

**Aerospace Nuclear Science and Technology Division (ANSTD)  
Meeting  
June 16, 2013  
2013 ANS Annual Meeting  
Hyatt Regency Atlanta  
Atlanta, GA  
12:00-2:00 pm (Suite 226)**

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**Bulk of meeting held previously via teleconference  
June 12, 2013, prior to ANS meeting  
2:00-3:30 pm MTN  
Call In: 1-800-414-2147 :: #60683**

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1. Call to Order
  - a. Welcome and Introductions
    - i. On Telecom
      1. Steve Howe - CSNR (Chair)
      2. Marty Sattison - INL (Program Chair)
      3. John Bess - INL (Vice Chair)
      4. Shannon Bragg-Sitton - INL (Past Chair)
      5. Tom Conboy - SNL (Executive Committee)
      6. Blair Bromley - CNS/AECL (Incoming Executive Committee)
    - ii. At ANS Meeting
      1. John Bess - INL (Vice Chair)
      2. Blair Bromley - CNS/AECL (Incoming Executive Committee)
      3. Jeff King - CSM (Executive Committee)
      4. Shannon Bragg-Sitton - INL (Past Chair)
      5. Catherine Perego - PSU (Student)
      6. Karen Bobkowski - PSU (Student)
      7. Matthew Wargon - PSU (Student)
      8. Mike Riley - PSU (Student)
      9. Daniel Curtis - MIT (Student)
      10. Nathan Gibson - MIT (Student)
      11. Andrew Prichard - PNNL (Member)
      12. Mahima Gupta - UW (Student)
  - b. Establish Quorum
    - i. Quorum not established; no proxies
  - c. Review and Approval of Agenda
2. Secretary's Report
  - a. Prior approval of November 2012 minutes electronically
3. Technical Program

- a. National Meetings
  - i. We need to increase our impact at ANS national meetings
  - ii. Need to make it more clear in call for papers what sessions are cosponsored
  - iii. Maybe have a general ANSTD session cosponsored with other pertinent divisions like RPSD, RPD, NCSD, etc.
    - 1. Application of Nuclear Technology in Space Applications?
  - iv. June 2013 (Atlanta, GA) -
    - 1. General Session: 2 papers
      - a. Tuesday 8:30 am - Fairlie Room
    - 2. Note: RPSD Session - Space Radiation Shielding Methods and Applications
      - a. 4 Papers : Wednesday 8:30 am - Hanover B
    - 3. Note: Three ANSTD-type papers submitted to RPD session
      - a. DUFF Reactor Test - Wednesday 1:50 pm Hanover C
      - b. NpO<sub>2</sub> Pellet Irradiation - Wednesday 1:00 pm Hanover D
      - c. Space Molten Salt Reactor - Thursday 10:10 am Hanover D
    - 4. Note: One ANSTD-type paper submitted to NCSD session
      - a. MCNP Support of DUFF - Wednesday 10:35 am Hanover E
    - 5. Need to get other divisions to recognize ANSTD appropriate papers and push them into our sessions. Also need to set up more cosponsored sessions.
      - a. Shannon to discuss cosponsored ANSTD/RPD joint session
  - v. November 2013 (Washington, DC) -
    - 1. One general session planned
      - a. Beat the bushes to drum up papers!
    - 2. Co-sponsor session again with RPD on small power reactors
      - a. Need to encourage participation if we want to continue this collaboration
    - 3. Best of NETS 2013 invited session
      - a. Need to invite papers
  - vi. June 2014 (Reno, NV) -
    - 1. One general session planned
    - 2. Co-sponsor session with MSTD?
  - vii. November 2014 (Anaheim, CA) -
    - 1. One general session planned
    - 2. RPSD Tutorial
      - a. Shannon to talk to Peter Caracappa
      - b. Speakers: U. Ontario Royal Academy, Robert Singleterry, Livermore/Berkeley, U. Tennessee

- b. Topical Meetings
  - i. Want to host isolated topical meetings instead of embedded topical meetings in ANS national meetings because we want to increase aerospace community involvement.
  - ii. NETS-2013 – February 25-28, 2013, Albuquerque, NM
    - 1. Excellent turnout and participation in spite of government travel restrictions – 163 attendees distributed equally among NASA, DOE, industry, and universities
    - 2. Budget close out being finished
    - 3. \$58k net profit: ½ ANS ¼ local section ¼ ANSTD
      - a. Even with very low registration (because of sponsorship)
  - iii. NETS-2014
    - 1. Location – NASA Stennis Space Center in Mississippi
      - a. Interested in testing NTRs and want to host meeting
      - b. LPSC worried about government travel restrictions
    - 2. Chairs – TBD
    - 3. Technical Program/Paper Submissions – Short 1-2 Page Abstracts
      - a. Maybe discussion forum format
      - b. Split into three concurrent tracks propulsion, power, radioisotope
    - 4. Need to get everything in place by end of July
      - a. Room reservation at NASA
      - b. Registration costs
      - c. Signed liability form
      - d. Placed on calendar pending finalization of location
      - e. Mike Houts – MSFC is liaison between ANSTD and Stennis
        - i. February 25-27, 2014
  - iv. NETS-2015
    - 1. ORNL
      - a. Knoxville is a good conference location
    - 2. ~~KSC with U. Florida~~
      - a. Not significant participation in the past from KSC
    - 3. Pasadena (JPL)
    - 4. USRA HQ (Washington DC and APL)
      - a. Technical Tours? Goddard, APL, or Wallops Island
      - b. New facility being constructed and available Oct 2013
      - c. DC vicinity and low cost
      - d. Want to host it February 23-26, 2015
  - v. NETS-2016
- c. Student Conference 2013

