

MINUTES OF THE REACTOR PHYSICS DIVISION EXECUTIVE COMMITTEE MEETING
AMERICAN NUCLEAR SOCIETY
Convention Center
Albuquerque, NM
November 12, 2006, 4:00-6:00 PM

The RPD executive committee meeting was held on November 12, 2006 in the San Miguel Room in the Convention Center, Albuquerque, NM.

1. The meeting was called to order by the RPD Chair Ben Rouben.
 - a. Meeting Agenda provided as Attachment 1
 - i. Ben Rouben requested 2 items be added near the of the agenda (the 2009 M&C Topical and discussion of ENDF-B VII)
 - b. Meeting Attendance is provided as Attachment 2
2. Ben Rouben noted attendance of Brian Gollins to update RPD on 2007 ANS Student Conference
 - a. Conference is scheduled for March 29-31 at Oregon State (Corvallis)
 - b. Friday and Saturday will be primarily comprised of technical sessions – judges still needed
 - c. Conference will host a career fair
 - d. Still in need of funding – Could provide an opportunity for advertising
3. Status report on 2009 M&C Topical Meeting
 - a. April 3 – 7 at Saratoga Springs, ~160 miles north of New York City
 - b. “International Conference on Advances in Mathematics, Computational Methods, and Reactor Physics”
 - c. Just received approval of M&C Division, seeking co-sponsorship by RPD
 - d. Suggested following past practice of M&C/RPD with 25% of the sponsoring Division’s share of the surplus going to co-sponsoring Division – approved unanimously
4. Secretary’s Report
 - a. June 2006 Meeting Minutes
 - i. Requested removal of action item for Jess Gehin from item 5f (previously completed)
 - ii. RPD Executive Committee **voted and approved** the minutes of the June 2006 meeting held in Reno, NV.
 - iii. Jeff Bradfute provided corrected minutes for posting on RPD website
 - b. Newsletter
 - i. Fall newsletter supported by good, on-time contributions. Length of newsletter does not seem to be an issue with electronic distribution for many members.
 - ii. Submittal dates of April 15th and September 15th to align with national meetings will be continued. Secretary will provide reminder notice for contributions to Spring newsletter.
5. Treasurer’s Report
 - a. 2006 Budget Status
 - i. Jeff Bradfute noted that the only significant change to 2006 since the June meeting was adding the \$10,000 contribution to fund the Henry Scholarship
 - ii. Question was raised of receipt by RPD of ANS meeting participation funding – Jeff and Ben will confirm

- iii. PHYSOR 2006 was recognized for a very successful meeting, leading to a >\$27,000 share of the surplus for RPD (one quarter of this share will be transferred to MCD as co-sponsoring Division)
 - iv. Motion was made and approved for 2007 student funding of \$1000 (travel) and \$1500 (conference)
 - v. Motion was made and approved to accept the budget as modified (attachment 3)
- 6. Harold McFarlane (ANS President) Visit
 - a. Provided recognition for very successful PHYSOR 2006 topical meeting
 - b. Noted >1500 registrants for current meeting makes it the most successful in many years
 - c. Answered EC questions
 - i. Top priority for ANS National is to develop a strategic plan
 - ii. Concurred that National ANS meetings are very expensive relative to topicals
 - iii. Concurred that utility participation is very low. But utility participation at Amelia Island meeting is typically very good and that utilities are served by other organizations like INPO, EPRI, and NEI as well as ANS
 - iv. Deferred to other authorities on requirement for Division member votes to adopt "standard" bylaws. Did encourage movement of as much as possible into rules that can be more easily changed.
- 7. RPD Website
 - a. RPD Vice-Chair Farzad Rahnama noted that the web site is currently being maintained by a Junior at Georgia Tech (Jason Breen)
 - b. Bojan Petrovic recommended adding a map to the web site to aid navigation
- 8. Scholarship Committee
 - a. Chair of the committee Jess Gehin indicated there has been no selection activity
 - b. Identified that funds had been received from the Henry family (\$10000) to be contributed to the scholarship, noted the fund is self-sustaining with interest exceeding the \$3500 award
 - c. Applications are due in January
 - d. Jess given action to investigate fund impact if award is increased and bring proposal to June meeting. \$3500 is currently the largest award by any Division
- 9. RPD Program Committee. Bojan Petrovic reported the following:
 - a. 2006 Winter meeting includes 3 standard sessions and 1 special session (Albuquerque)
 - i. 3 papers nominated for best paper
 - ii. No additional judges were obtained
 - b. 2007 Annual meeting in Boston includes 7 sessions: 3 standard, 3 special, and 1 panel
 - c. 2007 Winter meeting in Washington includes 6 sessions: 3 standing and 3 special
 - d. Ben Rouben summarized the well-attended and financially successful PHYSOR 2006
 - i. Ken Kozier mentioned that a four-person committee is reviewing 12-15 nominated papers to be proposed for publication in Nuclear Science & Engineering or Nuclear Technology, perhaps all in 1 issue
 - e. Bojan noted the Call for papers for PHYSOR 2008 is expected to go out this January
Reported planning going well and offered copies of a progress report provided by Konstantin Foskolos at the earlier Program Committee Meeting
- 10. Standards Committee Report – Dimitri Cokinos
 - a. Next committee meeting tomorrow, November 13 in Enchantment A of the Hyatt Hotel 8:30 to 10:30 a.m.
 - b. Noted that ANS-19 Standards sales from 5/15/06 to 10/11/06 was \$2600

