



# AMERICAN NUCLEAR SOCIETY

Operations & Power Division

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## FALL 2002 OPD NEWSLETTER

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<b>MESSAGE FROM THE CHAIR</b>
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(by Ted Quinn - tedquinn@cox.net)

Because of the loss of a close colleague and friend, Pete Reagan, I became Chairman of Operations and Power Division this year. So, to start, I am dedicating this year to the memory of Pete Reagan and, as Rich St Onge, the past OPD Chair said, to celebrating the life that has given the industry and his family so much.

This is the challenging time that displays a lifeblood in nuclear energy and science that I haven't seen in many years and thought was lost. Through the hard work of dedicated people on all sectors of the industry, this energy and vibrance has the opportunity to return. We have the chance to move two activities forward this year and I ask you to help with each of these:

Build new nuclear units in the United States  
Train and hire the new generation of all disciplines needed to create the workforce necessary for the current 104 plants and the next generation we intend to build.

For the first challenge, the time is finally here for the serious discussion needed to satisfy the financial sectors that new nuclear plants are competitive in the long run. Key industry leaders in the utility sector are working hard along with DOE, NEI and others to find the support deployment of new nuclear plants by 2010. The Bush Administration has been very proactive in supporting this in the NATIONAL ENERGY POLICY and in speeches by the Secretary of Energy Spencer Abraham, and the Under Secretary, Bob Card. Three utilities are moving forward with their applications for Early Site Permit (ESP). Dominion, Energy and Exelon have publicly announced their intent to submit a license request next year at sites for a plant envelope that encompasses many of the current or future designs that were reviewed in the NEAR TERM DEPLOYMENT REPORT by DOE, issued in November, 2001.

The challenges to new nuclear deployment are many, but the reasons for deployment provide strong justification to make this our number 1 priority in this year. The performance of the current fleet of nuclear plants has emphasized their role in maintaining a balanced energy portfolio in the U.S. The President's Clear Skies initiative supports expansion of non-emitting forms of electrical generation. A key component in this is some kind of

market benefit or emissions-free portfolio credit that can apply only to new generation, so not to penalize current fossil plants.

Please enter the dialogue and take positive action, as Senator Domenici called us to do, in addressing each challenge and making the business case for new nuclear. Kyle Turner and I chair the Committee on New Construction (CNC) within OPD. There is no time in the history of this subcommittee, where action was more likely to have impact than now. We need to address a whole range of issues including licensing interactions, emissions credits, power purchase agreement opportunities, workforce and mass production techniques. We encourage input from international partners to learn from overseas successes and failures, as well as our own. In the area of digital instrumentation, for example, the international community has moved far ahead of the U.S. in implementation of advanced control rooms.

Workforce issues are also at the top of the priority list. As you can see from the above challenge, new plants cannot be built without an adequate and qualified workforce. All of us in OPD need to make it a priority this year to hire and train as many new young people to meet this demand. We need to instill in them the desire to make this their chosen field for life and to see this as a way of meeting the world's energy needs for thousands of years to come.

Finally, the challenge we face in promoting new nuclear energy is not too different than the one proposed by President Eisenhower in his December 8, 1953 ATOMS FOR PEACE speech at the United Nations. A portion is attached and you can view the whole speech at the [www.ans.org](http://www.ans.org).

Please join us in this challenge – come to our local or national meetings and make a difference. It is only after we do this, that the above two challenges can be met and overcome in our lifetime.

Ted Quinn, OPD Chair  
23292 Pompeii Dr., Dana Point, CA 92629

## FALL 2002 OPERATIONS & POWER DIVISION NEWSLETTER

**INVITATION**  
**11/2002 OPD MEETINGS IN WASHINGTON, D.C.**

Join us at our winter meetings in Washington, D.C.:  
Executive Committee meeting, Sunday, 3:30 p.m. – 6:00 p.m.  
Program Committee meeting, Sunday, 1:00 p.m. – 3:30 p.m.  
UWC Technical Program Committee meeting, Sunday, 10:00 a.m. – 11:30 a.m.

**PROGRAM COMMITTEE**

Chair, Donna Skay, NRC ([dms6@nrc.gov](mailto:dms6@nrc.gov))  
Vice-Chair, Don Eggett, Automated Engineering Services

Utility Working Conference, August 2002  
The 2002 UWC was a success. The technical program and vendor program were excellent.

Planning is underway for the 2003 UWC. Pat McCloskey of First Energy will assume the role of Technical Program Chair for this conference.

