled with a unique once in a life-time opportunity to meet and network with young nuclear professionals from around the world. We are looking forward to seeing everyone in Spain in 2014.

## Volunteering for National Committees: An Experience

by Rachel Slaybaugh

**Did you know that there are 21 committees (and 5 special committees) in the ANS in which students and young members can participate?** These committees encompass a wide range of activities, from informing the public and drafting policy statements, to writing standards, to helping underprivileged students, to society governance activities. Whatever your interests are, there is likely a committee that would be a good fit for you.

**Great, there are all these committees, but do they want us to participate?** Yes! Committees generally welcome student and young members. Many committees already have a process, or even a requirement, to include a student and/or young member. There is not a limit on the number of students and/or young members who can serve on a committee (the standards committee is an exception). Additionally, ANS leadership strongly encourages committees to incorporate students and young members.

**All right, so maybe they want me. How do I get involved?** If you are interested in a committee, you can start by attending a few of their meetings to see what they actually do. If you decide you

want to join, you can fill out a volunteer form on the ANS website. Each year the ANS vice-president meets with the committee chairs to discuss who should be appointed to their committee. *It is a good idea to introduce yourself to the chair of the committee you want to join and tell them you plan to sign up.* That way they will know who you are when the vice-president asks who they want on their committee.

I have been involved with a variety of committees for quite some time. Over that time I have gotten to help make a difference. For example, since I've been on the NEED committee we've increased the amount of the 10 scholarships the committee offers from \$4000 to \$5000. We have also increased the number of female students who are supported to attend the national meetings. We used to support two students a year at \$400, now we support 6 at \$550. These are just a few examples from just one committee. I encourage you to get involved with the things you feel are important. It does matter. If you have any questions, please feel free to email me ([r.slaybaugh@gmail.com](mailto:r.slaybaugh@gmail.com)) and I would be happy to talk about your options with you.

### How-To: Where to Find Committee Info

If you want to find a full list of committees check the ANS website at:

<http://www.new.ans.org/about/committees/>

This include among others:

[Bylaws and Rules](#), [Honors and Awards](#),  
[Membership](#), [National Program](#), [Publications](#)  
[Steering](#), [Standards Board](#), [Student Sections](#)

By clicking on each committee you find a description of the committee and contact information for the chair. If you are interested in serving as a committee member do not hesitate to inquire with the committee chair for vacancies!

## Announcing the YMG 2012 National Awards

by Tim Gnad

The Young Member's Group (YMG) has announced the recipients for the 2012 Young Members Advancement Award and the Young Member's Excellence Award.

The recipient of the Young Member's Advancement Award is the Thermal and Hydraulics Division of the ANS. The Division received the award because in recent years they demonstrated strong support of the activities of the YMG.

Since 2006 the Thermal and Hydraulics Division (THD) has been collaborating with the YMG to organize an annual research competition just for young members, the Thermal Hydraulics Young Professional Research Competition. This competition has enjoyed continued success over the years and has been one of the key events in the technical program within the THD. The competition also promotes the exchange of information and ideas between experiences and young professionals and has created an informal, but very effective, mentoring program.

The 2012 Young Members Excellence Award is being awarded to Elia Merzari. Dr. Merzari receives the award for his technical accomplishments, volunteer contributions to the ANS and dedication to expanding opportunities

for young member involvement.

His technical accomplishments include internationally recognized work on demonstrating the applicability of advanced computational fluid dynamics methods to the analysis of a variety of advanced reactor fuel assembly designs and 14 published articles in referenced journals in his short career.

His ANS volunteer work includes work with the THD as a session organizer, session chair and paper reviewer; and the YMG as the secretary. His contribution to the advancement of young members includes his undertaking the revitalization of the THD's Young Member's Paper Contest, expanding the contest from a single entry to two full sessions at the ANS winter meetings.

Please join us in congratulating the Thermal Hydraulics Division and Dr. Merzari in their accomplishments and thanking them for their contributions to the YMG.

