

**Minutes of the RPD Executive Committee  
November 11, 2001**

**In Attendance:**

Dave Kropaczek	Chair	GNF
Russ Mosteller	Vice-Chair	LANL
Phillip Finck	Treasurer	ANL
Baard Johansen	Secretary	Westinghouse Electric
Charles Rombough	Past Chair	CTR Technical Services
Dimitri Cokinos	<i>ex officio</i> EC member	BNL
Kord Smith	<i>ex officio</i> EC member	Studsvik
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
Robert Jacqmin	EC member	CEA
Steve Baker		Transware Enterprises
Bernadette Kirk		ORNL
Frank Buschman	Student	Penn St
Marsha Chesleigh	Student	Penn St

RPD Chair Dave Kropaczek called the meeting to order at 4:10 PM in the Room N-9 of the Reno Hilton Hotel, Reno, NV.

**1. Secretary's Report (Baard Johansen)**

The minutes for the June 2001 meeting in Milwaukee, WI were distributed electronically prior to the Reno meeting. Hard copies of these minutes were also available. The minutes were approved unanimously.

**2. Treasurer's Report (Phillip Finck)**

Phillip Finck distributed copies of the 2001 RPD budget, current to September 30, 2001 (see Attachment 1).

The following division income is not reflected in the current budget:

- RPD is still awaiting ~\$600 income from ANS National Program Committee (according to Mary Keenan) based on the RPD sessions and papers organized at the two ANS meetings in 2000. No National Program Committee income is included in 2002 forecast.
- M&C division (Bernadette Kirk) reported that the estimated profit share to RPD for the 2001 M&C Topical Meeting in Salt Lake City, UT should be ~\$2500.
- The PHYSOR 2002 organizing committee has committed 12.5% profit share to PRD. Though a profit is expected for this meeting, the 2002 budget forecast assumes no topical meeting income.

The following additional budget expenses were discussed and approved:

- Student support for 2001 and 2002 was increased from \$1500 to \$2000. The additional \$500 is in response to a recent request to provide support for a student mini-conference held at the Reno meeting. It is anticipated a similar support request will be made in 2002. The original \$1500 is to support the annual student conference.
- A \$10,000 payment in 2001 to the Henry/Greebler scholarship fund was completed (see Item 3). The scholarship committee (Kord Smith) reported that no additional large contribution was needed at this time, and we should await the June-2002 meeting to see the results on the ongoing fund raising initiative. Consistent with RPD 5-Year Goals to fully endow the Henry/Greebler Scholarship within 5 years by contributing at least \$2000 per year from RPD funds, it was decided to include \$2000 in 2002 forecast for budgeting purposes

With these budget expense changes, the 2002 budget excess is estimated at \$5,793 with no credit for the additional expected income discussed.

### 3. **Henry/Greebler Scholarship (Kord Smith)**

Kord reported that the Henry/Greebler Scholarship is currently the highest funded ANS scholarship; the endowment balance is approximately \$60,000.

Kord discussed the ongoing e-mail solicitation to MIT Nuclear Engineering alumni for support of the Henry/Greebler scholarship. Additionally, there will be a reception held at the Reno meeting to recognize the legacy of Allan Henry.

It was reported that no additional large contribution by RPD to the scholarship fund was needed at this time, and we should await the June-2002 meeting to see the results of the ongoing fund raising initiative. It was decided to include \$2000 scholarship funding in 2002 budget forecast.

### 4. **2003 M&C Topical Meeting (Bernadette Kirk)**

Bernadette solicited RPD participation (as session organizers, technical program committee members, and paper authors) in 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. The organizing committee is investigating to possibly combine with the 2003 Student Conference in Knoxville by aligning meeting dates.

At this meeting the usual plenary session will be replaced by a series of eight one-hour *Century in Review* lectures. Deadline for submitting full papers is October 1, 2002. Additional conference information is available on their website:

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

### 5. **Program Committee (Jess Gehin)**

#### 2001 Winter Meeting (Reno, NV)

Jess reported that 50 RPD papers (~16% of the total ANS papers) would be presented at the Reno meeting. This is about 9 more RPD papers than at the previous two ANS meetings.