2002 Winter Meeting, Washington DC

The following sessions are planned for the November meeting:

Session Title	Organizer
Knowledge Management	William Keyworth
Performance Monitoring—A Consistent and Meaningful Approach	Mark Reinhart
U.S. Nuclear Power Plant Control Room Habitability—Implementation of Industry and Regulatory Guidance	Jack Hayes
PWR Recirculation Issues	Don Eggett
Early Site Permits	Kyle Turner
External Regulation of Operating Department of Energy Nuclear Facilities	Walter Apley
Generation IV Advanced Nuclear Energy Systems - Department of Energy Roadmap Update	Buzz Savage
Performance Based Regulation	Prasad Kadambi
Nuclear Energy Research Initiative - Fiscal Year 2003 Program Direction	Buzz Savage

Workforce Issues from the Students & Young Generation's perspectives .	Paul Wilson
NP2010 - Status on Deployment of New Nuclear In the U.S.	Ted Quinn
License Renewal in the US	Tom Snow
Licensing Gas Cooled Reactors	Prasad Kadambi

Several OPD topical meetings are coming up and there will be a need for involvement and leadership to assure the success of these meetings. These topicals include the Pacific Basin Nuclear Conference and the "Risk Management" embedded meeting in June 2003.

2003 Annual Meeting - San Diego  
14 OPD-sponsored sessions are proposed for the 2003 annual meeting. The following committee members agreed to organize the sessions and will be looking for assistance in planning and/or making presentations at the sessions:

Session title	Organizer
Plant Upgrades	Steve Stamm <a href="mailto:steve.stamm@shawgrp.com">steve.stamm@shawgrp.com</a>
Early Site Permits	Kyle Turner <a href="mailto:kyleturn@att.net">kyleturn@att.net</a>
Plant Aging and Degradation	Donna Skay <a href="mailto:dms6@nrc.gov">dms6@nrc.gov</a>
Goal and Direction of Risk Management	Mark Reinhart <a href="mailto:fmr@nrc.gov">fmr@nrc.gov</a>
Significance Determination Process	Mark Reinhart <a href="mailto:fmr@nrc.gov">fmr@nrc.gov</a>
Nuclear Power Plant Security	Steve Mirsky <a href="mailto:steven.m.mirsky@saic.com">steven.m.mirsky@saic.com</a>
Control Room Habitability - Implementation of Guidance	Mark Blumberg <a href="mailto:wmb1@nrc.gov">wmb1@nrc.gov</a>
Risk-Informed, Performance Based Framework for Advanced Reactors	Prasad Kadambi <a href="mailto:npk@nrc.gov">npk@nrc.gov</a>
Generation IV reactors	Buzz Savage <a href="mailto:buzz_savage@hq.doe.gov">buzz_savage@hq.doe.gov</a>
Nuclear Energy Research Initiative	Buzz Savage <a href="mailto:buzz_savage@hq.doe.gov">buzz_savage@hq.doe.gov</a>

## FALL 2002 OPERATIONS & POWER DIVISION NEWSLETTER

Nuclear Asset Management	Bob Holzworth <a href="mailto:holzworthr@ds-s.com">holzworthr@ds-s.com</a>
Financing the Next Nuclear Power Plant	Sophie Gutner <a href="mailto:s_gutner@yahoo.com">s_gutner@yahoo.com</a>
Quality Assurance	Harold Stiles <a href="mailto:harold.stiles@pgnmail.com">harold.stiles@pgnmail.com</a>
Innovations in Nuclear Infrastructure and Education	Sean O'Kelly <a href="mailto:sokelly@mail.utexas.edu">sokelly@mail.utexas.edu</a>

Sponsorship of ICAPP 2003 and 2004

The "2003 International Congress on Advanced Nuclear Power Plants" (ICAPP '03) will be held in Cordoba, Spain in May 2003, at the Congress Palais. The call for papers has gone out and 15 October 2002 is the deadline for abstracts. You may visit the ICAPP '03 website at [www.ans.org/goto/icapp03](http://www.ans.org/goto/icapp03) for updated information on the meeting.

The 2004 ICAPP meeting has been approved and will be held in Pittsburgh, PA. The 2004 ICAPP will be an embedded topical meeting in conjunction with the ANS Annual Meeting.

The Pacific Basin Nuclear Conference has been approved for Fall 2004.

**2002 Winter Meeting in Washington, D.C.(Nov 17-21).**

All the information you will need is available at <http://www.ans.org/meetings/winter/>. **Remember to sign up as MENTORS** to help the new ANS members or students in learning about the Society; this is a very important role that each of you can play. Look for the Registration form in the Meeting Preliminary Program (also available on the Internet).

