

ANS Fusion Energy Division

Executive Committee Meeting Minutes

3:00 – 5:00pm (Eastern Daylight Time)
Sunday, October 30th, 2011
Omni Shoreham Hotel, Washington DC
East Parlor #500

Attendance:

Present in person:

| | | |
|------------------|--|----------------------------|
| Lee Cadwallader | lee.cadwallader@inl.gov | FED Chair |
| Arnold Lumsdaine | lumsdainea@ornl.gov | FED executive committee |
| Ken Schultz | ken.schultz@gat.com | Board of Directors liaison |
| Mark Anderson | manderson@engr.wisc.edu | FED Secretary/Treasurer |
| Nermin Uckan | uckanna@ornl.gov | FS&T editor |

Present over phone:

| | | |
|-------------------|--|-------------------------|
| Minami Yoda | Minami@gatech.edu | FED Vice-Chair |
| Mark Tillack | mtillack@ucsd.edu | FED executive committee |
| Laila El-Guebaly | elguebaly@engr.wisc.edu | Newsletter editor |
| Paul Humrickhouse | paul.humrickhouse@inl.gov | FED executive committee |

Visitors:

| | | |
|-----------------|------------|------------------------------------|
| Sherry Faye | UNLV | 2012 student conf. logistics chair |
| Vanessa Sanders | UNLV | 2012 student conf. program chair |
| Athena Gallardo | UNLV | 2012 student conf. volunteer |
| Darius Lisowski | UW-Madison | Visitor, minutes |

Some difficulties were experienced with call in number, start of meeting was delayed by 25 minutes

Item #1 – Call to order

3:25pm Call to order by Cadwallader

Item #2 – Statement on June 2011 meeting minutes

3:27pm – *Anderson*: Previous minutes were compiled by Darius Lisowski, were sent out, approval was made. Sent out to Headquarters on 7/12/2011 to Valerie Vasilievas at ANS headquarters. They were approved by Headquarters. No questions were asked on past minutes.

Item #3 – Treasurer’s Report and Rolling 4 –year Budget

3:28pm – *Anderson*: This is the time of year we must submit budget to headquarters. \$40,196 total budget, however see attached excel sheet for full details of all expenditures. \$43 included “other expenses”, which is believed to be for mailing of awards. Thus, in 2011 \$2,250 dollars was the total spending. Going into 2012, we have a budget of \$37,947. Additionally, \$500 was given in 2011 student conference, no money given yet to the 2012 student conference. We budget for 3 awards (Outstanding Achievement award and Technical Accomplishment award for professionals and Outstanding Student Paper award); money divided equally, no difference between professionals and students. Criteria for

student travel assistance to a TOFE: must be presenting something, include undergraduate and graduate students, must submit names to treasurer. We anticipated a revenue of about \$3k-\$4k from the 15th ICENES Meeting we are waiting for final disposition from Wayne Meier. Cadwallader suggests that these funds be allocated to the FED student scholarship fund that we are trying to establish. We've earmarked \$25k of our treasury already for the scholarship. No quorum present, thus cannot vote for approval of budget. The 2012 budget approval, donation to the 2012 Student conference, and ICENES funds earmark will be voted on by e-mail.

Yoda: Is there any plan on how to invest this money?

Cadwallader: There is a plan for a student scholarship. However, we must endow a minimum of \$60k to start a student scholarship. As we get closer, we can ask our membership to ask for donations to get past the \$60k.

Anderson: I think we need \$40k for undergraduate, \$60k for graduate.

Anderson: We are planning to start a committee to determine how to organize and execute scholarship.

Cadwallader: The thinking several years back was that we are going for the graduate scholarship, and not settling on the undergraduate. But we can discuss this more. Thank you for the treasurers report

Item #4 – FED Publications

3:40pm – *Uckan:* By mid November we will have a full list of FED publications. Then by first week of December will send to entire committee for review and distribution.

4:16pm – *Uckan:* (Hands out packet of papers). Please see the packet concerning the fiscal reporting on Fusion Science and Technology, which covers October 1st until the end of September. Additionally, I am considering adding some editorial board members from China, Korea, or India. That way they will be influential in bringing in new papers.

Cadwallader: On last page, the bar chart, manuscripts submissions chart. Is India included in other?