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

- Advanced Nodal Methods: The Legacy of Allan F. Henry (organized by Russ Mosteller and Kord Smith)
- Reactor Physics, Mathematics, and Computations: The Legacy of Allan F. Henry (organized by Russ Mosteller and I. K. Abu-Shumays)
- Concept Design and Physics Analysis of Generation IV Nuclear Energy Systems (organized by Gray Chang)
- Physics Testing in Commercial Reactors (organized by Bob St. Clair)

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

- “Application of Two-Level Acceleration Method to the Pin-by-Pin Multigroup SP3 Approximation” Changho Lee, Thomas Downar
- “Neutronics Design of LWR-Proteus Phase II High-Burnup Fuel Reactivity Measurements” A. Meister, P. Grimm, R. Chawha

#### 2002 Annual Meeting (Hollywood, FL)

The call for papers was issued with Summaries due by January 3, 2002. At Jess’ encouragement to the National Program Committee, all RPD sessions have been organized into a single track (Track 7: Reactor Physics and Shielding).

Two special sessions are being planned:

- Whole Core Deterministic and Monte Carlo Transport (organized by Steve Baker)
- Advances in Nuclear Safeguard Measurements and Analysis (organized by Tim Valentine and Bill Charlton)

Steve reported that solicitation of papers is proceeding. Tim reported good progress with high level of author interest (10+ papers possible).

#### 2002 Winter Meeting (Washington, DC)

Two special sessions were approved:

- Advances in Nuclear Fuel Management (organized by Atul Karve and Ren-Tai Chiang)
- Isotopic content with depletion (organized by Dale Lancaster)

A third session (Reactor versus Accelerator based Transmutation) was proposed and needs to be approved by the TPC. Deadline for submitting any additional sessions is Feb-2002.

#### 2004 Topical Meeting Site Selection

Ray Klann (Chicago Local Section) and Gabriel Cuevas (Mexico Nuclear Society) presented applications to host the PHYSOR 2004 topical meeting. The Chicago local section was selected to host this meeting. Their meeting theme is “The Physics of Fuel Cycles and Advanced Nuclear Systems: Global Developments” and the tentative dates and location are April 25-29, 2004 at a downtown Chicago hotel.

#### Other updates

The best paper award at the June-2001 Milwaukee meeting was given to Marvin Adams for his paper, “Angular Dependence of the Fast Flux in Reactor Lattices”.

The M&C 2001: International Meeting on Mathematical Methods for Nuclear Applications was held September 9-13, 2001 in Salt lake City, UT. A total of 105 papers were accepted (62% were non-US participants). There were 135 paid attendees, of which 19 were students. RPD share of the meeting profits will be ~\$2500 (see Item 2). MCD noted that they incurred additional hotel fees due to late hotel registrants that failed to mention they were attending the conference.

The Advances in Fuel Management III topical meeting has received calendar placement for October 5-8, 2003. This meeting is being organized by the ANS Eastern Carolinas Section and will be held in Hilton Head Island, SC.

6. **ANP 2003 / GENES4 Topical Meeting (Dave Kropaczek)**

Dave reported on behalf of Professor Yoshiaki Oka, general chair of "ANP 2003 / GENES4". This is a AESJ/ANS embedded topical meeting on advanced nuclear plants to be held in conjunction with the AESJ Fall Meeting in Kyoto, Japan, September 15-19, 2003. This is a RPD endorsed ANS Class 2 meeting (i.e., no financial implications for RPD).

7. **PHYSOR 2002 Status Report (Nam Zin Cho)**

Professor Cho, technical program chair for PHYSOR 2002 - "The International Conference on the Frontiers of Nuclear Technology: Reactor Physics, Safety, and High-Performance Computing" reported the meeting will be held at the Sheraton Walker Hill Hotel in Seoul, South Korea, October 7-10, 2002 with a reception on October 6.

Well-attended organizing meetings of the TPC were held at the Washington and Milwaukee meetings; another meeting is planned to held at Reno.