### UPCOMING EVENTS

2002 ANS Winter Meeting, November 17-21, 2002, Washington, D.C.  
 First Annual Nuclear Power Generation Executive Forum, January 26 – 29, 2003, Scottsdale, Arizona  
 Waste Management, 2003, Tuscon, Arizona, Feb. 23- 27, 2003  
 2003 ANS Summer Meeting, June 1 – 5-, 2003, San Diego, CA., "The Nuclear Technology Expansion – Unlimited Possibilities!"

### MEMBERSHIP COMMITTEE

(by Sophie Gutner – [s\\_gutner@yahoo.com](mailto:s_gutner@yahoo.com))

In a volunteer organization such as ANS, the more volunteers participate, the more products and services the

Society can offer. Increasing OPD membership is one of our top priorities. You can help!

The Executive Committee is working on several initiatives to recruit new members:

(1) We will contact each new member by phone to welcome them and determine how active they want to be.

(2) We will contact as many of our current members (you!) as possible to determine your interests in OPD activities, products, and services; how you would like to get more involved; and how can we make your OPD membership more useful and rewarding. We are currently developing a survey to help us improve OPD. We hope this will personalize the contacts between our members and the Executive Committee.

If you have suggestions or comments, you are welcome to contact any of the Officers or Executive Committee members (<http://opd.ans.org/offmemb.html>).

(3) We will soon launch a new "OPD Membership Drive" where each member (you!) can help recruit a new member. Look around you, among your friends, colleagues, bosses... Check the OPD website for more information to come!

### PRESENTING A LOCAL SECTION

#### Local Section Plans an Active Year

(by Greg Gibson – [SCE\\_gibsongt@songs.sce.com](mailto:SCE_gibsongt@songs.sce.com))

The San Diego Chapter of the American Nuclear Society has been working on three major areas in 2002: (1) provide its members quality meetings with recognized Industry experts; (2) increase Chapter participation and membership; and (3) provide local support for the 2003 ANS Annual Meeting in San Diego. During this period, Chairman Henry Chiu turned over to incoming Chairman Greg Gibson.

The local meetings had the following highlights:

Dr. Per Peterson, Professor of Nuclear Engineering and Chairman of the Department of Nuclear Engineering at the University of California at Berkeley, presented "Fusion with Heavy Ions: Status and Prospects." As California is the center for the major activities to develop heavy ion inertial fusion (HIF), Dr. Peterson reviewed the current progress toward demonstrating the scientific viability of indirect-drive inertia fusion—showing experimental ignition of fusion fuel—and progress toward heavy-ion accelerators capable of repeating this process at high repetition rates. The talk then focused on research at U.C. Berkeley to develop HIF chamber systems capable of extracting useful fusion power from heavy-ion targets.

Mr. Harold B. Ray, ANS President, made a presentation on the Economics for the Nuclear Power Industry. Mr. Ray spoke about the impacts of the California De-Regulation and the financial implications for the construction and operation of the new generation of reactors. The presentation also covered the economic models and how the future of nuclear power is strongly tied to the financials.

Dr. Ali Nasle, CEO EDSA Micro Corporation made a presentation on the "Latest Applications of Computer Technology in Electrical Engineering". The presentation provided an overview of the latest in 3D electrical simulation software which is used in the design of AC and DC electrical system coordination for fault protection, load analysis, transient stability, and load flow. This new technology was initially developed for the US Navy for the design of the latest generation of warships, and has applicability to all electrical engineering applications.

Mr. Joe Wambold, Vice President, Southern California Edison, spoke to the Local Chapter on "Recruiting and Manpower Needs of the Nuclear Industry." Mr. Wambold focused on the current staffing levels, aging workforce, and the effect that license renewal has in creating opportunities for a long and prosperous career. Mr. Wambold's talk included how the Society can help attract new employees into the nuclear community, and also addressed Industry outreach efforts. New and upcoming college graduates were encouraged to attend to learn more about the exciting career opportunities in our field. The Chapter also invited the local Health Physics Society Chapter members as well as local Colleges to attend.

Walter A. Simon, Senior Vice President, Reactor Projects at General Atomics (GA) in San Diego, CA. discussed the gas turbine modular helium reactor and other gas-cooled reactor developments and his perspectives on the gas-cooled reactor's development and future.

<b>FINANCE COMMITTEE &amp; HIGHLIGHTS FROM TREASURER'S REPORT</b>
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(by Mark Reinhart – mhr@nrc.gov)

When we invest resources we hope to realize a significant gain in our investment. With our investment in ANS we hope to gain—for a broad population—a broader and deeper appreciation of the benefits, including safety, of the nuclear option. How can we optimize this gain?

