



# NEWSLETTER

JANUARY 1998

RADIATION PROTECTION AND SHIELDING DIVISION

<http://www-rsicc.ornl.gov/rpsd/RPSD.html>

**Officers and  
Committee Members  
July 1997**

**Chair**

Jess Greenborg (1998)  
Phone 509-376-3482  
Fax 509-376-6282  
Jess\_Greenborg@rl.gov

**Vice-Chair-Chair elect**

**Bernadette L. Kirk** (1998)  
Phone 423-574-6176  
Fax 423-574-6182  
blk@ornl.gov

**Secretary**

Laurie S. Waters (1998)  
Phone 505-665-4127  
Fax 505-665-5388  
lsw@lanl.gov

**Treasurer**

Jeffrey C. Ryman (1998)  
Phone 423-576-4423  
Fax 423-576-3513  
cjr@ornl.gov

**Immediate Past President**

John W. Poston, Sr. (1998)  
Phone 409-845-4161  
Fax 409-845-6443  
jwp8890@acs.tamu.edu

**Standing Committees**

**Program**

**Ray Klann**

Phone 208-533-7673  
Fax 208-553-7151  
klann@anl.gov

**R. T. Perry**

Phone 505-665-3521  
Fax 505-665-3167  
rtperry@lanl.gov

**Membership Jennifer Tanner** (1998)

Phone 509-376-7916  
Fax 509-376-1992  
je-tanner@ccmail.pnl.gov

**Nominations John W. Poston, Sr.**

Phone 409-845-4161  
Fax 409-845-6443  
jwp8890@acs.tamu.edu

**Honors & Awards Michael Momeni**

Phone 217-785-9925  
Fax 217-524-0026  
mhmomeni@heartland.bradley.edu

**ANS-6 Standard Bill Hopkins**

whopkins@bechtel.com

**Benchmarks Bob Roussin**

Phone 423-574-6176  
Fax 423-574-6182  
rwr@ornl.gov

**ANS 6 STANDARDS**

The following ANS 6 Standards have been reaffirmed with revision under ANSI:

- ANS 6.1.2 "American National Standard - Neutron and Gamma-Ray Cross Sections for Nuclear Radiation Protection Calculations for Nuclear Power Plants."
- ANS 6.4 "Guidelines on the Nuclear Analysis and Design of Concrete Radiation Shielding of Nuclear Power Plants"

The following ANS 6 Standards have been reaffirmed without revision under ANSI:

- ANS 6.3.1 "Program for Testing Radiation Shields in Light Water Reactors (LWR)"
- ANS 6.4.2 "Specification for Radiation Shielding Materials"
- ANS 6.6.1 "Calculation and Measurement of Direct and Scattered Gamma Radiation from LWR Nuclear Power Plants"

Dean Kaul, Chairman on ANS 6.1.1 -- "Neutron and Gamma-Ray Fluence-to-Dose Factors" is reconstituting his working group to consider new issues such as accelerator energies, quality factors, ICRP models. If you are interested, contact him at 619-546-6563.

If there are other RPSD issues which are standards candidates, please contact Bill Hopkins at 301-417-3341 or at whopkins@bechtel.com.

## RPSD PROGRAM COMMITTEE NOTES

Plan to attend the next RPSD Topical Meeting in Nashville, TN, April 19-23, 1998.

The year 2000 RPSD Topical Meeting was awarded to the Eastern Washington Section. The tentative plan for the meeting is for September, 2000 in Spokane, Washington. Start thinking about a paper topic for the meeting and plan on attending. It is early in the planning stages and if you are interested in becoming a member of the Technical Program Committee for the meeting please contact me via e-mail, phone, or letter. Please include your name, address, e-mail, phone, fax numbers, and area of expertise in your submittal.

