

**Minutes of the November 2016 ANS Fusion Energy Division
Executive Committee Meeting**
November 9, 2016, 6:00 to 7:00 pm PDT (Pacific Daylight Time)
Caesar's Palace, Las Vegas, Nevada

DETAILED MEETING MINUTES: (see Attachment 1 for Agenda)

In attendance:

Arnie Lumsdaine (ORNL) – Chair
Keith Rule (PPPL) – Vice Chair
Blair Bromley (CNL) – Executive committee member
Nermin Uckan (ORNL) – Editor Fusion Science and Technology Journal/Awards Chair
Robert Addis (SRNL) – Tritium 2016 Chair
Jim Klein (SRNL) – Tritium 2016 Technical Program Chair
Matthew Jasica (UW) – FED member, Young members liaison
Craig Williamson – ANS Scholarship Committee Chair
Jess Gehin (ORNL)
Gregg Morgan (SRNL)
Daniel Ospina (U. FI)
Greg Staack (SRNL)
Miriam Rathbun (U. Pitt) - 2017 Student Conference Co-Chair
Stephen Sharma

Phone:

Ahmad Ibrahim (ORNL) – Executive committee member, YMG Liason/New member chair
Neill Taylor (CCFE) – Executive committee member
Leigh Winfrey (U. FI) – Executive committee member
Chase Taylor (INL) – Executive committee member

Item #1: Call to order (Lumsdaine)

Chair Arnie Lumsdaine called the meeting to order, welcomed all attending live and by phone, and began the meeting with a series of introductions of those attending in person and by phone.

Item #5 – Student-related Items

Since our student representative was present, we skipped to item #5.1 at this time.

5.1 Update on 2017 Student Conference (University of Pittsburgh) –

The conference “Dispelling Nuclear Myths” is scheduled from April 6-9, 2017 at the University of Pittsburgh. Further information can be found at: ansstudentconference2017.com, an information sheet is attached to the minutes. Conference Co-Chair Miriam Rathbun reported that planning is going well and there are two plenaries and two workshops scheduled. Plenaries are on the topics of the Iran Nuclear Deal and Economics of Nuclear Energy. Workshops include a workshop on nuclear policy.

FED previously approved economic support of this conference. The conference is in need of reviewers and judges; any division support would be greatly appreciated.

5.2 Student Paper Competition – no report

Item #2 – Discussion of August Meeting Minutes (Tresemer)

This item was tabled as Kelsey was unable to attend.

Item #3 – Treasurer’s Report (Tresemer)

This item was tabled as Kelsey was unable to attend.

Item # 9 – FED Publications

Jess Gehin attended from the Technical Publications Committee, we skipped to item #9 at this time.

Jess reported that Nermin is resigning as the editor of the FS&T journal. His praise and thank you to Nermin was joined by many others in the room. She has put in countless hours into this journal and single-handedly more than tripled the number of contributions of the journal since taking over in 2000. The journal is now one of the most prominent in ANS.

Nermin will remain until a proper and qualified successor is selected. A search committee will be recruited and announcement is forthcoming. The plan is to have a list of candidates by March and begin interviews to eventually down-select in 5-6 months from now. Arnie as Chair of FED will also be a member of the search committee with selection of a new editor by the end of 2017. Nermin has graciously agreed to assist with the transition. Andrew Klein made a suggestion that we also recruit a co-editor. Going forward the FS&T and other ANS journals will be published by Taylor & Francis.

7.2 Fusion Science and Technology journal (Uckan)

Nermin gave an update on the Fusion Science and Technology (FS&T) journal and upcoming conference proceedings and journal special issues. The FST full journal report and statistics are given in attachment 3. Less than 50% of the manuscripts from the TOFE2016 have been assigned referees. We are looking for additional people to review. Keith Rule will assist in getting more reviewers. We want to thank Nermin for her many years of tireless work that greatly expanded the notoriety and respect of this now well-known journal.

People are reminded that this is a journal and not a conference proceeding. All submittals will be referred manuscripts and final publication will be at the discretion of the reviewers and editor. Papers are to be submitted in a simple single column/page written format. The publisher will perform all formatting.

