



MEETING MINUTES

Meeting minutes were taken by Pavel Tsvetkov, division secretary
Attendance count – 20 attendees (see APPENDIX 2 for the current executive committee membership structure and APPENDIX 3 for the attendee list of the Executive Committee Meeting in San Diego)

Meeting called to order at 4:00 pm by Ali Haghghat.

Meeting agenda distributed (see APPENDIX 1)

1. Secretary's Report – Pavel Tsvetkov

a. Approval of minutes, June 2012 meeting (Chicago, IL)

The ANS 2012 Annual Meeting minutes summary has been distributed. Several committee members offered corrections to the document. Corrections were taken and implemented. The corrected document is provided in APPENDIX 4.

The motion was made by Mark DeHart to approve the ANS 2012 Annual Meeting Minutes as amended. The motion was seconded by Pavel Tsvetkov. The motion was carried by unanimous vote of the committee members.

Outcome: ANS 2012 Annual Meeting minutes approved, see APPENDIX 4.

b. RPD Newsletter Status/Schedule

The ANS RPD Winter/Spring 2012 Newsletter has been distributed to the RPD membership prior to the ANS 2012 Winter Meeting in San Diego.

The next newsletter is expected to be released after the ANS 2012 Winter Meeting, by the end of 2012. It will be released as Summer/Winter 2012 Newsletter.

The Spring 2013 Newsletter will be released prior to the ANS 2013 Annual Meeting.

Outcome: the upcoming ANS RPD Summer/Winter 2012 Newsletter is expected by the end of 2012.

2. Treasurer's Report – Ron Ellis

The financial report has been distributed to the committee. The Treasurer's financial report and related documents are given in Appendices as follows - APPENDIX 5 "RPD Financial Report", APPENDIX 6 "Historical Income/Expenses & 2012 Budget", APPENDIX 7 "ANS Financial Status Report as of 8/31/2012", APPENDIX 8 "Reactor Physics Division Membership", APPENDIX 9 "Reactor Physics Division Membership History".

a. Student Support (National Meetings and Student Conference)

Student conference allocation has been discussed and made. The committee expressed support and agreement to continue support student conferences at the levels needed. Excess funds were



mentioned and discussed in this context and also in connection to broader student support and potential ways to do so. A student design competition was noted as a possibility.

Outcome: the student conference allocation is budgeted

b. 2012 Budget Status (payments, income, pending items, etc.)

It has been reported that the current RPD membership is approximately 2200 members. The budget has been reviewed by the committee. The question was asked to confirm that the intent is to keep the budget at the level of about \$70,000. It has been acknowledged that there is some excess available. The support for the potential joint benchmark conference is cancelled for this year due to schedule challenges.

Outcome: the committee concluded that the budget is healthy

c. 2013 Budget Proposal

2013 budget details have been presented. The need to finalize scholarship/fellowship expenses has been discussed.

Outcome: the committee will continue working on establishing fellowships/scholarships and providing the needed budget allocation.

3. 2012 Nominating/Elections Committee Report – Ben Forget

Ben Forget was absent at the meeting. Mark DeHart discussed elections and discussed the status. Candidates for the secretary position will be Attul Karve and Fausto Franceschini. There are 4 candidates for the executive committee. There is also one international position.

Outcome: the committee discussed the election bids.

4. 2012 RPD Survey – Blair Bromley

Blair Bromley discussed the status of the RPD survey. Mark DeHart mentioned that the ANS national should be capable to provide technical support with the survey administration. The plan is to proceed with the survey in 2013.

Outcome: survey is in progress. Blair Bromley will check with Joe Koblich on the potential for ANS help with the survey administration.

5. RPD Website Update – Mark DeHart

Mark DeHart provided update on the status of the RPD website. Hanna Shipara availability to make timely changes to the website content was discussed. The need to update the website content was brought up and discussed. It was mentioned that the current site still shows Ivan Maldonado as the division chair.

Access to the website content and access credentials needed for it were discussed. Mark DeHart mentioned that he is waiting for Hanna to send him the necessary information for accessing the site.



Mark also brought up his efforts to establish the RPD Facebook presence. It is up and available. He is also planning to create LinkedIn site. Some committee members indicated that they are not interested in using Facebook because of privacy issues.

Outcome: Mark DeHart plans to proceed with his ANS RPD website update efforts to bring it up to speed and make sure this can be sustained on a timely basis.

6. Scholarship Committee - Jess Gehin

Jess Gehin was absent. A comment was made that he has been absent for some time and a new liaison is needed. The need for a plan and a commitment to establish an undergraduate scholarship was discussed. There was a discussion about Andy Worrall to take the lead on the Scholarship committee but nothing firm was decided.

Outcome: no immediate action items emerged from the discussion. New liaison will be considered.

7. Program Committee Updates – Alex Stanculescu

Mark DeHart gave the update for Alex Stanculescu who was absent at the meeting.

a. 2012 Winter Meeting (San Diego, CA)

Mark DeHart reported that there are 11 sessions sponsored and co-sponsored by RPD at the ANS winter meeting in San Diego:

1. Reactor Physics: General – I, Mon., p.m.
2. Reactor Physics: General – II, Tue, a.m.
3. Reactor Physics Design, Validation, and Operating Experience – I, Tue, a.m.
4. Reactor Physics Design, Validation, and Operating Experience – II, Tue, p.m.
5. Reactor Analysis Methods – I, Wed, a.m.
6. Reactor Analysis Methods – II, Thurs, a.m.
7. Hybrid Monte Carlo Deterministic Methods for Reactor Analysis, Wed, a.m.
8. “I Wonder if...” Special Session in Honor of John Rowlands, Wed, p.m.
9. IAEA Reactor Physics and Technology Development Activities – I, Thurs, a.m.
10. IAEA Reactor Physics and Technology Development Activities – II, Thurs, p.m.
11. Physics Issues for Small Compact Reactors, Thurs, p.m.

All special sessions made and have good representations of papers. Mark DeHart confirmed availability of chairs and co-chairs for the sessions.

The paper review process resulted in 5 potential best papers.

Outcome: no immediate action items resulted from the discussion

b. 2013 Annual Meeting (Atlanta, GA)

Meeting organization is in progress. There is a number of proposed special sessions being organized and papers are solicited.

Outcome: the need to participate in the review process was acknowledged.



c. 2013 Winter Meeting (Washington, DC) (75th Anniversary of the ANS at 2013 Washington DC meeting)

The need for a session focused on fission (potentially a panel discussion) has been brought up and discussed in a view of 75th anniversary of fission. Potential ideas were discussed. An idea of a joint RPD-MCD session has been brought up.