- c. Draft of revision to ANSI/ANS-19.1 “Nuclear Data Sets for Reactor Design” to be complete by year end. Plans include a discussion of uncertainties and a review of resonance integrals.
- d. The 2005 revision of ANSI/ANS-19.3 “Determination of Reaction Rate Distributions and Reactivity of Nuclear Power Reactors” is already in circulation
- e. The 2005 revision of ANSI/ANS-19.6.1 “Reload Startup Physics Tests for PWRs” is already in circulation. A major revision including an expanded set of bases for each test is being drafted. A draft for ANS-19 review is expected by the end of 2007.
- f. Revision of ANSI/ANS-19.11 “Calculation and Measurement of the Moderator Temperature Coefficient of Reactivity for PWRs” is underway.
- g. A draft is being prepared for the proposed standard ANS-19.9 “Delayed Neutron Parameters for LWRs”
- h. A revised draft of proposed standard ANS-19.10 “Determination of Neutron Fluence in BWR and PWR Pressure Vessel and Reactor Internals” is under review by ANS-19
- i. Bob Schenter, former WG chair of ANS-5.1 is scheduled to propose a new standard on reactor spectra for the production of certain medical isotopes
- j. The U.S. decay-heat standard, ANSI/ANS-5.1 has been accepted by the International Standards Organization
- k. Three other ANSI/ANS standards: 19.1, 19.3 and 19.6.1 were also proposed for ISO adoption last June
- l. At the June ANS-19 meeting Enrico Sartori of OECD, NEA discussed the “International Handbook of Evaluated Reactor Physics Benchmark Experiments” and invited review of the guidelines vis-à-vis ANSI/ANS-19.4 “A Guide for Acquisition and Documentation of Reference Power Reactor Physics Measurements for Nuclear Analysis Verification”
- m. ANSI/ANS-19.4 and -19.5 are due for revision
- n. A special session was held on Nuclear Standards at the PHYSOR 2006 International Reactor Physics Conference in Vancouver, September 10-14, 2006. Seven papers covering a wide area of physics standards were presented

11. Honors and Awards – Dimitri Cokinos

- a. Wigner Award
 - i. No award this year
 - ii. Nominations for persons who have made significant contributions toward the advancement of the field of Reactor Physics may be made using the appropriate form posted on the ANS website (Honors and Awards) and submitted to ANS Headquarters. The deadline for application is April 1st. The candidate need not be a member of the Society or a U.S. citizen.
- b. ANS Fellows
 - i. No nominees at this time from RPD

12. Joint Benchmark Committee Report. Russ Mosteller reported the following:

- a. Only 4 of 12 committee members attended today’s meeting
- b. One new approved benchmark
- c. Advertising may include a “best benchmark paper” from M&C, RPSD, and RPD
- d. 45 solutions for UO₂, 43 solutions for MOX
- e. Doppler benchmarks may be a poster session at the Monterey topical meeting

13. Goals and Planning Committee – Farzad Rahnema

- a. Farzad reported that the plans were updated except for some needed information and he will provide them to Ben (as RPD Chair) once obtained
- b. Noted that the goal for award nominees is not under the control of the committee