Paper Summaries are due January 15, 2002, and full papers are due May 31, 2002. Additional conference information is available on their website:

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

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
- ANS-19.3 – Reactivity & Reactivity Rates (B. Rouben, AECL) – the standard has been under review for the past 9 months, and is close to a final document
- ANS-19.3.4 - Thermal Energy Generation (R. Perry, LANL) - the standard has been approved and is in the process of becoming an ANSI standard
- ANS-19.6.1 – Reload Physics Startup Tests (C. Rombough, CTR TS) – discussions of revisions is complete; final draft will be sent to ANS-19 by June-2002 meeting
- ANS-19.11 – Moderator Temperature Coefficient in PWRs (R. Mosteller, LANL) – working group recommended that the standard be reaffirmed with a new date
- ANS-5.1 – Decay Heat in LWRs (W. Wilson) - error in one of the equations has been corrected, and the standard should be revised shortly

Dimitri provided the following updates on proposed standards:

- ANS-19.10 – Fast Neutron Fluence in LWR Pressure Vessels (L. Lois, NRC) - a draft standard was prepared, but it was felt by many that there was too much detail provided and that it was too prescriptive on the specific codes to be used
- ANS-19.8 – Fission Chain Yields (W. Wilson) – no progress to report; this standard has been almost done for some time and needs to be wrapped up
- ANS19.9 – Delayed Neutrons (Vacant) – no progress to report

Dimitri successfully lobbied ANS to allow the ANS-19 standards committee to re-schedule their Committee meetings to their traditional Monday morning slot (coincident with the plenary session) instead of Sunday morning, in order to regain attendance.

Dimitri committed to provide ANS 19 Standards abstracts, and working group committee membership lists for the RPD website.

#### 9. **Honors & Awards Committee (Dimitri Cokinos)**

The committee has selected Dan Cacuci as the 2001 Wigner award winner. Dimitri provided a summary of Dr. Cacuci's technical achievements. It was clarified during the meeting that the H&A Committee does not require EC approval of their selection; therefore, the EC simply voted to accept the H&A Committee selection. Tim Valentine motioned to accept the H&A Committee selection; it was seconded by Russ Mosteller, and accepted by the EC.

#### 10. **Nominating Committee (Dave Kropaczek)**

Dimitri Cokinos has succeeded Ted Parish as Nominating Committee chair. The other committee members include Jess Gehin, Dave Kropaczek, and Russ Mosteller.

Dimitri reported that the following individuals were selected as 2002 candidates for RPD officers and Executive Committee members:

Chair:	Russ Mosteller (LANL)
Vice-Chair/Chair-Elect (1 name + Write-in):	Phillip Fink (ANL)
Treasurer (1 name + Write-in):	Baard Johansen (Westinghouse Electric)
Secretary (2 names + Write-in):	Mark Kantrowitz (Westinghouse/CE Nuclear) Dale Lancaster (Nuclear Consultants)

Executive Committee (3 yr term):	
(3 names + Write-in):	Gray Chang (PNNL) Etsuro Saji Temitope Taiwo (ANL)

Upon election, terms will begin immediately following the 2002 Annual meeting.

#### 11. **ANS 2002 Student Conference (Frank Buschman & Marsha Chesleigh, Penn St Univ)**

Frank Buschman, chair for the ANS 2002 student conference, provided handout brochures with key dates and contact information for this conference to be held on April 10-14, 2002 at Penn State University (website: ANS.MNE.PSU.EDU). The organizing committee was seeking financial support (student travel, best paper award, etc), technical judges for the best paper award, and support of the career fair. EC committed \$1500 financial support (see Item 2), and anticipated at least 2~3 RPD members would participate in the conference.

## 12. Membership (Dave Kropaczek)

Dave presented the following statistics on total paid US and non-US RPD membership:

	<u>US</u> <u>Members</u>	<u>Non-US</u> <u>Members</u>	<u>Combined</u> <u>Members</u>	<u>Increase since</u> <u>Prior Year</u>
Fall 2001:	1063	174	1237	+6.8%
Fall 2000:	999	159	1158	+2.1%
Fall 1999:	980	154	1134	+0.2%
Fall 1998:	986	146	1132	-0.4%
Fall 1997:	980	157	1137	---

RPD has the 6<sup>th</sup> largest ANS division membership, of the 19 ANS divisions, following Operations & Power (4261), Fuel Cycle & Waste Mgmt (2319), Nuclear Installations Safety (1731), Decom., Decon., & Reutil. (1304), Radiation Prot. & Shielding (1245).

Among all ANS divisions RPD saw the largest increase in 2001 membership (+79 members). Excluding student members, overall ANS enrollment increased by 0.1% in 2001 from 9950 to 9963. Total student enrollment shrank from 688 to 553 in 2001.