- i. Report from MIT
      - 1. 637 registrants (101 professional)
      - 2. 54 universities
      - 3. 24% female attendees
      - 4. 88 international citizenships with 33 out of country addresses
      - 5. 171 presentations and 65 posters
      - 6. Fundraising: 11% from division
        - a. \$50k-60k available for student fund reimbursement
  - d. Student Conference 2014
    - i. To be held at Penn State; centrally located so expect higher attendance
    - ii. Rich in nuclear history; tour of TRIGA reactor, stadium, laboratories
    - iii. Largest undergraduate ANS section w/ 100+ students
    - iv. April 3-6 (best dates available)
    - v. Professionals to stay in on-campus hotel
    - vi. Two additional hotels off campus for students
    - vii. Meetings to be held on campus
    - viii. Jeff King to be ANSTD representative at this conference
- 4. Membership, Honors, and Awards Report (membership numbers attached)
  - a. Discuss ANSTD Scholarship and Award Planning

### **Previously Proposed for ANSTD Awards:**

- Formalize a Past Chair Award (division administered) - plaque cost, \$55
- Formalize Best Student Paper Award at student conferences (division administered)
- Establish a Best Paper Award for topical meetings (division administered)
- Establish an award in one of the other suggested award bins (Service / Leadership (SL); Excellence / Achievement (EA); or Student / Young Person Recognition)

### **Possible ideas might include:**

- Key Contributions to the Modern Application of Nuclear Power to Space Travel (SL or EA)
  - Exceptional Dedication to the Advancement of Nuclear Technology to Space Power and Propulsion (SL or EA)
- 5. ANS HQ / Professional Division Updates
    - a. TBD at the ANS Annual Meeting
      - i. President's Meeting w/ Division Chairs
        - 1. Reevaluating needs and benefits of society members.
        - 2. ICAPP 2014 being separated from ANS

- ii. Report from PD Workshop
      - 1. Proposed membership dues increase (\$20 or less)
        - a. More in-line with other organizations
        - b. Expected minimal impact on membership
    - iii. BoD Report
- 6. Committee Assignments
  - a. Outstanding assignments
  - b. New assignments
- 7. Communications and Public Information Report
  - a. Nuclear Café - Wes Deason
  - b. Previously discussed shifting our current website to a wiki format.
- 8. Treasurer's Report (budget attached)
- 9. Division Strategic Plan & Succession Planning (recent positions attached)
  - a. Farewell and Gratitude
    - i. Allison Miller - Secretary
    - ii. Michael Schoenfeld - Treasurer
    - iii. Heather Chichester, Ross Radel, Robert Singleterry - Executive Committee
    - iv. Ray Nelson - Executive Committee
  - b. New Members
    - i. Laura Sudderth - Secretary
    - ii. Jeff King - Treasurer
    - iii. Blair Bromley, Wes Deason, Andy Klein - Executive Committee
  - c. Positions opening next year
    - i. Vice Chair
    - ii. Executive Committee
      - 1. Travis Knight taking over for student staff @ U. Tenn
        - a. Try and get him on Executive Committee; busy in past but might be available now
- 10. YMG Liaison Report
  - a. TBD at the ANS Annual Meeting
  - b. YPC 2013 embedded in November 2013 Meeting
  - c. YMG interested in cosponsoring sessions
- 11. Student Interaction with Professional Divisions
  - a. TBD at the ANS Annual Meeting
- 12. BoD Liaison Report
  - a. TBD at the ANS Annual Meeting
- 13. Other Business
  - a. Do Survey of ANSTD Members
    - i. Program needs
    - ii. Conference Wants
    - iii. Committees
    - iv. Interests
    - v. Getting Engaged
    - vi. Etc.

- vii. Beta test with some members then send out to everyone
  - viii. We are not a very close knit division because of the limited funding in space nuclear
- b. It would be interesting to compare age groups
  - i. NAYGN vs ANS
  - ii. Leadership, skills, publications, benefits
- c. Is it possible to reduce or drop page charges in you are an ANS member (added value)
  - i. Note: 501.c3 membership charges are not tax deductible
- d. Transactions were made available online instead of on a distributed DVD
  - i. Can't download them at a meeting unless you are paying for internet ☐
- e. Telecom did not have a huge turnout
  - i. Maybe have it a month prior to the meeting to beat out papers, get things done on time for the meeting, etc.
  - ii. Possibly host it right before early bird registration ends
  - iii. Hosting a telecom at the conference has not been successful
- f. Moving ANSTD executive committee meeting
  - i. Possibly have it Tuesday evening from 4-6 pm right after the ANSTD session