Message From The Chair

Hello from Windy Albuquerque: The Young Members Group is working away on many different things; initial planning for the Young Professionals Congress 2015, Mentorship within the Society, Division Involvement, and a new Scholarship to honor past-president Eric Lowens’ son Hans.

The executive committee for the Young Members Group strives to ensure that all the work that is conducted outside the national meeting benefits each of the member of the society. My initiative for my term as chair was to gain better division involvement with the young members of the American Nuclear Society and the technical divisions. This is being accomplished is so many ways. The most apparent is to have young members appointed or elected to division executive committee roles. These roles are vital to the health of the divisions as well as offer the structure for the national meeting organization and technical content provided to the members.

In addition to division involvement we strive to have a voice in the national society organization. Gale Hauck was elected for the US At-Large Directors, John Bess will be the Chair of the Aerospace Nuclear Science & Technology Division, Art Wharton will be the 2nd Vice Chair of the Operations & Power Division, Lenka Kollar will be secretary for the Nuclear Nonproliferation Technical Group, Shaheen Dewj will be treasure and Rian Bahan will be an Executive Committee member for the Nuclear Nonproliferation Technical Group.

While I am sure there are so many more young members involved in other aspects of the technical divisions, I am very honored and pleased to see so many young members elected to division executive committee positions. If you are reading this and wonder how these individuals became involved in the divisions and elected, just ask! Either send an email, tweet (#ANSYMGM), Facebook (YoungMembersGroupANS) or attend our executive committee meeting at the National Meetings.

See you Reno!
Allison Miller
Awards

Nomination Deadline July 1

One excellent way to honor an exceptional colleague is to nominate them for one of the two ANS YMG awards. YMG is lucky to have exceptionally accomplished members and supporters. We hope that many of our deserving colleagues will be nominated before the award nomination deadline of July 1. We hope that you will consider honoring one or more of your colleagues with a nomination.

Nominating a deserving colleague requires some dedication. The nominating colleague is expected to write a narrative summary of their nomination, to collect letters of endorsement from other supporters of the nomination, and to supply a resume for the candidate.

While nominating a candidate for an ANS award requires a modest time investment, the meaning of such a gesture to both the nominator and the candidate cannot be overstated. Read on for more information about ANS YMG awards.

Young Member Excellence Award

The Young Member Excellence Award [1] recognizes “a young member who has demonstrated overall excellence in a variety of areas.” It is granted to an actively involved ANS YMG member who “advances the goals of the ANS YMG, displays outstanding non-technical skills as well as technical or managerial ability, is recognized by others in their field, demonstrates high quality and safety standards, and positively represents nuclear science and technology to the general population.”

Nominations are currently being accepted for the Young Member Excellence Award. The nominee must be an ANS member and a member of the YMG, under the age of 36 or within five years of graduation at the time of nomination. The deadline for nominations is July 1.

Young Members Advancement Award

The Young Members Advancement Award [2] “recognizes an individual or group that has made a significant contribution towards integrating young members into ANS as a whole.”

Nominations are currently being accepted for the Young Member Excellence Award. Nominees for this award need not be Young Members Group members, ANS members nor ANS-based organizations, but must be living at the time of selection. The deadline for nominations is July 1.
2014 Election Results

Chair
Elia Merzari
Nuclear Engineer, Argonne National Laboratory, Argonne, IL

Vice Chair
Benjamin Holtzman
Senior Licensing Engineer, Westinghouse Electric Company, Pittsburgh, PA

Secretary
Kathryn D. Huff
Nuclear Science and Security Consortium Postdoctoral Fellow, University of California-Berkeley

Treasurer
Peter J. Shaw
Senior Project Licensing Engineer, Westinghouse Electric Company, Waynesboro GA

Executive Committee
Rachel N. Slaybaugh
Assistant Professor at University of California – Berkeley

Executive Committee
Nicolas E. Stauff
Nuclear Engineer, Argonne National Laboratory, Argonne, IL

Executive Committee
W. A. “Art” Wharton, III
Principal Project Engineer, Automation & Field Services, Westinghouse Electric Company, LLC, Pittsburgh, PA

Executive Committee
Laszlo Zsidai
Manager – Materials Development & Special Projects, Holtec International, Marlton, NJ

Executive Committee
Piyush Sabharwall
Research Staff Scientist, Idaho National Laboratory (INL).
YMG Slogan Contest – Voting is Open!

Contributed by: Gale Hauck

The Young Members Group is looking for a slogan, and we need your help! Voting is open: [http://ymg.ans.org/ymg-slogan-poll/](http://ymg.ans.org/ymg-slogan-poll/).

You may recall our slogan contest featured on the ANS Café Blog [4]. Well, the finalists are in! Chosen by the YMG Executive Committee Members, the top 9 entries (in no particular order) are:

- New Generation, New Ideas, New Nuclear
- Keeping the next Generation Critical
- Totally Rad!
- The primary source for getting the next generation started in ANS
- ANS Young Members Group: Join for enrichment!
- Fusing the energy of young professionals with the power of ANS
- ANS Young Members Group: We really
- Critical to the next generation of nuclear professionals
- Not your father’s ANS!

All YMG members are encouraged to vote for the winner: [http://ymg.ans.org/ymg-slogan-poll/](http://ymg.ans.org/ymg-slogan-poll/). Voting will close on May 31, 2014, and the winner will be announced at the ANS Annual Meeting in Reno!

ANS Annual Meeting in Reno

The ANS 2014 Annual Meeting will be held in Reno, NV from June 15-June 19. If you are planning to attend, we hope that you will make time for the many YMG-sponsored activities in the program. Don’t forget to bring others along!

On behalf of the ANS Young Members Group, we look forward to seeing you at these great events in Reno, NV.