## 13. RPD Bylaws – Proposed Change (Russ Mosteller)

At the June-2001 meeting, Russ proposed an amendment to RPD Bylaws Article B8 (Election and Eligibility), paragraph 4. The proposed form is shown below, with changes highlighted:

“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.”

The proposed change was unanimously recommended by the EC in June, and subsequently approved unanimously by the ANS Bylaws and Rules Committee. The proposed change will go to the Executive Director for review at the Reno meeting; if approved, it would then appear on the upcoming ballot and require a simple majority vote to go into effect.

## 14. Goals and Planning Committee (Dave Kropaczek)

Dave reported that RPD was reminded by the ANS Public Policy Committee that we had been previously assigned to prepare a public policy statement on “The Use of MOX”. ANS President Gail Marcus had also expressed the ANS need to have divisions’ support to provide a rapid response to emerging issues and questions (e.g., What is the impact to nuclear installations security due to recent world events?).

To address these needs, the G&P Committee proposed to form a Public Policy and Emerging Issues committee. This would be a standing committee with 3 year terms, with the committee chair to be appointed by the RPD Chair. This proposal was approved unanimously by the EC.

It was also reported that the RPD needs to prepare and submit its 1-year and 5-year operational plan. Much of the 5-year goals and action plans exists from the 5-year RPD Goals document that was recently updated and approved in June-2001. Baard Johansen committed to prepare a draft 1-year and 5-year operational plan for EC electronic review prior to the June-2002 meeting.

The G&P Committee agreed to conduct an annual review of the 1-year and 5-year operational plan at each Spring meeting, and report to the EC.

15. **RPD Website (Dave Kropaczek)**

Dave reported that the RPD website (<http://rpd.ans.org>) includes a number of new items. Dave is planning to post the 5-year RPD Goals on the website, along with key document templates useful to the RPD officers and committee members.

16. **Next Generation Reactors (Bob St. Clair)**

Bob was seeking to generate a dialogue regarding what the RPD role and participation should be in the increasingly active field of Next Generation Reactors (i.e., should the Division begin developing standards?) It was suggested an RPD member that is expert in this area could be included on the new Public Policy and Emerging Issues committee. The RPD could be proactive and propose a public policy statement when needed.

17. **On-Line Purchase of ANS Technical Articles (Dale Lancaster)**

Dale noted that search and retrieval on the ANS website of ANS technical journal (NS&E, NT, FS&T) paper summaries from the past 5 years will be active as of January-2002. Non-journal subscribers can perform search and purchase an article for \$25. Journal subscribers will have pdf file access.

Journal page charges are being reduced from \$130 (current) to \$100 (2002) and \$75 (2003), with the reduced fees being subsidized by higher library subscription fees.

The meeting was adjourned at 6:10 PM.

Respectfully submitted by  
Baard J. Johansen, RPD Secretary

Attachment 1

AMERICAN NUCLEAR SOCIETY  
DIVISION FINANCIAL REPORT  
11/30/01

REACTOR PHYSICS DIVISION

	BUDGET 12 MONTHS <u>2001 (Revised)</u>	ACTUAL 9 MONTHS <u>2001</u>	EXPECTED <u>2002</u>
BUDGET FUNDS			
CARRY FORWARD FROM 2000	20,519	20,519	9,756
2001 MEMBER ALLOCATION	1,237	1,237	1,237
DIVISION INCOME 2001	0*	0*	0*
TOTAL BUDGET FUNDS	21,756	21,756	10,993
BUDGET EXPENSES			
NEWSLETTERS	0	0	0
AWARDS, PLAQUES	500	0	500
NATIONAL MEETING COSTS	100	0	100
DIVISION OFFICER EXPENSE	0	0	0
STUDENT SUPPORT	2,000	2,000	2,000
SCHOLARSHIP/NEED FUNDING	10,000	10,000	TBD**
OTHER EXPENSES	0	0	0
TOTAL EXPENSES	12,600	12,000	2,600
EXCESS (DEFICIENCY) OF BUDGET FUNDS OVER EXPENSES	9,156	9,756	8,393

Notes:

\* Additional income (conferences) is expected for 2000: \$500  
2001: \$3500  
2002: \$500

\*\* Amount to be discussed in June 2002. Current Proposal is \$2000