

Minutes of the RPD Executive Committee
June 9, 2002

In Attendance:

Dave Kropaczek	Chair	GNF
Russ Mosteller	Vice-Chair (Chair elect)	LANL
Baard Johansen	Secretary (Treasurer elect)	Westinghouse Electric
John Ryskamp	Past Chair	INEEL
Charles Rombough	Past Chair	CTR Technical Services
Dimitri Cokinos	<i>ex officio</i> EC member	BNL
Jess Gehin	EC member (TPC Chair)	ORNL
Dale Lancaster	EC member	NuclearConsultants.com
Ben Rouben	EC member	AECL
Robert St. Clair	EC member	Duke
Youssef Shatilla	EC member	Westinghouse Electric
Timothy Valentine	EC member	ORNL
Gray Chang	EC member elect	INEEL
Etsuro Saji	EC member elect	Nuclear Safety Commission
Temitope Taiwo	EC member elect	ANL
Steve Baker		Transware Enterprises
Jim Tusar		Exelon
Jeff Bradfute		Westinghouse Electric
Bernadette Kirk		ORNL
Yousry Azmy		ORNL
Darby Kimball	Student	U. California-Berkeley
Lance Kim	Student	U. California-Berkeley

RPD Chair Dave Kropaczek called the meeting to order at 4:12 PM in the Room 216 of the Westin Diplomat Hotel, Hollywood, FL.

1. Secretary's Report (Baard Johansen)

The minutes for the November 20001 in Reno, NV were distributed electronically prior to the Hollywood meeting. Hard copies of these minutes were also available. The minutes were approved unanimously.

2. Treasurer's Report (presented by Dave Kropaczek, on behalf of Phillip Finck)

Phillip Finck distributed copies of the actual 2001 and proposed 2002 RPD budget (see Attachment 1).

The 2001 RPD budget shows \$1440 "meeting participation payment" from ANS National Program Committee for RPD sessions and papers organized at the two ANS meetings in 2000.

The following division income is not reflected in the proposed 2002 budget:

- Meeting participation payment from ANS National Program Committee for the RPD sessions and papers organized at the two ANS meetings in 2001.

- Profit share to RPD for the 2001 M&C Topical Meeting in Salt Lake City, UT (previously estimated to be ~\$2500).
- Profit share to RPD for the PHYSOR 2002 topical meeting in Seoul, Korea (12.5% share to RPD).
- M&C division (Bernadette Kirk) reported that the estimated profit share to RPD for the 2003 M&C Topical Meeting in Gatlinburg, NC is reduced from \$1750 to \$875. The change is based on a lower expected attendance of 150 persons instead of the original projection of 200.

The following additional budget expenses were discussed and approved:

- Total student support of \$2000 (\$1500 for the annual student conference, and an additional \$500 for student mini-conference support at the annual meetings).
- \$2000 is included in 2002 budget for the Henry/Greebler Scholarship, but payment will be deferred until November to await results of the scholarship fund drive.

With these budget expense changes, the 2002 budget excess is estimated at \$7,833 with no credit for the additional expected income discussed. The budget was unanimously approved.

It was reported that M&C is developing a website and software for electronic approval and registration for topical meetings sponsored by the division. Dale Lancaster took the action to investigate partnering with M&C on this initiative.

3. Henry/Greebler Scholarship (presented by Dave Kropaczek, on behalf of Kord Smith)

Dave reported that the Henry/Greebler Scholarship endowment balance is approximately \$65,000.

The ongoing fund drive for support of the Henry/Greebler scholarship to recognize the legacy of Allan Henry has raised \$4,000 in personal contributions. The Allan Henry family has committed matching funds up to \$10,000. With an additional \$6,000 in personal contributions along with the \$10,000 matching funds, the endowment will be approximately \$80,000.

It was decided to delay the \$2000 contribution for 2002 to the scholarship fund until the November-2002 meeting to see the results of the ongoing fund raising initiative.

The current scholarship of \$4,000 was awarded to Hany Abdel-Khalik of NC State.

4. Program Committee (Jess Gehin)

2002 Annual Meeting (Hollywood, FL)

Jess reported that 33 RPD papers and 3 panel presentations along with 18 co-sponsored papers would be presented at the Hollywood meeting. This is comparable to recent ANS meetings.