7.1 Newsletter (El-Guebaly)

Laila El-Guebaly was unable to attend the meeting, but Arnie reported that the next newsletter is nearing completion and will be out by December 15. The newsletters appear online at (<http://fti.neep.wisc.edu/fednews>).

Item #4 – Conferences

4.1 – Report on 22nd TOFE (Rule)

The TOFE 2016 was a successful scientific meeting and we received positive feedback on the technical program and venue. Final budget numbers will be submitted to ANS in December. Keith needs to develop a more accurate publication cost which is the final expense to close out the account and distribute funds later in 2017. Robert Addis offered to contact ANS and distribute excess publication funds (donated by DPE-OFES) to the TOFE publication.

4.2 – Report on NURER 2016 (Reyes) no report

4.3 – Report on TOFE 2018 (Winfrey)

John Gillian will be the Technical Chair for the meeting. No new updates it is too early in the process. At Arnie's suggestion, a draft technical program committee needs to be created and submitted to ANS in June 2017.

4.4 – Report on M&C 2017 (Lumsdaine)

The meeting will be held in June 2017. There are 12 fusion related papers scheduled for presentation. The FED is a co-sponsor in name only.

4.5 – Update on other Co-sponsored Sessions (Lumsdaine)

The 2016 winter meeting did not include a Fusion session however Blair pointed out that there were several fusion papers presented. We need to find a mechanism to direct future papers to fusion sessions. Presently, we do have approved special session(s) if we can provide papers. We should also continue to co-sponsor sessions with other divisions. The ANS annual meeting is being held June 11-15, 2017, one week after the SOFE in Shanghai, China. This might make it difficult to fill a session at the ANS meeting. We have a panel session currently in the program, which we might convert to a special session on neutronics.

Blair additionally noted that we sponsored a session on subcritical driven systems at the November meeting, but he was considering moving this to the summer meeting which is typically less crowded.

Item # 6 Scholarship Award (Winfrey)

Leigh Winfrey has been leading the effort to get final approval for the Ken Schultz Scholarship and she succeeded with fellow champions, Ahmad Ibrahim, Lee Cadwallader,

and Mohamed Bourham. The first Ken Schultz Scholarship award was presented by Ken Schultz and ANS President Andy Klein to undergraduate Nirbhav Chopra at the Presidents Special Session.

Item # 7 Nominations (Reyes)

We are pleased to announce that we have four nominations for the upcoming 2017 elections for three Executive Committee positions. These are three year terms. Blair Bromley, Craig Taylor, and Neill Taylor will have completed their three years of service.

Item # 8 Update on Tactical and Succession Plans (Rule)

No update

Item #10 – Honors & Awards Committee update (Uckan)

During the banquet at the 2016 TOFE meeting in Philadelphia, the Outstanding Achievement Award was presented to Professor Mohamed Sawan. The next award opportunity will be at the 2018 TOFE being held in Orlando, Florida. There are two types of awards, one for *Technical Accomplishment* and the second for *Outstanding Achievement*. We would like to stress that there have been few nominations recently for the Technical Accomplishment award. Certainly there are significant technical achievements in fusion. The intent of this award is not for multiple or lifetime events; it is intended to recognize a significant technical achievement in fusion engineering. We look forward to receiving nominations.

Item 11.0 Subcommittees (Lumsdaine)

11.1 - Program Committee

Arnie and Keith attended the National Program Committee meeting. The primary focus is to complete and submit our Grand Challenges for fusion. The process is concise and has an aggressive schedule. Each division is asked to submit one to three challenges by March 3, 2017. Arnie Lumsdaine will lead this effort and begin scheduling teleconferences to discuss the list we developed at the Presidents Special session. About 12 FED people helped develop the initial challenges for future discussion. It is understood that we can and likely will overlap with other divisions. Please refer to: www.ans.org/challenges

Blair Bromly, Greg Staack, Greg Morgan, and Matt Jasica agreed to serve on the Program Committee.

11.1 - Web Site (Tresemer)

This has been noted as a needed area of updating. Kelsey Tresemer is leading this effort and Chase Taylor agreed to assist.

