



Go Nuke!

A newsletter from the North American Young Generation in Nuclear

February 2007

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1300... by Michael Stuart

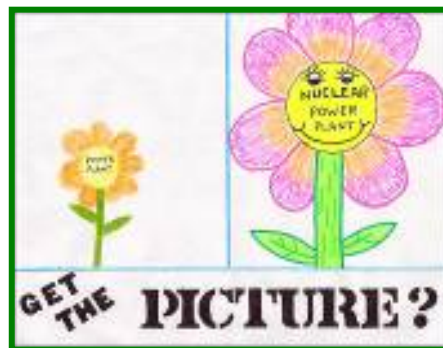
Every year, NA-YGN members travel to elementary schools across North America to speak to 4th and 5th grade students and faculty members about the benefits of nuclear technology. Students are asked to submit a drawing on what they learned. This year's drawing contest entitled "Roddy Nuclear and the Chamber of Power" attracted over 1300 entries from fourth and fifth grade students all over the United States.



by the core to break the two ties. With so many great pieces of art, it was difficult to choose the winner.

The 1st place drawing was submitted through the LaSalle Chapter by Jessica Cunico, a 5th grader in Mrs. Boam's class at Wallace Grade School in Ottawa, Illinois. Her drawing proclaims that "Nuclear power plants are the gold at the rainbow's end!" Congratulations Jessica!

Each year many of these drawings are displayed at the ANS Winter meeting where votes are accepted and tabulated for the best drawing. The NA-YGN annual drawing contest display boards always prove to be a very popular attraction at the ANS Winter Meeting and this year was no exception.



Our 2nd and 3rd place drawings were submitted through the Westinghouse Pittsburgh Chapter

The 2nd place drawing was by Rachael Suchevecich, a 5th grader in Mrs. Rosenstock's class at Verner Elementary School in Verona, PA.

This year's meeting was held in Albuquerque, NM, which is also home to the National Atomic Museum – where the winners of the NA-YGN drawing contest are displayed and entered into history.



The 3rd place drawing was by Howard Schwalm, a 5th grader in Mr. Gaefke's class at Myrtle Ave School in Pittsburgh, PA.

After hundreds of votes were cast, the top four drawings had to be voted on

Many thanks to everyone who helped organize and present for the drawing contest, and special thanks to every one of the students who took the time to submit a drawing!

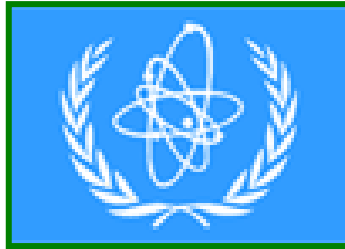
The International Atomic Energy Agency (IAEA)

Toronto Regional Office

The Toronto Regional Office (TRO) belongs to the Department of Safeguards of the International Atomic Energy Agency (IAEA) and is located in Toronto, Ontario, Canada. TRO consists of twelve safeguards inspectors and four support staff. The fundamental role of TRO is to perform safeguards inspections utilizing the locally stationed inspectors. TRO also remotely monitors the safeguards data collected by on-site equipment such as optical surveillance devices and radiation monitors.

IAEA Safeguards in Canada

The fundamental objective of the Safeguards Department is to ascertain that a non-nuclear weapon State under Non-Proliferation Treaty (NPT), such as Canada, does not divert any of its nuclear resources for nuclear weapons or other nuclear explosive purposes. This objective is achieved by auditing and verifying the State's declarations to the IAEA in terms of its nuclear material and nuclear-related activities. The following Canadian nuclear facilities are under the IAEA safeguards:



(1) Natural Uranium Conversion Facilities and CANDU Fuel Fabrication Plants.

Uranium concentrate from mining/milling is purified and fabricated to CANDU reactor fuel.

(2) Nuclear Generating Stations (NGS) and Associated Spent Fuel Dry Storages.

The main product of these commercial CANDU stations is to generate electricity and spent fuel (irradiated used fuel) is the main by-product of a commercial nuclear reactor.