OPD currently has a significant fiscal resource. Will a traditional investment in education scholarships optimize our gain? Of course this is a start, but are there other ways? Can we brainstorm? Think out of the box? Think broadly?

Should we champion an enhancement to ANS in general? What benefit to members will stimulate membership?

Can you help your Finance Committee discern profitable investments and strategies?

The Operations and Power Division is projecting revenues of \$62,213 for 2002 about \$10,000 better than budget of \$52,794. Expenses are expected to be on budget, resulting in a projected carry forward of \$53,435 for the year. Expenses for the year have been support for the student conference that was held in the Spring and student support at the June meeting

<b>HONORS &amp; AWARDS COMMITTEE</b>
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<http://opd.ans.org/chonors.html>  
(by Sophie Gutner – s\_gutner@yahoo.com)

### **Walter H. Zinn Award REFLECTIONS by this year's winner – Henry Stone**

Mr. St. Onge, Officers and Members of ANS and Guests.

I feel most honored to accept this award today and want to express my sincere appreciation for this honor. I understand it is customary to recite a couple of anecdotes and highlights of my experiences. Accordingly I have entitled these remarks as "Reflections" covering over 1/2 century.

About 40 years ago, while I was engaged in designs of advanced nuclear power plants for submarines we were asked to design a plant without the use of large reactor coolant pumps. We decided to use natural circulation as the coolant driving force. Natural circulation depends on the vertical distance between the heat sink, the steam generator, and the heat source, the reactor. We informed Admiral Rickover that we planned to use well known Bernoulli's equations and the conservation of energy to calculate reactor coolant flow. The Admiral was concerned about the effect of ship motion due to waves, while the submarine is on the surface. He insisted on a "full scale" experiment. He arranged for us to use one of the two reactors of the nuclear submarine Triton for a low power test.

I was in charge of a small group of GE engineers, supervised by an even smaller group of Naval personnel and we spent a week on board. The ship was commanded by Captain Edward Beach, the author of the book "Run Silent, Run Deep", which also became a movie. The Triton power plant was designed by us earlier and the ship had circumnavigated the world submerged. We boarded the submarine in Norfolk, VA and proceeded to the Atlantic ocean. We only needed waves to produce the required ship motion. Unfortunately there were no waves in sight,

so Captain Beach decided to manufacture our own waves by running the submarine in circles for some time. There were ships in our vicinity who no doubt transmitted their observations to the Soviet Navy and I wonder what they concluded. Luckily, but as expected, we were able to prove without a doubt that Bernoulli was correct and we designed the power plant for SSN 671 (100 numbers higher than the first nuclear submarine), the Narwhal.

During my first assignment out of college in the early 1950's we were working on our first nuclear power plant, which was cooled by liquid sodium. The then Captain Rickover had stated repeatedly that "if the oceans were made of sodium, GE would have elected to build a water cooled reactor plant". This same Admiral also stated that we in GE were the "best of a bad lot". Draw your own conclusions of the high regard under which we operated in those early days.

This plant had a top closure consisting of a rotating plug inside a stationary plug, separated by a very thin annulus. We were supposed to calculate the thermal distribution for various operating conditions. My management informed Captain Rickover that this was a textbook application of conduction heat transfer and that we were able to calculate these temperatures easily. Captain Rickover insisted on a full-scale experiment, which we reluctantly performed. We were embarrassed to learn that our calculations were wrong, since there were high temperatures in the upper region. We concluded that this was due to natural circulation of the hot sodium and we learned an important lesson.

During the design of this plant our computers were slide-rules, which were accurate at best to three significant figures, our software was a number 2 pencil, there were no charts of nuclides, no text books or applicable experiments. Our requirement was a plant with a core life of "x" equivalent full power hours. When our physicists completed the nuclear design it was determined that the accuracy was plus or minus "x" hours. This meant that we did not even know if the plant would start up and reach power the first time. Fortunately we met our requirements, primarily because we had applied conservative design-margins. This is the most important lesson that stayed with me from that day forward.

These design margins, applied in Commercial and Naval Plants to improve performance significantly in safety, radiation exposure, reliability, core designs and more recently allowed considerations of life extensions and significant power upgrades.

I transferred to the Commercial Nuclear Operation in the mid 1970's, at a time which Mr. Greespan would call a period of "irrational exuberance." Nuclear Steam Supply Vendors were required to promise multi-year supplies of Uranium at a time when prices were increasing and they

did not own this resource. In our case we were offering the BWR6 product line before the first BWR4 was operational and there were other examples of this "irrational exuberance." It took the Industry and Regulators several years to return to a more conservative enthusiasm and this was achieved and many lessons were learned. I was also working on the Advanced BWR, the ABWR, and I was able to ensure that all new features, which had not previously been tested, were full scale life tested before the plant design was offered. As you know two plant of this design were constructed in record time and have been operating successfully since then. Also additional plants of this design are either under construction or in the advanced planning stage.