Uckan: No, India is in Asia.

Cadwallader: Oh, India is in Asia? Oh.

Uckan: Yea

Schultz: Would you benefit from having additional associate editors from the countries you listed for board members?

Norman: Maybe. Maybe Korea might be ready.

Uckan: We started with 50 papers a year, now we are up to 350 papers a year.

Cadwallader: The FED appreciates the attention you've given to this journal, and helped increase the impact factor. Are there any other questions or comments?

Item #5 – Student related issues

3:42pm: 2012 Student Conference organizers arrive to meeting room. Those present:

Vanessa Sanders - University of Nevada Las Vegas (UNLV) Co-chair of Student Conference

Sherry Fay – UNLV Co-chair of student conference

Athena Gallardo – Volunteer

Sherry: We have finalized our tours: Atomic testing museum, campus tours, plasma focus. Also working on finalizing workshops: MCNPX workshop, interview / resume workshop.

Vanessa: The hotel will be the Alexis Park hotel. All events will be on campus, in the student union. The cost on our end will be \$450 per student, we are charging only \$25 registration fee and we are expecting 500 students. The monetary gap is made up by contributions from industry and professional societies. Also, we are looking for judges and technical chairs.

Cadwallader: How many fusion sessions do you expect?

Sherry: We do not know now, in January is Call-for-papers. However, we will base them on ANS National sessions. You should tell students to present.

Vanessa: Are there any other questions?

Cadwallader: No, there are no other questions

Schultz: Mark Tillack, do you have any other plans for this meeting from UC-San Diego?

Tillack: No, we do not have any undergrad program in nuclear. Most are Mechanical. To my knowledge there is no local section of ANS at UCSD.

Cadwallader: Sherry and Vanessa, we will be able to give you a donation of under \$500. I believe in the past the Student Conferences have used this money as an award for best paper or presentation in a fusion related topic area. We wish you best of luck.

****students from UNLV leave room****

Cadwallader: I do not believe we are having any students from Georgia Tech visiting again to discuss the 2011 Student Conference. Another issue is student travel support to ANS meetings, I wanted to explain to everyone that I get e-mails from ANS headquarters that they want us to send more money, but I try to explain to them that we send once a year. They do not spend half at a time, instead they take our entire donation and use it for a single conference, and then ask for more money before the second conference in the year. I want to bring up whether we should pay our money half at a time to avoid confusion with ANS Headquarters.

Anderson: In the past we had donated to one meeting either the summer or winter meeting. To alleviate these issues we should start to contribute half the amount to each meeting.

Cadwallader: Several people from ANS Headquarters (Mary Keenan, Christian Krapp, Mary Beth Gardner, David Slaninka) for some unknown reason have resigned. I wonder if there will be more confusion this next year as people get up to speed. I do not believe we need to vote on this. Anderson, when you write the notes for next treasurer, write a note to dispense half the donation money for nuclear student travel twice a year, so \$150 before the June and November ANS national meetings.

Item #5 – Conference Update

3:53pm – *Cadwallader:* Next order of business is conference update. I talked to Wayne Meier, and he gave an update about the 15th International Conference on Emerging Nuclear Energy Systems (ICENES) in May 2011. It had 150 attendees and papers, about 30% on fission, 20% on hybrid fission / fusion reactors, 40% were about fusion, split half and half between inertial and magnetic, and then 10% were other topics.

Our division supported this meeting. We agreed to take 28% of the profit. We might be making up to \$8,000 however this is still to be finalized. This money is total windfall, so I suggest putting all this money towards the scholarship. So, I will work with Anderson to e-mail details.

Yoda: How did we get such a large profit?

Cadwallader: I think they got sponsors to donate to the meeting. They had a \$45k profit, which is a lot of profit for a 150 attendee meeting.

3:56pm. *Lumsdaine:* Briefing on 20th Topical Meeting on the Technology of Fusion Energy (TOFE)

The 20th TOFE web site is

<http://tofe2012.org/>

Lumsdaine: We got final approval for the proceeding plan, to publish in journals. We got preliminary approval for the abstract booklet, since we have not yet decided on who will produce abstract booklet. Not sure if the booklet will be produced by ANS or done by third party. There was a concern and push to use ANS national for the abstract submission and abstract books.

Schultz: Is 20th embedded or stand alone?