- c. Nominations cannot come from the committee and must come from individuals
 - i. Action for the secretary to put a notice in the next newsletter
- 14. Skipped to Nominating Committee on the agenda – Jess Gehin
 - a. Planning the usual progression of candidates for Chair, Vice-Chair and Treasurer
 - b. 3 new positions on the Executive Committee
 - i. 2 U.S. and 1 International Candidates identified, need 1 more U.S. candidate
 - c. Noted the “usual” problems with 2006 ballots and stressed the need for the nominating committee chair to carefully review the final ballots
- 15. ENDF-B VII – Ken Kozier
 - a. Anticipating launch on 12/15, including 2 data sheets describing the validation process and changes from ENDF-B VI
 - b. Desiring a target distribution of end users, soliciting identification of end users for initial free copies
 - c. Prospective special session for summer 2008, would provide time for end user feedback
- 16. Professional Divisions Committee/Bylaws – Ben Rouben
 - a. Ben attended PD workshop on Saturday, November 11
 - b. Standard bylaws have already been adopted by some TG, now pursuing adoption at the Division level
 - c. Requested Divisions report Tuesday if willing to adopt or require membership vote to adopt
 - d. Division heads were assured a membership vote is not “legally” required. However, the new standard bylaws include a requirement for membership vote to change them.
 - e. “Standard” bylaws are not yet finalized and continue to be modified
 - f. Ben will report that RPD will require a vote (per the existing bylaws) once the standard bylaws are finalized and will request explanation of how new bylaws will be revised [Note following the RPD meeting: At the PD committee meeting on Tuesday Nov. 14, a resolution was passed that the new Standard By-Laws would be put to a general vote of the ANS membership at the same time as the voting for the new ANS Executive.]
- 17. Monterey Topical Update
 - a. April 15-19, 2007
 - b. 237 abstracts submitted
 - c. 3 plenary sessions with 3 speakers each
 - d. Paper reviews are currently underway and due mid-December
 - e. Submittal of full papers is due mid-January
- 18. Meeting was adjourned at 6:00 pm.

Respectfully submitted by Robert St.Clair, Secretary

Attachment 1 – Agenda

REACTOR PHYSICS DIVISION EXECUTIVE COMMITTEE
Sunday, November 12, 2006
4:00 – 6:00 PM

Location: San Miguel, Convention Center, Albuquerque, NM

A G E N D A

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| 1. Secretary's Report | Bob StClair |
| a. Approval of Minutes, June 2006 Meeting | |
| b. RPD Newsletter | |
| 2. Treasurer's Report | Jeff Bradfute |
| a. 2006 Budget Status | |
| 3. Report on RPD Website | Farzad Rahnema |
| 4. Scholarship Committee | Jess Gehin |
| 5. Program Committee Report | Bojan Petrovic |
| a. 2006 Winter Meeting (Albuquerque, NM) | |
| b. 2007 Annual Meeting (Boston, MA) | |
| c. 2007 Winter Meeting (Washington, DC) | |
| 6. Reports on Topical Meetings | |
| a. PHYSOR-2006 | Ben Rouben/Ken Kozier |
| b. PHYSOR-2008 | Konstantin Foskolos |
| 7. Standards Committee Report | Dimitrios Cokinos |
| 8. Honors and Awards Committee Report | Dimitrios Cokinos |
| 9. Joint Benchmark Committee Report | Russ Mosteller |
| 10. Goals and Planning Committee | |
| a. 2005-2009 Operational Plan updates | Farzad Rahnema |
| 11. Division Bylaws | Jess Gehin |
| 12. Professional Divisions Committee – Summary | Ben Rouben |
| 13. Other Topics | |
| a. Request for student support | |
| 14. Nominating Committee Report - 2007 Election Candidates | Jess Gehin |
| 15. Any New Business | |
| 16. Adjournment | |

Attachment 2 – Attendance List

1) Ivan Maldonado	Univ. of Cincinnati	ivan.maldonado@uc.edu
2) Farzad Rahnema	Georgia Tech	farzad@gatech.edu
3) Jess Gehin	ORNL	gehinje@ornl.gov
4) Jeff Bradfute	Westinghouse	bradfujl@westinghouse.com
5) Bojan Petrovic	Westinghouse	petrovb@westinghouse.com
6) Russ Mosteller	LANL	mosteller@lanl.gov
7) Dimitri Cokinos	BNL	cokinos@bnl.gov
8) Bob St. Clair	Duke	brstclai@duke-energy.com
9) Ben Rouben	AECL	roubenb@alum.mit.edu
10) Michael Todosow	BNL	todosowm@bnl.gov
11) Pavel Hejzlar	MIT	hejzlar@mit.edu
12) Mike Zerkle	Bettis	zerkleml@bettis.gov
13) Steve Baker	Transware Enterprises	sbaker@twe.com
14) Andrew Kadak	MIT	kadak@mit.edu
15) Ken Kozier	AECL	kozier@aecl.ca
16) Jesse Klingensmith	Areva	jesse.klingensmith@areva.com
17) Michael Brady Raap	PNNL	michael.bradyraap@pnl.gov
18) Ron Ellis	ORNL	ellisrj@ornl.gov
19) Keith Drudy	Westinghouse	drudyk@westinghouse.com
20) Juan-Luis Francois	University of Mexico	jlfl@fi-b-unam.mx

