

MINUTES OF THE REACTOR PHYSICS DIVISION EXECUTIVE COMMITTEE MEETING
AMERICAN NUCLEAR SOCIETY
Omni William Penn Hotel, Pittsburgh, PA
June 13, 2004

Minutes of the Reactor Physics Division Executive Committee Meeting, June 13, 2004, Omni William Penn Hotel, Vandergrift Meeting Room, Pittsburgh, PA.

Attendees:

Gray Chang (INEEL)
Dimitri Cokinos (BNL)
Phillip Finck (ANL), Chair
Juan L. Francois (Universidad Nacional Autónoma de México)
Jess Gehin (ORNL), Secretary
Baard Johansen (Westinghouse), Vice Chair/Chair Elect
Dale Lancaster (NuclearConsultants.com)
Ivan Maldonado (UC)
Russ Mosteller (LANL), Past Chair
Farzad Rahnema (GA Tech)
Ben Rouben (AECL)
John Ryskamp (INEEL)

1. Chair Phillip Finck called the meeting to order at 4:00 pm

2. Agenda and Minutes

The Agenda was discussed and necessary additions and modifications made. The minutes from the November 2003 meeting were distributed and approved.

3. Student Conferences

Traci Uchtyl discussed the recent ANS Student Conference at the University of Wisconsin/Madison. There were a total of 250 student attendees representing 22 universities with 100 papers on a wide variety of nuclear-related topics. Included in the technical sessions was an anti-nuclear session including two activists to talk about their issues and help the students understand these issues. In addition, there were six professional development sessions and a career fair with 25 organizations.

Matthew Milazzo discussed the 2005 student conference to be held at Ohio State University, April 14-16, 2005. The conference chair is Margaret Mkhosi and the theme is "From the Class Room to the Cutting Edge: Developing Tomorrow's Nuclear Technology Leaders." Financial support for the student conference will be solicited at the ANS Winter meeting.

4. Secretary's Report

Secretary Jess Gehin discussed the lack of newsletters. This issue was discussed and represents deficiency in the communication with our membership. This is reflected in the performance measures of our division, which requires two newsletters per year. A newsletter will be issued by the end of August with the secretary distributing a list of assignments for articles.

5. Treasurer's Report

Vice Chair/Chair Elect Baard Johansen presented the Treasure's report on behalf of Mark Kantrowitz. The funds from recent meetings include the RPD share from the 2003 M&C Topical meeting of \$2543 and the RPD share from the ANFM-II meeting of \$2839, which are yet to be received. The PHYSOR 2004 meeting was estimated to contribute \$3375 with Ray Klann reporting that the actual amount will be approximately \$7,800. A total of \$2,000 was disbursed for student support with \$1,500 going to the 2004 Student Conference and \$500 for student

travel support for national meetings. This disbursement of funds to the Henry/Greebler Scholarship Fund will be discussed at the November 2004 meeting. Assuming a \$2,000 disbursement to the scholarship fund and the revised estimate income from PHYSOR 2004, a budget excess of \$19,959 is forecasted for the next twelve months.

6. Nominating Committee Report

The Nominating Committee Chair Russ Mosteller presented the results of the RPD Officer and Executive Committee Elections for the 2004/2005 term:

Chair:	Baard Johansen
Vice Chair/Chair Elect:	Jess Gehin
Treasurer:	Ben Rouben
Secretary:	Farzad Rahnema
Executive Committee:	Jeffrey Bradfute
	Bill Charlton
	Juan-Luis Francios

A new slate of candidates will be required for next election before the Winter ANS meeting. Phil Finck, as Past Chair, will head the Nominating Committee with Baard Johansen and Jess Gehin serving on the committee.

7. Status of Henry/Greebler Scholarship

Phillip Finck discussed the status of the Henry/Greebler scholarship. This year's scholarship was awarded to Hany Abdel-Khalik at North Carolina State University. Finck also announced that he would be taking over the scholarship committee after many years of leadership by Kord Smith.

8. Reports on Topical Meetings

PHYSOR 2006

Ben Rouben made a presentation on the Canadian Nuclear Society bid to hold the 2006 RPD topical meeting in Vancouver, British Columbia. A complete bid presentation was made to the Technical Program Committee, and the Chair of this committee, Ivan Maldonado, reported that the TPC recommends that the Executive Committee accept this bid.

Rouben reported that the proposed dates for the meeting are September 10-14, 2006 at the Hyatt Regency Vancouver with a room rate of C\$ 223 (~\$160-\$165). The theme of the meeting is "Advances in Nuclear Analysis and Simulation." In addition to four days of technical sessions, a welcome reception will be held on Sunday evening, two hosted lunches, and a conference banquet on Tuesday or Wednesday. A preliminary meeting budget was presented based on a member/non-member early registration fees of \$550/\$600, late registration of \$650/\$800. An estimated surplus of \$19,200 is projected assuming no meeting or event sponsorship. The tentative conference organizing committee consists of:

Honorary Chair:	James Lake, INEEL
General Chair:	Ben Rouben, AECL
Technical Program:	Ken Kozier, AECL, Co-chair
	Russ Mosteller, LANL, USA Co-chair
	TBD, International Co-chair

Baard Johansen made a motion to award the 2006 Topical Meeting to the Canadian Nuclear Society, with a second by Ivan Maldonado. The Executive Committee unanimously approved the motion.