Outcome: solicit more ideas after the meeting is an action item including approaching MCD for a joint session or panel.

8. Topical Meetings (Updates, Requests for Sponsorship)

a. PHYSOR 2012 (Knoxville, TN) – Jess Gehin, Ivan Maldonado, Ron Ellis

Ron Ellis reported that PHYSOR 2012 has been closed by the ANS national. The income to the division is about \$12,306, 4,000 people were associated with the conference in various roles, 375 papers were presented in 65 sessions. The conference was a clear success.

Outcome: the committee acknowledged the success of PHYSOR 2012 and thank organizers for their efforts and superb job done.

b. PHYSOR 2014 Planning – Akio Yamamoto

Akio Yamamoto presented the status of the conference organization. The conference will be held in Kyoto, Japan, will be similar to previous PHYSOR meetings. Deadlines and committees have been established. Everything is on schedule. The conference organization status report was delivered via presentation. The presentation is included as APPENDIX 10.

The question was asked about potential discounts available at the conference. The answer was given that there are no discounts defined yet. Everything will depend on budgets.

A concern was brought up with respect to potential travel restrictions and limited conference attendance due to budget constraints.

Outcome: no action items developed from the discussion.

9. Standards Committee Update - Dimitrios Cokinos

The report on standards related efforts was given by Dimitri Cokinos. There are several standards in development including 19.3 on neutronics (static) and standards on physics of startup tests, nuclear data for medical and industrial applications, and 19.5 on requirements for experiments for physics measurements. Standard on MTC has been finalized. Decay heat power standard has been revised by Ian Gauld (ORNL).

Search for the chair is in progress. Standards meeting – 8:30 – 10:30 a.m., Monday.

Outcome: no action items developed from the discussion.



10. Honors and Awards Committee Update - Dimitrios Cokinos

Dimitri Cokinos gave the update on honors and awards committee activities

a. Wigner Award

Wigner Award nominations due by April

Outcome: no direct action items developed from the discussion for the committee. Nominations for the award are solicited.

b. ANS Fellows

Number of potential candidates for the award has been identified.

Outcome: no direct action items developed from the discussion for the committee. Nominations for the award are solicited.

c. Update on Categorization of Division Administered Awards

ANS handles the award. Early career awards (under 39 years) have been discussed. There should be a system in place to encourage nominations.

Outcome: no direct action items developed from the discussion for the committee. Nominations for the award are solicited.

11. Student Conference Update – (MIT)

MIT student representatives gave the update on the ANS student conference organization status. The conference will have presentations and poster sessions. Best paper awards will be contested in graduate and undergraduate categories. Opportunity to submit more detailed abstracts will be offered to conference participants. The conference details are summarized in APPENDIX 11.

Outcome: volunteer is needed to deliver a presentation from RPD.

12. Joint Benchmark Committee Report - Mark DeHart, Glenn Sjoden

Glenn Sjoden reported on the status of the joint Benchmark Committee effort. The benchmark database is completed and available. Blair Briggs at INL is a coordinator. Special session is approved for the next winter meeting. The session needs a co-chair.

Outcome: there is a need to seek a session co-chair.

13. Goals and Strategic Planning Committee – Mark DeHart

Mark DeHart reported on the Goals and Strategic Planning committee activities. The plan is to develop a primer outlining each RPD officer responsibilities.

Outcome: the committee will review the document once available.



14. Professional Divisions

a. PDC Update (workshop update by Ali Haghghat and Mark DeHart)

Mark DeHart reported on the professional development committee activities. Student assistance and DOE travel restrictions were discussed.

Outcome: no action items developed from the discussion.

b. Liaison report (Regis Matzie – PDC Liaison)

Regis Matzie was not present at the meeting. No report was given on this agenda topic.

Outcome: deferred till next meeting.

15. New Business

Ali Haghghat carried the discussion. Session chairs/co-chairs were confirmed for the RPD sessions. Mark DeHart informed the committee that this has been resolved at the Program Committee meeting.

The committee discussed the possibility to provide assistance to Yehuda Wagchal in his annual visa applications. ANS President has been informed and expressed sympathy to the situation. The committee acknowledged that this issue is beyond ANS and is up to the State Department to handle following the established process.

ANS President is holding a meeting on strategic planning efforts which are currently in progress.

The conference registration fee has been discussed. Committee members expressed their surprise by the current level of the fee vs. fees in peer professional societies. It has been agreed that the current fee level is too high and may potentially impact conference attendance.

Blair Bromley brought up the subject of donations for student conferences and the possibility to organize RPD student design competition. The discussion did not lead to any action items.

RPD co-sponsoring of the International Conference on Nuclear Data for Science and Technology, March 4-8, 2013, NY, NY (<http://www.bnl.gov/nd2013>)

Because of the scheduling challenges due to timing constraints, RPD is not going to provide any support to the meeting.

Outcome: no support will be provided.

A list of topics for the Special Awards was prepared at the request of H&A Chair, Paul Turinski

- 1. Beyond-Design-Basis-Accident (BDBA) scenarios, analysis and management**
- 2. Advances in Multiphysics Methods, Modeling and Visualization**
- 3. Advances towards Nuclear Energy Sustainability**
- 4. Public Education and Acceptance**



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Executive Committee Meeting



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The committee reviewed the proposed list of topics for the special award. Dimitri Cokinos confirmed that only one topic will be picked among topics submitted by the divisions. The committee expressed hope that one of the proposed four topics will be picked up by the ANS national for consideration as an award area.

Outcome: no action items developed from the discussion.

Is there a need for formation of a committee on Public information and Website Maintenance? E.g., Fukushima lessons, preparation of a RPD poster.

Ali Haghigat discussed the need for public outreach, public information and website maintenance as well as RPD poster. An option of forming a committee of volunteers was suggested.

Outcome: the committee seeks volunteers who are interested in serving on the committee on public information and website maintenance.

15. Adjournment

Ali Haghigat moved to adjourn the meeting. Mark DeHart seconded. The motion carried by the unanimous vote of the executive committee membership present.

Blair Bromley asked the committee to self-organize for the photo opportunity.

Several photos were taken to document the meeting.

Outcome: photos from the RPD Executive Committee Meeting are included as APPENDIX 12.

The meeting was adjourn.



