

Minutes
Radiation Protection and Shielding Division
Executive Committee Meeting Minutes

November 13, 2006
ANS Winter Meeting, Albuquerque, NM

1. **Call to order** – John Wagner (Vice Chair, filling in for Andrew Hodgdon)
(* = absent officers, executive committee)

Officers:

*Andrew Hodgdon, AREVA, Chair (2007), andrew.hodgdon@AREVA.com
John Wagner, ORNL, Vice Chair/Chair-Elect (2007), wagnerjc@ornl.gov
John S. Hendricks, LANL, Secretary (2007), jxh@lanl.gov
Stephanie Frankle, LANL, Treasurer (2007), frankles@lanl.gov

Executive Committee: (year term expires)

F. Arzu Alpan (2007), alpanfa@westinghouse.com
Nolan Hertel, Georgia Tech (2007), nolan.hertel@me.gatech.edu
Erik Shores, LANL (2007), eshores@lanl.gov
Charlotta Sanders, YMP (2008), charlotta_sanders@ymp.gov
Jeremy Sweezy, LANL (2008), jsweezy@lanl.gov
*Man-Sung Yim, NCSU (2008), yim@ncsu.edu
Robert Hayes, Bechtel-Nevada, (2009), hayesrb@nv.doe.gov
Jennifer Tanner, PNL (2009), Jennifer.tanner@pnl.gov
Larry Townsend, University of Tennessee (2009), ltownsen@tennessee.edu

Others present at executive committee meeting:

Richard S. Amato amators@bettis.gov
David Anderson d.anderson@snet.net
Dwayne Blaylock Dwayne.blaylock@nnscl.gatech.edu
Sharon Brashear gtg393i@mail.gatech.edu
Kimberly Burns gtg559g@mail.gatech.edu
Brian Collins collinsb@onid.orst.edu
Bill Culbreth William.Culbreth@unlv.edu
Peggy Emmett emmettmb@ornl.gov
Michael Fensin mfensin@lanl.gov
Ray Gamino ray.g.gamino@imco.com
Darby Kimball dskimbal@bechtel.com
Ray Klann klann@anl.gov
Michael Shannon mshannon3@gatech.edu
Ken Van Riper KVR@rt66.com
George Xu xug2@rpi.edu

Approval of Minutes:

The minutes of June 5, 2006 executive committee meeting at the Reno annual meeting were accepted with the following clarification (Regarding item 6 letter G pg 5 --- “clarification – a check will be written immediately from RPSD to the Georgia section for the \$2000 student support at the RPSD2008 topical meeting.”

Announcement – Oregon State Student Conference

The Oregon State University student section expressed its thanks to RPSD for support of the student conference, March 29-31 (Thursday – Saturday) 2007. OSU is still looking for judges. <http://groups.engr.orst.edu/ans>

2. Officers Reports

Chair’s & Vice Chair’s Report (John Wagner)

- *Newsletter:* Should newsletter be sent only by e-mail? It only costs if we have more than 4 pages [ANS will pay for a 4-page mailing twice per year] Commended Hayes/Hendricks/Sanders for contributions to newsletter.
- *Website:* Jeremy Sweezy will take over the RPSD website
- *Participation:* RPSD chair Andrew Hodgdon would like to know how to encourage radiation and shielding professionals to participate in ANS and RPSD. *Discussion:* Companies will not pay for memberships and individuals will not pay for it. George Xu (RPI) says the program has to be relevant to them. Darby Kimball (Bechtel) asked if is there a way to have local section get involved. In particular, maybe local section could co-host a tutorial with RPSD. Jennifer Tanner (PNL) said we need to know members interests. George Xu (RPI) said tutorials draw students. *** we should ask for membership of RPSD to list 5 biggest interests. Ken Van Riper (White Rock Science) does not like page charges, though it was pointed out that ANS is a publishing company that desperately needs page charge revenue. George Xu (RPI) points out that transactions papers are not referenced very much. Nolan Hertel (Georgia Tech) says ANS is the only place he sends papers that asks for page charges.

Summary and recommendations:

- Membership cost is an issue
- Programs must be relevant
- Local section / ANS Division tutorials may be useful
- RPSD should survey members’ top 5 interests
- Page charges are an issue to members.

Secretary’s Report (John Hendricks) – see Reno minutes

Treasurer’s Report (Stephanie Frankle)

- *Blizzard Scholarship:* The \$15000 profit from the Carlsbad RPSD2006 went to Blizzard Scholarship. We are now within \$8000 of \$60K full endowment.
- *Member Allocation:* RPSD will get a member allocations of \$1 possibly going up to \$2 from ANS but no other projected income for 2006-2007.

- RPSD2008: Nolan Hertel will put on the Georgia Section agenda the RPSD challenge to match RPSD's \$2000 going to students at RPSD2008.

