

**MINUTES OF THE Aerospace Nuclear Science and Technology (TG) MEETING**  
**AMERICAN NUCLEAR SOCIETY**  
**Grand Sierra Resort Room 155 Reno, NV**  
**Sunday, November 9, 2008 12:00 PM to 2:00 PM**

**Members Present:**

Leo Bobek, UMass-Lowell, Chair (EC)  
Jon Carmack, INL (EC)  
Heather MacLean, INL (EC)  
Shannon Bragg-Sitton, TAMU  
Robert Singletery, NASA Langley  
Ross Radel, SNL  
Steve Wright, SNL (EC)  
John Bess, INL  
Tom Jordan, EMPC  
Eric Steinfelds, Univ. of Florida  
Andy Klein, INL  
Also:  
Joshua Richard, UF Student Conf.  
David Borrego, UF Student Conf.  
Brian Barnhart, UF Student Conf.  
Laura Padilla, UF Student Conf.  
Jellieth Cardara, UF Student Conf.

**1. Call to Order (Leo Bobek) at 12:05 pm**

- a. Establish quorum – NO, quorum was not present

**2. University of Florida ANS Student Conference**

Representatives from the University of Florida ANS Student Conference provided a packet of information. 2009 ANS Student Conference website: <http://ans.nre.ufl.edu/conference/>. The student conference will be held April 1-5, 2009. There is interest in space nuclear in Florida and there is a space nuclear and power propulsion track at the student conference. UF requested \$1500 from ANSTD to support student travel to the meeting (\$250 per student for 6 students to fund approximately half of transportation costs to Florida). A disbursement form was provided to ANSTD to facilitate the funding request. Joshua Richard provided card/contact info: [jgr426@ufl.edu](mailto:jgr426@ufl.edu), 817-676-3775. UF also requested judges (would like 3) for each topic track to judge best presentation for that track, and provide feedback to student presenters. Typically 150-350 students attend the ANS student conference. Professional presentations were incorporated into the technical sessions at Texas A&M last year and UF will continue that practice. There are options for companies and laboratories to have keynote speakers at the end of each session. Please contact UF if you are interested in supporting the ANS student conference or if you can provide a contact name at your institution.

**3. Topical Meetings (Shannon Bragg-Sitton for Boise Pearson)**

- a. Update on Space Nuclear Systems Forum (February 2009)  
SNSF is a discussion forum with no peer-reviewed publications or papers. A link to meeting may be found on the ANST meeting web page (<http://anst.ans.org/Meetings.html>). The meeting venue is being planned to accommodate NASA conference travel funds limitation (FY09 limited budget). Primary funds from NASA were not allocated and may be in danger with new conference limits. If the meeting is on JSC facilities and is a training event, it gets around conference travel restrictions. Hosting the event on JSC facilities may be a problem for non-US participants.

John Scott (JSC), Dan Houts (Marshall), Steve Howe (INL), Shannon Bragg-Sitton (TAMU) are the primary coordinators. There will be breakout working groups on each topic (fission surface power, nuclear thermal propulsion, radioisotope power systems). February 10-12, 2009 (2 ½ days). The dates could shift if there is a move to JSC facilities. The primary goal of co-sponsoring this meeting is to reach additional space-nuclear professionals and familiarize them with ANS/ANST activities such as the ANST embedded topical in summer 2009. The SNSF will repeat in 2010. The strategy is to merge the current biennial embedded topical with February meeting SNSF meeting and establish a stand alone topical in 2011. In addition, SNSF is an opportunity to influence and provide suggestions on what the next mission could or should be and how space-nuclear can contribute .

- b. Solicitation of papers for NETS (June 14-18, 2009, Atlanta)  
Call for papers (see Meetings link above). Abstracts due Dec 1. We need additional ANSTD EC help with getting papers since NASA travel policy changes may negatively impact papers. Full draft paper deadline is Feb 27.

NETS will have 4 tracks, same co-chairs as SNSF, Sam Bhattacharya is general chair for meeting:

Track 1: Fission Surface Power

Track 2: Radioisotope Power Systems

Track 3: Nuclear Thermal Propulsion

Track 4: Space Nuclear Missions and Architectures

There will be a discussion forum on NTP, organized by NTP. The forum preparations look pretty healthy, including air force participation, though also hinges on NASA participation. NASA participants are desired as keynote speakers – if invited soon, they may be able to submit travel requests for FY09. We need support/commitment to help get papers and suggest keynote speakers.