APPENDIX 1. Executive Committee Meeting Agenda

1. Secretary's Report – Pavel Tsvetkov 5 min
 - a. Approval of minutes, June 2012 meeting (Chicago, IL)
 - b. RPD Newsletter Status/Schedule
2. Treasurer's Report – Ron Ellis 10 min
 - a. Student Support (National Meetings and Student Conference)
 - b. 2012 Budget Status (payments, income, pending items, etc.)
 - c. 2012 Budget Proposal
3. 2012 Nominating/Elections Committee Report – Ben Forget 5 min
4. 2012 RPD Survey – Blair Bromley 15 min
5. RPD Website Update – Mark DeHart 10 min
6. Scholarship Committee - Jess Gehin 5 min
7. Program Committee Updates – Alex stanculescu 15 min
 - a. 2012 Winter Meeting (San Diego, CA)
 - b. 2013 Annual Meeting (Atlanta, GA)
 - c. 2013 Winter Meeting (Washington, DC) (75th Anniversary of the ANS at 2013 Washington DC meeting)
8. Topical Meetings (Updates, Requests for Sponsorship) 10 min
 - a. PHYSOR 2012 (Knoxville, TN) – Jess Gehin, Ivan Maldonado, Ron Ellis
 - b. PHYSOR 2014 Planning – Akio Yamamoto
9. Standards Committee Update - Dimitrios Cokinos 5 min
10. Honors and Awards Committee Update - Dimitrios Cokinos 10 min
 - a. Wigner Award
 - b. ANS Fellows
 - c. Update on Categorization of Division Administered Awards
11. Student Conference Update – (MIT) 5 min
12. Joint Benchmark Committee Report - Mark DeHart 5 min
13. Goals and Strategic Planning Committee – Mark DeHart 5 min
14. Professional Divisions 10 min
 - a. PDC Update (workshop update by Ali Haghghat and Mark DeHart)
 - b. Liaison report (Regis Matzie – PDC Liaison)
15. New Business 10 min
 - RPD co-sponsoring of the International Conference on Nuclear Data for Science and Technology, March 4-8, 2013, NY, NY (<http://www.bnl.gov/nd2013>)
 - A list of topics for the Special Awards was prepared at the request of H&A Chair, Paul Turinski
 - 1) Beyond-Design-Basis-Accident (BDBA) scenarios, analysis and management
 - 2) Advances in Multiphysics Methods, Modeling and Visualization
 - 3) Advances towards Nuclear Energy Sustainability
 - 4) Public Education and Acceptance
 - Is there a need for formation of a committee on Public information and Website Maintenance? E.g., Fukushima lessons, preparation of a RPD poster.
15. Adjournment



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APPENDIX 2. 2012-13 RPD Officers and Executive Committee (Effective June 2012)

Chair		Vice Chair/Chair Elect	
<p>Dr. Alireza Haghighat Virginia Tech Research Center 900 N Glebe Road Arlington, VA 22203-0238 Phone: (571) 858-3333 Email: haghighat@vt.edu</p>		<p>Dr. Mark DeHart Idaho National Laboratory Nuclear Systems Design and Analysis Division PO Box 1625 Idaho Falls, ID 83404 Phone: (208) 526-1279; Fax: (208) 526-2930 Email: Mark.DeHart@inl.gov</p>	
Treasurer		Secretary	
<p>Dr. Ronald J. Ellis Oak Ridge National Laboratory Reactor and Nuclear Systems Division 1 Bethel Valley Road, PO Box 2008 Oak Ridge, TN 37831 Phone: (865) 574-6107; Fax (865) 574-9619 Email: ellisrj@ornl.gov</p>		<p>Dr. Pavel V. Tsvetkov Associate Professor Department of Nuclear Engineering Texas A&M University 337 Zachry, MS 3133, College Station, TX, 77843-3133 Phone: (979) 845-7078; Fax: (979) 845-6443 E-mail: tsvetkov@tamu.edu</p>	
Executive Committee			
2013	2014	2015	
<p>Dr Tunc Aldemir Ohio State University E427 Scott Laboratory 201 W 19th Ave Columbus, OH 43210 Phone: (614) 292-4627 Email: aldemir.1@osu.edu</p>	<p>Dr. David W. Nigg Idaho National Laboratory Corporate Fellow, Nuclear Systems Design & Analysis Division PO Box 1625 Idaho Falls, ID 83404 Phone: (208) 526-7627 Email: David.Nigg@inl.gov</p>	<p>Dr. Sandra Dulla Politecnico di Torino, Dipartimento Energia Corso Duca degli Abruzzi, 24 10129 Torino, Italy Phone: (+39) 011 090 4416 Email: sandra.dulla@polito.it</p>	
<p>Mr. Robb Borland Manager, Nuclear Fuel & Analysis FirstEnergy Nuclear Operating Company Phone: (330) 384-2483 Email: rjborland@firstenergycorp.com</p>	<p>Dr. Mohamed Ouisloumen Westinghouse Electric Company 4350 Northern Pike Monroeville, PA 15146, USA Phone: (412) 374-2148 Email: ouislom@westinghouse.com</p>	<p>David S. Orr, PE Duke Energy P.O. Box 1006 Charlotte, NC 28201-1006 Phone: (704) 382-8673 Email: david.orr@duke-energy.com</p>	
<p>Dr. Blair P. Bromley AECL - Chalk River Laboratories Building 889 - Keys School - Room 130 1 Plant Road, Chalk River, ON, K0J 1J0 Phone: (613) 584-8811 x43676 Email: bromleyb@aecl.ca</p>	<p>Dr. Ugur Mertuyrek Oak Ridge National Laboratory Reactor and Nuclear Systems Division 1 Bethel Valley Road, PO Box 2008 Oak Ridge, TN 37831 Phone: (865) 574-5291 Email: mertuyreku@ornl.gov</p>	<p>Dr. Mark Pierson Virginia Tech, Mechanical Engineering Department, Nuclear Engineering Program 306 Collegiate Square (MC 0710) Blacksburg, VA 24061 Phone: (540) 231-9112 Email: mark.pierson@vt.edu</p>	
<p>Dr. Akio Yamamoto Associate Professor Dept of Material, Physics and Energy Engineering Graduate School of Engineering, Nagoya University Furo-cho, Chikusa-ku, Nagoya-shi, 464- 8603, Japan. Phone: +81-52-789-5121 Email: a-yamamoto@nucl.nagoya-u.ac.jp</p>	<p>Massimo Salvatores CEA-Cadarache St-Paul-Lez-Durance 13115 France Phone : +33 689104006 Email : Massimo.salvatores@cea.fr</p>		
Program	Standard/Honors & Awards	Scholarship/Goals & Membership	
<p>Dr. Alexander Stanculescu Idaho National Laboratory Director, Nuclear Systems Design and Analysis (NSD&A) Division 2525 North Fremont Avenue, P.O.Box 1625, Idaho Falls, ID 83415-3860 Phone: (208) 526-5985 Email : Alexander.Stanculescu@inl.gov</p>	<p>Dr. Dimitrios Cokinos Brookhaven National Laboratory Building 130 Upton, NY 11973-500 Phone: (516) 344-2146 Fax: (516) 344-3957 Email: cokinos@bnl.gov</p>	<p>Dr. Jess Gehin Oak Ridge National Laboratory 2218 Brighton Farms Blvd. Knoxville, TN 37932-1400 Phone: (865) 576-5093 Fax: (865) 574-9619 Email: gehinj@ornl.gov</p>	
Immediate Past Chair		Past-Past Chair	
<p>Dr. Benoit Forget Massachusetts Institute of Technology 77 Massachusetts Ave. Room 24-214 Cambridge, MA 02139 Phone: (617) 253-1655 Email: bforget@mit.edu</p>		<p>Dr. G. Ivan Maldonado University of Tennessee 311 Pasqua Engineering Knoxville, TN 37996-2300 Phone: (865) 974-7562; FAX: (865) 974-0668 Email: ivan.maldonado@utk.edu</p>	