Lumsdaine: Stand alone. It will be in Nashville, Tennessee, with a theme of realizing new technologies for the age of fusion energy. I am technical program chair. General chairs are Dave Rasmussen and Brad Nelson. We have contracted 3rd party for website and registration. We have contract with Hotel, have preliminary program put together.

Lumsdaine: Brad Nelson was technical program chair for SOFE. For the SOFE, Charlie Gentile was quite successful raising sponsorships, so we are hopeful of getting a similar level of donations. We are assuming \$60k in sponsors, and have an \$83k overage in our budget. Thus even if we have 0 sponsors we'll be in the black. The 2011 SOFE got \$130k in sponsorships.

Tillack: Will you do paper abstracts or USB thumb stick abstracts?

Lumsdaine: We decided on paper, but I don't know if there was a strong opinion. I can go back to Dave and Brad and suggest USB. I think some people like having a paper copy.

Tillack: I think it will save money, plus when you go home you can take it with you instead of throwing out paper abstracts.

Minami: Will having the booklet publications on USB stick give you more time?

Lumsdaine: I guess you take one step out of the process (printer) and save some time.

Schultz: Maybe just a mini booklet with information about each presentation, not the full abstract.

Tillack: I really like a physical version of the paper program.

Lumsdaine: Okay, I will take this back. We can potentially save some money. Cost of printing we assumed to be \$3000. This could probably be cut substantially. Maybe a USB thumb drive would cut costs, maybe down to \$1000. We won't increase cost, and be friendlier to environment.

Cadwallader: At one conference, 350 small booklets were printed and cost about \$500. Though it was just a small booklet, with maps of rooms and list of technical sessions, meeting schedule.

Lumsdaine: Okay, we will take that back and review that as a committee.

Lumsdaine: One other question I had was on the awards: How are the awards chosen? Both the student and the professional awards. Is it FED ? Or TOFE?

Cadwallader: Our honors and awards committee will choose the professional awards. This committee is run by Farrokh Najmabadi. They will be soliciting nominations soon. Typically student awards are handled by TOFE, and in joint with FED, we will go around and grade posters and presentation. They start with abstracts, looking for ground breaking work. As a suggestion, it would be nice to have all student presentations completed before the banquet, and give the awards at the conference banquet, or closing ceremony. We typically don't wait until the last day to give awards, since 1/3rd or more of the people leave early on the last day. It would be nice if TOFE came up with funding for student awards, or all of the awards. So if you could find your way into budgeting some of those costs that would be nice.

Tillack: As far as I know, there is no official standard amount of money associated with these awards. If they want to give a check away, is there some guidance?

Lee: The only guidance is tradition. I've been involved since the 1990's, and it's always been a \$500 cash prize for an award. I would advocate keeping the award level at \$500, since we are trying to save money for starting a scholarship.

Lumsdaine: We could possibly sponsor the awards, maybe by one of the companies at the exhibit both.

Anderson: In the past we gave check from FED to students. So your (*referring to Cadwallader*) award money takes directly from TOFE and goes to the student?

Cadwallader: Yes, the money goes from the stand alone TOFE treasury to the awardee but the FED confers the award and plaque. If it is an embedded TOFE the money must come from the FED.

Lumsdaine: Any more questions? By the way, the hotel is very nice. We were "wow'd" by the hotel, and if you are eligible, there is government per diem rate of \$110 per night.

Item #7 – FED Slate of Candidates for the 2012 Election

4:22pm. Slate of candidates

Cadwallader: The Nominating Committee has prepared for slate of candidates. Will e-mail out list Officer candidates:

| | | |
|------------------------------------|---------------------------|--|
| Vice-Chair | Susana Reyes (LLNL) | reyessuarez1@llnl.gov |
| S/T | Stephen Combs (ORNL) | combsk@ornl.gov |
| Committee candidates (vote for 3): | | |
| ExCo seat | Satoshi Konishi (Kyoto U) | s-konishi@iae.kyoto-u.ac.jp |
| ExCo seat | Jacob Leachman (WSU) | jacob.leachman@wsu.edu |
| ExCo seat | Ryan Abbott (LLNL) | abbott13@llnl.gov |

Cadwallader: Yet another e-mail vote will be to approve slate of candidates. It must be done quickly since ANS needs it quickly.