Throughout these years of my experience I have never forgotten the words "conservatism" and "margin" and I am convinced that the progress that has been made was only possible because of conservatism and margins. It is very important not to become complacent and to forget these simple lessons. Similar to buying real estate where the three most important criteria are "Location", "Location" and "Location", the three most important criteria for a safe and future design are "Margins", "Margins" and "Margins". This is my challenge for this audience.

### **Honors and Award's Current Status**

By Sophie Gutner – [s\\_gutner@yahoo.com](mailto:s_gutner@yahoo.com)

- Let us remind you that you can evaluate the OPD sessions at the ANS Winter Meeting in Washington DC in November; the evaluation form is available on the OPD website ([opd.ans.org/chonors.html](http://opd.ans.org/chonors.html)) for you to print. If you are a Session Chair, remember to bring several forms to distribute to your audience. Your evaluations are used to determine the winners of the Mona Grimsley Best Session Award, the Best Paper Award(s), and the Excellent Presentation Award(s). It is very important that we receive as many evaluations as possible; fill them out at the meeting and mail them to Loyd Wright (his address is on the form). Best of luck to all the presenters and session chairs!
- The deadline for submitting a nomination for the prestigious OPD Walter H. Zinn Award is right around the corner: January 22nd, 2003. The nomination form is available on the OPD website([opd.ans.org/chonors.html](http://opd.ans.org/chonors.html)). If you need assistance in nominating someone for the Zinn Award, please contact Sophie Gutner.
- This year, OPD did not receive any nomination for the OPD Meritorious Performance in Nuclear Operations Award. Let's correct this for 2003. The deadline to submit your nominations is March 1st, 2003 and, of course, the form is available on the OPD website([opd.ans.org/chonors.html](http://opd.ans.org/chonors.html)). It is so simple to recognize your colleague(s) for outstanding performance!
- On a broader platform, you are strongly encouraged to nominate OPD members for the grade of ANS Fellows.

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## FALL 2002 OPERATIONS & POWER DIVISION NEWSLETTER

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Twice a year, the ANS Honors & Awards Committee receives nominations and selects new ANS Fellows. Let's ensure OPD members are well represented in this prestigious category. Check out the ANS website for information and instructions for nominating a new ANS Fellow. Contact anyone on the OPD Executive Committee if you need assistance.

### Utility Working Conference Awards

#### 1) UTILITY LEADERSHIP AWARD

The **Utility Leadership Award** was presented to **C. Lance Terry** (TXU Energy) in recognition and sincere appreciation of his efforts in working through the new security challenges facing the nuclear industry.

#### 2) UTILITY ACHIEVEMENT AWARD

The **UWC Awards Committee** selected the **Bryon Nuclear Station** and the **Turkey Point Nuclear Power Plant** as recipients of the **Utility Achievement Award** in recognition of outstanding achievement in programs and plant performance.

### OPD-RELATED SCHOLARSHIPS

The following scholarships were funded, either in part or entirely, by OPD (or its predecessor Divisions). The ANS Scholarship Policy Coordination Committee now administers these scholarships. Refer to <http://opd.ans.org/chonors.html> for more information about these scholarships. Let's congratulate this year's recipients of the following OPD scholarships:

#### 1) Robert G. Lacy Scholarship

Loren Patrick Roberts  
Kansas State University  
E-mail [lpro878@ksu.edu](mailto:lpro878@ksu.edu)

#### 2) Angelo F. Bisesti Scholarship

Alexis Lazarine  
Texas A&M University  
E-mail [lexlaz\\_2003@yahoo.com](mailto:lexlaz_2003@yahoo.com)

#### 3) Operations & Power Division Scholarship

Kevin Patrick Lynn  
University of Michigan  
E-mail [kplynn@engin.umich.edu](mailto:kplynn@engin.umich.edu)

technology." The meeting went very well with many attendees. We would like to thank Frank Buschman, [fxb129@psu.edu](mailto:fxb129@psu.edu), 814-865-6351!

### 2003 ANS STUDENT CONFERENCE

U.C. Berkeley is organizing the Student Conference for the spring of 2003. The 2003 ANS Student Conference, "Living in a Nuclear Free Zone" is scheduled for April 2-5, 2003. For more information, please contact Lance Kim at [lancekim@nuc.berkeley.edu](mailto:lancekim@nuc.berkeley.edu).

