

DD&R Division Update Summer 2011

Message from the Chair - Larry Zull

This has been a year of rapid changes for the nuclear industry. A year ago, things looked good for the industry, as Vogtle was clearing part of the site for Units 3 and 4, and other utilities were negotiating with reactor vendors and architect engineers for new nuclear power stations, Older reactors were receiving 20 year life extensions from the NRC, and DOE was receiving money from the American Recovery and Reinvestment Act to decommission and cleanup facilities at their sites. Then came the March 11 earthquake and tsunami, which affected the Fukushima Daiichi reactors. Cooling systems to the reactors were knocked out by the tsunami, causing fuel rods to overheat. There were subsequently explosions in the buildings housing four reactors, three of which had been operating at the time of the earthquake. Engineers are pumping water into the reactors to cool them as they work to restore the damaged cooling systems. Water is leaking from the pressure vessel surrounding reactor 1, most likely because of damage caused by exposed fuel rods that have melted. TEPCO said that it may take up to nine months to achieve a cold shotdown of the reactor.

Plans are to decommission the reactors. D&D technology developed in the US can help. The Japanese will most likely perform the D&D themselves, but will subcontract some of the work to companies outside of Japan. Public approval of nuclear power plants has also decreased, and the "Nuclear Renaissance" has slowed. The ANS meeting in Hollywood, FL will have two sessions on Fukushima, with some speakers from Japan. There

will also be a D&D session, along with the other sessions listed in the Preliminary Program.

It has been a great honor to serve as your Chair for 2010-2011; thank you for electing me! Mr. John Bowen will take over the Chair position after the Hollywood meeting. The next meeting will be in Washington, DC from Oct 30 to Nov3, 2011. Hope you can make it to either the Hollywood or Washington, DC meetings.

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Articles and photos about your facility could appear here. Please contribute!

DD & R

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DDRD Governance News

The DD&R Division Executive Committee will welcome its Class of 2014 at the ANS Annual Meeting in Hollywood, Florida. Joining the committee are James Clark, Douglas Davis and Alastair MacDonald. The 2011-2012 division officers will begin their terms on June 26. They are: John Bowen, Chair; Nadia Glucksberg, Vice Chair / Chair Elect; and David Hillyer, Secretary / Treasurer. Larry Zull will serve in an ex officio capacity as the immediate Past Chair.

The Division also wishes to thank Andrea Hopkins and Frazier Bronson for their three years of service on the Executive Committee.

The 2011 DD&R Division Undergraduate Scholarship

Presented to

David W. Kamerman

Idaho State University

David is a Nuclear Engineering major entering his senior year at Idaho State with a current 3.60 GPA. David's scholarship application focused on the reutilization aspect of nuclear fuel reprocessing. David plans to attend the 2011 Winter Meeting in Washington and participate in several DDRD activities.

The DDRD Scholarship Committee, chaired by Mark Campagna, was impressed by the highly qualified group of applicants, and encouraged by their interest in the DD&R field.

Looking Ahead - DD&R 2012 Topical

DD&R 2012 is scheduled to coincide with the American Nuclear Society 2012 Annual Meeting; June 24 - 28 2012 in Chicago, IL. The meeting is being chaired by Mr. Pat Daly of Zion Solutions and the Technical Program Chair is Sue Aggarwal of Millennium Nuclear **Technologies** International, Inc. The meeting will include a Technology Exhibit and a tour of the Zion Nuclear Station. The Call for Papers for DD&R 2012 is now at http://ddrd.ans.org/pdf/DDR2012-Call.pdf . Abstracts can be submitted between October 1, 2011 and January 13, 2012. This meeting is a follow on to the very successful Topical Meetings in Denver in 2005, Chattanooga in 2007 and Idaho Falls in 2010.

For more information or to volunteer to help please contact either Sue Aggarwal — Technical Program Chair, Phone: (303) 984-5788 • E-mail: saggarwal@nmnuclear.com, Jim Byrne — Asst. Technical Program Chair Phone: (717) 676-6600 • E-Mail: jbyrne4424@comcast.net or Rob Woodard — Zion Solutions rcwoodard@energysolutions.com (224) 789-4065

~~ New Member Benefit for 2012 ~~

The DD&R Division will provide a membership incentive at the beginning of 2012, during which the first 100 new members will receive a complimentary subscription to RadWaste Solutions magazine. Please encourage your colleagues and those working on projects in the nuclear decommissioning industry to join you in becoming a member of ANS and our DD&R Division, or if they were a member in 2010, encourage them to renew their membership in ANS and the DD&R Division.