PHYSOR 2004

Ray Klann reported on the PHYSOR 2004 topical meeting, which was held in Chicago, IL in April. Klann provided a preliminary report to the TPC and provided an overview to the Executive Committee. A final report is

expected in approximately one month. A total of 208 papers were presented at the meeting in four parallel sessions and plenary sessions. More than one-half of the meeting participants were international and there were a total of 59 student participants. The net revenue from the meeting is ~\$10,400, with an RPD share of ~\$7,800.

M&C 2005

Richard Sanchez presented information on the Mathematics and Computations Division Topical meeting to be held in Avignon, France September 12-15, 2005. The registration fee will be 600 € (~\$720) and there are several inexpensive hotels to choose from. The meeting is being held as a Class 2 meeting, which results in no financial backing by ANS as well as no profit sharing. Sanchez requested RPD support in organizing technical sessions.

9. Program Committee Report

The Technical Program Chair Ivan Maldonado presented an overview of the RPD Technical Program and TPC Meeting. The 2004 Annual (current meeting) has 26 papers in 4 sessions and a panel session. This paper count is a little lower than typical meetings as a result of the PHYSOR 2004 topical meeting. The 2004 winter meeting in Washington DC has two special sessions: "Reactor Physics Advances for High-Temperature, Gas-Cooled Systems" organized by T.K. Kim, ANL and "Cross-Section Evaluation Working Group (CSEWG) and Nuclear Data: The Legacy of Sol Pearlstein" organized by Russ Mosteller, LANL.

The TPC met earlier in the day to discuss the national meeting program, review of the 2006 topical meeting bids, discussion of the 2008 topical meeting, and committee membership. The following members were added to the committee:

Dr. Hironobu Unesaki, Kyoto University
Dr. Nela Zavaljevski, ANL
Mr. Paul G. Edelman, Constellation Energy Group
Prof. Edmundo del Valle Gallegos (ININ, Mexico)
Dr. David J. Loaiza, LANL
Mr Keith J. Drudy, Westinghouse Electric Company

10. Standards Committee Report

The Standards Committee Chair Dimitrios Cokinos discussed recent activities on the reactor physics standards:

- ANS 19.1 "Nuclear Data Sets for Reactor Design Calculations" – The 2002 revision is available
- ANS 19.3 "Reaction Rate Distributions and Reactivity for Power Reactors" – Revised and is awaiting approval of the PINS (project initialization notification systems) form. This approval will be followed by balloting of N17
- ANS 19.6.1: "Reload Startup Physics Tests for Pressurized Water Reactors" – Also awaiting PINS action and is now being formatted.
- ANS 5.1: "Decay Heat Power in Light Water Reactors" – A draft revision of the standard has been created and the comments are being resolved.
- ANS 19.10: "Pressure Vessel and Reactor Internals Neutron Fluence" – Draft will be available shortly.

A meeting of the ANS 19 committee will be held Monday, June 14 8:30 – 10:30 am in room Conference C.

11. Honors and Awards Committee Report

The Honors and Awards Committee Chair Dimitrios Cokinos reported that the 2004 Wigner Award Recipient is Dr. Richard Hwang of Argonne National Laboratory. Dr. Hwang is well known in the area of resonance processing, improvements in resonance integrals, Doppler broadening and data library formats. The award will be presented at the November 2004 National Meeting and Dr. Hwang has accepted the invitation to present a paper at that meeting as the Wigner Award winner.

12. Joint Benchmark Committee Report

Russ Mosteller discussed recent activities of the Joint Benchmark Committee (JBC). The JBC is composed of members from RPD, MCD, and RPSD to cooperatively work on joint benchmark projects. Mosteller reported that Charles Rombough has completed his term on the committee and will be replaced by Temitope Taiwo. The JBC meet earlier in the day and the following benchmark activities were discussed:

- An analytic benchmark submitted by Barry Ganapol is to be accepted by the committee at the November 2004 meeting.
- Russ Mosteller proposed an extended Doppler coefficient benchmark with up to 8% enriched uranium fuel and with mixed-oxide fuel (reactor and weapons grade).
- Farzad Rahnema proposed a full-core BWR benchmark problem in one and two dimensions. The benchmark will be a test for transport and diffusion methods.

13. Goals and Planning Report

Baard Johansen discussed the actions of the Goals and Planning Committee, which met earlier in the day. This year's operational plan was updated and a draft of the RPD five-year plan was presented. Of particular note is that our division membership has increased by 11% in the last year to 1457 and 40.8% over the last five years. We are also doing well in international participation as indicated by over 50% attendance at the PHYSOR 2004 meeting. RPD is scheduled to make a presentation to the Board of Directors in June 2005. Johansen also discussed our vitality measures in that we are lacking in the communication area and that we have not received proper credit in other areas. He reported that we should be able to improve these measures over the next year.

14. Professional Division Committee

Baard Johansen attended the President's Meeting with Division Chairs and provided an overview of the discussions by ANS President Larry Foulke. Foulke presented a "report card" on the following areas:

- Finances: B
- Local Sections: C
- Honors and Awards: A
- Young Member Support: D

Of particular concern was the young member support that the NAYGN (North American Young Generation in Nuclear) is now servicing the younger members (or potential members) of our society. Foulke also reported that the society is doing a poor job on position statements.

Also at the President's meeting with Division Chairs the President Elect Jim Tulenko presented his areas of focus: Local Section engagement; Topical meetings, and Division newsletter/websites.

15. New or Other Business

Johansen also reported that he has received a request from the American Association for the Advancement of Science (AAAS) for a RPD member to serve in their Physics Division.

16. The meeting was adjourned at 5:45 pm

Respectfully submitted,

Jess C. Gehin, Secretary
ANS Reactor Physics Division