### CNC UPDATE

(by Kyle Turner – [kyleturn@att.net](mailto:kyleturn@att.net))

Things are more exciting today on the New Construction front than they have been in more than ten years! The news – and the corresponding cNc sessions at the Washington meeting – are discussed below. Read on...

Three electric generating companies, Dominion, Entergy, and Exelon, are in the process of preparing Early Site Permit (ESP) applications to request NRC approval of sites for future construction of commercial nuclear power plants. From the perspective of your Committee on New Construction, this represents the most tangible step forward towards licensing new nuclear power plants in the last ten years.

Actions are in place on all fronts to move forward with the pilot ESP applications. NRC has formed a New Reactor Licensing group to prepare for reviewing the ESP applications. DOE has awarded grants to each of the pilot applicants to help demonstrate the viability of the ESP approach. NEI is leading an industry task force to develop industry approaches to ESP application preparation and content and is coordinating liaison with NRC on clarifying regulatory issues. The three pilot applicants are well into their programs to submit applications in 2003.

In addition, DOE is well along in its exciting Nuclear Power 2010 program which, in addition to its ESP initiatives, includes several activities to promote development of advanced, commercially competitive nuclear power plants in the US. Funding for the program includes licensing demonstrations, advanced plant designs, and workforce issues.

The most important of a series of ESP sessions to date will be held at the ANS Winter Meeting in Washington, on Monday November 18, at 1:00pm. This session will feature principals in each pilot applicant's ESP projects as well as those from NRC, DOE, and NEI, who will discuss the status and scope of their respective efforts, and will provide insights into the overall business, regulatory, technical, and public relations approaches to early site permitting. Confirmed speakers include:

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### 2002 ANS STUDENT CONFERENCE

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Penn State organized the Student Conference April 10-13, 2002 with the theme "Back to the Future of nuclear



## FALL 2002 OPERATIONS & POWER DIVISION NEWSLETTER

Jim Lyons – NRC  
Tom Miller – DOE  
Russ Bell – NEI  
Joe Hegner – Dominion Resources  
Ken Hughey – Entergy  
Marilyn Kray – Exelon

The session will be chaired by cNc Co-Chair and ANS Officer Kyle Turner.

On Tuesday November 19 at 1:00 pm, a panel session on the NP 2010 program will be held. Speakers include utility, DOE, and NRC personnel, and the discussions will include program plans, funding, utility response, and licensing expectations.

The session will be chaired by cNc Co-Chair, Ted Quinn.

Session Participants include:

Tom Miller – DOE  
Ron Simard – NEI  
Gene Grecheck – Dominion  
Dan Keuter – Entergy  
Jim Lyons – NRC  
Andy Patterson – Scully Group

Please join us at these important sessions to learn about this important initiative and to hear about the ESP and NP 2010 programs from the individuals who are actively involved in this exciting initiative make new construction of nuclear power plants a reality.

**THIS IS A VERY EXCITING DEVELOPMENT IN OUR INDUSTRY,  
AND WE HOPE TO SEE MANY OF YOU AT THESE SESSIONS AND  
AT OUR cNc MEETINGS.**

### **ANS PRESIDENT'S POWER GENERATION OUTREACH SPECIAL COMMITTEE**

By Richard St. Onge (stongerj@songs.sce.com)

Members of the OPD Executive committee continue in their quest to develop and implement initiatives which will increase participation in the ANS by Power Generator industry personnel. There has been a steady decline in the past seven years in Power Generation participation and membership in the ANS. Much of this decline was due to shrinking staffs, early retirements, and general uncertainty about the power plants economic viability. The situation has improved significantly in the past two years with the wake up calls from around the country on what electrical power shortages can do to economic and social development. Today, nuclear plants are invaluable assets to the national grid and the employees of these facilities are the resources which keep these plants operating at

top efficiency. These resources strive to continually improve both equipment and human performance. ANS offers the venue for the exchange of cutting edge technical information and the development of nationwide networks with industry leaders and regulators alike. OPD's outreach efforts will bring the best of the best to the table of excellence. Don't be left out.

### **EXECUTIVE COMMITTEE NOMINATIONS**

(by Rich St Onge – stongerj@songs.sce.com)

#### Executive Committee Nominations

The slate for officer and executive candidates for the OPD Executive committee is being finalized. There are six executive positions to be filled and 2 officer positions (Secretary & Treasurer). The Nominating committee will be accepting proposed candidates through November 14, 2002.

This is a tremendous growth opportunity for mid level managers & supervisors to develop advanced leadership and decision making skills. These positions also offer established managers with a national forum to pursue their career accomplishments.

