



AMERICAN
NUCLEAR
SOCIETY:
YOUNG
MEMBERS
GROUP

YMG Newsletter

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Update from the Chair

Fellow YMG Members,

In our last newsletter (October 2006), we introduced you to the 2006 – 2007 YMG Strategic Plan, which I hope everyone has had a chance to read on our website (<http://ymg.ans.org/>). In this and each subsequent newsletter, we will inform you of our progress towards achieving the annual goals included in the Strategic Plan. Since October, we have been working on a number of items:

- **Development of the new member “Welcome Package”.** We’ve been working with ANS to determine what form this package should take and to whom it should be sent. We have drafted the package contents and are currently reviewing them. The Welcome Package will be sent to all student members that renew as new professional members and all new YMG-eligible professional members.
- **Organization of a “Call List”** for graduating students and young members that do not renew their ANS membership. Given the degree of reminders that the ANS currently provides for membership renewal, we have decided that a good use of YMG resources would be to prepare content for an e-mail to be sent to graduating student members encouraging them to become professional members after graduation. We will have the e-mail finalized and ready to send in time for Spring graduates.
- **Support of Society Annual Meetings.** YMG supported many sessions at the ANS Winter Meeting in Albuquerque, NM in November. Please check out the article on this meeting on page 3. In addition, we are working on sessions for the 2007 Summer Meeting in Boston, MA and the 2007 Winter Meeting in Washington, DC.
- **Increased coordination with other industry groups supporting young members.** Coincident with 2007 Winter Meeting, YMG and NA-YGN will be hosting the 2nd Young Professional’s Congress. We are currently seeking volunteers to help organize the Congress. In addition, we are working with NA-YGN to jointly identify a US representative to the International Youth Nuclear Congress.
- **Develop YMG sponsored awards.** Two awards have been drafted and we are currently working to finalize the descriptions, titles, and award process, stay tuned for more information about these awards in our March 2007 newsletter.
- **Solidify YMG structure and operations.** YMG Bylaws have been approved and can be found on our website. Additionally, YMG Rules have been drafted and are currently being reviewed; these should be finalized and approved shortly after the first of the year. After approval, they will also be available on our website.
- **Encourage young professionals to participate** in the activities of the Groups and Divisions that are closely related to their professional interests. We have been working with the other ANS Technical Groups and Professional Divisions to identify YMG liaisons. A YMG liaison is a member of the Technical Group or Professional Division that will work with YMG to identify potential collaborations between the two organizations. We hope to have a liaison identified from each Technical Group and Professional Division within the first quarter of 2007.

As you can see, we have been busy and there is still much to do as YMG continues to organize and develop. Thank you to everyone that gave their support and hard work to YMG in 2006.

If you would like to get involved in YMG, we have many opportunities available; please refer to the “Call for Volunteers” section of this newsletter as well as the “Get Involved” section of our webpage for the latest YMG and ANS opportunities.

Dena Belschner
dbelschn@bechtel.com
YMG Chair



YMG at the ANS Winter Meeting

The 2006 ANS Winter Meeting was held November 12-16, 2006 in Albuquerque, New Mexico and YMG participation could be seen in the halls and session rooms of the Convention Center. Here's a brief (and by no means complete) synopsis of some YMG member's involvement and their impressions from the Winter Meeting.

Opening Plenary Session:

- The plenary was the most heavily attended to be seen in years. The number of registered people this meeting was at a long time record high of 1709 people (according to ANS Headquarters)! This truly indicates the comeback of nuclear! The plenary was full of energy and was quite enjoyable.
- The opening plenary session headlined big names such as Senator Pete Domenici (R, New Mexico), Senator Jeff Bingaman (D, New Mexico), Former Senator J. Bennett Johnston (D, Louisiana), NRC Chairman Dale Klein, etc.. The Senators from New Mexico were able to tie in via video feed from Washington, DC. After speeches by Domenici and Bingaman about strengthening bipartisan support for nuclear power, they opened up the floor for questions and answers. The audience and Senators were impressive during the Q&A. There were a wide range of questions from GNEP to Yucca Mountain. Domenici and Bingaman definitely supported the DOE's 2010 program, but recognized the challenges ahead for finalizing a repository for spent nuclear fuel in Nevada. On that topic, both are preparing for drawn out legal battles. Former Senator Johnston and Chairman Klein painted an optimistic picture of nuclear energy in the coming years. The NRC is getting ready for up to 20 new COLs and the industry and government seem to be in concert to support such an endeavor. Chairman Klein did warn that for these COLs to be a success, industry must come together and provide a united front for COLs to ensure quality submittals, thus leading to timely safety reviews.