Do you know anybody that should be considered for these awards? It's never too early to think about next year's nominations! Contact me for more information ([tgnadt@mac.com](mailto:tgnadt@mac.com)).

## Letter from the Board

by Angie Howard

Dear All Young Members of ANS,

I am pleased to introduce myself to you. I was elected to the ANS Board and began my term in June of this year. President Corradini has asked me to be the liaison from the ANS Board to the Young Member Group. I am delighted to have the opportunity to work with you and get to know you all. I began my career in 1969 with Duke

Power, working in community outreach, first at the Oconee Nuclear Station then across the Carolinas.

I experienced the public concern from the TMI accident, and in 1980 joined INPO to be part of the start up team there. I directed the Communications and Info Systems Division, plus was engaged in the creation of the World Association of Nuclear Operators (WANO) after the

Chernobyl accident. I moved in 1996 from INPO to the Nuclear Energy Institute to complete my career in the policy arena. Among the things I am particularly proud of from my NEI days is the establishment of the North American Young Generation in Nuclear and Women in Nuclear. With NA-YGN came the closer association with the ANS Young Member Group. I retired from NEI in 2009, and since then have been consulting within the industry. I live in Arnold, MD, near Annapolis and not very far from Washington.

## Coming Up

### World Nuclear University Summer Institute – Application Deadlines are Fast Approaching

The WNU Summer Institute is an intensive six-week nuclear leadership development program held annually at Christ Church, a leading college of Oxford University and organized by the WNU Coordinating Centre in London, in cooperation with the Founding Supporters (IAEA, OECD/NEA, WANO, WNA). The WNU SI program is aimed at nuclear professionals between 27 and 37 years of age.

Applications are now open for the WNU Summer Institute 2013. The official announcement is attached. The deadline for applications will be 16 November 2012 for IAEA funding and 31 January 2013 for self- or company-funded places. More information is available at <http://www.world-nuclear-university.org>.



My husband and I have two children, a daughter 28 who is starting a full time MBA program at University of Maryland this month, and a son 23 who is still at UMD working on a business degree. We garden intensely, year round.

Please feel free to contact me at any time and to engage me as you see appropriate in your activities. I look forward to meeting with you in San Diego at the upcoming ANS Winter meeting ([angie.howard@comcast.net](mailto:angie.howard@comcast.net)).

### Announcing the Technical Corner

Do you have some cool research/ result/ new work that might interest our new members? For the next edition of the newsletter an entire page will be dedicated to the work of a young member selected among proposed submissions.

For more information contact Elia Merzari ([emerzari@anl.gov](mailto:emerzari@anl.gov)).

### ANS Winter Meeting Coming Up

The Next ANS Meeting will be held in San Diego at the Town & Country Hotel & Resort from November 11 to November 15 2012. Two embedded topical meetings will be featured in the technical program: “Advances in Thermal Hydraulics 2012” and “International Meeting on Severe Accident Assessment and Management: Lessons Learned from Fukushima Dai-ichi”.

Newsletter prepared

by:

**Elia Merzari**

Argonne National

Laboratory

[emerzari@anl.gov](mailto:emerzari@anl.gov)



## THE NINTH ANNUAL WNU SUMMER INSTITUTE

29 June - 10 August 2013

Christ Church, Oxford University, UK



A unique career development programme  
for future world leaders in nuclear science and technology

Organized by the WNU Coordinating Centre  
in cooperation with WNA, IAEA, NEA and WANO  
and hosted at Christ Church, Oxford University

### **Applications are invited for the WNU Summer Institute 2013**

The WNU Summer Institute (WNU SI) is a six-week nuclear leadership development programme held annually at Christ Church, a leading college of Oxford University.

Participants in the Summer Institute are known as WNU Fellows. The WNU SI programme is designed to expand their horizons across the full spectrum of issues surrounding nuclear energy. Built on a foundation of instruction from some of the world's foremost leaders in science, engineering and the global environment, the programme is augmented by team-building exercises and a week-long technical tour of nuclear and related facilities.