If you wish to nominate someone, please contact the ex OPD Chairman Richard St. Onge at stongerj@songs.sce.com.

### **OPD WEBSITE**

(By Sophie Gutner – s\_gutner@yahoo.com)

Don't hesitate to let the OPD Webmaster know how to make the website more interesting and useful to YOU. There are several categories in various stages and we are waiting to hear from you:

- **Presenting a Local Section:** let us hear from you if you are a Local Section Chair and if your Local Section is particularly active. This may be a way to let OPD members in your area know about your local section.

- **Featured Plant:** If you are proud of your plant (utility, vendor, etc...) and you want to share a specific achievement, here is your platform. This may be a way to let local OPD members know about your plant and maybe this can lead to plant tours for the local section.

- **FAQ:** What questions do you have about OPD, about ANS, etc. This will be especially important for new members. It can be a place to collect "tribal knowledge" about OPD. Send us your questions and we will post the answers for everyone.

- **Links:** A collection of your favorite work-related links, easy to find in one place. Send us your favorite links to add to our collection.

- **Editorials:** Let your voice be heard! Send us an editorial on an important ANS/OPD/nuclear-related issue.

### UWC 2002

(by Harold Stiles – Harold.stiles@pgnmail.com)

The challenge of “*Sustaining The Nuclear Revival*” was the main topic of discussion for about 300 industry leaders during the **9<sup>th</sup> Annual Utility Working Conference**, which met on August 11-14, 2002, at the Amelia Island Plantation in Florida. The participants represented over 30 U.S. and foreign nuclear utilities, the NRC, NEI, EPRI, NASA, major industry vendors and national laboratories. Many utilities were able to send multiple attendees, and those utilities were better able to take advantage of the concurrent format for the compressed 2 ½ day conference.

The technical program for the conference comprised roughly a hundred presentations that were organized into six tracks: Business, Engineering, Maintenance, Operations, Regulatory Relations, and Supply Chain. This year, for the first time, the presentations were compiled onto a CD and provided to the attendees after the conference.

The Business presentations emphasized the importance of current financial success to the future efforts to sustain the nuclear revival. In particular, the discussions centered around nuclear asset management, change management for continuing improvement, the business impact of specific engineering efforts, and the business health of the U.S. nuclear industry. The immediate response indicated that attendees appreciated the integrated perspectives provided by this particular venue.

The Engineering presentations shared valuable experience and insights on some of the top issues challenging the nuclear utilities. These issues included experience with the new mitigating system performance indicator, management of the engineering workload, NSSS aging and degradation, and the engineer’s role in power uprate and license renewal. The attendance at some of the sessions exceeded expectations and required additional chairs to be dragged into the meeting rooms.

The Maintenance presentations exemplified the concept that one of the best ways for the nuclear plants to sustain the nuclear revival is to do our job better today than we did it yesterday. Consequently, the presentations focused on aspects of work control, organizational and programmatic change management, effective and efficient resource utilization, and innovative technology applications. Audience participation during some of these sessions was tenacious and usually spilled out into the hallway during the breaks.

The Operations presentations strongly supported the conference theme, especially with insights from a

practical, day-to-day standpoint. The topics highlighted concerns like: training, the “Operations Focus,” rising standards of operations excellence, and operations infrastructure. Attendees to these sessions are expected to have no difficulty in meeting the conference objective, which is for each attendee to take something from the conference that can be used to improve plant performance.

Presentations for Regulatory Relations covered the gamut from today’s problems to tomorrow’s promises. The discussions included: NSSS aging and degradation, and plans for future nuclear reactors, with strong coverage of risk-informed regulation and environment. Attendees to these sessions continued to praise the uniqueness of this conference because of its frank and sometimes spirited interactions on important topics for which the participants hold deep convictions.

Supply Chain presentations reviewed real life experiences in how nuclear utilities have reduced cost through industry supply chain initiatives and helped to sustain the nuclear option by improving spare parts availability. Discussions were held on e-commerce, surplus inventory, the role of the integrator, and process and paradigm changes. The in-depth examination of the issues reflected the broad and multi-faceted backgrounds of the participants.

Some of OPD’s most prestigious awards were presented during the conference. The overall dramatic improvement and solid performance of the entire industry in recent years has stiffened the competition for the Utility Achievement Award. But, after much deliberation, the UWC Awards Committee selected the **Bryon Nuclear Station** and the **Turkey Point Nuclear Power Plant** as recipients of the **Utility Achievement Award** in recognition of outstanding achievement in programs and plant performance. The **Utility Leadership Award** was presented to **C. Lance Terry** (TXU Energy) in recognition and sincere appreciation of his efforts in working through the new security challenges facing the nuclear industry.