Committee Meetings (Professional Division, IT, Meetings and Proceedings, etc):

- As a YM, participated in ANSI/ANS-8.20 "Nuclear Criticality Safety Training" Working Group Session as a Working Group Member.
- As a YM, member of "Professional Development" Committee for ANS where the topical for YMG was discussed along with the workshops coming up at the next two ANS meetings. We voted for the workshops that would take place in the next two meetings.
- As a YM, attended Nuclear Criticality Safety Division's (NCSD) Program Committee Meeting and Executive Meeting to express our continued desire to co-sponsor and co-chair sessions with them (we will co-sponsor three sessions with them in Boston and they will co-sponsor two of our sessions).
- As the YMG Program Chair, attended the "National Program Committee" meeting to confirm the Topical for the Winter meeting was approved and on the docket. Also reaffirmed the 4 sessions being organized by YMG for the Boston meeting.

- The special committee on information technology (IT) met to discuss proposals by the group to ANS on ways to use IT to better the Society. Several key technologies were proposed such as utilizing free teleconferencing services for monthly division meetings and developing custom wiki modules to aid in the sharing of technical information among Society members. A short report was compiled and presented to ANS Board of Directors and was well received. Consequently, an IT task force was formed to look at the feasibility of implementing the proposed recommendations. It was recommended that the task force engage the divisions to obtain a better idea of end user requirements.

Technical Sessions Attended:

- 5 NCSD sponsored sessions including the three YMG co-sponsored and co-chaired.
- General Thermal-Hydraulics I & II, General Two-Phase Flow, Innovations in Nuclear Engineering Education, Training, and Distance Education, Emergency Preparedness and Response.

Presentations Given by YMG Members:

- "Assessment of the TRACE Code Against Rod Bundle Heat Transfer Transient Uncovery Data," K.B. Welter, J.M. Kelly, S.M. Bajorek
- "Evaluation of the NRC's High Temperature Gas-Cooled Reactor Knowledge Management Pilot Program," K.B. Welter, D.E. Carlson, J.E. Morris, S. Ball.

Technical Sessions Chaired/Co-Chaired by YMG Members:

- "Data, Analysis, and Operations for Nuclear Criticality Safety-I" co-chair was Nichole Ellis
- "Data, Analysis, and Operations for Nuclear Criticality Safety-II" co-chair was Darby Kimball
- "Validation: How Much is Enough?" co-chair was Nichole Ellis
- "Environmental Aspects of the Management of Radioactive Waste" co-chair was Kent Welter

Social and Networking Activities:

- YMG hosted the "ANS Student Professional Development Workshop Mixer". There were about 30 students present. There were great snacks and drinks everyone enjoyed while mingling.
- The NA-YGN social mixer was a great success. NA-YGN did a great job organizing and promoting the event, which was attended by about 60 people. Met new people, exchanged a few business cards and had a lot of fun.

Other Newsworthy Events:

The Program Committee is forming a sub-committee for the 2007 Young Professionals Congress at the ANS Winter Meeting. We are looking for volunteers to help and for a co-chair for the Congress. If you'd like to help out with this sub-committee, please contact Nichole Ellis (ellisan@westinghouse.com). The Congress will be co-sponsored by NA-YGN.

2006-07 YMG Officers:

Chair

Dena Belschner
dbelschn@bechtel.com

Vice Chair

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kbw@nrc.gov

Secretary

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Meghan Goldman

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Program Chair

Nichole Ellis

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Call for Volunteers...

Thinking about getting more involved? No better way to start than pitching in on the following committees and activities for YMG and ANS...

