



RPSD Newsletter

September, 2008

American Nuclear Society Radiation Protection and Shielding Division

<http://rpsd.ans.org>

Message from the Chair

John S. Hendricks

Greetings fellow RPSD members!

Radiation Protection and Shielding is fundamental to nearly all aspects of nuclear science and engineering. Our membership boasts leaders in radiation shielding, modeling, detectors, therapy, homeland security, nuclear safeguards, space exploration, oil exploration, diagnostics, sources, and much more.

For 2008 RPSD continues to thrive. Our division has ~1300 members and our balance sheet is comfortably positive. We continue to offer an outstanding technical program, both at national meetings and our biennial topical meetings. We continue to pioneer free code tutorials, “Best of RPSD” sessions, and other innovative programs.

This year when you re-apply for ANS membership we hope you choose to sign up for or continue to belong to RPSD. Our focus is upon codes, data, detectors, shielding analyses, radiation protection, and tools available now – not those under development which may or may not be available later. Networking with our members is fantastic! Our officers and members are leaders from National Labs, Universities, the nuclear industry, medicine, Government Agencies, and more.

Governance: You are invited to the RPSD Technical Program Committee Meeting and the RPSD Executive Committee Meeting on Monday, November 10, Cascade 1 room, 4-5 p.m. and 5-6:30pm, at the ANS Winter Meeting in Reno.



I look forward to seeing you at our tutorials, roundtables, technical sessions and other fine programs from RPSD!

Meetings & Programs

Charlotta Sanders, Technical Program Chairman

ANS Winter Meeting, Reno, Nevada, November 9-13, 2008

RPSD has an excellent technical program planned for the ANS Winter Meeting in Reno, NV. The meeting will feature two full sessions of the best papers selected from the RPSD2008/ICRS-11 topical meeting held earlier this year at the Callaway Gardens in Georgia. Further, a roundtable discussion of current topics in Radiation Protection and Shielding is planned for Monday afternoon. You are invited to give a short presentation on any topic of interest on a first-come/first-serve basis. This is meant to be a fast-paced, informal, and fun session.

Please plan to stay for the whole meeting. On Wednesday RPSD is presenting an ATTLA tutorial and on Thursday morning an MCNP/X tutorial. Thursday afternoon features Nuclear Engineering and Nuclear Science in Nevada, and you may also want to consider the panel on Nuclear Research and Education Developments in Nevada scheduled for Monday afternoon.

Note that the ANS Reno Meeting Technical Program Chair is Robert B. Hayes, the Vice Chairman of the Radiation Protection and Shielding Division.

RPSD2008/ICRS-11 Topical Meeting Report

The RPSD biennial topical meeting was held at beautiful Callaway Gardens, Georgia, April 13-18, 2008. This was a joint meeting of the Radiation Protection and Shielding Division (RPSD2008) and the 11th International Conference on Radiation Shielding (ICRS-11). The technical program featured 325 papers in parallel oral technical sessions, tutorials, and poster sessions. Of the papers, 43% were from North America, 30% from Europe, and 27% from Asia. Many of the best papers are being repeated or updated at "The Best of RPSD2008" sessions at the ANS Winter Meeting in Reno, Nevada, November 9-13, 2008. Hands-on tutorial sessions included the tools of radiation protection and shielding: NJOY, SCALE, FLUKA, TRIPOLI, MCNP/X (repeated in Reno), Monte Carlo Burnup / Depletion, Monte Carlo electron transport, and Monte Carlo setup and visualization with MORITZ.

MCD2009, Saratoga Springs, NY, May 3-7, 2009

Saratoga Springs, New York, will host the 2009 Mathematics and Computation Topical Meeting at the Saratoga Hotel and Conference Center. For more information, please go to <http://local.ans.org/ne-ny/>.

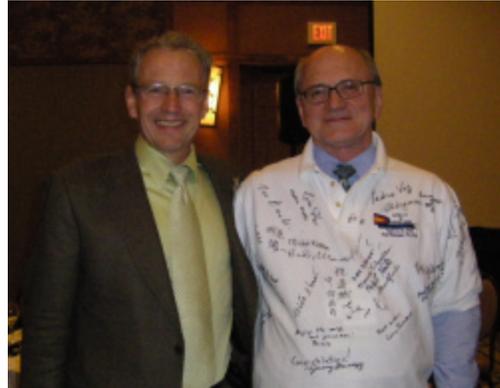
RPSD2010, Las Vegas, NV, April 19-23, 2010 - Rob Hayes, NSTec

Las Vegas will host the 2010 Radiation Protection and Shielding Division's topical meeting as a joint topical meeting with the Isotopes and Radiation Division (IRD) and the Biology and Medicine Division (BMD). Tours of the Nevada Test Site and Yucca Mountain are expected along with other venues including the Atomic Testing Museum. Of particular note is the outstanding technical content we have so long enjoyed from these topicals. If you have ever attended an RPSD topical, I am preaching to the choir. If you have not attended one of these your topicals, then you are in for a delicious surprise if you find yourself able to make the meeting. With the new addition of 2 sister divisions (IRD&BMD), the additional radiochemistry topics such as nuclear forensics and low level assay will be a welcome addition along with the other technical sessions expected to be added by this collaboration. Please plan on attending the 2010 topical to see the barrage of quality presentations on the truly cutting edge work in our field.

