

## Minutes of the ANS Reactor Physics Division Executive Committee

2003 ANS Winter Meeting  
St. Charles A Meeting Room, Hyatt Regency  
New Orleans, Louisiana

November 16, 2003

In Attendance:

Phillip Finck	Chair	ANL
Baard Johansen	Vice Chair/Chair Elect	Westinghouse Electric
Jess Gehin	Secretary	ORNL
Russ Mosteller	Past Chair	LANL
Ivan Maldonado	EC Member (TPC Chair)	Univ. of Cincinnati
Steve Baker		Transware Enterprises
Jeff Bradfute		Westinghouse Electric
Gray Chang	EC Member	INEEL
Bill Charlton		Texas A&M University
Nam Zin Cho		KAIST
Dimitrios Cokinos	Ex-Officio	BNL
Atul Karve	EC Member	GNF
Ray Klann		ANL
Ken Kozier		AECL
Abderaffi Ougouag		INEEL
Ben Rouben	EC Member	AECL
Esturo Saji	EC Member	Nuclear Safety Commission, Japan
Kord Smith		Studvik Scandpower, Inc.

The meeting was called to order at 4:05 pm by the RPD Chair Phillip Finck.

The agenda was distributed and with no comments.

### **1. Secretary's Report (Jess Gehin)**

The minutes from the previous two meetings were distributed and reviewed. The minutes were prepared by the previous Secretary (current Treasurer) Mark Kantrowitz and were unanimously approved.

Our division has not had a newsletter since the spring of 2002. Our goals and planning call for two newsletters a year and the committee expressed its concern of the lack of a newsletter over the past two years. Ray Klann proposed that devote the next newsletter to the PHYSOR 2004 meeting distribute the newsletter before the end of the year. The Secretary took an action to produce the newsletter and have ANS distribute. The newsletter will also be made available on the RPD website. Other topics suggested for the newsletter include co-sponsored meetings, national meeting sessions, reports on recent standards activities, and the Scholarship Committee.

### **2. Treasurer's report (Baard Johansen for Mark Kantrowitz)**

The budget was distributed for discussion. The changes made to the budget at the June 2003 meeting include increasing our contribution to the scholarship from \$2,000 to \$7,500 and for awards (\$175). Revenue sources that are expected but have not been obtained include income from the 2003 M&C topical (forecast of \$875) and the anticipated income from our national meetings papers (forecast of \$780)

Anticipated income for 2004 includes revenue from ANFM-III (\$2,800) and PHYSOR 2004 (forecast of \$3,400). Outgoing funds in 2004 will be for the scholarship fund and for student support.

Baard discussed the agreement between RPD and MCD on profit sharing has been approved by both divisions and will be reflected in our goals and planning.

### **3. Nominating Committee Report (Russ Mosteller)**

The proposed slated of candidates for the upcoming election for division officers and Executive Committee is as follows:

Chair:	Baard Johansen
Vice Chair/Chair Elect:	Jess Gehin
Treasurer:	Ben Rouben
Secretary:	Farazd Rahnima & Steve Baker
Executive Committee:	Juan Luis Francois (international, unopposed) Jeff Bradfute, Bill Charlton, Kostadin Ivanov (compete for two positions)

A motion for approval of this slate of candidates was made by Russ Mosteller, seconded by Baard Johansen, and approve unanimously by the Executive Committee.

### **4. Professional Divisions Committee Report (Russ Mosteller)**

The topic of metrics and measures was previously discussed at the June meeting. The metrics and measures were proposed as internal information to help the divisions perform a self assessment. Later the Professional Divisions Committee (PDC) wanted to provide the information to the Board of Directors. In June, the Executive Committee instructed Russ to vote against providing the information to the Board of Directors at the PDC meeting. The measure passed the PDC with a vote of 13-3. Russ expressed his concern over the use of the metrics since we are performing very well and the metrics are based on improvements. It is also uncertain how the Board of Directors will utilize this information. He stated at this point this is little we can do, and that with the current metrics we are doing very well.

### **5. Status of Henry/Greebler Scholarship (Kord Smith)**

As of October the Henry/Greebler Scholarship fund had balance of ~\$76,000, received about \$4,000 in income and dispersed \$3500. The Henry family offered \$10,000 in matching funds at the Reno ANS Meeting. Since then about \$6,000 in contributions has been received. Kord has contacted about 60 people and has commitments from about 30 people. About 40 people have contributed over the past couple of years. When all accounted for, Kord is anticipating a scholarship balance of \$90,000, which should be sufficient for the scholarship to be self-sustaining. Kord would like the scholarship amount to increase to \$5,000 to attract the best candidates. Kord also announced that he will continue to serve as the scholarship chair through the next scholarship decision process in January/February 2004, but then will retire the position. The Division Chair asked for volunteers to take on this important task.