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APPENDIX 3

Reactor Physics Division Executive Committee Meeting
 Sunday, November 11, 2011, 4:00 - 6:00 PM
 San Diego, CA
 ATTENDEE LIST

Name	Organization	E-mail
Ali Haghight	Virginia Tech	haghight@vt.edu
MARK DELHART	INL	mark.delhart@inl.gov
Fausto Franceschini	Washington State	francesf@washingtonstate.edu
PIERO RAVETTO	POLITECNICO DI TORINO	PIERO.RAVETTO@POLITO.IT
Alberto Blaus	ANL	albl@anl.gov
Mark Pierson	Virginia Tech	mark.pierson@vt.edu
Mike FRATONI	PENN STATE	mfratoni@psu.edu
BLAIR BROMLEY	CNS / AECL-CRL	bromleyb@aecl.ca; yelmorb7@nrtco.net
Akio Yamamoto	Nagoya Univ.	a-yamamoto@nucl.nagoya-u.ac.jp
Andy Worrall	ORNL	worralla@ornl.gov
Nam Zin Cho	KAIST	nzcho@kaist.ac.kr
David Orr	Duke Energy	david.orr@duke-energy.com
Sandra Dulla	POLITECNICO DI TORINO	sandra.dulla@polito.it
Glenn Sjoden	Georgia Tech	sjoden@gatech.edu
Mark Deinert	UT Austin	mdeinert@utexas.edu
Hany Abdel-Khalik	NCSU	abdalkhalik@ncsu.edu
Pavel Tsvetkov	TAMU	tsvetkov@tamu.edu
Tavis Trahan	U-M	tjtrahan@umich.edu
Dimitri Cokinos	BNL	cokinos@bnl.gov
Tom Sutton	KAPL	Thomas.Sutton.Contractor@unnpp.gov



APPENDIX 4. ANS 2012 Annual Meeting minutes

Reactor Physics Division Executive Committee Meeting Sunday, June 24, 2012, 4:00 PM to 6:00 PM., Chicago, IL, USA

Ali and Mark move that the meeting should start. Minutes and newsletter updates are circulated, discussed, and approved. Mark circulated his budget/finance update. The budget is healthy. Mark will find out about disbursements on the Henry/Greebler Scholarships, from the endowed

There were 19 requests for president reception tickets for students. 11 have been paid for so far. RPD will discuss if there are restrictions and if further tickets should be allowed in the future. David G volunteers for MC and RP committee on these tickets. Currently, it is \$1000 per ANS meetings allocated for these tickets. Travel for students is supported to \$1000. RPD should discuss if the money could be used for international meetings too; a cost limit should be set.

Whoever students have paper should get tickets to reception...

Ben motions to make permanent and \$1000 for tickets; requirements: have a paper, member of RP, over 21, registered, and don't already have the ticket.

Mark moves this, set cap for RPD for two payments of up to \$1000. Dave is responsible to find his replacement. Actually, EC should decide this if we have a one meeting warning.

Mark said it is easy; make it a regular budget item now!

Election 2012 results discussed: Pavel is new secretary. The three incoming and outgoing EC members were discussed.

Ali talked with Hanna on website. Jess was not here to discuss scholarship issues. Ben proposes undergrad fellowship for about \$3500 per year (make as an endowment). Name for the fellowship could be for Stamm'ler? Etc?

Restricted to student who have completed 2 yrs appropriate, and a composition. Ali: approach industry. Name after 'Diminache'?(spelling?) - Mark.

Maybe additional awards. Suggestions for names should be sent in to RPD officers. Pool of people who have won Wigner Awards? Ben will follow up with Jess.

Dimitrios C gave report on Standards activities and progress. Some are under revision. ANSI: nuclear data for reactor design under review. Ali and Dimitri propose and discussed – delayed neutrons. Glenn might like to help too. Dimitri proposed six standards for international acceptance. At a meeting in Paris, there was agreement on this.

An update was given on the PC meeting. 71 papers for this meeting

Blair discussed the paper judging and forms. Send Blair results by email.

The plans for the Winter meeting in SD was discussed.



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The SMR session had five papers already. Next year's ANS Annual Meeting will be in Atlanta. A proposed session on CASL and NEAMS technology (not just CASL).

Ivan summarized on PHYSOR 2012.

The vote on the PHYSOR 2014 proposals was discussed. All three were excellent. All three were judged to be within a point. The Japan (Kyoto) (Sept 28 – Oct 3 2014) proposal was the winner.

PHYSOR meetings are officially class 2

The next Advances in ANFM-5 proposal was discussed. It will be at Omni Hilton Head starting on March 20 2015. Feedback; want active participation of division involved, with Tech content Attendance on the average is about 250. Mark: better industry perspective from ANFM. All holidays are ok n the schedule this time. Mark DeHart and David Nigg move to supportvthis meeting.