DD&R Division Update Summer 2011

Welcome New Members

A Year's Worth - April 2010 to May 2011

Mr. Ian C. Whittaker	BATTELLE MEMORIAL INSTITUTE	Mr. Jubal W. Collins	DENUKE SERVICES
Mr. Charles Gribble	CALIFORNIA EPA/DTSC	Ms. Julià R. Dinner	CANDESCO
Mr. Ibrahim K. Toukan	MIT	Ms. Peggy Jo Gramer	UNIVERSITY OF MICHIGAN
Mr. Kevin E. Ard	MID COLUMBIA ENGINEERING, INC.	Miss Kathleen M. O'Connell	VIRGINIA COMMONWEALTH UNIVERSI
Mr. Paul M. Longsworth	FLUOR	Mr. Michael J. Perry, Jr.	UNIVERSITY OF MASSACHUSETTS LO
Miss Jennifer M. England	UNIVERSITY OF MISSOURI/COLUMBI	Mr. Lowell D. Pittman, Jr.	BARTLETT NUCLEAR
Mr. Milton B. Whitfield	HAYNES AND BOONE, LLP	Dr. Yuko Kani-Hino	HITACHI, LTD
Mr. Geoffrey R. Bull	U.S. ARMY	Mr. Thomas M. Crabtree	OREGON STATE UNIVERSITY
Mr. Josef P. Cox	ENTERGY NUCLEAR VERMONT YANKEE	Mr. Ronald J. Unz	INSTITUTE FOR CLEAN ENERGY TEC
Mr. Kevin C. Leonard	EXELON NUCLEAR	Mr. Michael C. Hollister	ABZ, INC.
Mr. Lawrence Curtis, Jr.	WRPS	Mr. Thomas B. Axley, Jr., P.E.	TVA
Mr. Jay Peters	HALEY & ALDRICH	Mr. Bradley K. Porlier	FLUOR
Mr. Philip G. McDermott	UNDERWATER CONSTRUCTION CORP.	Mr. Philippe Gros-Gean	ONET TECHNOLOGIES
Mr. Dustin G. Miller	ENERCON SERVICES INC	Mr. Robert B. Roberts	U.S. NAVY
Mr. Steven K. Bleistein	STAUBLI CORPORATION	Mr. Noel J. Gonzalez, Jr., P.E.	FRANKLIN'S KITE LLC
Mr. Kelly J. McGrath, P.E.	GDF SUEZ NA	Mr. Mark T. Young	UNIVERSITY OF UTAH
Mr. Howard G. Stevens	STUDSVIK	Ms. Keri R. Campbell	UNIVERSITY OF NEVADA/LAS VEGAS
Mr. Michael T. Ring	GEORGIA INSTITUTE OF TECHNOLOG	Mr. Corey Keith	UNIVERSITY OF NEVADA LAS VEGAS
Mr. Iain L. Macdonald	YRM ARCHITECTS	Mr. Tim R. McKinsey	PAUL C. RIZZO ASSOCIATES
Mr. Mel Guymon	GOOGLE	Mr. Nicholas D. Bauer	TEXAS A&M UNIVERSITY
Mr. M. Tyson Krieger	IDAHO STATE UNIVERSITY	Mr. Alexander J. Dixon	UNIVERSITY OF CALIFORNIA - BER
Mr. Jeffrey A. Deeds	ENERGYSOLUTIONS	Miss Claire Dinkel	NOVA MACH. PRODDIV OF C/W FL
Mr. Joshua T. Jones	OHIO STATE UNIVERSITY	Mr. Bruce R. Shelander, Jr.	UNIVERSITY OF TENNESSEE-KNOXVI
Mr. Bhavik N. Pațel	THERMOFISHER SCIENTIFIC	Ms. Whitney L. West	NAC INTERNATIONAL
Miss Kailen M. Shores	MISSOURI UNIV. OF SCIENCE & TEC	Dr. Nicholas Evans	LOUGHBOROUGH UNIVERSITY
Mr. Henry A. Sammerson	AREVA	Mr. John K. Deng	VIRGINIA COMMONWEALTH UNIVERSI
Mr. George M. Fekete	UNIVERSITY OF FLORIDA	Ms. Adrienne B. Smith, P.E.	NUTHERM INTERNATIONAL, INC.
Mr. Nicholas R. Porter	THREE RIVERS COMMUNITY COLLEGE	Miss Elizabeth A. Mohan	UNIVERSITY OF MASSACHUSETTS-LO
Mr. Tashi P. McSweeney	THREE RIVERS COMMUNITY COLLEGE	Mr. Nelson D. Lopez	VIRGINIA COMMONWEALTH UNIVERSI
Miss Jeu Moua	AREVA NP	Dr. Wheeler Conover	SOUTHEAST KENTUCKY CTC
Mr. Joe Ferrell	BABCOCK & WILCOX NUCLEAR ENERG	Mr. Justin G. Marsh	UNIVERSITY OF NORTH CAROLINA
Mr. Joseph A. Bugica	BABCOCK & WILCOX	Mr. Jordan E. Gladden	TRANSWARE ENTERPRISES
Mr. Rob W. Hale	OLDENBURG GROUP INC.	Mr. Steven V. Heard	
Mr. Adam H. Borcz	<i>USEC</i>	Mr. James Pai	NGP ENERGY TECHNOLOGY PARTNERS
Mr. Aidan M. Boyle	UNIVERSITY OF WISCONSIN-MADISO	Mr. Rock P. Neveau	SAFETY & ECOLOGY HOLDINGS
Mr. Benjamin S. Jessup	ABZ, INC.	Mr. John J. Flynn	TRI NUCLEAR CORP
Ms. Carol W. Jenkins	BLUEGRASS CONCRETE CUTTING, IN	Mr. Gaurav Pant, P.E.	THE SHAW GROUP
Mr. Adam M. Langbehn	IDAHO STATE UNIVERSITY	Mr. Corey Munz	ENTERGY
Dr. Evaristo J. Bonano	SANDIA NATIONAL, LABORATORIES	Mr. Matthew F. Aubert	NEW MEXICO JUNIOR, COLLEGE
Mr. Curtis A. King	PACIFIC NORTHWEST NATIONAL LAB	Mr. Brandon D. Stuckey	N/A
Mr. Michael E. Ginzel	ENTERGY	Mr. John Enger, P.E.	SHAW GROUP