Honors and Awards

Arzu Alpan

The Rockwell Lifetime Achievement Award was presented to Dr. Enrico Sartori at the RPSD2008/ICRS-11 Meeting at Callaway Gardens, Georgia in April 2008. The award consisted of a plaque and a \$500 monetary award. The Rockwell Lifetime Achievement Award is based on long-term or lifetime achievement in research, technology development, or education in the fields of radiation protection, shielding or dosimetry. Congratulations to Dr. Enrico Sartori!



Award recipient Dr. Enrico Sartori (right) wearing his signatory conference T-shirt with the division chair Dr John Hendricks (left).

ANS 6 Standards Report

Bill Hopkins, Standards Chair

1. John Wagner has asked to step down as chair of ANS 6.6.1 after successfully getting the reaffirmation of ANSI/ANS-6.6.1-1998, "Calculation and Measurement of Direct and Scattered Gamma Radiation from LWR Nuclear Power Plants." Please contact Bill Hopkins at wchopkins@insightbb.com if you would like to chair the next revision of this standard.
2. Based on feedback from the RPSD newsletter poll on resurrecting ANS-6.4.3, Gamma-Ray Attenuation Coefficients & Buildup Factors for Engineering" as an official ANSI standard, Jeff Ryman has agreed to chair a new working group for this. Dick Faw has

also agreed to join Jeff in this project. A new PINS form is in the works. Contact Jeff at rymanjc@excite.com or rymanjc@yahoo.com

3. F. Arzu Alpan's working group for ANS-6.1.2, "Neutron and Gamma-Ray Cross Sections for Nuclear Radiation Protection Calculations for Nuclear Power Plants" (revision of ANSI/ANS-6.1.2-1999) has voted to reaffirm this revision so that they may have more time to update the standard. This motion to reaffirm is now at the N17 level for review and approval.

4. Nolan Hertel is reviewing the logistics of a new revision and/or a temporary reinstatement of ANS-6.1.1-1991, "Dose Conversion Coefficients" and the possible separation of the standard into two separate standards. One on operational quantities --- ambient dose equivalent, personal dose equivalent, and directional dose equivalent. The second one would be for effective dose whose definition and radiation weighting factors were just changed in ICRP Publication 103.

RPSD Officers and Committees

Officers:

Chair: John S. Hendricks, LANL, jxh@lanl.gov

Vice Chair: Robert Hayes, NSTec, hayesrb@nv.doe.gov

Secretary: Charlotta Sanders, UNLV, sander59@unlv.nevada.edu

Treasurer: F. Arzu Alpan, Westinghouse, alpanfa@westinghouse.com

Executive Committee: (year term expires)

Richard S. Amato (2011), padamato@verizon.net

John D. Court, LANL (2011), davec@lanl.gov

Michelle Sutton Ferenci, GaTech (2011), michelle.sutton@mindspring.com

Everett L. Redmond II, NEI (2010), elr@nei.org

Jennifer Tanner, PNL (2009), Jennifer.tanner@pnl.gov

Larry Townsend, University of Tennessee (2009), ltownsen@tennessee.edu

X. George Xu, RPI (2010), xug2@rpi.edu

Note: David Anderson resigned the executive committee to serve as the chair of the National Program Committee, congratulations and thanks David for your devoted service to RPSD, we hope and expect to still enjoy your attendance at our meetings.

Standing and Special Committee Chairs:

Program – Charlotta Sanders, UNLV, sander59@unlv.nevada.edu

Membership – Arzu Alpan, Westinghouse, alpanfa@westinghouse.com

WWW Site & Bylaws - Erik Shores, LANL, eshores@lanl.gov

Honors and Awards – Dave Court, LANL, davec@lanl.gov

Scholarship – John Poston, TAMU, j-poston@tamu.edu

Benchmarks – Dick Amato, BAPL, amators@bettis.gov

Standards – Bill Hopkins, Bechtel, retired, wchopkins@insightbb.com

ANS Board Liaison – Joe F. Colvin

Staff Liaison – Sharon S. Kerrick

Ex-Officio – Donald R. Hoffman, John C. Wagner