Item 9 – Dimitrios discussed honors and awards. He talked about Nils Sjostrand and the Wigner Award. Sjostrand was moved with the presentation. April 1 is deadline for next award (Wigner Award). Requirements: Outstanding contributions, three letters of nomination. There is a list of past winners on RPD website. ANS Fellows: nominees - largest pool for ANS fellows. Five letters of nomination, and other newly revised criteria were discussed.

Developed proposal for early career award. Form is ready to be submitted to ANS HQ. Robb noted that ANS is 'stingy' in awarding fellowships

Item 10: student conference was discussed. 516 students. The student representatives thanked RPD. There were 23 awards. 41% of students there presented. Proposal on MIT student conference for 2013. Podium presentations and posters.

Glenn gave discussion on the JBC. He said it was difficult to get people to help. Wants to propose chair special session on benchmark sessions: INL rp, SINBAD, independent benchmarks on NEA site proposed by Jim Gulliford.

Blair has ideas: Among divisions: want to have a special session on solutions to benchmark problems. Winter of 2013 will be first time to hold such a session. Glenn and Skip will co-chair this special benchmark session. Underwritten by divisions in JBC. Chalotta - UF6 benchmark.

Regarding the Website and postings, JBC website not updated since 2007. Put on RP benchmark? How to do it?

Agenda bullet 12 – Ali discussed goals and planning. Blair's survey. We're interested in results. Website? Ugur close by to Hanna so offers to help update website. We have income as a division, so we have a potential of organizing a design competition, independent of ANS's.

Get industry to give design problems... RP at universities is not really done as much. Could be grad students. Schools run their design project quite differently. Not many from industry here
Ali Is not sure how much we'd benefit from tying in with existing design project.

Ugur had ideas about addressing actual industry problems in this. Will attract better students to RPD. Maybe launch this idea at next ANFM



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“Design and analysis”. Third item - public info: What is RP?

Why not one of us go to workshop and introduce RP. Prof div meeting; Banner Bonnifer outreach at ans dot org. Regis is not here. Blair talked again about the RPD survey form.

Plaque for Fausto!

Mark and Robb move to adjourn. All approve.



APPENDIX 5. RPD Financial Report

*By Ron Ellis, RPD Treasurer
November 11, 2013*

The Reactor Physics Division is in exceptional financial health and continues to prosper due to growing membership and a series of successful recent Topical Meetings. We predict ending calendar year 2012 with a balance of \$73846. Our 2011 membership allocation from ANS Headquarters was \$3,886. Based on growth trends we forecast a 2012 membership of allocation of \$3920. PHYSOR 2012 was held in April 2012. It was a technical and financial success; the fraction of income from the meeting returned to RPD was \$12306. Our significant balance will allow RPD to continue to make generous contributions in support of students. We have allocated \$5200 for 2013: \$2,500 for student conference support (up from \$2,000 for the previous student conference); \$500/national meeting to support student travel; and \$1,700 for the purchase of up to 10 student tickets for the ANS Meeting Opening Reception (doing this in tandem with the Mathematics & Computations Division). The RPD is meeting its objectives for student support. In fact, because of the significant sustained or growing balance, the Division is looking to develop a second Endowed Scholarship, in addition to the current Henry/Greebler Scholarship. The 2012 recipient of the Henry/Greebler Scholarship is Jonathan Wormald of NCSU. More information on this plan and the scholarships can be obtained from the RPD Scholarship Subcommittee.

REACTOR PHYSICS DIVISION	2013
BUDGET FUNDS	
CURRENT YEAR MEMBER ALLOC.	3926
CARRY FORWARD, PRIOR YEAR	73846
DIVISION INCOME / OTHER	1580
TOTAL BUDGET FUNDS	79352
BUDGET EXPENSES	
STUDENT SUPPORT	5200
WEB MAINTENANCE	1000
JBC SUPPORT	400
TOTAL EXPENSES	6600
ANTICIPATED END OF YEAR BALANCE	72752



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APPENDIX 6. Historical Income/Expenses & 2012 Budget

San Diego, CA, November 10, 2012
 Prepared by Ron Ellis, Treasurer, RPD

AMERICAN NUCLEAR SOCIETY
 HISTORICAL INCOME/EXPENSES & 2012 BUDGET

	ACTUAL 2006	ACTUAL 2007	ACTUAL 2008	ACTUAL 2009	ACTUAL 2010	ACTUAL 2011	BUDGET 2012	EIGHT MONTHS ACTUAL 2012	Notes	PROPOSED BUDGET 2013	Notes
REACTOR PHYSICS											
BUDGET FUNDS											
CURRENT YEAR MEMBER ALLOC.	1589	1651	3434	3500	3586	3846	3920	3886		3926 (1)	
CARRY FORWARD, PRIOR YEAR	9483	31345	29059	29553	34628	65800	50832	57986		73846	
DIVISION INCOME /OTHER	24388	-3937	1060	10219	30624	3230	25,000	13886 (6)		1580 (2)	
TOTAL BUDGET FUNDS	35460	29059	33553	43272	68838	72876	79752	75758		79352	
BUDGET EXPENSES											
NEWSLETTERS	115		0	27							
AWARDS, PLAQUES			0	76		80		62			
NATIONAL MEETING COSTS			0	50		443					
DIVISION OFFICER EXPENSE			0	0							
STUDENT SUPPORT	4000		4000	7000	3000	4000	5000	1850		5200 (3)	
SCHOLARSHIP/NEED FUNDING						10,000		0			
WEB MAINTENANCE						367	1000			1000 (4)	
OTHER EXPENSES				1491	38		400			400 (5)	
TOTAL EXPENSES	4115	0	4000	8644	3038	14,890	6400	1912		6600	
EXCESS (DEFICIENCY) OF BUDGET FUNDS OVER EXPENSE	31345	29059	29553	34628	65800	57986	73352	73846		72752	

- (1) Extrapolation from previous 3 years
- (2) Projected RPD income national meeting
- (3) \$2500 for student conference, plus \$500/national meeting, plus \$1700 to purchase up to 10 student tickets for ANS reception at each meeting.
- (4) \$500 for 2012 plus \$500 for 2013
- (5) Support for Joint Benchmark Committee workshop
- (6) \$12306 from PHYSOR 2012; \$1580 RPD income national meeting.