12.0 New Business

Grand Challenges – ANS President Andrew Klein

Between now and March 3, 2017, I am asking ANS members and anyone interested in the future of nuclear to send me ideas for the technical Nuclear Grand Challenges that need to be addressed by 2030.

The proposed technical challenges will be analyzed and vetted by the appropriate [ANS Professional Division\(s\)](#). Each Professional Division will select one to three Division Grand Challenges. ANS will then identify six to 10 Nuclear Grand Challenges from those submitted by the Divisions, which will be announced at the ANS Annual Meeting on June 12, 2017, in San Francisco, Calif.

Discussion about the upcoming Young Professionals Congress in Washington, D.C. on Saturday October 28, 2017. A motion was made to provide student support in the amount of \$400 and was passed.

Attachment 1

Fusion Energy Division Executive Committee Meeting Agenda

November 8, 2016, 6:00 to 7:30 pm EST (Eastern Standard Time)
Caesars Palace, Las Vegas, NV
Tuscany Room

1. Call to Order (Lumsdaine)
 - 1.1. Welcome and Roll Call
 - 1.2. Welcome of Visitors
2. Discussion of Previous Meeting Minutes (Tresemer)
3. Treasurer's Report (Tresemer)
4. Conferences
 - 4.1. Report on TOFE 2016 (Rule)
 - 4.2. Report on NURER 2016 (Reyes)
 - 4.3. Update on TOFE 2018 (Winfrey)
 - 4.4. Update on M&C 2017 (Lumsdaine)
 - 4.5. Update on Sessions at National Meetings (Lumsdaine)
5. Student-related Items
 - 5.1. Update on 2017 Student Conference (University of Pittsburgh)
 - 5.2. Student paper competition (Garrison)
6. Scholarship Award (Winfrey)
7. Nominations (Reyes)
8. Update on Tactical and Succession Plans (Rule)
9. FED Publications
 - 9.1. Fusion Science and Technology Journal (Uckan)
10. Honors & Awards Committee Update (Uckan)
11. Subcommittees (Lumsdaine)
 - 11.1. Program (standing committee)
 - 11.2. Web Site (Tresemer)
12. New Business (All)
 - 12.1. Grand challenges

Attachment 2

List of Officers and Executive Committee Members

FED Officers:

Arnold Lumsdaine (ORNL)	Chair (16-18)
Keith Rule (PPPL)	Vice Chair/Chair-elect (16-16)
Kelsey Tresemer (LLNL)	Secretary/Treasurer (16-18)

Executive Committee:

Blair Bromley (CNL)	(14-17)
Craig Taylor (LANL)	(14-17)
Neill Taylor (CCFE)	(14-17)
Chase Taylor (INL)	(15-18)
Ahmad Ibrahim (ORNL)	(15-18)
Takeo Muroga (NIFS)	(15-18)
Nicole Allen (PPPL)	(16-19)
Lauren Garrison (ORNL)	(16-19)
Leigh Winfrey (U. Fl)	(16-19)

Past Chair:

Susana Reyes (LBNL)	(16-18)
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FED Standing Committee Chairs:

Nominating: Minami Yoda (GIT) - Chair
Honors and Awards: Nermin Uckan (ORNL) - Chair
Program Committee: Arnold Lumsdaine (ORNL) - Chair

FED Representatives on National Committees:

ANS Publications: Nermin Uckan (ORNL)
ANS Public Policy: Susana Reyes (LBNL)
ANS Program Committee: Keith Rule (ORNL)

Editors:

Newsletter: Laila El-Guebaly (UW)
Fusion Science and Technology Journal: Nermin Uckan (ORNL)

Liaisons to other organizations and ANS divisions:

ANS Board: Andrew Klein (OSU)
MS&T: Lance Snead
IEEE: Paul Humrickhouse (INL)
RPS: Bob Grove (UW)
YMG: Matthew Jasica (UW)

Webmasters:

FED Website: Kelsey Tresemer (LLNL), Chase Taylor (INL)
UW Website: Dennis Bruggink (UW)

Attachment 3 - Fusion Science and Technology (FS&T) Journal Report
Nermin A. Uckan, FS&T Editor