In addition to the standing sessions, two special sessions have been successfully organized:

- Whole Core Deterministic and Monte Carlo Transport (organized by Steve Baker)
- Current Issues for Reactor Engineers – Panel (organized by Bob St. Clair)

Three papers were nominated as finalists for the Best Paper Award:

- “Fusion of Method of Characteristics and Nodal Method for Three-Dimensional Whole-Core Transport Calculation” Nam Zin Cho, Gil Soo Lee, Chang Je Park (KAIST-Korea)
- “Validation of HTR Reactor Kernel-by-Kernel Fuel Spherical Model” Gray Chang (INELL)

- “Inverse Method Applied to Adaptive Core Simulation” Hany Abdel-Khalik, Paul Turinsky (EPRC)

2002 Winter Meeting (Washington, DC)

It was reported that there are insufficient number of meeting rooms to accommodate all the division’s sessions. Split sessions, evening meetings, or poster sessions may be required for some RPD sessions. Jess Gehin will voice concern to National Program Committee that they should come up with additional rooms, or at a minimum to put a disclaimer on paper application that the paper may get moved to a poster session.

The call for papers was issued with Summaries due by June 21, 2002

Two special sessions are being planned:

- Advances in Nuclear Fuel Management (organized by R. T. Chang & Atul Karve) – 4 papers solicited so far
- Reactor versus Accelerator Based Transmutation (organized by P. Finck)

A third special session, “ANS Joint Benchmark Session and Related Efforts,” organized by R. Mossteller has been postponed until the June 2003 meeting in San Diego because of the shortage of rooms for technical sessions at the Washington meeting.

Jeff Bradfute volunteered to organize the “Current Issues for Reactor Engineers – Panel Session.”

Jess reported that he is looking for someone on the Technical Program Committee to co-participate with him in coordinating the RPD paper review.

PHYSOR 2002 Status Report (Seoul, Korea)

Nam Zin Cho reported that 388 paper summaries from 33 countries were submitted. Four keynote speakers have been arranged (Dan Cacuci, Yoon Chang, Genki Yagawa, David Diamond). Room rates of ~\$140 per night have been negotiated. Additional conference information is available on their website:

<http://physor2002.kaist.ac.kr>

2003 Annual Meeting (San Diego, CA)

Two special sessions were approved:

- Nuclear Data, Noise Analysis, System Control: Legacy of Rafael Perez (organized by Felix Difilippo)
- Isotopic content with depletion (organized by Dale Lancaster)

2003 Advances in Nuclear Fuel Management III (Hilton Head Island, SC)

Dave Kropaczek, General Chair, reported that the conference will be held on October 5-8, 2003 at the Hilton Oceanfront Palmetto Dunes in Hilton Head Island, SC. Reduced length papers are due March 15, 2003. Additional conference information is available on their website:

<http://rpd.ans.org/nfm.htm>

2004 RPD Topical Meeting (Chicago, IL)

Ray Klann (Chicago Local Section) reported that the meeting dates are April 25-29, 2004 at the Hyatt Regency Chicago in downtown Chicago. The meeting theme is “The Physics of Fuel Cycles and Advanced Nuclear Systems: Global Developments.” General Chairs are Yoon Chang (ANL

and Massimo Salvatores (CEA-Cadarche). It was suggested that they seek a co-chair from an Asian organization. The Program Committee chair is Phillip Finck.

1000-word summaries are due September 5, 2003. Additional conference information is available on their website:

<http://www.td.anl.gov/PHYSOR20004>

2003 M&C Topical Meeting (Yousry Azmy, Bernadette Kirk)

Yousry Azmy and Bernadette Kirk reported on the organizing status of the M&C Topical Meeting “Nuclear Mathematical and Computational Sciences: A Century in Review – A Century Anew” to be held in Gatlinburg, TN, April 6-10, 2003. This is a RPD co-sponsored meeting.

There will be a series of eight one-hour *Century in Review* lectures, followed by regular sessions and special sessions with the *A Century Anew* theme. A session dedicated to the legacy of Ely Gelbard is planned. The best student paper will be awarded in his memory. Three workshops are planned: SCALE (March 31-April 4, 2002), MCNP5 (April 14-17, 2002), and MCNPVISED (April 6, 2002).

Deadline for submitting full papers is October 21, 2002. Additional conference information is available on their website:

<http://www-rsicc.ornl.gov/mc2003/mc2003.html>.

