



ANS NEWSLETTER

MARCH 9, 2006
A.D.HODGDON, EDITOR

RADIATION PROTECTION AND SHIELDING DIVISION

<http://rpsd.ans.org>

RPSD Topical Meeting 2006 The 14th Biennial ANS Radiation Protection and Shielding Division Conference

RPSD 2006, the 14th biennial topical meeting of the Radiation Protection and Shielding Division, will be held April 2-6, 2006 at the Pecos River Village in Carlsbad, New Mexico. The keynote address "*Observations on the Evolution of Radiation Detectors*" is by Dr. Glenn Knoll. Plenary speakers include Dr. Ray Klann, Dr. Cassiano de Oliveira, Dr. Alireza Haghghat and others (see the website for full details, <http://www.ans-rpsw-carlsbad.com/>).

There are two full days of workshops. On Sunday, April 2 there are courses on Non-Destructive Assay, Radiochemistry Basics, Whole Body Counter Operations, WIPP Repository Performance Assessment, Statistical Methods in Probabilistic Risk Assessment and Statistics with Hypothesis Testing.

On Thursday, April 6 there are four special Monte Carlo workshops: Monte Carlo for Beginners, Moritz (a graphical user interface for MCNP), MCNP, and Efficient Monte Carlo Calculations (using MCNPX for example). These are free with meeting registration. Please pre-register.

Tours will be offered of the Waste Isolation Pilot Plant (WIPP), a licensed and operating deep geological repository for transuranic waste. Please pre-register. There is also a tour of the world famous Carlsbad Caverns. These caverns are spectacular, world famous (see National Geographic), and worth the trip. Other tours include: The Trinity Site (only April 1, 2006), the Living Desert State Park, and Guadalupe Mountain Park.

Topical meetings are one of the great strengths of our Division. RPSD Topicals are typically held only once every two years and are focused on the topics and interests of our members. These topicals provide a chance for shield designers, radiation protection professionals, and radiation transport specialists to present and listen, to meet and discuss relevant issues of today in an informal setting. These meetings also provide continuing education credits. There is a full technical and workshop program.

We want to thank the following sponsors of RPSD 2006 Washington TRU Solutions (<http://www.wgint.com>), American Nuclear Society (<http://www.ans.org/>), Carlsbad Environmental Monitoring and Research Center (CEMRC). There are also fourteen co-sponsors listed on the website.

General Chairs: Dr. Chuan-Fu Wu - 505-234-7552 - chuan.wu@wipp.ws
 Mr. Russell McCallister - 505-234-7395 - russell.mccallister@wipp.ws
Web address: <http://www.ans-rpsw-carlsbad.com/>
Registration: <http://www.ans.org/meetings/index.cgi?c=t>

RPSD Topical Meeting – Carlsbad, New Mexico – April 2 to April 6, 2006
Technical and Workshop Program

		Track 1	Track 2	Track 3	Track 4
Sun Apr 2	am	Whole Body Counting (David Schoep)	Radioactive Dispersive Devices (James Conca)	Statistical Methods Including Hypothesis Testing (Robert Hayes)	Statistical Methods for PRA (Tom Kirchner)
	pm	Radiochemistry (Don Wall -Mansour Akbarzadeh)		Non Destructive Assay (Markku Koskelo)	WIPP Repository Performance Assessment (Eric Vugrin)
Mon Apr 3	am	Computational Medical Physics Working Group I (Wayne Newhauser)	General Shielding Applications (Margaret Emmett)	Skyshine, Streaming and Albedo Calculations (David R. Anderson)	Visualization and User Interfaces (Stephen Bowman)
	pm	Computational Medical Physics Working Group II (Eduardo Farfan)	Benchmark Experiments and Analyses (Eric Pitcher)	Accelerator Shielding (Kenneth Van Riper)	Nuclear Data (Robert Little)
Tues Apr 4	am	Activation and Induced Radioactivity (Danas Ridikas / Michael Loughlin)	Transportation, Storage and Shielding of Radioactive Sources (Lawrence Miller)	Radiological Engineering (Thomas Goff)	Radiation Detection and Measurement I (Yousry Gohar)
	pm	Computational Medical Physics Working Group III (Bernadette Kirk)	Shielding Studies of Proton Accelerator Facilities (Pedro Vaz)	Radiation Shielding in Aeronautics and Space (Gregg W. McKinney)	Environmental Impact of Radiation/ Radioactivity (Nathalie Wall)
Wed Apr 5	am	Dispersion of Radioactive Materials in Environment (James Conca)	Fusion Reactor Shielding (Chan Choi)	Monte Carlo Applications I (Nassar Barghouty)	Radiation Detection and Measurement II (Holly Trelue)
	pm	Deterministic Stochastic and Hybrid Methods (John Wagner)	Dosimetry and Radiation Protection Issues (Kimberly Kearfott)	Monte Carlo Applications II (Alireza Haghghat)	Radiation Detection and Measurement III (Marko Maucec)
Thurs Apr 6	am	Moritz Workshop (Ken Van Riper)	MCNPX Workshop - Beginners (John Hendricks)		
	pm	MCNP5 Tutorial (Jeremy Sweezy)	MCNPX Workshop - Advanced (John Hendricks)	FLUKA General Meeting/Workshop (Alfredo Ferrari)	

Up-Coming Programs (John Hendricks)

April 2 through 6 – RPSD Topical 2006 – Carlsbad NM - JUST WEEKS AWAY

Robert Hayes and John Hendricks, our Technical Committee Program Chairs, have put together a great program for RPSD 2006. This includes over 120 papers, 200 attendees, 12 workshops, WIPP and other tours. (For details see above or go to the website.)