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<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>What</th>
<th>Where</th>
<th>Who</th>
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<td>various</td>
<td>Division meetings</td>
<td>Grand Sierra</td>
<td>All young members</td>
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<td>times</td>
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<td>8-10pm</td>
<td>Nuclear Pride Social</td>
<td>The Reserve [5]</td>
<td>LGBTQ+ &amp; Allies</td>
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Where Do Nuclear Engineering Students Work After Graduation?

Contributed by: Lenka Kollar
Originally published at ansnuclearcafe.org

In March, the Oak Ridge Institute for Science and Education (ORISE) published its annual survey on nuclear engineering enrollment and degrees (check out the full report here [3]). The 2013 data shows enrollment and the number of graduates in nuclear engineering programs along with a survey of where students are working after graduation.

There are a total of 32 universities granting nuclear engineering degrees or nuclear engineering options within another major in the United States. In 2013, a total of 655 students graduated with a Bachelor of Science, 362 with a Master of Science, and 147 with a Doctorate in nuclear engineering. Universities graduating more than 50 nuclear engineering students last year, starting with the largest programs, include:

- Pennsylvania State University
- University of Michigan
- University of Tennessee
- Texas A&M University
- University of Illinois at Urbana-Champaign
- Georgia Institute of Technology
- Purdue University
- University of Wisconsin-Madison
- North Carolina State University
- Oregon State University

The number of students graduating from nuclear engineering programs continues on a considerable upward trend over the past decade, as shown in the figure below. More recently, total enrollment has dropped 9 percent for undergraduates and 5 percent for graduate students since 2012. The overall trend of increasing graduation rates can likely be attributed to the “nuclear renaissance” in the United States and globally that was gaining momentum around 2008, and thus students attracted to the growth of the nuclear industry at that point would be graduating about now.

The slight dip in enrollment rates more recently might be attributable to the accidents at the Fukushima Daiichi nuclear power plant that occurred in 2011, resulting in a slowing down of the nuclear renaissance worldwide. ORISE expects the number of bachelor’s nuclear engineering graduates to level to about 600 per year over the next couple of years.
The ORISE survey also included data on where nuclear engineering graduates find employment after graduation. Unfortunately, the post-graduation plans of a third of the total students are unreported or unknown. Another 7 percent report seeking employment. Taking out the unknown data, we can still get some interesting insight into where nuclear engineering students are going after graduation.

First of all, nearly half of graduating students continue with school to obtain higher degrees or serve in a post-doctorate position. This reflects the intense research and technical nature of the nuclear field. As for graduates who seek employment, the chart below shows where students are going to work with different degrees. The government sector includes local, state, and federal government along with military and government contractors. Industry includes working at a nuclear utility or other nuclear-related industry. Academic employment does not include continued study. And the “other” category includes employment in other industries and foreign (non-U.S.) employment.

Graduates with a B.S. in nuclear engineering tend to work in industry more so than graduate students, while graduate students have a higher proportion working in government. Many more Ph.D. students work in academia as professors and fewer enter the nuclear industry. When making the case to the federal government to support nuclear engineering education, it is interesting to note that nearly half of all nuclear engineering students work for the government after graduation.

References:


Newsletter Prepared by
Katy Huff
IYNC 2014

IYNC 2014 is the most significant nuclear young professional conference of the year, which will bring together young and senior professionals, students and academia, in a friendly and engaging environment, meant for experience and best practices exchange between generations and also between peers.

Venue

The International Youth Nuclear Congress (IYNC) 2014 meeting will be held in Burgos, Spain, July 6-12, 2014. The congress will take place in the ABBA Burgos hotel.

Accommodation

The official hotel of IYNC2014 is the ABBA hotel. A discounted rate for IYNC participates is available until the room is full booked. You can book your hotel room by clicking on http://www.iync.org/iync2014/accommodation/

Student accommodation will also be available in Burgos.

Registration

http://www.iync.org/iync2014/registrations/

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<td>590.- €</td>
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Media sessions

1. Are we communicating or are we managing a complex interactive process?
2. How do we deal with media in a broad organization context?
3. Why do people have the wrong risk perception and how do we address them?
4. How to communicate when things are going wrong?

Key speakers

• Moon-He Chang, KAERI Vice-President
• Danny Roderick, CEO Westinghouse
• Alejo Vidal-Quadras, European Parliament Vice President
• Mike Weightman, former ONR HM Chief Inspector
• Ralf Güldner, CEO E.ON Kernkraft
• Ken Ellis, WANO Managing Director
• Shunsuke Kondo, Chairman of AEC

Technical Tracks

The conference will include topics such as:
1. Operation and Maintenance, Design Modifications, Radiation Protection
2. Generation 3 Reactors and SMRs
3. Reactor Physics and Materials (including Advanced Reactors, e.g. Gen IV)
3.1 Thermal-hydraulics
3.2 Neutronics
3.3 Materials
4. Safety, PRA, Severe Accidents and Fukushima
5. Fuel Cycle Front-end and Non-Proliferation
7. Fusion
8. Training, Human Resources and Human Factors
9. Politics and Economics, Social Acceptance
10. Medicine and Other Applications
11. YGN Best Practices

In addition, 15 interactive unique workshops will be organized in both technical and non-technical domains.

Technical Tours

A total of 7 technical tour options are offered for participants, from which one can be selected on the registration form.

Tour 1 - ENSA Manufacturing Facility for large nuclear components
Tour 2 - Juzbado Fuel Manufacturing Facility
Tour 3 - Garoña Nuclear Power Plant
Tour 4 - Tecnatomisimulators and facilities
Tour 5 – José de Cabrera NPP
Tour 6 - Trillo NPP
Tour 7 – Ciemat investigation center with stellarator (TJ-II)