3. Standing Committee Reports

Program Committee (John Hendricks)

The Technical Program Committee report is attached as an appendix.

At this Albuquerque meeting we have 10 full and 2 half sessions with 61 papers, the largest RPSD showing in many years if ever.

Nolan Hertel (Georgia Tech) added that regarding the RPSD2008 topical in Calloway Gardens, Georgia, that *Nuclear Technology* will publish full papers. RPSD should get preliminary approval of the topical at the February 12 paper review at ANS HQ.

Benchmarks (Dick Amato)

Dick Amato of RPSD is co-chair of the joint benchmark committee (joint with M&C RPSD, and RPD.) There were no benchmarks proposed by RPSD, but Dick feels that in medical therapy there should be benchmark possibilities. CSEWG (Cross Section Evaluation Working Group) told Bob Little that RPSD is not interested in cross sections. RPSD should come up with benchmarks and then present them to the joint benchmark committee. Maybe to get universities involved there could be an award for the best RPSD benchmark, because new benchmarks are not coming up out of RPSD stimulation. Stephanie Frankle asked what is connection between CSEWG and joint benchmark committee? It is an example of where the perception is that cross section libraries are being developed for criticality safety applications and not shield design. Dick Amato proposes a \$1000 prize for the best RPSD benchmark to be offered every two years. In some of proton therapy areas the cross section is very important with 5-10% error uncertainties in energy regimes where therapy requires better accuracy. Dick Amato will draft a proposal. With no objections the resolution was tabled. It was recommended that the award be reduced to \$500 or less to be more in line with other RPSD awards.

Nominations (Ray Klann)

The RPSD election will be conducted next March with a mail-in ballot from ANS. The candidates are:

Chairman:	John Wagner (ORNL)
Vice Chairman:	John Hendricks (LANL)
	Jennifer Tanner (PNL)
Treasurer:	F. Arzu Alpan (Westinghouse)
Secretary:	Erik F. Shores (LANL)
Executive Committee: (vote for 3)	
	Richard Amato (Bettis)
	David Anderson (Electric Boat)
	Everett Redmond (Nuclear Energy Institute)
	Michael Shannon (Georgia Tech)

Ken Van Riper (White Rock Science)
X. George Xu (RPI)

Standards (F Arzu Alpan)

- Dick Faw (KSU retired) and his working group have completed revisions of the following standards which were approved by ANSI in September:
 - ANS-6.4-R2006, "Nuclear Analysis & Design of Concrete Radiation Shielding for Nuclear Power Plants" (revision of ANSI/ANS-6.4-1997; R2004)
 - ANS-6.4.2-R2006, "Specification for Radiation Shielding Materials" (revision of ANSI/ANS-6.4.2-1985; R1997; R2004).Dick is currently reviewing the master galley proofs with ANS HQ and the new standards should be available the first part of the new year.
- John Wagner has called for a reaffirmation of ANSI/ANS-6.6.1-1998, "Calculation and Measurement of Direct and Scattered Gamma Radiation from LWR Nuclear Power Plants." It is at the ANS6 level for approval.
- Jennifer Tanner also plans to call for a reaffirmation of ANSI/ANS-6.3.1-1998, "Program for Testing Radiation Shields in Light Water Reactors." The reaffirmation process prevents the lapsing of their ANSI approval.
- F. Arzu Alpan (Westinghouse) has reconstituted the 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). The project has had its PINS forms approved and a new draft standard is in development. Nolan Hertel and his working group are reviewing a new revision of ANS-6.1.1-200X, "Dose Conversion Coefficients."

Membership (Charlotta Sanders)

The membership committee is focusing on people who have not renewed membership in ANS. ANS is putting a list of RPSD members who have not renewed in the past 2 years. Charlotta requests that if anyone sees the name of someone we know that we should contact that lapsed member. A personal contact from someone familiar is most effective.

Honors and Awards (J. David Court)

No report

Scholarship

No report.

By-Laws (Erik Shores)

The RPSD bylaws have been updated with substitutions to make them consistent with the national ANS bylaws. There are also some editorial improvements. Approval may require a vote capturing 25% of RPSD membership. The rules are complete. A copy of the bylaws will go to executive committee via e-mail.

The approach is to send bylaws to the executive committee. When election ballots go out in January RPSD would have a checkoff box for approval of bylaws. Full bylaws and changes would be provided in a link on the WWW page. Ray Klann will change ballot. Erik Shores will send bylaws to executive committee. The present RPSD WWW page contains the old 1979 bylaws.

Public Policy (Dave Anderson)

The public policy committee proposes that the “Low Dose Public Policy” will be left up to the Health Physics Society (HPS.) In past RPSD could not come up with a consensus and instead referenced the HPS statement. RPSD can now rubber stamp HPS or make a separate RPSD statement for the official ANS position. RPSD tried to bounce the low dose policy issue to the Biology and Medicine Division. Executive Committee vote: The executive committee unanimously decided to not put out separate low level dose policy and leave such a policy up to HPS.