- Awards Committee – Establish YMG sponsored awards and nominees. (Darby Kimball, dkimbal@bechtel.com)
- Membership Committee – Lead the charge in ANS young professional membership. (Meghan Goldman, Meghan.Goldman@nuclear.energy.gov)
- Finance Committee – Help establish our operating budget. (Brad Rearden, reardenb@ornl.gov)
- Newsletter/Publications Committee - Help with the newsletter and other YMG publications. (George Tsakanikas, gatsakan@bechtel.com)
- Website – Create the “new face” of YMG. (Kent Welter, kbw@nrc.gov)
- Program Committee – Help organize YMG sponsored sessions at national meetings (Nichole Ellis, ellisan@westinghouse.com)
- The Thermal Hydraulics Division is organizing the 12th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-12) in Pittsburgh, PA, September 30 - October 4, 2007. Please contact Kurshad Muftuoglu (muftuoak@westinghouse.com) if you are interested in volunteering. The conference web site is located at <http://www.nureth12.org/>.
- The Environmental Sciences Division (ESD) and the Robotics and Remote Systems Division (RRSD) are sponsoring a joint topical meeting entitled, "Emergency Management & Robotics for Hazardous Environments" March 9th-12th, 2008 in Albuquerque, New Mexico. To volunteer or for more information contact Kent Welter (kbw@nrc.gov), ESD Co-Chair, or Red Jones (redjone@sandia.gov), RRSD Co-Chair, or see the meeting web page at <http://cimar.mae.ufl.edu/rrsd/>.

Call for Applications...

- ICAA Young Scientist Award – The Young Scientist Award is given in recognition of an excellent contribution to and early career achievements in the fields of radioactivation analysis. For more information, please see our website <http://ymg.ans.org>.

Coming Soon to the Newsletter...

- Young Member Spotlight - Highlighting the early career of a prominent YMG member, how they got involved with ANS and advice for other young members in their professional and ANS life. Is there a young member you'd like to know more about? Nominate them for the spotlight via email to the Newsletter Editor (gatsakan@bechtel.com).
- Do you have news or a story idea for an upcoming newsletter? Email it to the Newsletter Editor (gatsakan@bechtel.com) and your story could be featured in a future issue!

Upcoming Events...

- ANS Student Conference, Oregon State University, March 29th - 31st
- NA-YGN Annual Workshop, Fairmont Turnberry Isle Resort: Miami, FL May 22nd - 23rd

Get to Know the Reactor Physics Division

The mission of the Reactor Physics Division (RPD) is to advance research in all aspects of reactor physics. RPD works on two main fronts to complete this mission; the experimental side and the theoretical side. On the experimental side, RPD works to improve measurements of basic physical data, and to perform libraries through various experiments in research reactors and, where possible, operating reactors. On the theoretical side, RPD work involves development of tools (computer programs), methods and analytical techniques with applications in commercial power, medicine and space.

With membership of about 1600 in 2006 and rising, RPD is one of the largest divisions of the ANS. Membership is very diverse, ranging from professionals from industry, government, and academia. It allows for extremely useful networking opportunities.

To further its objectives, RPD is very active in organizing technical sessions at the Annual and Winter ANS meetings. RPD also organizes separate Topical Meetings, the PHYSOR (PHYSICS Of Reactors) Conference series, which are held every 2 years. RPD collaborates with other ANS Divisions and Groups in the dissemination of technical information. In particular, RPD cooperates closely with the Mathematics and Computation Division in Topical Meetings and Special Sessions. And now RPD hopes to collaborate closely with the Young Members' Group. If you would like more information or to get involved with RPD, please contact the RPD-YMG Liaison (see below).

Did you know that the Reactor Physics Division is one of the largest divisions of ANS with members in industry, government and academia?

RPD Info at a Glance

RPD Officers for 2006-2007:

Past Chair: Jess Gehin, ORNL

Chair: Ben Rouben, Atomic Energy of Canada, Limited

Vice-Chair: Farzad Rahnema, Georgia Tech

Treasurer: Jeff Bradfute, Westinghouse Electric Company

Secretary: Robert St. Clair, Duke Energy

RPD-YMG Liaison:

Art Wharton, Westinghouse Electric Company
(whartoa@westinghouse.com)

International involvement:

PHYSOR-2006 organized by the Canadian Nuclear Society and held in Vancouver, British Columbia.

PHYSOR-2008 will be held in Interlaken, Switzerland, in September 2008 and is being organized by the Swiss Nuclear Society and other Swiss groups.

RPD Awards and Scholarships:

The Wigner Award, a very prestigious prize, is awarded to a nominee who has made significant contributions toward the advancement of reactor physics.

The Henry-Greebler Scholarship is currently valued at \$3,500 and awarded to a full-time graduate student in a North American University engaged in Master's or Ph.D. research in reactor physics or radiation transport.