Each WNU Summer Institute involves some 80 WNU Fellows, selected from promising nuclear professionals who have demonstrated strong leadership potential. The WNU SI programme is aimed at nuclear professionals between 27 and 37 years of age.

Since the Summer Institute's inception in 2005, over 700 Fellows from more than 70 countries have completed the WNU SI programme. Former WNU Fellows become part of an expanding global network of future leaders in the nuclear profession.

The World Nuclear University is a partnership of the world's leading institutions of nuclear learning and four Founding Supporters – WNA, IAEA, NEA, and WANO. The WNU Summer Institute is organized by the WNU Coordinating Centre in London, in cooperation with the Founding Supporters.

The WNU Summer Institute curriculum provides cutting-edge presentations on the full range of topics relevant to the future of nuclear technology:

◆ **Global Setting**, including energy supply and demand, global warming and climate change, nuclear technology in sustainable development, lessons in public acceptance, and key political issues and trends

◆ **International Regimes**, including safety, radiological protection, non-proliferation and security, waste management, transport, and nuclear law

◆ **Technology Innovation**, including current and next-generation reactors, advanced fuel cycle, waste management, hydrogen production, desalination, advanced battery power

◆ **Nuclear Industry Operations**, including operational safety and excellence, the nuclear fuel market, industry economics and knowledge management

On successful completion of the course, each Fellow will receive a WNU Certificate and such professional credit as may be awarded by that Fellow's own employer.

For details and an application form, please visit the WNU website ([www.world-nuclear-university.org](http://www.world-nuclear-university.org)). **Applications must be emailed to the WNU Coordinating Centre by 16 November 2012 for IAEA funding and 31 January 2013 for self- or company-funded places.**

#### Comments from recent WNU Fellows:

*"The SI is a once-in-a-lifetime opportunity to build an international peer network of nuclear professionals from all over the world and from all areas of the nuclear industry."*

*"It may very possibly become the most positive, dynamic, learning experience of your life."*

WNU Fellowship applicants must provide evidence of meeting ALL the following requirements:

- 1) Currently employed in the industry, with at least 3-4 years of relevant work experience in the nuclear industry or in government
- 2) Master's degree in science, engineering, or business; or reactor operator's licence; or equivalent experience
- 3) Knowledge of nuclear fundamentals
- 4) Demonstrated academic or professional excellence
- 5) Maximum age of 37, with exceptions to be considered on the basis of unusual merit
- 6) Proficiency in English, especially oral communication, which is essential for effective participation in the SI programme.

The cost of participation is a tuition fee of £11,500 (GBP), excluding VAT, plus travel to and from Oxford, UK. The tuition fee covers all coursework, lodging and meals.

While at the Summer Institute, WNU Fellows will attend lectures, participate in working groups, visit nuclear facilities, enjoy a diverse programme of social events and excursions, and have weekends available for recreational activities. WNU Fellows occupy single rooms during the academic programme and twin rooms on the technical tour.

Participants from industry and government will be expected to cover their own expenses. Some applicants from developing countries who are supported by their governments should be eligible for IAEA assistance.

Selection of WNU Fellows is made through a consultation process, led by the WNU Coordinating Centre. Selection places considerable weight on an applicant's demonstrated leadership potential. The aim of the selection process is a class of WNU Fellows composed of an internationally diverse mix of top young professionals already in industry or government service.

#### MORE ON THE WNU

Inaugurated in 2003 and encompassing key institutions of nuclear learning in more than 30 nations, the World Nuclear University is an informal partnership with four "Founding Supporters": the International Atomic Energy Agency, the OECD's Nuclear Energy Agency, the World Nuclear Association and the World Association of Nuclear Operators.

The mission of the WNU partnership is to enhance international education and leadership in the peaceful applications of nuclear science and technology. The WNU partners pursue this mission through programmes organized by the WNU Coordinating Centre (WNUCC) in London, which is administered with the support of the World Nuclear Association. WNU activities are designed to harness the strengths of partnership members in pursuit of shared purposes.