The Vendor Technology Expo was the largest ever held at a UWC, with exhibits and demonstrations of innovative technology, products and services. The strong vendor support of conference events contributed significantly to the success of the meeting and the enjoyment of the attendees and their guests. The expo was so successful that, before the end of this year’s conference, vendors had signed up for all available spaces at next year’s conference. Consequently, plans are being made to accommodate an even bigger and better Vendor Technology Expo for UWC 2003.

### UWC 2003



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## FALL 2002 OPERATIONS & POWER DIVISION NEWSLETTER

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Planning for the technical program for the 10<sup>th</sup> annual UWC (also at Amelia Island, Florida) on August 3-6, 2003 began immediately after the conference. **Pat McCloskey** (FirstEnergy) will serve as the Technical Program Chairman, with **Tom Snow** (Dominion Energy) as the Assistant Technical Program Chairman. The initial feedback from conference participants indicated that many are planning to return next year, because of the unique benefits realized from this well-rounded and informative conference.

For more complete information about UWC 2003, please visit <http://opd.ans.org/uwc.html>

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### INTERNATIONAL MEMBERS

(By Sophie Gutner – [s\\_gutner@yahoo.com](mailto:s_gutner@yahoo.com))

Did you realize that OPD has many international members? OPD has members from Canada, France, Spain, Saudi Arabia, Switzerland, England, Sweden, Brazil, Italy, Taiwan, Hong Kong, Republic of Korea, Mexico, Turkey, Egypt, Japan, Belgium, Austria, Germany, Australia, Indonesia, The Netherlands, Russia, South Africa, Portugal, Malaysia, Finland, and Uruguay. What an impressive list of countries!

Of course, our international members are not always able to attend our US meetings. We hope the OPD website and newsletter is a good way to stay in touch and share our diverse experiences. Let us hear from you from all over the world!

### 2002-2003 OFFICERS

Current Officers and Executive Committee members are listed at <http://opd.ans.org/offmemb.html>.

**Chair** – Edward (Ted) L. Quinn ([tedquinn@cox.net](mailto:tedquinn@cox.net))

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**2<sup>nd</sup> Vice-Chair** – Loyd Wright ([wrightla@songs.sce.com](mailto:wrightla@songs.sce.com))

**Secretary** – Mark Reinhart ([fmr@nrc.gov](mailto:fmr@nrc.gov))

**Treasurer** – Mark Reinhart ([fmr@nrc.gov](mailto:fmr@nrc.gov))

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**Atoms for Peace Speech by President  
Eisenhower**

**(NOTE: Full version is available on the  
OPD Website at [www.ans.org](http://www.ans.org))**

*United Nations General Assembly,  
December 8, 1953*

Madame President, Members of the General  
Assembly:

When Secretary General Hammarskjold's invitation to address this General Assembly reached me in Bermuda, I was just beginning a series of conferences with the Prime Ministers and Foreign Ministers of Great Britain and of France. Our subject was some of the problems that beset our world.

During the remainder of the Bermuda Conference, I had constantly in mind that ahead of me lay a great honor. That honor is mine today as I stand here, privileged to address the General Assembly of the United Nations.

At the same time that I appreciate the distinction of addressing you, I have a sense of exhilaration as I look upon this assembly.

Never before in history has so much hope for so many people been gathered together in a single organization. Your deliberations and decisions during these somber years have already realized part of those hopes.

But the great tests and the great accomplishments still lie ahead. And in the confident expectation of those accomplishments, I would use the office which, for the time being, I hold, to assure you that the Government of the United States will remain steadfast in its support of this body. This we shall do in the conviction that you will provide a great share of the wisdom of the courage and the faith which can bring to this world lasting peace for all nations and happiness and well-being for all men.

Clearly, it would not be fitting for me to take this occasion to present to you a unilateral

American report on Bermuda. Nevertheless, I assure you that in our deliberations on that lovely island we sought to invoke those same great concepts of universal peace and human dignity which are so cleanly etched in your Charter. Neither would it be a measure of this great opportunity merely to recite, however hopefully, pious platitudes.

I therefore decided that this occasion warranted my saying to you some of the things that have been on the minds and hearts of my legislative and executive associates and on mine for a great many months - thoughts I had originally planned to say primarily to the American people.

I know that the American people share my deep belief that if a danger exists in the world, it is a danger shared by all - and equally, that if hope exists in the mind of one nation, that hope should be shared by all.

Finally, if there is to be advanced any proposal designed to ease, even by the smallest measure, the tensions of today's world, what more appropriate audience could there be than the members of the General Assembly of the United Nations.