

**ANS Fusion Energy Division
Executive Committee Meeting Minutes**

3:00 pm to 5:00 pm PDT

Sunday June 13th, 2010

Fairfield Room, Town and Country Resort San Diego, Ca.

Attendance

Lance Snead, Chair

Lee Cadwallader, Vice-Chair

Mark Anderson, Secretary/Treasurer

Keith Rule

Ken Schultz, liaison to the Board of Directors

Alice Ying, Committee member by phone

Farrokh Najmabadi, Past Chair by phone

Wayne Reiersen, Committee member by phone

Paul Humrickhouse by phone

Minami Yoda by phone

Shahram Sharafat, Committee member by phone

Wayne Meier

Rick Kurtz, Committee member by phone

Nermin Uckan, Journal Editor

Amy Varallo, Tim Cahill – students from Georgia Tech

Travis Trahan, Brendan Kochunas, Adam Hoffman – students from U. Michigan

ITEM 1 - Call to Order:

(Lance Snead)

Call to Order - Lance Snead called the meeting to order at 3:00 pm PDT.

ITEM 2 - Approval of Meeting Minutes/Additions:

(Mark Anderson)

Mark Anderson stated that the minutes from the November 2009 meeting had been approved electronically and were submitted to ANS HQ.

The Agenda was presented by Mark Anderson and one addition added to new business was a report out by Lance to the division on the National division meeting presentation.

ITEM 3 - Treasurer's report:

(Mark Anderson)

Treasurer's report was approved by unanimous vote.

In the fall of 2009 and winter of 2010, the Fusion Energy Division made three funding disbursements:

- \$500 contribution to the ANS Nuclear Engineering Education for the
- Disadvantaged (NEED) fund,

- \$1000 contribution to the ANS annual student conference (which was held at the University of Michigan, Ann Arbor),
- \$300 contribution to ANS HQ for nuclear student travel to ANS national meetings.

The FED received a check from the 18th Topical Meeting on the Technology of Fusion Energy (TOFE) from Jeff Latkowski for \$19,114

The FED received a member allocation of \$1,654 at the beginning of 2009. That allocation has increased from the typical \$1 to \$2 per division member. As of May 10, 2010 the Fusion Energy Division has a balance of \$34,745.11 Which includes the \$1000 donated to the ANS student conference, the disbursement of the \$500 to NEED fund and \$300 to ANS HQ for nuclear student travel to ANS National meetings. Planned expenses for the remainder of this year include:

- \$1500 for awards and plaques for the 20th TOFE typical meeting
- \$3000 for 6 fusion students to travel to the TOFE conference
- \$600 in telephone costs for the scheduled FED executive committee meetings.

There is also a \$500 'other expenses' item in the annual budget to accommodate any unforeseen issues. The total expenses for 2010 sum to an estimated \$7400. Other income expected in 2010 includes an estimated revenue of \$4500 from the 19th TOFE that will be embedded in the winter meeting (Las Vegas in November of this year) and \$1600 for member allocation. This should leave an anticipated balance of \$35,245 at the end of 2010 calendar year.

Budget funds												
Year	2007	2008	2009	2010 est.	2011	2012	2013	2014	2015	2016	2017	2018
Carry forward	19,947	18,248	18,021	17,431	35,245	8,445	2,645	9,845	9,545	7,745	2,945	10,145
Member allocation	801	1610	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
				4500								
Division income	0	0	0	19,114	0	0	9000	4500	0	0	9000	0
Total budget	20,748	19,858	19,621	42,645	36,845	10,045	13,245	15,945	11,145	9,345	13,545	11,745
Budget expenses												
Newsletters	0	0	51	0	0	0	0	0	0	0	0	0
Awards, plaques	500	1,500	64	1,500	500	1500	500	500	500	500	500	500
National meeting costs	~500	600	775	600	600	600	600	600	600	600	600	600
FED officer expenses	0	0	0	0	0	0	0	0	0	0	0	0
Student support	650	3,800	1300	4,300	1300	4300	1300	4300	1300	4300	1300	4300
Scholarship/NEED funds	500	500	0	500	500	500	500	500	500	500	500	500
Other expenses	350	500	0	500	25500	500	500	500	500	500	500	500
Total expenses	~2,500	6,900	2,190	7,400	28,400	7,400	3,400	6,400	3,400	6,400	3,400	6,400
Closing balance	~18,248	12,958	17,431	35,245	8,445	2,645	9,845	9,545	7,745	2,945	10,145	5,345

ITEM 4 FED publications:

(Nermin Uckan)

4.1 Laila sent out the FED newsletter (Laila was not able to be at the meeting)

4.2 Nermin Uckan gave an update on the FS&T which is summarized below.

Nermin A. Uckan, Editor, *Fusion Science and Technology*

Subject: Editor's Report for the Period May 1, 2009 to April 30, 2010

The following is a summary of paper statistics and editorial activities for *Fusion Science and Technology*, submitted jointly by the Editor and the Associate Editors for Asia and Europe. During the period May 1, 2009 to April 30, 2010, FS&T received 230 manuscripts for regular issues, plus 48 camera-ready papers from the 2009 Carolus Magnus Summer School (CMSS09) for FS&T Transactions.