(3) AECL Laboratories, owned by the Atomic Energy Canada Limited (AECL), a corporation established by the Government of Canada. The role of AECL is for the advancement of Canada's nuclear technology and engineering field. The lead product of AECL, which represents the standard for Canada's nuclear power reactor design, is the CANDU – an acronym for Canada Deuterium Uranium.

(4) Locations with nuclear material including small research reactors.

Under the terms of the NPT, these facilities maintain and declare detailed records and transactions of their nuclear material accountancy.

Why was the TRO established?

Canada represents the world's largest producer of uranium, accounting for one-third of the world mine output. In addition, it is the only country in the world which has a comprehensive natural uranium fuel-cycle (no enrichment and no spent fuel reprocessing). A fuel-cycle is the progression of stages involved in converting uranium into an energy source and the treatment of its inherent by-products. The various stages involved are the:

(1) *front end* – consisting of the mining/milling, ore processing/conversion, and fuel fabrication stage of the cycle;

(2) *production period* – fuel is used in reactors for energy production; and,

(3) *back end* – safe management and containment of spent fuel for interim

storage to long-term disposal

The comprehensive nature of Canada's fuel-cycle, which consists of multiple nuclear facilities spanning the full spectrum of the fuel cycle, requires significant resources from the Safeguards Department of the IAEA to verify the correctness and completeness of the declarations. Logically, this led to the creation of a regional office in Toronto, Ontario - the IAEA *local inspectorate* – established for optimal utility and cost-effective management of IAEA human resources in the application of safeguards in Canada.

The fundamental role of TRO is to carry out safeguards inspections to verify the completeness and accuracy of the facility records. Inspection activities routinely consist of auditing of facility records and verification of nuclear material. The inspection results are sent to IAEA headquarters to draw conclusions as to whether Canada is in compliance with the NPT as a non-nuclear weapon State, i.e., all nuclear undertakings are for peaceful purposes.

ANS Winter Meeting Albuquerque, NM

By Amy Buu

Over forty NA-YGN professionals and friends joined in Albuquerque, New Mexico for our NA-YGN social sponsored by Ureco. With their generous support, NA-YGN was able to host an excellent social event that had the greatest view of the city – nineteen stories high from the Hyatt Hotel. The night view was amazing and breathtaking. New friends and old friends were able to reminisce and share their stories. Thanks everyone who came by and we hope to see you again at the 2007 ANS Young Professionals Congress – a joint event with ANS Young Member's Group and NA-YGN. Hope to see you in Washington D.C!



NA-YGN members enjoying the Ureco sponsored social!

ANS Networking Session

At the 2006 ANS Winter Meeting, NA-YGN conducted a networking session titled “Get Connected” to help young professionals learn more about the ins and outs of networking. It was co-panel whereby NA-YGN’s Michael Stuart, Public Information Chair, David Pointer, President and Amy Buu, Vice President of NA-YGN shared tips on how to network. A game helped participants expand their own networks by meeting professionals outside of their NA-YGN region and win fun giveaways. Missed the experience? Check out the great notes shared by Travis Gitau:

Networking

- Use family – everyone knows someone
- Sharing experiences helps connect those that do the same thing across the nation
- It’s not who you know, but who knows you
- Don’t collect the most business cards, collect the **right** business cards

- Conferences are professional activities, not social events
 - Never get drunk
 - Dress for success
 - Research those you want to meet
 - Prepare an elevator speech
 - SMILE!
- Use of business cards
 - Write down something on back to remember what happened when you met
 - Follow up items
- Get Connected – learn who your NAGYN Officers are

Keys to Remembering Faces & Names

- Improvement of memory
 - Build related episodic memory
 - Convert episodic memory into semantic memory
- Repetition
- Expanded association to persons name
 - Imagine name in color marker on their forehead
 - Engage the senses
- Conversion of Memories
 - Pay attention
 - Shake hands, make eye contact
 - Repetition – repeat name during conversation

Open Forum for Discussion (Tips from Industry Members)

- Ask what they do
- Make good eye contact
- Find out particular interests
- Create memories in your mind
- Write it down – write what’s not on the business card
- Get involved – Fun Run, socials
- Put yourself into new situations
 - Sit next to someone you don’t know on a bus ride
 - Take elevator with someone you don’t know
 - Engage someone in the hallway
- Have FUN! a sense of humor

President's Corner:

By W. David Pointer Ph.D.