RPSD conducted its first remote electronic review for the national meeting just held in Albuquerque. It went fairly well for a first time and it is expected to only get better. We will be continuing the electronic reviews for the national meetings in the future. If you would like to participate, please send me an e-mail at klann@anl.gov listing your name, address, e-mail address, and phone number. In addition, for the ANS winter meetings, I am still requesting that we have several members on-site to organize sessions, write revision letters, select best paper candidates, etc. If you are interested in attending a paper review, please contact me.

Here is a calendar of upcoming meetings of interest to the Division:

- |                      |   |  |
|----------------------|---|--|
| April 19-23, 1998    | - | Nashville, TN - RPSD Topical Meeting                                 |
| June 7-11, 1998      | - | Nashville, TN - 1998 ANS Annual Meeting                              |
| November 15-19, 1998 | - | Washington, D.C. - 1998 ANS Winter Meeting                           |
| June 6-10, 1999      | - | Boston, MA - 1999 ANS Annual Meeting                                 |
| October 17-22, 1999  | - | Tsukuba, Japan - 9th International Conference on Radiation Shielding |
| November 14-18, 1999 | - | Long Beach, CA - 1999 ANS Winter Meeting                             |
| September 2000       | - | Spokane, WA - RPSD Topical Meeting                                   |

Ray Klann klann@anl.gov 208-533-7673

**Executive Committee**

**Joseph C. Braun**  
 Phone 630-252-5574  
 Fax 630-252-4500  
 joebraun@anl.gov

**Donald J. Dudziak** (2000)  
 Phone 919-515-2301  
 Fax 919-515-5115  
 dudziak@ncsu.edu

**Cris S. Eberle** (1999)  
 Phone 208-533-7371  
 Fax 208-533-7471  
 cris@anl.gov

**Jess Greenborg**  
 Phone 509-376-3482  
 Fax 509-376-6282  
 Jess\_Greenborg@rl.gov

**Jeffrey O. Johnson** (2000)  
 Phone 423-574-5262  
 Fax 423-574-9619  
 joj@ornl.gov

**Bernadette L. Kirk**  
 Phone 423-574-6176  
 Fax 423-574-6182  
 blk@ornl.gov

**Dominic Napolitano** (1998)  
 Phone 770-447-1144 ext 233  
 Fax 770-447-1797  
 dom\_napolitano@nacintel.com

**John W. Poston, Sr.**  
 Phone 409-845-4161  
 Fax 409-845-6443  
 jwp8890@acs.tamu.edu

**Jeffrey C. Ryman**  
 Phone 423-576-4423  
 Fax 423-576-3513  
 cjr@ornl.gov

**Ken Shultis** (1998)  
 Phone 913-532-5626  
 Fax 913-532-6952

**Keith B. Spinney** (1999)  
 Phone 508-568-2039  
 Fax 508-568-3700  
 spinney@yankee.com

**Jennifer E. Tanner**  
 Phone 509-376-7916  
 Fax 509-376-1992  
 je-tanner@ccmail.pnl.gov

**Nick Tsoulfanidis** (1999)  
 Phone 573-341-4745  
 Fax 573-341-4192  
 tsoul@umr.edu

**James K. Warkentin** (2000)  
 Phone 817-897-8642  
 Fax 817-897-0545  
 n\_kwarkent@cpvax.cpses.tu.com

**Laurie S. Waters**  
 Phone 505-665-4127  
 Fax 505-665-5388  
 lsw@lanl.gov

**Staff Liaison Sharon Kerrick**  
 Phone 708-579-8230  
 Fax 708-352-0499  
 skerrick@ans.org

**HONORS AND AWARDS**

**Rockwell Award** The Lifetime Achievement Award is a recognition by the Radiation Protection and Shielding Division for outstanding individual contribution in research and development or education in the fields of radiation dosimetry, shielding and radiation protection. The Award was bestowed in 1997 on *Wilbur L. Bunch*. Among his many outstanding contributions are design of high density concrete for shielding of production reactors, reactor modification and analysis, conceptual design of Fast Flux Test Facility, design and evaluation of FFTF shields. He was the chairman of RPSD during 1978. Mr. Wilbur Bunch profoundly contributed to the evolution of radiation shielding techniques.