Of the 230 manuscripts, 105 are from North America, 75 are from Asia, 49 are from Europe (including Russia), and 1 is from Others, with the following breakdown: 88 have been accepted/ scheduled, 135 are under review/revision, and 7 have been rejected/withdrawn.

As of March 2010, FS&T has moved to Editorial Manager (EM), an online manuscript submission and review system. FS&T issues for 2010 and 2011 are assigned and/or committed.

Following special (dedicated) issues have been published during 5/1/09 to 4/30/10:

- Selected papers from 18th IFE Target Fabrication – FS&T Apr/May 2009
- TOFE08 Proceedings (parts 1 & 2) – FS&T Jul/Aug 2009
- Tore Supra Tokamak (Cadarache, France) – FS&T Oct 2009
- 9th Carolus Magnus Summer School – FS&T Trans. Feb 2010
- Selected papers from APS-DPP 2009 Mini-Conference on Mirrors – FS&T May 2010

Following special (dedicated) issues are scheduled for the remainder of 2010:

- Large Helical Device (LHD) 10th Anniversary - FS&T Jul/Aug 2010
- Selected papers from 6th Fusion Data Validation & Analysis – FS&T Oct/Nov 2010

Following special (dedicated) issues are confirmed for 2011:

- Selected papers from 19th IFE Target Fabrication – FS&T Jan/Feb 2011
- Open Systems 2010 Proceedings – FS&T Trans Feb 2011
- Selected papers from 2010 EC-16 – FS&T Apr or May 2011
- 4th ITER Summer School lectures – FS&T April or May 2011
- 9th Tritium 2010 Proceedings – FS&T double issues (2011)
- 19th TOFE 2010 Proceedings – FS&T double issues (2011)

Following issues are being planned (or under discussion) for 2012 and beyond:

- Selected papers from ICFRM 2011 – FS&T regular issue(s) (2012)
- ICENES 2011 Proceedings – FS&T Trans (2011 or 2012)
- 10th Carolus Magnus Summer School 2011 – FS&T Transactions (2012)

Following issues are being planned (or under discussion) for 2012 and beyond (cont'd):

- JT-60U (update of JT-60 Special 2002) – FS&T (2012 or 2013)
- JT-60SA (part of JA-EU ITER Broader Approach) – in planning
- DEMO Studies (EU, JA) – FS&T regular issue (in planning)
- IFMIF (EU, JA) – FS&T regular issue (in planning)
- KSTAR (Korea) – FS&T regular issue (in planning)
- W7-X (Germany) – FS&T regular issue (under discussion)
- Test Blankets (ITER Partners) – FS&T regular issue (under discussion)

In addition: Nermin mentioned

the ITER summer school sections - wanted to try to include contributions to a single issue sight reduction in library subscription

ANS online subscription review.

There is a young up and coming IAEA publication possibility.

Fusion nuclear fusion - will be published in FSNT publication 2012

Lee - question - manuscript submission internet user name and password go in and click on the link and they should get user and password... everyone that published or reviewed from the past 5 years should have gotten an email. Now online submission is possible SFNT - ANS publications.

ITEM 5: Student related issues

Amy Varallo from Georgia Tech gave an update on the Atlanta 2011 student conference and handed out a brochure.

It can be found at: <http://conference.gtans.org/about/brochure/>

She encouraged the division support for participation, presentation Judging and Perhaps some financial support, they did not formally ask for any funds, but it was mentioned that the division can request how any contributed funds will be distributed.

Update on the 2010 Student conference at the University of Michigan: Three students from University of Michigan (Travis Trahan, Brendan Kochunas, Adam Hoffman) were present and thanked the division for their contribution and gave an review of the conference: The final program can be found at http://www.studentans2010.org/2010_Final_Program_Online.pdf

Summary:

Largest student conference to date:

482 students gave papers and, 600 total students participated . They had a Fusion session however there where not many pure fusion papers there was a mix of accelerator and plasma papers in the session

Best paper in the Fusion Energy and Plasma session was Christopher McGuffy from the University of Michigan. The fusion session was well attended "standing room only".

They gave awards in many different areas of study.

They had 100% travel reimbursement

Total budget was \$225,000 estimated total contributions were \$260,000 so they made 20-30k profit for the local section.