Website

Jeremy Sweezy volunteered to manage the RPSD WWW site.

4. Old Business

None.

5. New Business

Ray Ganoff (NE section) reported the Northeast Local Section will host the 2009 M&C topical meeting at Saratoga Springs, NY, and wants RPSD to co-sponsor. Executive Committee vote: The executive committee unanimously agreed to cosponsor M&C 2009.

Bob Little (past RPSD chair) has a box of RPSD junk from up to 1999. The executive committee unanimously voted to authorize him to trash it. Also, past RPSD chair Ray Klann will destroy his old stuff.

6. Review Action Items

Spring Newsletter – Please submit items to John Wagner, wagnerjc@ornl.gov ..

7. Adjournment

Standing and Special Committee Chairs:

Membership – Charlotta Sanders, YMP, charlotta_sanders@ymp.gov

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

Scholarship - John Poston, TAMU

Program - John S. Hendricks, LANL, jxh@lanl.gov

Benchmarks - Dick Amato, Bettis, amators@bettis.gov

Standards - Bill Hopkins, Bechtel, retired

Bylaws – Eric Shores, LANL, eshores@lanl.gov

Nominating – Raymond Klann, ANL, klann@anl.gov

Web-site – Jeremy Sweezy, LANL, jsweezy@lanl.gov

ANS Board Liaison - Herb Fontecilla

Appendix

Minutes of the RPSD Technical Program Committee

November 13, 2006, Albuquerque, NM

1. *Introductions*

John S. Hendricks, LANL, jxh@lanl.gov , chair

Darby Kimball, Bechtel, dskimbal@bechtel.com - provided minutes

John Wagner, ORNL, RPSD vice chair/chair-elect, wagnerjc@ornl.gov

Richard S. Amato, Bettis, amators@bettis.gov

Bill Culbreth, UNLV, William.Culbreth@unlv.edu

Michael Fensin, U Florida, mfensin@lanl.gov

Ray Gamino, IMCO, ray.g.gamino@imco.com

Robert Hayes, Bechtel-Nevada, (2009), hayesrb@nv.doe.gov

Larry F. Miller, U Tenn, lfmiller@utk.edu

Charlotta Sanders, YMP (2008), charlotta_sanders@ymp.gov

Erik Shores, LANL (2007), eshores@lanl.gov

Jeremy Sweezy, LANL (2008), jsweezy@lanl.gov

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

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

Ken Van Ripper, White Rock Science, KVR@rt66.com

George Xu, RPI, xug2@rpi.edu

JSH

2. *Success Stories*

Andrew Hodgdon, RPSD Chair, provided the following data from ANS and previous RPSD Newsletters:

2006 ANS Winter - 61 papers

2006 ANS summer – 4 papers (many papers redirected to RPSD2006)

2006 Carlsbad - 152 attendees

2005 Chattanooga – 204 (Monte Carlo 2005)

2004 Madeira - 380

2002 Santa Fe - 248

3. *RPSD Topical Meetings*

- RPSD2008 – Nolan Hertel
 - April 13-18, 2008, Calloway Gardens, Georgia
 - Joint meeting with ICRS-11. The European contact is Enrico Sartori
 - Student support includes a reduced registration rate; RPSD is providing \$2000 cash directly to the Georgia Section.

- Two-tiered publication track: transactions and optional publication in *Nuclear Technology*
 - The RPSD TPC recommends that the organizing committee solicits financial sponsors such as TVA, Southern Company.
 - RPSD will encourage papers that might otherwise go to the nearby national meetings be submitted to the RPSD topical instead. Jennifer Tanner noted that RPSD support of summer meetings is less anyway, so support of Calloway wouldn't hurt the summer and winter meetings much.
 - It was proposed to do a "Best of RPSD" (2 sessions, ~8 papers chosen from the Calloway meeting) at the June 8, 2008 Anaheim meeting to fill out the schedule (in addition to the general session). General discussion was generally favorable. John Hendricks will propose this at the ANS National Program Committee meeting. [Note, at the 11/15 ANS NPC it was pointed out that the Final Program for the Summer meeting publication deadline may preclude having a "Best of" session in Anaheim in June 2008 in which case it should be postponed to the Winter Meeting in Washington, DC.]
- RPSD2010 – Rob Hayes
 - The Las Vegas local proposes to have RPSD2010 be a co-sponsored topical with IRD Division (and possibly RPD who decides on its topical in 2008) in February 2010 in Las Vegas, NV. They will consider a co-located topical.
 - The theme would be something like "Radiochemistry, Fuels & Isotopes, Radiation Detection, Applications, and Material Testing."
 - The Tennessee Secion is also considering bidding for the RPSD2010 conference.
 - [Note that Monte Carlo 2010 is also sponsored by RPSD – John Hendricks and Bernardette Kirk requested that MC 2010 be held in the Fall to avoid conflict. MC 2010 will be hosted by Japan.]
 - John Hendricks prepared a formal RFP (handed out) for the 2010 RPSD topical so the process is competitive. The RFP was presented to the 11/12 ANS Local Sections Committee [and sent by e-mail to all local sections 11/20.]
 - Co-sponsored topical meetings
 - Co-sponsored topical meetings reduce the number of meetings on the calendar and increase attendance to make venues such as Las Vegas, NV possible. They are good if the co-sponsors have overlapping interests. Splitting revenues and co-planning may be pitfalls.