### **6. Student Conference (Ross Radel and Lola Neisius)**

Wisconsin will be hosting 2004 student conference in Madison. The conference will be held April 1-3 and has the theme of "Out of the Ashes Revival of the Nuclear Era." Ross would like to have participants from the divisions to make a brief two-sentence statement at the meeting describing what our division does as well as submitting individuals as judges for the student presentations. Ross also requested financial support for the student conference, possibly for awards, student travel. Ross Radel suggested that he provide input for the RPD

newsletter and that we contribute a division write-up for the final program of the meeting (provided we donate \$1,500). The Division Chair, Phillip Finck, will attend and act as a division representative.

## **7. Reports on Topical Meetings**

### **ANFM-III Report (Atul Karve)**

The ANFM-III meeting was held October 5-8, 2003 in Hilton Head, SC. Atul provided a summary of the number of papers and participants:

Papers:	125
Attendance Ratio:	1.5 attendees/paper
Session:	121
Parallel Sessions:	4

Atul provided a detailed financial report detailing the proceeds from registration and donations from sponsors. The net meeting revenue was approximately \$15,000 with our division to receive \$2,800 of the profit. The remainder of the profit goes to the ANS local section and ANS national.

An issue arose with the need to provide interpretive services (sign language). ANS does have a policy on this and the Program Chair (Ivan Maldonado) was asked to bring up this issue at the NPC meeting on Wednesday.

### **PHYSOR 2004 (Ray Klann)**

A Technical Program Committee meeting was held earlier in the day with a detailed discussion of the progress in the organization of the meeting and the program content. The paper review was completed this last week with the following outcome:

Summaries submitted:	289
Accepted:	255
Rejected:	17
Still being resolved:	17

Author notification will be sent out next week with full papers due on February 2, 2004. The preliminary program is under development. Ray will be going to NPC Screening Committee this week for final approval of the meeting.

Ray discussed several of the meeting highlights. There will be two workshops: MCNP5 on Sunday and Gen IV on Friday. The opening reception will be held at the Art Institute. More information is available on the website: <http://www.physor2004.anl.gov>. Ray is still seeking corporate sponsors and requested help in identifying sponsors.

Russ Mosteller inquired about the ANS hosting the paper review system. Ray indicated that several reviewers complained about the review system and that it was very complex and difficult to use. The consensus was that the ANS COS system is more complicated than the system used for the ANFM-III and M&C 2003 conferences (meetingsandconferences.com) and that it is significantly more expensive (~30%).

### **PHYSOR 2006 & PHYSOR 2008 (Ivan Maldonado)**

There are currently several prospects for the 2006 topical meetings with interest being expressed by Portland, Canada, Atlanta, and Mexico. The bid presentations will be made at the Pittsburgh RPD Program Committee Meeting. Regarding the 2008 topical meeting, Switzerland has expressed interest and a brief overview was given at the Program Committee meeting by Enrico Sartori.

## **8. Program Committee Report (Ivan Maldonado)**

Ivan reported on the progress in the organization of the national meeting sessions. The current meeting has 34 papers (with 1 rejection) in 6 sessions. For this meeting there is one special session "Control and Safety Strategies for Space Nuclear Reactors" organized and chaired by Mike Zerkle, with one of the proposed special sessions on quasi-diffusion and related methods being canceled because a lack of papers. The panel session on "Current Issues for Reactor Engineers" was also canceled because of difficulty to obtain panelists. A panel session "Preparing for the Future Reactor Physics Needs in Science, People, and Infrastructure" organized by the RPD Chair, Phillip Finck will be held on Tuesday afternoon.

For the 2004 Annual meeting in Pittsburgh, PA there are two special sessions. Kostadin Ivanov reported via mail on his session "Coupled Neutronics/Thermal-Hydraulics Code Development and Application to Advanced Reactor Design," which is proceeding well. The other session is being organized by Hussein Khalil "Reactor Physics Advances for Design of Generation IV Nuclear Energy Systems" is expected to draw a lot of interest.

Two special sessions have been proposed for the 2004 winter meeting. The first was proposed by T.K. Kim and titled "Reactor Physics Advances for High-Temperature Gas Cooled Systems." The second session was proposed by Russ Mosteller, titled "CSWEG and Nuclear Data: The Legacy of Sol Pearlstein." Both special sessions were approved by the Program Committee.

## **9. Standards Committee Report (Dimitri Cokinos)**

Currently there are three standards being considered by ANS-19:

ANS-19.3 Reactivity Reaction Rates (Ben Rouben) - voted on ANS-19 there are a few remaining comments and it will be voted on tomorrow. After approval by ANS-19 it will proceed to N-17.