June 4 - 8, 2006 - ANS Annual Meeting - Reno, NV

May 12 - Early registration deadline

June 5 4pm - RPSD Technical Program Committee meeting, All RPSD members welcomed.

November 12 - 16, 2006 - ANS Winter Meeting – Albuquerque, NM

June 9 – Deadline for submittal of paper summaries

Six RPSD technical sessions are planned:

- Best papers of the 2006 RPSD Topical
- Detection Technologies for Homeland Security
- Computational Resources for Radiation Protection and Shielding for Accelerator
- Burnup / Depletion Modeling
- Computational Resources for Radiation Protection and Shielding;
- Radiation Protection and Shielding

This year we have something new. Each session will start with an invited “review paper” giving an overview of the session topic. If you would you like to be a session chairman, or be *invited* to give a *review paper* please contact John Hendricks, jxh@lanl.gov. Consider *submitting a paper* (or papers) to one or more of these sessions.

April 13 - 17, 2008 – RPSD / ICRS 2008. At Callaway Gardens Atlanta, Georgia.

Dr. Nolan Hertel is heading up the planning on this meeting.

Notes from the November 2005 Executive Committee Meeting

You should have your ballots to vote for Division officers. Close of voting is April 4.

RPSD is the lead division for two ANS policy statements: Radon (with Biology and Medicine Division) and Low-dose health effects. Contact Dave Anderson if this interests you.

Division membership is 1327, 12.3% of ANS and has been steady since 2000. A Strategic Plan is in development, contact Ray Klann if interested. The RPSD website (<http://rpsd.ans.org/>) is maintained by Stephanie Frankle, frankles@lanl.gov

RPSD supports student conferences and student travel to national meetings. We will contribute \$1000 to The student conference, “Nuclear Power, A Look at the Future,” at Rensselaer Polytechnic Institute, Troy, New York, March 30 – April 1.

The Benchmark Committee is co-chaired by Dick Amato, Barry Ganapol, and Russ Mosteller. Enrico Sartori has taken ownership of SINBAD (shielding benchmark experiments). He will be at the Reno ANS meeting June 2006. Also, he is coming up with a skyshine benchmark for SINBAD. There is a new standard, “Benchmark for Testing of Shielding for Light Water Reactors,” standard 6.3.1.

RPSD Officers and Committees

Officers:

Raymond T. Klann, ANL, Chair (2006), klann@anl.gov
Andrew Hodgdon, AREVA, Vice Chair/Newsletter (2007), andrewhodgdon@comcast.net
John S. Hendricks, LANL, Secretary (2006), jxh@lanl.gov
Stephanie Frankle, LANL, Treasurer (2006), frankles@lanl.gov

Executive Committee: (year term expires)

Dick Amato, Bettis, amators@bettis.gov (2006),
Jennifer Tanner, PNL (2006), jennifer.tanner@pnl.gov
Larry Townsend, University of Tennessee (2006), ltownsen@tennessee.edu
F. Arzu Alpan (2007),
Nolan Hertel, Georgia Tech (2007), nolan.hertel@me.gatech.edu
Erik Shores, LANL (2007),
Charlotta Sanders, YMP (2008),
Jeremy Sweezy, LANL (2008), jsweezy@lanl.gov
Man-Sung Yim, NCSU (2008), yim@ncsu.edu

Standing and Special Committee Chairs:

Membership - Mark Blumberg
Honors and Awards - Dave Court, LANL, david.court@pentagon.af.mil
Scholarship - John Poston, TAMU
Program - John S. Hendricks, LANL, jxh@lanl.gov
Benchmarks - Dick Amato, Bettis
Standards - Bill Hopkins, Bechtel, retired
Bylaws – Eric Shores, LANL
Nominating – David Anderson, Electric Boat
Web-site – Stephanie Frankle, LANL
ANS Board Liason - Herb Fontecilla

Message from the Chair

We have put together this latest newsletter to highlight the upcoming topical meeting and to encourage everyone to attend the meeting. Our division topical meetings provide the most technically-focused and useful information to our membership. From the perspective of limited travel budgets, these focused topical meetings offer the most bang-for-the-buck.

I would also like to encourage members to become more active in division activities – this could include presentations at technical meetings, involvement on standards committees or division committees, and participation in governance meetings. Our executive and program committee meetings are open to all members. If you plan to attend an ANS national meeting in the future, consider attending one of these meetings.

I look forward to seeing everyone in Carlsbad!

Sincerely,
Raymond Klann
Chair, ANS Radiation Protection and Shielding Division