ENDOWED SCHOLARSHIP (HENRY/GREEBLER)	110,438
Balance 01/01/12	2,552
Plus 8 Months Interest	0
Plus Receipts	0



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 REACTOR PHYSICS DIVISION
 Executive Committee Meeting



Sunday, November 11, 2012, 4-6 p.m., Britany, Town and Country Hotel and Resort, San Diego, CA

APPENDIX 7. ANS Financial Status Report as of 8/31/2012

PAGE 1	AMERICAN NUCLEAR SOCIETY DIVISION FINANCIAL REPORT 8/31/2012		
REACTOR PHYSICS DIV.			
	BUDGET	ACTUAL	
	12 MONTHS	8 MONTHS	PAGE
	2012	2012	REF
 REVENUES			
2011 MEMBER ALLOCATION	3,886	3,886	
DIVISION INCOME 2011	25,000	1,580	1
TOTAL REVENUES	28,886	5,466	
 EXPENSES			
NEWSLETTERS	1,000	0	2
AWARDS, PLAQUES		62	3
NATIONAL MEETING COSTS	0	850	4
DIVISION OFFICER EXPENSE	0	0	5
STUDENT SUPPORT	5,000	0	6
SCHOLARSHIP/NEED FUNDING		0	7
OTHER EXPENSES	400	0	8
TOTAL EXPENSES	6,400	912	
 NET SURPLUS / (DEFICIT)	 22,486	 4,555	
 FUND BALANCE AT 1/1/12	 57,986	 57,986	
 FUND BALANCE AT 8/31/12	 80,472	 62,541	
 #2758			
Henry / Greebler			
 Balance 01/01/12	 110,438		
Plus 08 Months Interest	2,552		
Plus Receipts	0		
Minus Disbursements	(3,500)		
Balance 08/31/12	109,490		



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PAGE 2

AMERICAN NUCLEAR SOCIETY
DIVISION FINANCIAL REPORT
8/31/2012

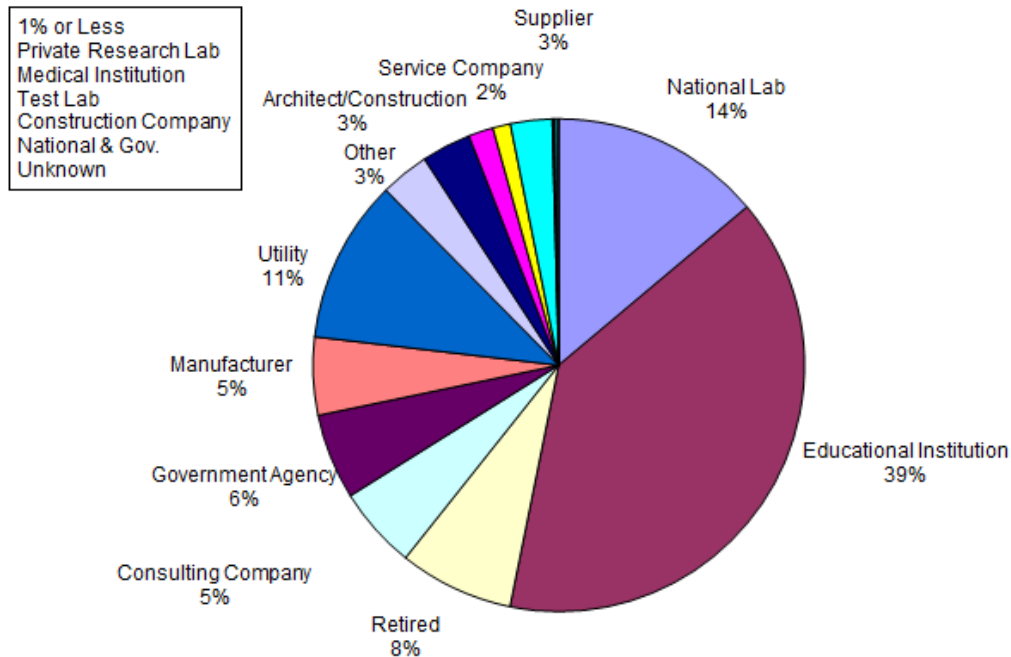
REACTOR PHYSICS DIV.
043060

1. DIVISION INCOME NATIONAL MEETING	1,580
	<u>1,580</u>
2. NEWSLETTERS	
	<u>0</u>
3. AWARDS, PLAQUES JUNE AWARD PLAQUE	62
	<u>62</u>
4. NATIONAL MEETING COSTS 10 PR TICKETS	850
	<u>850</u>
5. DIVISION OFFICER EXPENSE	
	<u>0</u>
6. STUDENT SUPPORT	
	<u>0</u>
7. SCHOLARSHIP/NEED FUNDING	
	<u>0</u>
8. OTHER EXPENSES	
	<u>0</u>



APPENDIX 8. Reactor Physics Division Membership

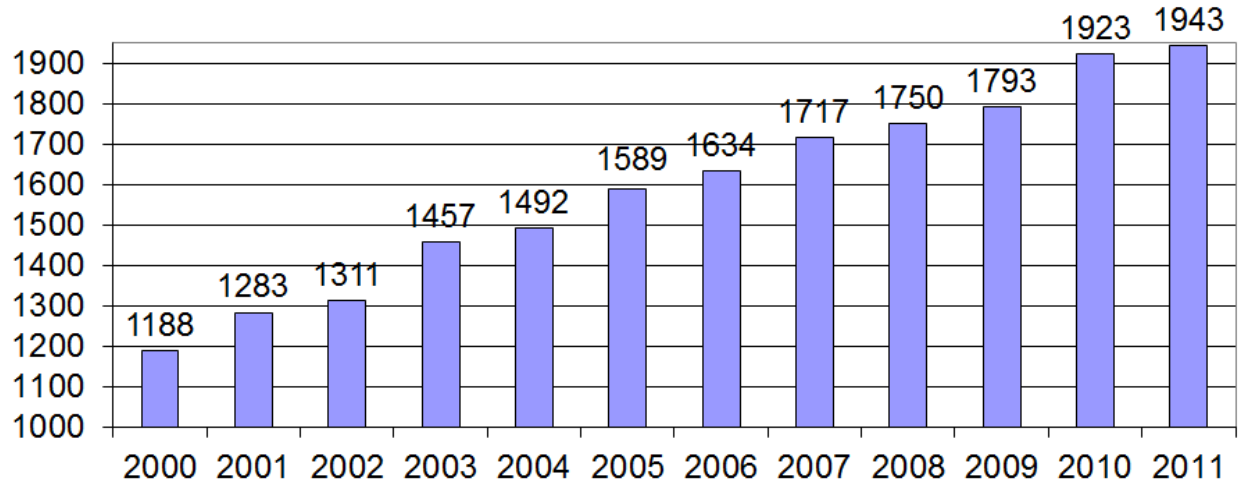
Organization	Membership	
	Number of Members	Fraction
National Lab	299	14%
Educational Institution	845	39%
Retired	162	8%
Consulting Company	116	5%
Government Agency	121	6%
Manufacturer	110	5%
Utility	231	11%
Other	69	3%
Architect/Construction	70	3%
Service Company	35	2%
Private Research Lab	25	1%
Supplier	59	3%
Medical Institution	3	0%
Test Lab	0	0%
Construction Company	5	0%
Unknown	1	0%
National & Gov.	0	0%
Total	2,151	100%