4. National Meetings

- Albuquerque 2006 – John Hendricks

10 full, 2 half sessions including a tutorial and “The Best of RPSD2006” and 3 new sessions on computational tools for a total of 61 papers.

- Boston 2007 – Ray Klann

We hope to repeat in Boston whatever works in Albuquerque.

- Radiation Protection and Shielding – General
- Detection Technologies for Homeland Security Applications
- Computational Resources for Radiation Modeling
- Safety and Security of Radiation Sources
- Monte Carlo Tutorial
- Monte Carlo Burnup Tutorial

It is noted that there are two tutorials proposed. The tutorials seem to be popular, receiving lots of interest. [On Thursday afternoon 11/16 at the Albuquerque meeting 40 people showed up for the Monte Carlo Tutorial and the morning RPSD sessions were full unlike most sessions for other divisions.]

- Washington 2007:

It has been proposed to have six sessions. Topics may include (taken from general discussion):

- Radiation Protection and Shielding – General
- SCALE tutorial
- MCNP variance reduction tutorial
- Application-based tutorial: radiotherapy, shielding design
- Radiation protection issues for GNEP or advanced fuel cycle facilities

Invited Papers

- John Hendricks reported lessons learned on invited papers. Invited papers are a very formal process, involving a letter from the RPSD Division chair. ANS allows invited non-members to attend at the ANS rate (or one-day for free). Reports vary on whether the division must pay for these members.
- Item for discussion at the executive committee meeting: Do invited papers increase turnout? Should we invite lots of people? Only a few?
- Erik Shores reported that he had a similar experience, but was able to add language to the letter that stated no financial support was promised. This allowed invitees to show a letter to their company stating they were invited, which increased turnout, but did not obligate ANS to any support.
- Jennifer Tanner asked if the process/turnout based on invitations was different for the topical and the annual meetings. For topical meetings, the technical chair may be able to set different requirements.
- It was pointed out that ANS members get no financial benefit from being invited, so there is no financial reason not to invite them.
- Larry Townsend inquired if different language could be used: i.e. solicited or stimulated papers.

- George Xu pointed out that invited people are highly likely to attend, so invitations may need to be reserved for important guests so that there are not too many papers.
- John Wagner pointed out that the results [namely increased attendance at the National Meeting] of sending invitations for this session (which did use the word “invite”, and were later determined by ANS HQ to be formal invitations) this time cannot be argued with.
- George Xu pointed out that the reputation of the division will be hurt by having a bad presentation marked as a formally invited paper in the program.
- Larry Townsend noted that unofficial solicitations could be used at the next meeting to gauge if the formal invitation was the reason for the increased invitation.
- It was proposed that the following recommendation be passed to the executive committee: unofficial solicitations should be sent to increase participation (a letter that can be shown to companies) but that either different language than “invited” should be used and wording should be added to avoid the financial obligation. Official invitations should be reserved for special cases (foreign visitors who need visas, or highly valued expertise). This recommendation did not receive full concurrence.
- At this time the item was tabled.

5. *Review Papers*

- Review papers --- which start a session with a review of the state-of-the art in the subject area of the session --- have been attempted for each session at the Albuquerque November ANS winter meeting. Only one – burnup – was successfully scheduled.
- Jennifer Tanner suggested that the review paper be presented from the point of view of one facility (i.e. a lab) as a way to increase the surety of having the paper.
- Mike Fensin noted that it was important that the review papers bring up questions that would be addressed through the rest of the session.
- George Xu described a format for a session in which a few papers could be presented specifically for this type of discussion.

6. *Paper Reviewers*

- Those who failed to review papers in last 2 meetings and did not contact John Hendricks have been dropped. (A copy of the letter sent was handed out.) New ones are needed.
- Everyone present at the meeting “volunteered” to review papers in the future.

7. *TPC Boston*

- There will be a time change for the RPSD governance meetings for the Boston meeting. The meetings will be on Sunday (along with all other governance meetings). Please consider coming Sunday June 24 for RPSD.