Post Student related issue discussion:

Discussion of issues with student funding, how do we encourage more fusion participation at the meeting?

Lance - suggested that we could offer professors travel support to fusion students

Do something ahead of time rather than post conference to encourage student participation. Proposed \$500 to the conference and \$500 to departments to encourage student attendance.

Ken - have to be careful for giving money to individual professors.

Lance - increase participation of fusion students --- list fusion programs try to get people closest to the conference to attend.

Options - make some announcement at TOFEs.

Anderson - use the 500 to advertise to student section

Nermin - other conference are more heavily attended - APS, TOFE rather than ANS student conference

Table how to proceed. The students will come to address the FED at the meeting in November and will ask for money then.

Lee – The Student Conference also serves as a career fair.

ITEM 6: Update on 19th TOFE

(Farrokh Najmabadi and Shahram Sharafat)

Farrokh – TOFE moving slowly - Website is up for papers and registration; we do not have an accurate count of abstracts in our embedded topical - ANS is focused on June meeting and not Fall meeting so it is slow moving from ANS national. Recommend to have only stand-alone TOFEs... If ANS does not force us to have it embedded we should go to stand alone in the future.

Lance - will address this for the 21st TOFE since the 20th is scheduled to be a stand alone.

Abstracts due in a couple of days

Shahram-

extend thanks to Lee and Laila for their help getting information from past TOFE's currently 42 abstracts --- Deadline extended to June 30th

ANS is difficult to deal with abstract submission

only about 25% of the number of abstracts that we want (150 -180 abstracts)

10 panel presentations

making progress with getting international presentations

selection of session chairs 14 sessions

student travel assistantships - Graduate and undergrad students

Registration fee - ANS cannot give fee cutoff deadlines.

Nermin - comment - abstract submission - do not have to align with ANS national. Can request later abstract submission (this was done).

Farrokh - would have liked to use the ANS abstract submission to avoid this work through the University however due to issue with ANS national and the submission it was necessary to do the abstract submission outside of National conference.

Farrokh made a proposal to DOE OFES for some funds, \$15k, to help cover costs of publications and some student travel expenses.

ITEM 7 Update on ICENES

(Wayne Meier)

Update on the 15th International Conference on Emerging Nuclear Energy Systems (ICENES)

May 15-19 2011 class 1 ANS meeting-- publication plan final approval- camera ready not peer reviewed papers. Also presented to screening committee and got calendar placement with preliminary approval -Conference will be at Fisherman's Wharf in San Francisco with tour of NIF and banquet in wine country. Sept 1 abstract submission, Nov 1 abstract deadline. Save date was sent out to 3500 people. Will send presentation to Lance. The ANS Northern California section is supporting the meeting.

Overall report:

Going smoothly and LLNL is giving large support. Interesting meeting in promoting common fusion interest.

ITEM 8 - Report on ByLaws:

(Lee Cadwallader)

By laws committee wanted to see division rules. This spring Lee put these together and sent to Lance in April. Issue on the duration of terms for officers. Need to resolve what we want for officer terms

Lance - need long chairmanship so that things can get done - 2 year term proposal. Professional division meeting is ok with this.
Vice chair and Chair.

Farrokh - supports this - takes 6 months to figure out what is going on.

Ken Schultz motioned for vote now:

VOTING results were unanimous for approval of new term limits

Lance or Lee will take to ANS National to see how to proceed with the rules.
LEE - how do we implement it.

Lee will amend division rules and send them out for division review. Rules - 1 year transition in rules. Lee and Lance will discuss: Lance suggested that this would start after he steps down.

ITEM 9: FED Scholarship update:

(Lance Snead)

Educator Scholarship

Frame work has been discussed with ANS. 2 years for masters level students in the name of some professor or national laboratory. Raise money into a generic pool with the name of the person. The idea of the scholarship is to allow a professor and student enough funds to go into fusion 10k range -- - ANS requires 20:1 funding for every scholarship so we need \$200k for an annual 10k scholarship -- it was mentioned that a year of a student costs about \$50k

Implementation;

Honors and awards committee would pick names of Professors/Scientists ~~and then~~ and then we would try to get funds donated in their name.

It was suggested that the Division would start by contributing \$24k from the operation funds to this scholarship to kick start it. Lance mentioned that he asked if we could set aside an extra portion of stand-alone TOFE to go towards the educator scholarship. ANS was ok with this and it was suggested that these funds would not be taxed by ANS national.

Vote to whether we are going to go ahead with the educators scholarship:

Wayne - is there other examples in other divisions - ANS website has several scholarships from division and headquarters.

Alice: why do we choose a masters student: Commit to PhD. First year school supports and a fusion fellowship.