Attachment 3 – Treasurer’s Report

**AMERICAN NUCLEAR SOCIETY
FINANCIAL REPORT NOVEMBER 2006 AND PROPOSED 2007 BUDGET**

Prepared November 12, 2006

REACTOR PHYSICS DIVISION

	ACTUAL 1997	ACTUAL 1998	ACTUAL 1999	ACTUAL 2000	ACTUAL 2001	ACTUAL 2002	ACTUAL 2003	ACTUAL 2004	ACTUAL 2005	Forecast 2006, 11/06	Notes	ACTUAL 2006, 11/06	Proposed 2007, 11/06	Note
BUDGET FUNDS														
CURRENT YEAR MEMBER ALLOC.	1103	1051	1035	1031	1237	1195	1311	1457	1492	1598		1589	1589	
CARRY FORWARD, PRIOR YEAR	3487	1898	4628	8479	20519	11196	16751	8995	9505	9483		9483	7756	
OTHER BUDGET FUNDS	0	3729	7466	13359	1440	11451	690	11131	1430	11400	1	10000	15,700	4
TOTAL BUDGET FUNDS	4590	6678	13129	22869	23196	23842	18752	21583	12427	22481		21072	25045	
BUDGET EXPENSES														
NEWSLETTERS	0	0	0	0	0	0	0	0	0	0		0		
AWARDS, PLAQUES	0	0	0	150	0	91	257	78	73	100		0	100	
NATIONAL MEETING COSTS	92	0	0	0	0	0	0	0	246	0		0		
DIVISION OFFICER EXPENSE	0	0	0	0	0	0	0	0	0	0		0		
STUDENT SUPPORT	600	800	600	200	2000	2000	2000	2000	2000	4000	2	4000	2500	5
SCHOLARSHIP/NEED FUNDING	2000	600	3400	2000	10000	5000	7500	10000	0	10000	3	10000	0	
OTHER EXPENSES	0	650	650	0	0	0	0	0	625	625		0	500	6
TOTAL EXPENSES	2692	2050	4650	2350	12000	7091	9757	12078	2944	14725		14000	3100	
EXCESS (DEFICIENCY) OF BUDGET FUNDS OVER EXPENSE	1898	4628	8479	20519	11196	16751	8995	9505	9483	7756		7072	21945	

NOTES:

Note 1. 2006 Other Budget Funds of \$11,400 includes:
 2006 ANS Meeting Participation 900
 Estimated National Participation 500
 Subtotal \$1,400
 Henry Family Matching Grant \$10,000
 Total \$11,400

Note 5
 Student conference support \$1,500
 Student travel support to ANS \$1,000
 \$2,500

Note 6
 Unanticipated expenses to be billed by ANS

#2758 Henry / Greebler	
Balance 01/01/06	92,900
Plus 9 Months Interest	3,412
Plus 2006 Receipts	10,000
Minus 2006 Disbursements	-3,500
Balance 9/30/06	102,812

Note 2. Student Support Includes:
 Support 06 St conf 1500
 US st travel Physor mtg 9/06 2000
 RPD student travel support 500
 \$4,000

Note 3. Henry/Greeble Scholarship
 \$10,000 matching grant provided by Henry family
 Scholarship Fully funded as of 11/06

Note 4. 2007 Other Budget Funds of \$11,400 includes:
 2007 ANS Meeting Participation 900
 Estimated National Participation 500
 Subtotal \$1,400
 Physor 2006 (estimated) \$18,000
 Less M&C Share (25%) for Physor (\$4,500)
 2007 M&C Conf. (estimated) \$800
 Total \$15,700

Henry/Greebler Fund (Acct Number 2758)

Year	2001	2002	2003	2004	2005	3/31/2006	9/30/2006
Endowment							
Balance BOY	\$45,370.18	\$58,229.92	\$66,094.82	\$80,195.10	\$92,030.48	\$92,900.76	\$92,900
Member Contributions							
Other Contributions	\$11,850.00	\$6,865.00	\$9,252.00	\$10,850.00			\$10,000
Interest Income	\$4,509.74	\$4,499.90	\$3,989.54	\$4,485.38	\$4,370.28	\$1,102.92	\$3,412
Award	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00		-\$3,500
Change in Balance	\$12,859.74	\$7,864.90	\$9,741.54	\$11,835.38	\$870.28	\$1,102.92	\$9,912
Balance EOY	\$58,229.92	\$66,094.82	\$75,836.36	\$92,030.48	\$92,900.76	\$94,003.68	\$102,812
Board Endowment	\$16,595.53	\$16,595.53	\$16,595.53	\$16,595.53	\$16,595.53	\$16,595.53	\$16,596
Balance with Endowment	\$74,825.45	\$82,690.35	\$92,431.89	\$108,626.01	\$109,496.29	\$110,599.21	\$119,408