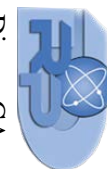


APPENDIX 9

Reactor Physics Division Membership History



Membership	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
ANS	10,947	10,849	10,704	10,773	10,777	10,783	10,772	10,851	10,938	11,137	11,557	11,361
RPD	1188	1283	1311	1457	1492	1589	1634	1717	1750	1793	1923	1943
RPD%	10.9%	11.8%	12.2%	13.5%	13.8%	14.7%	15.2%	15.8%	16.0%	16.1%	16.6%	17.1%



Updated status of PHYSOR2014 planning

Organization Committee of PHYSOR2014

1

General conference information

- Host: Japan Atomic Energy Agency and Kyoto University
- Organizers : All Japan
 - Reactor physics division of Atomic Energy Society of Japan
 - Major plant vendors (Mitsubishi, Toshiba, Hitachi)
 - Major nuclear fuel and engineering companies
 - Major universities
 - Organization committee has been launched
 - Organization of technical program committee is under progress
- Sponsors
 - Kyoto University
 - Japanese Nuclear Industries

3

Overview of PHYSOR2014

PHYSOR 2014

The Role of Reactor Physics towards a Sustainable Future

- Location
 - The Westin Miyako Kyoto Hotel
 - Kyoto, Japan
- Date
 - September 28 to October 3, 2014

2

Conference highlights

- Expected attendees: 400
- Expected papers: 350
- Sessions:
 - 2 plenary sessions
 - 6 half day technical sessions
 - 1 poster session
- Registration fees:
 - ¥75,000 (\$940)
 - (for student) ¥12,000 (\$150)
- Workshops fees: ¥7,000 (\$90)
- Hotel: ¥15,000 - ¥17,000 (\$190-\$210)/night
- Website: www.physor2014.org
- Publication: Nuclear Science and Engineering, Nuclear Technology, Journal of Nuclear Science and Technology, or Progress in Nuclear Science and Technology (supplement of Journal of Nuclear Science and Technology)
- Award: best student papers and best poster presentations

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Technical tracks (tentative)

Reactor Analysis Methods	Transient and Safety Analysis
Deterministic Transport Theory	Nuclear Data
Monte Carlo Methods	Research Reactors and Spallation Sources
Verification, Validation and Uncertainty Analysis	Fuel Cycle and Actinide Management
Nuclear Criticality Safety	Radiation Applications and Nuclear Safeguards
Reactor Physics Experiments	Education in Reactor Physics
Reactor Concepts and Designs	Researches related to Fukushima Accident
Reactor Operation and Safety	

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Organizing committee

- **Honorary chair**
 - Toshikazu Takeda, Fukui University
- **General chairs**
 - Shigeaki Okajima, JAEA
 - Ken Nakajima, Kyoto University
- **Technical program co-chairs**
 - Akio Yamamoto, Nagoya University
 - Hany Abdel-Khalik, NCSU
 - Mark DeHart, INL
 - Imre Pazsit, Chalmers University of Technology
 - Igor Zmijarevic, CEA

7

Workshops (tentative)

Title	Organizer	Note
Sensitivity and Uncertainty Analysis	Dr. H. Abdel-Khalik, NCSU	confirmed
Accelerator-Driven System	Kyoto Univ., JAEA	confirmed
Update on Fukushima-Daiichi accident	AESJ	confirmed
PHITS Monte Carlo code	JAEA	confirmed
Reactor diagnostics	Dr. Imre Pazsit, Chalmers Univ.	confirmed
SERPENT Monte Carlo code	Dr. J. Leppänen, VTT	confirmed
Multiscale, multiphysics approaches in nuclear science and engineering applications	Dr. R. Martineau, INL	confirmed
ATTILA Transport code	Transpire	confirmed

Organizing committee

- **Steering: steering, adjustment**
 - Tokio Fukahori (JAEA)
 - Cheolho Pyeon (Kyoto Univ.)
 - +14 members
- **Publications: Call for paper, abstract, CD, journal for selected papers**
 - Go Chiba (Hokkaido Univ.)
 - +5 members
- **Website: Registration, paper submission, review**
 - Hanna Shapira (TICCS)
 - Kenji Yokoyama (JAEA)
 - +2 members
- **Finance: Financial management**
 - Teruhiko Kugo (JAEA)
 - +6 members
- **Local committee: Technical tour, guest tour, banquet**
 - Cheolho Pyeon (Kyoto Univ.)
 - +5 members

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Sunday, November 11, 2012, 4-6 p.m., Brittany, Town and Country Hotel and Resort, San Diego, CA




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Executive Committee Meeting



Project status

▪ Official organizing committee	Nov. 2012	Done
▪ 1 st Call for papers:	Nov. 2012	Done
▪ Technical program committee	Nov. 2012	Organization in progress
▪ Website:	Feb. 2013	Preparation in progress
▪ 2 nd Call for papers:	Apr. 2013	
▪ Papers deadline:	Jan. 2014	
▪ Papers review:	Jan-Apr. 2014	
▪ Author notification:	Apr. 2014	
▪ Final paper submission:	Jun. 2014	
▪ Meeting:	Sep. 2014	
▪ Selection of papers:	~Jan. 2015	
▪ Publication of selected papers:	Mar~. 2015	

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PHYSOR 2014
International Conference
"The Role of Reactor Physics toward a Sustainable Future"

Status of preparation:
On schedule

10

Sunday, November 11, 2012, 4-6 p.m., Britany, Town and Country Hotel and Resort, San Diego, CA



American Nuclear Society
REACTOR PHYSICS DIVISION
Executive Committee Meeting





PHYSOR 2014

International Conference

“The Role of Reactor Physics toward a Sustainable Future”

Call for Papers

The ANS Reactor Physics Topical Meeting is returning to Japan after 18 years. It will be held in Kyoto, which is one of the most historical and beautiful cities in Japan. The technical program will meet the high standards of recent PHYSOR meetings (Interlaken 2008, Pittsburgh 2010 and Knoxville 2012), including timely and relevant special topics. Students will be actively involved in all the events and activities. Exciting workshops and technical tours will be also offered.