If there are not enough papers, we may have to drop the embedded topical and move any papers to sessions. Mary Keenan (ANS-HQ) will be called to determine a deadline.

It was noted that federal funding for RPS will continue and there is a funded program in FSP, so there are some positives.

#### **4. Technical Program Report (Shannon Bragg-Sitton for Boise Pearson)**

There are no ANST sessions at this meeting. The NETS embedded topical is scheduled for the June 09 meeting. We need sessions/papers for next fall meeting (November 2009, DC). We also need ideas for ongoing and future technical sessions (also part of metrics and becoming a division).

#### **5. ANS HQ / Professional Divisions Updates (Leo Bobek)**

- a. Rules  
New standard set of rules is coming out.
- b. Report from PD Workshop – Metrics  
Don Hoffman recognizes that some metrics may be unfairly applied to small divisions. Some changes are coming, asking for input to changes.
- c. Report from President's Meeting with Division Chairs  
There is an effort underway to put all the past ANS journals into electronic format. The cost is estimated at ~\$250K. PDC wants to know from divisions if there is support from the divisions, though not (yet) asking for funding. The general consensus ANST members present was supportive of doing this.

Student Sections is requesting single disbursement for travel funds to ANS winter and annual meeting (divisions will combine student travel funds for summer and winter, disbursement by SSC to student attendees to follow based on attendance levels at summer and winter meetings). There was no opposition from ANST members present.

## **6. Professional Division Planning (Leo Bobek)**

The process to become a full division includes: submitting an application in the form of a letter to PDC, at least 60 days before the ANS meeting (ideally even earlier than that). The letter is distributed to all divisions, voted on at the PDC meeting, and, if approved, can go to Board of Directors the next day.

**ACTION: Leo will put together a draft letter and send to EC for comment. 1<sup>st</sup> draft to EC by January 15, 2009.**

There was concern at the last (June 07) BoD presentation about professional development. What can we show as we try to attain full division status? Can we take credit for SNSF (training venue)? Should take credit for: booklet on applications of space nuclear power, Saturday workshops (e.g., teacher workshops) (examples from last years PDC meeting).

**ACTION: Robert Singletery will send summary info on teacher workshops to Leo.**

**ACTION: Steve Wright will send summary info on Ron Lipinski's Saturday workshops to Leo.**

We also need to list what professional development activities will be done in the future.

Other items to be included in the division application include:

Graph of membership – have

List of meetings – sponsor and co-sponsor, have

Discussion of maturity of leadership – succession plan, strategic planning

Cooperation – OPD (ICAPP), AIAA, student conference space nuclear track

Statement of future plans –to be drafted

(A summary of the ANST TG to Division Application Process is attached to these minutes)

## **7. ANST Position Statement #40 (Leo Bobek)**

Submitted. PPC will review at this meeting and either request changes or forward to the BoD.

## **8. Membership, Honor and Awards Report (Leo Bobek / Jon Carmack)**

a. ANST membership: 542, numbers reported in June.

b. ANST awards: Fellow Nomination Status – no progress.

The EC needs to review and evaluate whether to establish a national level award, or create a division level award. The division level award is the easier of the two. The YMG procedure would be a good reference for this.

**ACTION: Leo will ask V-C Sattison to look into developing an initial division level award.**

## **9. Nominating Committee Report (Jon Carmack)**

2009 Election Slate: Voted and approved via email. C. Cherry (ANS HQ) indicated we do not need to list Marty Sattison (filling in as vice-chair) on the slate. (2009 Election Slate is attached.)

## **10. Communications and Public Information Report (Shannon Bragg-Sitton for D. Sunderland)**

a. Website status – Shannon updated the website recently. NETS Conference pages were included. Need current strategic plan on the ANST web site. Some of the earlier minutes ('03 and prior to '01?) are not on the web site.

**ACTION: Leo to send current strategic plan to Gary Wilson and/or Dion Sunderland.**

**ACTION: Shannon and Jon will check their electronic records for the earlier meeting minutes.**

b. Newsletter – want to get a newsletter out before the June ANS meeting, maybe in March. A template was created by Shannon, content needs to be updated. Include summary of SNSF and advertise NETS.