5. Goals and Planning Committee (Baard Johansen)

Baard reported that the draft 5-year 2002-2006 and 1-year 2002 operational plan had been prepared and routed for comment. Several useful comments were received and a revised plan will be issued by June 30, 2002 to the EC for their review. The draft plan was unanimously approved by the EC.

6. Membership (Dave Kropaczek)

Dave presented the following statistics on total RPD membership:

	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>
Total Members:	1048	1055	1122	1195

7. Public Policy and Emerging Issues Committee (Tim Valentine)

Tim reported there are two position statement assigned to RPD for update. Position Statement No. 47 “Plutonium Disposition Using Mixed Oxide Fuel”, which RPD is the co-lead on developing, went to the ANS Board of Directors. Position Statement No. 18 “The Transportation of Radioactive Materials” is currently is undergoing comment.

Tim encouraged the EC to suggest topics requiring position statements. Tim is authoring a statements on the preservation of nuclear data research.

ANS currently has about 20 open position papers. It was suggested to place the open position papers on the RPD website.

8. ANS 19 Standards Committee (Dimitri Cokinos)

Dimitri reported the following information on existing standards:

- ANS-19.1 – Nuclear Data (R. McKnight, ANL) - Dick McKnight has been the new working group leader for the past year. It was agreed at an earlier meeting that Dick was going to assemble a Working Group and define a plan of work for the next revision. However, there has been no report from Dick.
- ANS-19.3 – Determination of Steady-State Neutron Reaction-Rate Distributions and Reactivity of Nuclear Power Reactors (B. Rouben, AECL) – The text of the revised Standard was finalized at a subcommittee meeting in Hollywood on June 10. The revised Standard will now be forwarded to the ANS 19 Committee for balloting.
- ANS-19.3.4 - Thermal Energy Generation (R. Perry, LANL) - the standard has become an ANSI standard.
- ANS-19.6.1 – Reload Physics Startup Tests (C. Rombough, CTR TS) – The final draft has been delayed but will be distributed to ANS 19 for balloting within the next few months. The major changes are elimination of one of the required tests (differential boron worth) and adding a new method for measuring control rod worth. The group will meet by email to finalize the changes and C. Rombough will send the final draft to ANS 19 before the November meeting in Washington, DC.
- ANS-19.11 – Moderator Temperature Coefficient in PWRs (R. Mosteller, LANL) – working group recommended that the standard be reaffirmed with a new date. D. Cokinos and the ANS Headquarters will take action for the reaffirmation.
- ANS-5.1 – Decay Heat in LWRs (M. Brady-Raab) - This is now a full RPD standard and ANS-19 is the host committee for this widely used standard. The standard is scheduled to be revised shortly. M. Brady-Raab is the new Chair of this Working Group.

Dimitri provided the following updates on proposed standards:

- ANS-19.10 – Fast Neutron Fluence in LWR Pressure Vessels (L. Lois, NRC) - the draft standard was sent back to the committee for rework as it was felt that it was too prescriptive on the specific codes to be used. A revised draft has been prepared and is being reviewed by the Working Group.
- ANS-19.8 – Fission Chain Yields (W. Wilson) – A draft standard is only a few weeks away. It will include tables of mass chain yields.
- ANS-19.9 – Delayed Neutrons (W. Charlton) – W. Charlton from U. of Texas was appointed the new chair at the November 2001 meeting. A working group has been formed and the Group will have a draft by the next meeting.

Dimitri continues to seek committee volunteers, particularly from utilities. Dimitri committed to provide ANS 19 Standards abstracts, and working group committee membership lists for the RPD website.

Dimitri note that the International Standards Organization (ISO) is interested in adopting specific standards. Dimitri, working with N-17 the consensus committee under whose umbrella ANS-19 operates, and the ANS Standards Steering Committee, for now, will be supplying ISO with ANS 19.3 and 19.6.1.

9. **RPD Election Results - New RPD Officers/EC Members (Dave Kropaczek)**

Dave reported that the following individuals were elected as RPD officers and Executive Committee members:

Chair:	Russ Mosteller (LANL)
Vice-Chair/Chair-Elect:	Phillip Fink (ANL)
Treasurer:	Baard Johansen (Westinghouse Electric)
Secretary:	Mark Kantrowitz
Executive Committee (3 yr term):	Gray Chang (PNNL)
	Etsuro Saji (Nuclear Safety Commission)
	Temitope Taiwo (ANL)

Terms will begin immediately following the Hollywood ANS Annual meeting.