DD & R

DD&R Division Update Summer 2011

2011 Winter Meeting News

The 2011 Winter Meeting program is shaping up. The program committee and volunteer session organizers have identified a number of interesting topics, and are receiving and reviewing papers now. If one of these areas interests you, please feel free to contact the division.

Draft Session Title and Chair

Best of DD&R 2010 - Jim Byrne. Invited papers presenting a range of subjects from the 2010 Topical.

Decommissioning of Small Modular Reactors - Mark Campagna. As interest deepens in this industry segment, it's not too early to think about the end of the lifecycle.

ARRA Program Successes - Mark Campagna and Dennis Ferrigno. Lessons learned and challenges overcome by the DOE in managing its many ARRA-funded projects.

Radium Girls and the D&D of their Legacy - Jay Peters and Stuart Walker. A interesting look into this little-known, yet critically important aspect of our industry.

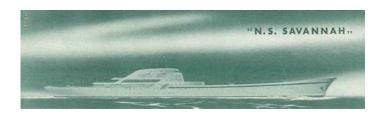
FUSRAP Sites - David Hillyer. The complexity of these Manhattan Project legacy sites continues to provide great topic matter for discussion.

License Termination - John Parkyn. A panel discussion and tutorial on this complex and often challenging phase of decommissioning.

Fukushima Daiichi - John Gunning. An overview of the event sequence and known conditions, with proposed possible decommissioning paths.

General DD&R - Nadia Glucksberg. Don't let the title fool you - there's always some new to be learned in the complex field of commercial D&D.

Extra - Curriculars



A DD&R Division Special Event for the 2011 Winter Meeting

Less than an hour north of the Omni Shoreham Hotel, in the Canton section of the Port of Baltimore, lies the ANS Nuclear Historic Landmark, N.S. *SAVANNAH*. The world's first nuclear-powered merchant ship will be the host site for one of the DDRD technical sessions during the winter meeting. Bus transportation to and from the hotel with lunch will be available for a price of \$25. Details will be posted to the ANS website after the paper-reviews are completed in late July. Also look for information in the preliminary program when it is published.



Welcome Aboard!

CALL FOR PAPERS - Abstract Deadline: January 13, 2012

ANS Embedded Topical on Decommissioning, Decontamination and Reutilization and Technology Expo



Sponsored by the ANS Decommissioning, Decontamination & Reutilization Division

June 24-28, 2012 · Chicago, IL · Hyatt Regency Chicago

"Decommissioning - New Approaches"

CONFERENCE PURPOSE

The ANS Topical DD&R Meeting is a forum for the discussion of the social, regulatory, scientific, and technical aspects of decontamination, decommissioning, and reutilization, and waste management. The 2012 conference program will include commercial, government, and international project updates as well as present project management, technology, and regulatory developments in the areas of decommissioning, waste management, site closure and legacy management. The conference will be embedded in the ANS National Meeting for 2012 which will provide Technical sessions and opportunities beyond those in the decommissioning area.

In addition to a comprehensive technical program, there will be a Technology Expo, technical tours, and numerous fun activities and opportunities for attendees and quests to enjoy Chicago at its finest.