ANS 19.6.1 Reload startup physics tests for PWRs (Charlie Rombough) - voted on by ANS-19 and comments resolved and has been sent for N-17 balloting

ANS 19.10 Fast Neutron Fluence for Pressure Vessel (Lambros Lois) - has been worked on the working group and will be voted on tomorrow at the ANS-19 committee.

In addition to these standards actions, Dimitri noted that ANS-51 on Decay Heat is also under revision with Mikey Brady working on an update. ANS 19 meets tomorrow morning 8:30 – 10:30 am in the Rosedown room.

## **10. Honors and Awards Committee Report (Dimitri Cokinos)**

This year's Wigner award was presented to Paul Turinsky and Weston Stacy. Turinsky received his award at the ANFM-III meeting and Stacy will receive his award at the Tuesday awards lunch. As previously discussed, the division allows the award winner to make a presentation at an ANS national or topical meeting. The logistics for allowing for this has not been determined. Dimitri requests that our members to provide nominations for this award.

The current membership of the Honors and Awards Committee is as follows.

Russ Mosteller  
Nam Zin Cho  
Charles Rombough  
Richard Cacciputti  
Dimitri Cokinos

## **11. Goals and Planning (Baard Johansen)**

The goals and planning committee met at the June meeting and an updated operational plan has been distributed. The changes include the profit sharing arrangement with MCD and a change in our membership.

Additional standards work (ANS 19.10) should also be included in the one-year plan.

Our five year plan calls for us to make the scholarship self sufficient by 2006. A proposal was made to increase the scholarship to \$5,000 by 2005. The G&P chair requested that we wait until June 2004 to make the final decision.

## **12. Joint Benchmark Committee Report (Russ Mosteller)**

The committee met earlier today and has nothing to report. Attendance of members of the committee is an issue. Reactor Physics is well represented, but other divisions are not. The viability of this committee was discussed. A special session on "JBC and Related Efforts" is planned for the 2004 Annual meeting.

## **13. CNS 6<sup>th</sup> International Conference on Simulation Methods (Ben Rouben)**

The CNS is requesting ANS co-sponsorship of this meeting and needs a professional division to support the co-sponsorship. The meeting will be held in October 2004 in Montreal and will focus on simulation and modeling methods related to nuclear systems. The meetings typically have a significant number of papers on Reactor Physics. The co-sponsorship of the meeting was discussed at the Program Committee Meeting and the Program Committee Chair reported that they recommend co-sponsorship. Ivan Maldonado made a motion for RPD to be the supporting division for the meeting co-sponsorship. Russ Mosteller seconded the motion and it was unanimously accepted by vote of the Executive Committee.

## **14. Other Business**

The Division Chair received an email from Mike Dickman on the selection of ANS representative to American Association for the Advancement of Science Committee on Physics. This representative will participate in email interaction to discuss various issues. Contact Phillip Finck if interested.

An announcement for the 2004 Joliot-Hahn Summer School on Nuclear reactors was distributed with a request by Robert Jacqmin (via Phillip Finck) to further distribute the announcement among our respective organizations. The Summer School will be held at CEA Cadarache, France from August 25 – September 3, 2004.

The Division Chair reminded everyone of the panel session on Tuesday on "Preparing for the Future Reactor Physics Needs in Science, People, and Infrastructure". The panelists and topics are as follows:

Nuclear Data – Massimo Savatores  
Experiments – Tim Valentine (cannot attend, a replacement is needed)  
Commercial Codes – Kord Smith  
Methods and Theoretical Development – Marv Adams

Baard Johansen (Vice Chair) attended the Presidents Meeting with the Division Chairs on Sunday morning and reported on the Presidents message. Larry Foulke presented the five "Mega Issues" facing the society:

1. Maintaining financial solvency while maintaining goals
2. Attracting and maintaining members

3. Communications of nuclear benefits to legislators and public
4. Aging work force and membership
5. More effective strategic governance of the society

Baard passed along several statistics of interest: ~550 of 10,000 members participate on committees (~5%). Membership has reduced about 1% per year over the last five years (RPD has grown). The decrease is in long-term members. Short term members (<5 years) have increased, with 28% of new members joining simply because of someone asked them to join. There will be more focus on transition of student members to full members (currently only about 25% make this transition). Operation and power division surveyed their members and 60% have not attended a meeting in the last 5 years. Only 5% of their members are attending this meeting.

Some of the divisions are doing interesting things to try to provide value to their member, such as NCSD providing a certificate of attendance to indicate participation for training purpose. Some of the divisions are also adding technical content to their newsletters.

Baard also reported that the ANS President has created two special committees, with one on Isotope Assurance and the other on a Nuclear Energy Renaissance (congressional support for building nuclear plants)

The meeting was adjourned at 5:55 pm.

Respectfully Submitted  
Jess C. Gehin, Secretary  
Reactor Physics Division