Important dates

January, 2014	Submission of Full Papers
April, 2014	Notification of Acceptance
June, 2014	Final Paper Submission



www.physor2014.org (From Feb. 2013)
28th Sep. - 3rd Oct., 2014
The Westin Miyako, Kyoto, Japan



Technical Tracks: (Tentative)

1. Reactor Analysis Method
2. Deterministic Transport Theory
3. Monte Carlo Methods
4. Verification, Validation and Uncertainty Analysis
5. Nuclear Criticality Safety
6. Reactor Physics Experiments
7. Reactor Concepts and Designs
8. Reactor Operation and Safety
9. Transient and Safety Analysis
10. Nuclear Data
11. Research Reactors and Spallation Sources
12. Fuel Cycle and Actinide Management
13. Radiation Applications and Nuclear Safeguards
14. Education in Reactor Physics
15. Researches Related to Fukushima Accident



Conference Organization:

Honorary chair: Prof. T. Takeda (Fukui Univ.)

General chairs: Dr. S. Okajima (JAEA)

Prof. K. Nakajima (Kyoto Univ.)

Technical program chair:

Prof. A. Yamamoto (Nagoya Univ.)

Technical program co-chairs:

Prof. H. Abdel-Khalik (NCSU)

Dr. M. DeHart (INL)

Prof. I. Pazsit (Chalmers Univ. Technol.)

Dr. I. Zmijarevic (CEA)

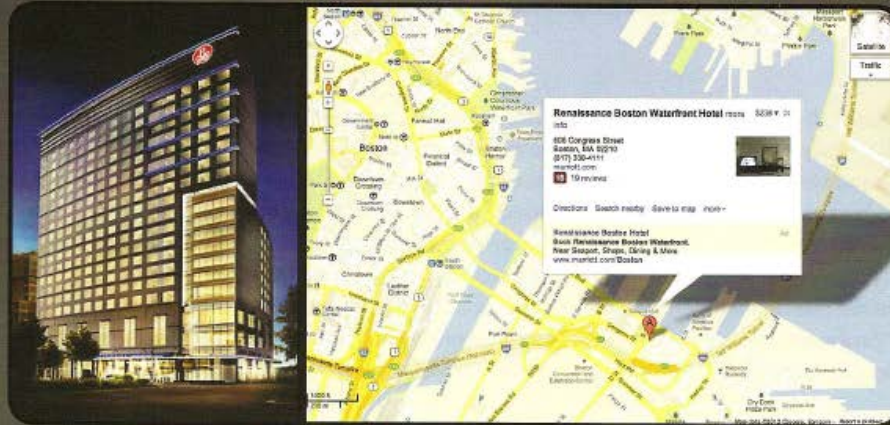
Organizing committee chairs:

Dr. T. Fukahori (JAEA)

Prof. C. Pyeon (Kyoto Univ.)



APPENDIX 11. ANS Student Conference Details



American Nuclear Society 2013 Student Conference
April 4-6, 2013
Hosted by MIT Student Section
meetings.ans.org/student2013

Conference Co-Chairs

Samuel Brinton (G)
c. (785) 341-3243
sbrinton@mit.edu

Nathan Gibson (G)
c. (978) 551-5127
ngibson@mit.edu

Ekaterina Paramonova '13
c. (412) 417-1566
paramoed@mit.edu

Division Participation

We welcome ANS Divisions to participate and contribute to making the conference successful. By attending the conference, you can be involved in judging student presentations and in mentoring student attendees.

The Call for Papers, to be released by the end of November, will include technical tracks aligning with each of the Divisions. Awards in each will be given to the top student presenter.

Financial support is appreciated. Divisions often wish to contribute toward student awards. We encourage this but ask that no more than \$200 be designated specifically for this purpose. Contributions of any amount toward the general conference fund are appreciated and will be used to ensure the success of the entire conference program and to support student travel.

A booth at the career fair can be obtained with a minimum \$1,500 contribution. An option for a technical plenary talk will be made available to Divisions which make a minimum \$2,500 contribution. Both options will be available for Divisions contributing \$4,000 or more.



Theme

Our conference theme -- "Public Image of the Nuclear Engineer" -- is aimed at ushering in a renewed image of the nuclear engineer by empowering our young engineers to engage with the public and effectively communicate the impact and potential of our work. As part of the theme, we are organizing the "I'm a Nuke!" Campaign internet video project. We will professionally film interviews and dialogues of the charismatic and passionate young engineers that will be attending the conference. Additionally, the conference will feature a variety of outreach and communication workshops as well as a substantial media engagement effort. This conference experience will cultivate a new generation of nuclear professionals equipped to project a positive public image, which will bolster the nuclear industry moving forward.

Technical

This year's technical program will feature student podium presentations, a student poster session, expert plenaries, and technical workshops. New this year is a special track for the best student papers, from which awards for best overall undergraduate and best overall graduate presentation will be given. In another new initiative, professional participation in the technical program has been shifted to expert plenaries. These talks will feature specific engineering challenges in order to give students a more meaningful taste of the details of the industry.

International

An innovative central aspect of this conference will be a focus on international participation. We will support student collaboration internationally and recognize the stronger nuclear renaissance occurring worldwide by bringing international students and professionals to the conference. There will be one international keynote speaker and several international participants in the expert plenary sessions. We are working to bring a multitude of international students to the conference, including both those studying in the United States and those studying abroad.





APPENDIX 12



From left to write: Dimitri Cokinos, Hany Abdel-Khalik, Ali Haghghat, Mark Deinert, Blair Bromley, Travis Trahan, Nam Zin Cho, David Orr, Alberto Talamo, Andy Worrall, Sandra Dulla, Akio Yamamoto, Ron Ellis, Mark Pierson, Pavel Tsvetkov, Mark DeHart, Max Fratoni, Piero Ravetto



From left to write: Dimitri Cokinos, Hany Abdel-Khalik, Ali Haghghat, Fausto Franceschini, Mark Deinert, Travis Trahan, Nam Zin Cho, David Orr, Alberto Talamo, Andy Worrall, Sandra Dulla, Akio Yamamoto, Ron Ellis, Mark Pierson, Pavel Tsvetkov, Mark DeHart, Max Fratoni, Piero Ravetto



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