IMPORTANT DATES

SUBMISSION OF SUMMARIES: October 1, 2011-January 13, 2012 AUTHOR NOTIFICATION OF ACCEPTANCE: By March 2, 2012 REVISED SUMMARIES DUE: March 16, 2012

MEETING OFFICIALS

General Chair

Patrick Daly, General Manager, ZionSolutions

Technical Program Chair

Sue Aggarwal, President, New Millennium Nuclear Technologies International

Assistant Technical Program Chair

James Byrne, Principal, Byrne & Assoc., LLC

INSTRUCTIONS FOR AUTHORS

Contributors are invited to submit abstracts on the conference topics list. The abstract should contain sufficient detail to allow the merit of the paper to be judged. The Technical Program Committee will decide whether the paper will be presented at a technical session or as a poster.

FORMAT

Authors are now REQUIRED to use the ANS Template and "Guidelines for TRANSACTIONS Summary Preparation" provided on the ANS Web site.

Summaries must be submitted electronically using Adobe Acrobat (PDF) files and original Microsoft Word documents and the ANS Electronic Paper Submission and Review System. Summaries not based on the ANS Template will be REJECTED.

GUIDELINES FOR SUMMARIES

Please submit summaries describing work that is NEW, SIGNIFICANT, and RELEVANT to the nuclear decommissioning industry. ANS will publish all accepted summaries in the Topical Meeting Proceedings for the meeting. Papers are presented either orally or via a poster at the meeting, and presenters are expected to register for the meeting.

Completed papers may be published elsewhere, but the summaries become the property of ANS. Under no circumstances should a summary or full paper be published in any other publication prior to presentation at the ANS meeting. It is the author's responsibility to protect classified or proprietary information.

CONTENT

- 1. Introduction: State the purpose of the work.
- 2. Description of the actual work: Must be NEW and SIGNIFICANT.
- 3. Results: Discuss their significance.
- 4. Appendixes: If any, must be called out in the text. Equations, figures, and tables are listed with letters corresponding to each respective appendix.
- 5. References: If any, must be closely related published works. Minimize the number of references.
- 6. Do not present a bibliographical listing.

LENGTH:

- 1. Use at least 450 words, excluding tables and figures.
- 2. Use no more than 900 words, including tables and figures.
- 3. Count tables and figures as 150 words each. Use no more than three tables or figures.
- 4. Limit title to ten words; limit listing authors to three or fewer if possible.
- 5. Exclude references from word count.

PAGE CHARGE

ANS charges \$25 per final printed page (prorated) in the Topical Meeting Proceedings. Authors should be prepared to provide their purchase order numbers when submitting their summaries electronically.

WHERE TO SUBMIT A SUMMARY FOR REVIEW

Submit summaries via the ANS website (www.ans.org/meetings). If you experience problems submitting your abstract via the web, please notify Ellen Leitschuh (708-579-8253 - eleitschuh@ans.org).

FINAL SUMMARY PREPARATION FOR PUBLICATION IN CONFERENCE TRANSACTIONS

After the Technical Program Committee reviews the submissions, authors of accepted summaries will receive instructions for preparation of final summaries. Summaries will be included on the proceedings CD, which will be distributed at the beginning of the conference.

FOR MORE INFORMATION CONTACT

Sue Aggarwal - Technical Program Chair Phone: (303) 984-5788 · E-mail: saggarwal@nmnuclear.com

Jim Byrne - Asst. Technical Program Chair Phone: (717) 676-6600 · E-Mail: jbyrne4424@comcast.net

DD&R WEBSITE

http://ddrd.ans.org

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CONFERENCE TOPICS

PROJECT TRACK

DOE Projects

Commercial Nuclear Plants Decommissioning Projects

International Decommissioning

EPA/DoD Projects

Fast Reactor Decommissioning Projects

Site and building remediation/rehabilitation

NORM/UMT/Smaller Non-Reactor Issues/Projects

Stakeholder Involvement

TECHNOLOGY TRACK

Low Level Radioactive Waste Management

Groundwater issues Monitoring and remediation

Waste Management Technology Developments

Decommissioning and Decontamination Technology Developments

Final Status Survey & Radiation Measurement Technology Developments

Other Innovative technologies and feedback experience

MARSSIM/Site Release/LTP/FSS

Dose Modeling/RESRAD/D&D

Regulatory Infrastructure for Technology Development

REGULATORY, LESSONS LEARNED TRACK

Capturing Best Practices and Other Lessons Learned

Project Infrastructure & Regulatory Criteria

Environmental Issues in Decommissioning

State Regulatory Issues that can Affect Decommissioning

Long-Term Surveillance and Maintenance of DOE and Commercial Facilities

Regulatory Infrastructure Long Term Surveillance and Maintenance of Sites

SAFSTOR, Entombment and Spent Fuel Storage

Reutilization of Closed Sites/Facilities

Stakeholder Involvement/Public Relations

Records Management

Contracts Management