What an exciting year 2006 was for NA-YGN! We have visited an unprecedented number of schools, solicited a record number of poster contest entries, begun a dialogue with an enormous variety of community groups, and taken a vocal and visible stand in support of new nuclear power at events across the nation. We've completed a significant industry benchmarking study of the factors that impact young professionals' job choices. We've welcomed 9 new local chapters and 717 new members from all across the continent and are supporting many more in their efforts to establish their own chapters.

The rapid growth of NA-YGN over the past year underscores the impact that you as NA-YGN members have enabled the organization to have in our communities and in our industry. The expansion and rising strength of NA-YGN's voice brings new opportunities as well as new challenges for all of us. Continuing to provide innovative professional development events, create leadership opportunities for young nuclear science and technology professionals, and expand our outreach activities without degrading the quality of our message is a tremendous task.

The core is hard at work developing the tools you've requested to help meet this challenge. Listservs have been established for local chapter leads to share information. A completely revamped website is under development with improved access to information and expanded areas for members to share data, tools, and communications products with each other. Perhaps most importantly, the core is considering the long-term sustainability of the organization's activities to ensure that the organization has the ability to meet its members' needs well into the future. As part of this effort, new leadership opportunities are being developed for NA-YGN's members and we hope to kick off this new way of doing business at the upcoming NA-YGN Annual Workshop in Miami in May 2007. 2006 was a great year for the nuclear science and technology community and for our members. I know that each of you will continue to rise to the challenge and make 2007 even brighter.

What's Your Name Again?

NA-YGN was everywhere at the 2007 American Nuclear Society Winter Meeting in Albuquerque. As discussed in other articles in this issue, NA-YGN hosted a very popular booth at the Technology Expo and a very well attended Mixer. However, it wasn't all meet, greet and celebrate.

NA-YGN organized a session titled "Get Connected!" which focused on the importance of network skills. President Dave Pointer, Vice President Amy Buu, and PI Chair Michel Stuart provided an overview of tips and tricks for remembering the names of the people you meet as well as a brief discussion of the science behind name and face recognition. Armed with this knowledge, attendees were given the opportunity to practice and challenged to introduce themselves to as many of their fellow attendees as possible in a 20 minute period. With prizes on the line for those who met the most people, participation was enthusiastic and a good time was had by all.

NA-YGN also supported a number of communications-oriented sessions organized by the ANS Public Information Committee, including a session titled "Focus on Communications: Pro-nuclear Activism in Cyberspace," which focused on the impact of blogging and podcasting, and a session titled "Focus on Communications: Pro-nuclear Communications," in which PI Chair Michael Stuart provided an update on NA-YGN's outreach efforts and Past President Lisa Stiles-Shell discussed the missions of CASEnergy and Enact.

With an eye on the future, NA-YGN's professional development and public information committees are already beginning to prepare for next year's activities, including co-hosting the 2007 Young Professionals Congress with the ANS Young Members Group. If you'd like to get involved, contact PD Chair Ryan Stone at pd@na-ygn.org.

Local Chapter Updates!

New England

The New England chapter hosted a kickoff gala on September 22 at the historic Hartford Club. The region's diverse nuclear industry was represented: Entergy, Dominion, FL&P, AREVA, Westinghouse, RPI, WPI, Three Rivers, and others. Seventy enjoyed refreshments, good food and a taste of "What NA-YGN Members Do", "Importance of Knowledge Transfer", and "Advanced Power Systems" as presented by the Core and industry executives.

This momentum is challenged by the chapter's scope as founded by leaders from American Nuclear Insurers and Westinghouse. The long-term goal of our chapter is to develop a membership network in the Northeast by identifying and empowering local leaders. To this end, the Site VP role was created.

To be a VP for your site: find an executive willing to champion the YGN mission, join our leadership team and build local membership. No simple feat, but in this way the New England chapter will generate a cohesive network of local chapters.