**11. Treasurer's Report (L. Bobek for D. Sunderland)**

ANST received \$1800 income from SNC 07. We have ~\$4K total and should get some credit (\$30/paper) from ICAPP despite having no sessions this fall. ANST finances are slowly growing and generally in good shape.

There was a discussion on scholarships and endowed awards and whether there is a way to give a scholarship and choose to pay it annually, rather than fully endow? Endowment would require corporate sponsorship and ANST would have to go through ANS HQ to solicit contributions. It was mentioned that once a space nuclear mission is defined, corporations will be more likely to fund and we can reconsider establishing an endowed scholarship.

Student support: In June 2008, ANST approved \$1000 for student support – \$200 for paper awards at ANS student conference, \$800 for student travel (\$400 for each national meeting, \$400 for ANS student conference). For 2009, with embedded topical coming up, the focus should be on support or awards for students presenting papers. Or, take best papers from ANS student conference and provide additional funding for students to travel to fall meeting. An amount of \$1000 was agreed upon, with details of allocation to be determined later.

**ACTIONS:** Treasurer needs to (1) provide 2008 disbursement form to ANS HQ by 1<sup>st</sup> week in December, and (2) provide ANS HQ a proposed a budget for 2009 (by 12/31) and the Executive Committee needs to vote on it.

**12. Secretary's Report (Leo Bobek for Marty Sattison) – no report**

**13. BoD Liaison Report (Jasmina Vujic) – not present/no report**

**14. Other Business**

Young Professionals Congress (YPC): embedded topical meeting within November 2009 meeting in Washington, DC. Each division has been asked to co-sponsor a technical session with the Young Members Group (YMG). There will be a metric added to the divisions related to support of young members/YMG between now and next fall; sponsoring a session in the YPC will fulfill this metric. The technical division will be responsible for the content of the session (and any associated paper review). The goal is for the technical content to be aimed at or generated by young members.

**ACTION:** L. Bobek will propose a session with 100 word summary.

**15. Adjourn: 2:00 pm**



2009 Division Candidate Slate  
**Aerospace Nuclear Science & Technology T/G**

Please provide your division's approved 2009 election slate below. Each candidate has agreed to run for the office indicated and current contact information is provided.

**Chair**

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**Vice Chair**

**Vote for one (1) - one-year term**

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**Secretary**

**Vote for one (1) - one-year term**

Paul Edelmann Los Alamos National Laboratory P.O. Box 1663 Los Alamos, NM 87545 505 667 2938 edelmann@lanl.gov
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**Treasurer**

**Vote for one (1) - two-year term**

Dion Sunderland ANATECH Corp 1 Civic Center Plaza Poughkeepsie, NY 12601-3156 Ph: 845-454-6100 dion@anatech.com
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**Executive Committee**

**Vote for four (4)** - four-year term

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Please return this completed form to ANS Governance no later than  
**November 14, 2008**, via fax, email, or regular mail:

ANS Governance  
American Nuclear Society  
555 North Kensington Avenue  
La Grange Park, Illinois 60526

708/ 579-8283 - Fax  
<ccherry@ans.org> - Email

### ANST T/G to Division Application Process

From the Professional Division Manual (5.4), application to Division status requires the following:

1. A two to three page report supporting the ANST application to Division status.
2. An application letter directed to the attention of the Divisions stating the intent and when ANST will present the report to the Professional Divisions Committee.
3. A reply form to be completed by each division and returned to ANST.

The report is to include following:

1. Graph of membership growth and development
2. List of topical meetings sponsored and cosponsored
3. Discussion of participation in the Society's annual and winter meetings and other programs
4. Discussion of the maturity of leadership in ANST
5. Discussion of ANST cooperation and collaboration with the Society's Committees, Divisions, Sections, and Branches
6. List of subcommittees of ANST and their activities
7. List of liaisons with similar groups in other societies
8. Statement of future plans.

The report is presented to the Professional Divisions Committee for review and action. The PDC then makes its recommendation to the Board of Directors. When division status is approved, the bylaws must be updated and presented to the Bylaws and Rules Committee for review.

The goals are:

1. Application to PDC +30 days before the June 09 meeting.
2. PDC vote for recommended approval at June 09 (PDC meets on Tues. at National meetings).
3. Have Board of Directors vote and approve division status at June 09 (BoD meets on Wed. at National meetings).

Coincidentally, NETS embedded topical is planned for June 09. ANST is scheduled for a biennial BoD presentation in June 09.