**The Distinguished Service Award** This award is an annual recognition by the Radiation Protection and Shielding Division for outstanding individual services to the division. The 1997 award was bestowed on *Dr. William T. Urban*. He has diligently served the American Nuclear Society and the division in many capacities including the chairman of the Radiation Protection and Shielding Division (1993-1994), the chair of the RPSD Honors and Awards Committee and the chair of RPSD Technical Program Committee. Dr. Urban's long-term contribution is an example of commitment and dedicated service.

**Outstanding Papers** The Radiation Protection and Shielding Division selects the Best Paper at each annual meeting of the American Nuclear Society. At the winter meeting of the American Nuclear Society, Albuquerque, New Mexico, the following three outstanding papers were judged:

D. G. Napolitano, N. J. Romano, N. E. Hertel, and Y. J. Yu, "Shielding Analysis of the NAC-MPC Storage System"

N. E. Hertel and D. G. Napolitano, "Modification and Benchmarking of SKYSHINE-III for Use with ISFSI Cask Array"

K. B. Jones, "Site Dose Calculation for the INEEL/TMI-2 Storage Facility."

The judges elected the paper "Shielding Analysis of the NAC-MPC Storage System" as the Best Paper.

**PSD H&A Chairs Request** A major objective of the RPSD H&A Committee is to identify and recognize outstanding scientists who have contributed in research and development or education in radiation dosimetry, shielding and radiation protection. Many outstanding active or retired scientists have not yet received RPSD recognition. The committee requests your assistance and the assistance of the ANS local organizations to identify and nominate these individuals for recognition. Your help is requested.

Michael H. Momeni, Ph.D.  
 M&A Monitoring and Assessment Associates  
 Environmental and Radiological Programs  
 Chatham, Illinois 62629

**AccApp'98**

The ANS Accelerator Applications Technical Working Group will hold its second topical meeting, AccApp'98, in Gatlinburg, Tennessee, Sept. 20-23, 1998, at the Park Vista Hotel & Conference Center. AccApp'98 will provide for discussion of the uses of particle accelerator technology for nuclear applications. It will focus on the production of neutrons and other particles, utilization of particles for scientific or industrial purposes, production or destruction of radionuclides significant to energy, medicine, defense, or other endeavors, as well as imaging and diagnostics. Summaries of 1500 words are due **April 15** to Dr. John Haines, Technical Program Chair, ORNL, Oak Ridge, TN 37831-8071 (hainesjr@ornl.gov). Further information may be obtained at <http://www.engr.utk.edu/org/ans/AccApp98>. The 4th Workshop on Simulating Accelerator Radiation Environments (SARE4) will be held prior to AccApp'98 at the Hyatt Regency in Knoxville, Tenn., Sept. 14-15. This workshop focuses on simulation codes, nuclear data, and applications dealing with radiation fields produced at accelerator facilities. Further information is available from the Technical Program Chair, Laurie Waters (lsw@lanl.gov), or from <http://www-rsicc.ornl.gov/sare/sare.html>.

**Register Now for 1998 RP&S Topical**

Preregistration for the 1998 RP&S Topical Conference is March 20. The web site (<http://www-rsicc.ornl.gov/RPS98/rps98.htm>) continues to be updated and expanded with detailed information. Approximately 155 papers will be presented in 25 technical sessions (abstracts are available on the web site) and several social events are planned, including optional Nashville tours and an evening dinner cruise on a local riverboat. A two-day workshop for the TORT and DORT transport codes is also being offered immediately following the conference. Contact Bob Roussin (rwr@ornl.gov) or Dan Ingersoll (dti@ornl.gov) for questions regarding the conference, or Yousry Azmy (yya@ornl.gov) for questions regarding the TORT/DORT Workshop. The program and registration form follow at the end of this newsletter.

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