The chapter needs your help planning a utility focused event, developing communications infrastructure at www.ne-ygn.org, and populating an election ballot for leadership transition in June. Begin a connection to your company with an e-mail to membership@ne-ygn.org.

ygn.org. Truly, *E Pluribus Unum*, please share your perspective and energy to grow the New England chapter!

Pittsburg Chapter

In the summer of 2006, the Westinghouse-Pittsburgh NA-YGN chapter became the Pittsburgh Chapter as it joined with the newly kicked-off First Energy Beaver Valley Site.

The FENOC kick-off was a great success with representatives from the plant management and Westinghouse speaking to the new Beaver Valley members.

Congratulations and thanks are due to the new Beaver Valley Site NA-YGN Officers; Vice-President Chad Modro, Secretary Doug Bloom, Treasurer Jeff Kramer, and Professional Development Officer Joe Carretta.

The Beaver Valley Site will be joining the rest of the Pittsburgh chapter for a winter ice skating party in January so both companies' members can meet each other and network. The Pittsburgh chapter by-laws were revised in December to add the new Beaver Valley Site.

First Energy - Welcome to NA-YGN!

East Idaho Chapter

New members of NA-YGN are working to set up an Eastern Idaho chapter. Based in Idaho Falls, the organization will

consist primarily of members employed or otherwise affiliated with the Idaho National Laboratory.

In addition to professional development activities, the group plans to organize workshops on nuclear science for local primary and secondary-level teachers.

The first president will be Piyush Sabharwall. Other officers and founding members include Samuel Bayes, Nolan Anderson, Jason Hollern, Ramprashad Prabhakaran and Michael Pope.

The organization is in the process of filing for non-profit organization status in the state of Idaho.

For more information please contact: Michael.Pope@inl.gov

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2007 NA-YGN

www.na-ygn.org/pd

The 2007 NA-YGN PD Conference will take place from May 22-23, 2007 at the Fairmont Hotel in Miami, FL. Registration for the conference can take place on the NEI website and all participants are responsible for making their own hotel reservations.

NA-YGN Makes Some Noise at Clinton's ESP

By: Laura Ekern

Some 100 people attended the public comment session on the evening of November 8, 2006 in Clinton, Illinois, but before the meeting was over, more than 300 people expressed support for Exelon's Early Site Permit application. That support came in the form of a petition that was presented by Exelon's NA-YGN organization to the NRC, which was conducting the public comment session.

Spearheading the Exelon NAYGN support activities were NAYGN members from Clinton Power Station, LaSalle and Braidwood, all located in north-central Illinois. Our efforts included greeting people at the Clinton Junior High School entryway with information about nuclear energy and manning a table in the school gymnasium where the hearing was held. Our table had material donated by NEI and ANS, which contained information about nuclear energy in the United States and the world, the facts about radiation and nuclear power plant operation. Some of our volunteers crafted large signs for display at our table and handed out pro-nuclear stickers for the public to wear.

After about a half-dozen speakers had made comments in opposition to the ESP application, I gave a statement telling the NRC panel that one of NAYGN's goals is to provide the public balanced information about nuclear energy. I also stressed that Nuclear energy is clean, safe, reliable, and important to the energy mix of our country. After concluding

my remarks, I presented the NRC with a petition containing 330 signatures that support the Early Site Permit application.

Several other members of the public also spoke to show their support of a new reactor being built at the Clinton site. This included several Clinton area residents, students for the University of Illinois engineering department and a retired Westinghouse employee.

The public comment session came on the heels of two days of cross-examination of Exelon and NRC witnesses on the Early Site Permit application. Those daytime sessions, conducted by the Atomic Safety and Licensing Board, an independent adjudicatory arm of the NRC, were held November 7 and 8, 2006 in Decatur, Illinois. The hearing panel in late December 2006 recommended that the ESP application be granted. The NRC commission then is expected to make a final decision on the ESP permit by May of 2007.