The thought was that this would be a prestigious award rather than total fund a student:

Motions to VOTE on the scholarship:

Motion 1 - vote ~~to~~ to proceed with a scholarship . Unanimous

Motion 2 - vote to make a committee - Unanimous

Motion 3 – FED treasury money set aside for money for scholarship (not committed) - Unanimous

Honor and awards committee - forward candidates to Neil Morley

ITEM 10: Program Chair Position

(Jake Blanchard) current FED Program Committee Chair and representative to the National Program Committee:

Jake has been serving in this position for many years and would like to step down from position

Duties – attend four National Program Committee meetings a year, 2 at national ANS meetings on Wednesday afternoons and 2 meetings at ANS headquarters in Chicago in March and July are not necessary for attendance unless FED has a session in the national meeting. If FED has session then it is important to go.

The FED program committee chair requests permission for meetings such as the TOFE and Tritium meetings --- work load is low.

It was decided that the Chair or Vice Chair would take over responsibility and go to the meeting. Mandate that someone will go to the meeting (chair, vice chair, ex chair)... Point of contact - will be the Chair.

Jake was asked to prepare a paragraph summarizing the duties of this position and distribute to Chair and Vice Chair.

ITEM 11: New Business:

(Lance Snead)

Presented FED summary to national committee on Saturday June 12th. 3 minute presentation. Membership 1990 - 6.1% of ANS now 7.3%. Metrics White.

Only issue was lack of attendance at national meeting. Good showing on even years at embedded TOFEs. Stated that the FED had the Best metrics of all divisions. Think about having a session in power generation from Fusion.

(Lee Cadwallader)

Lee: 19th TOFE - student travel assistance - 6 fusion students to attend meeting. Looking at graduate students - can undergraduates receive funding. Consensus was that not only could an undergraduate receive travel assistance but they would receive preference provided they had an accepted ~~oral~~ abstract and they were going to attend to give the paper. summary. Lee will amend wording to the student travel assistance description on the TOFE web site in the above regard.

Lee presented a plaque to Lance for his term as Chair for his work. Lance thanked the Division.

ITEM 12: Close meeting.

(Lance Snead)

adjourned the meeting at 4:35 pm and thanked - outgoing **committee members**.

Attachment 1: agenda

ANS Fusion Energy Division Executive Committee Meeting Agenda

3:00 pm to 5:00 pm PDT

Sunday June 13th

Fairfield Room, Town and Country Resort San Diego, Ca

1. Call to Order - Lance Snead
2. Approval of meeting minutes/additions - Mark Anderson
3. Treasurer's report and budget - Mark Anderson
4. FED Publications
 - 4.1 Report on FED newsletter - Laila El-Guebaly
 - 4.2 FS&T Update - Nermin Uckan
5. Student-related items
6. 19th TOFE Nov. 2010 update - Farrokh Najmabadi or designee
7. ANS Program Screening Committee for ICENES - Wayne Meier
8. Report on Standard Bylaws - Lee Cadwallader
9. Progress on an FED scholarship - Lance Snead
10. Program Chair position - Jake Blanchard
11. New business - Lance Snead
12. Adjournment - Lance Snead

Attachment 2: Treasurers report

Mark Anderson, University of Wisconsin - Madison

In the fall of 2009 and winter of 2010, the Fusion Energy Division made three funding disbursements:

- \$500 contribution to the ANS Nuclear Engineering Education for the Disadvantaged (NEED) fund,
- \$1000 contribution to the ANS annual student conference (which was held at the University of Michigan, Ann Arbor),
- \$300 contribution to ANS HQ for nuclear student travel to ANS national meetings.

The FED received a check from the 18th Topical Meeting on the Technology of Fusion Energy (TOFE) from Jeff Latkowski for \$19,114

The FED received a member allocation of \$1,654 at the beginning of 2009. That allocation has increased from the typical \$1 to \$2 per division member. As of May 10, 2010 the Fusion Energy Division has a balance of \$34,745.11 Which includes the \$1000 donated to the ANS student conference, the disbursement of the \$500 to NEED fund and \$300 to ANS HQ for nuclear student travel to ANS National meetings. Planned expenses for the remainder of this year include:

- \$1500 for awards and plaques for the 20th TOFE typical meeting
- \$3000 for 6 fusion students to travel to the TOFE conference
- \$600 in telephone costs for the scheduled FED executive committee meetings.

There is also a \$500 'other expenses' item in the annual budget to accommodate any unforeseen issues. The total expenses for 2010 sum to an estimated \$7400. Other income expected in 2010 includes an estimated revenue of \$4500 from the 19th TOFE that will be embedded in the winter meeting (Las Vegas in November of this year) and \$1600 for member allocation. This should leave an anticipated balance of \$35,245 at the end of 2010 calendar year.