10. **RPD Bylaws – Proposed Change (Russ Mosteller)**

The following amendment to RPD Bylaws Article B8 (Election and Eligibility), paragraph 4, with changes highlighted, was approved by the 90% of RPD voting members in the recent election and now goes into effect:

“At least one (1) candidate shall be named by the Nominating Committee for each Executive Committee membership expiring or vacating and for each elected officer other than the office of Chair. *US and non-US candidates for the Executive Committee may be elected separately.* The ballot shall also contain spaces for writing in additional names.”

11. **Publications Committee (Dale Lancaster)**

Dale noted that search and retrieval on the ANS website of ANS technical journals from the past 7 years and ANS transaction form the past year is now available. As a journal subscriber, one can retrieve papers in pdf format. Non-subscribers will have the capability within a few months to purchase a paper for \$25.

Capability to search and retrieve topical meeting proceedings is being developed. ANS is proposing free access, but this may have a financial impact to RPD. No decision has been reached on whether or not to included topical proceedings not published by ANS.

12. **ANS 2003 Student Conference (Lance Kim & Darby Kimball, U. California-Berkeley)**

Lance Kim and Darby Kimball, General Co-Chairs for the ANS 2003 student conference, provided handout brochures with key dates and contact information for this conference to be held on April 2-5, 2003 at University of California-Berkeley (website: <http://www.nuc.berkeley.edu/ans/conf/>). The conference, themed “Living in a Nuclear Free Zone,” will feature presentations on student research and a campus-wide career fair.

They are seeking technical judges for the best paper award, and support of the career fair. The organizing committee was not planning to seek financial support until November 2002, pending success in obtaining corporate support for the career fair. RPD has budgeted in \$1500 financial support.

13. **New Business**

Professional Engineer Exam (Bob St. Clair)

Bob noted there is renewed utility interest in the Professional Engineer Exam, though there were only about 20 who took the exam last year (100% passed). There was little interest in the PE exam workshop planned for the 2002 Annual Meeting and it was cancelled. It was noted the Nuclear Engineer PE may be put on probationary status.

Broadcast e-mail (Dave Kropaczek)

Broadcast e-mail distribution is available from ANS National to all RPD members that indicated on their annual membership renewal that they did not prohibit ANS e-mails to be sent to their e-mail address. This is an effective means for RPD to rapidly communicate upcoming RPD special sessions, revised standards, topical meetings, etc. The proposed e-mail message must be approved by the RPD Chair.

14. **Honors & Awards Committee (Dimitri Cokinos)**

Four well-qualified applicants were reviewed for the 2002 Wigner award winner, and a winner was selected. The EC unanimously accepted the H&A Committee selection, which is expected to be publicly announced within a few weeks.

The meeting was adjourned at 6:00 PM.

Respectfully submitted by
Baard J. Johansen, RPD Secretary

Attachment 1

AMERICAN NUCLEAR SOCIETY BUDGET 2002

REACTOR PHYSICS

	ACTUAL 1997	ACTUAL 1998	ACTUAL 1999	ACTUAL 2000	ACTUAL 2001	PROPOSED BUDGET 2002
BUDGET FUNDS						
CURRENT YEAR MEMBER ALLOCATION	1103	1051	1035	1031	1237	1237
CARRY FORWARD, PRIOR YEAR	3487	1898	4628	8479	20519	11196
OTHER BUDGET FUNDS	0	3729	7466	13359	1440	TBD
TOTAL BUDGET FUNDS	4590	6678	13129	22869	23196	12433 + TBD
BUDGET EXPENSES						
NEWSLETTERS	0	0	0	0	0	0
AWARDS, PLAQUES	0	0	0	150	0	500
NATIONAL MEETING COSTS	92	0	0	0	0	100
DIVISION OFFICER EXPENSE	0	0	0	0	0	0
STUDENT SUPPORT	600	800	600	200	2000	2000
SCHOLARSHIP/NEED FUNDING	2000	600	3400	2000	10000	2000
OTHER EXPENSES	0	650	650	0	0	0
TOTAL EXPENSES	2692	2050	4650	2350	12000	4600
EXCESS (DEFICIENCY) OF BUDGET FUNDS OVER EXPENSE	1898	4628	8479	20519	11196	7833 + TBD