I would like to extend thanks to Lisa Stiles from NEI for providing us with the brochures and materials we handed out and the members of our chapter who helped make our contribution to this event a success. These members include: Molly Woodard and Netty DeGarlais, Braidwood; Karen Hernandez, Joe Lizewski, Erin Heaton, Nikki Milton, and William Knight, Clinton.



Erin Heaton, Laura Ekern, William Knight, Joe Lizewski, Molly Woodard and Netty DeGarlais setting up for the event.



Nikki Milton, Netty DeGarlais, and Karen Hernandez handing out pro nuclear materials to the Clinton SVP, Bryan Hanson

Speaking to the public or the media?

All members are welcome and encouraged to identify themselves as members of NA-YGN when speaking to any audience.

Special permission from the core is only required when such presentations include statements about the official policies or positions of NA-YGN or statements made on behalf of all of NA-YGN's members.

Don't Worry It's Still Free!

Every year, just prior to elections, NA-YGN runs a renewal campaign. Renewal allows us to keep member data up-to-date but, most importantly, **you must renew your membership to be eligible to vote in the officer elections.** Even if you joined recently, please visit www.na-ygn.org/aboutus/member.cgi?login=1 and follow the instructions.

This year's open positions are Communications Chair, Public Information Chair, U.S. Affairs Chair, Canadian Affairs Chair, and Vice-President. The election will run from Monday, February 26 to Friday, March 2. Members will receive an email with voting instructions by Monday, February 19.

The health of an organization like ours is dependent on the active participation of its members. We have a terrific group of officer candidates and I urge you to carefully consider each one and participate in the elections. If you have any questions, please contact me at stiles@na-ygn.org

I call upon the scientific community in our country, those who gave us nuclear weapons, to turn their great talents now to the cause of mankind and world peace: to give us the means of rendering these nuclear weapons impotent and obsolete.

Ronald Reagan

40th president of US (1911 - 2004)

Where's My Membership Card?

For those of you who joined... well. at almost any point after the 2006 PD conference, you may have realized you never received a membership card or NA-YGN pin... We didn't forget you! We just fell a bit behind. Like.. 300ish behind.... Oops...

The New Membership Chair, Lauren Killian, was tasked with not only getting up to speed with a new position, but to take care of a huge backlog that could have impeded the 2007 election. With grace and conviction, Lauren set out to print the welcome letters and membership pins to tackle this issue, but once she dove into it she realized that a little bit of help would go a long way.

Members from the Bechtel, Calvert Cliffs, and DC chapters of NA-YGN united at Lauren's luxurious DC Metro apartment to help sort, fold, attach the membership pins, stuff into envelopes, and address the membership welcome packages.

Even with ten willing volunteers working more efficiently than any Ford assembly line, it took the team two hours to process the back-log. Gee Wiz . . . The group managed to finish all of the welcome packages and safely mail them to the new members.

NA-YGN would like to thank all of the volunteers who helped with this activity! Your dedication and efforts are appreciated by all of us.

If you have any other questions or concerns about your membership number or card, please contact Lauren at membership@na-ygn.org

EVENTS

National and International Events

February 1, 2007 NA-YGN Awards
Applications Due naygn@na-ygn.org

February 27-28, 2007 WIN Canada 4th
Annual Meeting Ottawa www.win-canada.ca/wincanada/

February 28 – March 1, 2007 CNA Annual
Seminar Ottawa, ON www.cna.ca

March 29-31, 2007 ANS Student Meeting
Corvallis, OR
groups.engr.oregonstate.edu/ans/conference.htm

April 22-27, 2007 WIN Global Meeting Bali,
Indonesia www.win-global.org

May 22-23, 2007 NA-YGN PD Seminar
Miami, FL www.na-ygn.org

June 24 – 28, 2007 ANS Summer Meeting
Boston, MA www.ans.org

July 8 -12, 2007 HPS Annual Meeting
Portland, OR www.hps.org

July 15-17, 2007 US WIN Conference
Anaheim, CA
www.winus.org/Events/USMeetings

September 6 – 12, 2007 NA-YGN Canadian
PD Seminar williams@na-ygn.org

November 11 – 15, 2007 ANS Winter
Meeting Washington D.C. www.ans.org



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