Uckan: Is there a minimum threshold for votes for person to be elected? Say you hate someone; you will not vote and leave a blank. But if one person likes that person, they will vote, and the candidate will win.

Cadwallader: There probably is a minimum threshold count of votes needed to elect a candidate, but I don't know what it is. I can ask Headquarters about it. We can ask for new nominations, and write in candidates on the ballot.

Schultz: But we must caution to check that any nominations are ANS FED members and are willing.

Cadwallader: Okay, we will send the slate for e-mail vote.

Item #8 – FED Awards Update

4:27pm – *Cadwallader:* Farrokh could not come to this meeting. He gave me information to report to the ExCo. He told me he is having trouble getting the old information (blank plaques, files), but will get on it. He will work on developing announcements for awards, and plans for it to go out with first TOFE announcement, but since it has gone out already, I suggested the next announcement is with FED newsletter in early December. Additionally, he asked that we look around to nominate deserving candidates.

Item #9 – Discussion of routed documents

3:30pm – *Cadwallader*: I routed around Division tactical and strategic plans, succession plan, and a draft set of rules. I wanted to tell everyone the way I developed these documents was by starting with older FED documents and guidance from headquarters. I combined these together with what I knew to be the rules. I am hoping these are properly representing our division. I am thinking now we need to solicit comments electronically from everyone. If you have comments now, please let me know.

Yoda: Thank you for putting the time to put these together, Lee.

Cadwallader: Thank you. I heard a lot about succession plans, so I was happy to know that we have something current for our division. I will wait to hear for comments, and if there are no comments we will vote to approve them electronically.

Anderson: Is there a date deadline?

Cadwallader: These need to be included with other voting, in November.

Anderson: Okay, comments by November 15th and vote by November 30th.

Cadwallader: There was another issue raised in the Professional Divisions Committee meeting yesterday, about ANS Strategic plan. The new plan is bold, calls for outreach, memorandums of understanding with other organizations so we can work cooperatively with them, calling for greater use of computers, more electronic system, e.g. electronic voting, greater effort in professional development, HQ wants to increase circulation of ANS publications, want to upgrade ANS headquarters IT systems, to make them more electronically based for the next generation of engineers. If anyone wants something to be included in the new ANS Strategic Plan, e-mail me and I will forward it.

Item #10 – Summary of FED decisions made on-line since last meeting

4:35pm – *Anderson*: voting items are currently active, I will e-mail a summary of voting

1. Approve 2012 budget for submittal to ANS HQ.
2. Approve the 4-year rolling budget plan for Division use.
3. Approve the minutes from the November 2011 FED ExCo meeting.
4. Approve the already-budgeted \$500 donation to the 2012 Student Conference.
5. Approve earmarking any profits from the 15th ICENES for the FED scholarship.
6. Approve the Slate of Candidates.
7. Approve the FED Tactical Plan and Succession Plan for 2012.
8. Approve the FED Strategic Plan.
9. Approve the draft FED Division Rules.

Email voting Approved all items above.

Item #11 – Other business

4:37pm – *Cadwallader*: I guess I jumped the gun by talking about the ANS strategic planning. Anyways, I've already covered that.

Cadwallader: An issue was raised about professional development and students. If anyone has any ideas for professional development, besides short courses at fusion topical meetings, please send any suggestions to me. At some point we may have to create a committee to address this topic.

Uckan: What about a summer school program?

Anderson: I know IAEA puts on courses. Maybe we could contribute to sending a student to one of these

Uckan: I know ITER does this. This maybe can be something that can be tied to TOFE, or tied to short courses.

Cadwallader: These are all things for us to think about.

Cadwallader: Is there any other business from members on phone:

El-Guebaly: IEEE, the organization that organizes SOFE, talked about combining meetings. What are your thoughts?

Cadwallader: This is an interesting topic, I spoke with Dennis Youchison (SNL) who talked with Mary Keenan with ANS HQ, and however unfortunately she left ANS. Since then, he has not tried to restart a talk. So I don't know if anyone is stepping up to combining meetings with IEEE Plasma physics society (the people who run SOFEs). I know when I talked to ANS this time last year they were very opposed to collaborating IEEE because they did not want to jeopardize our main source of income and prestige (the fusion topical), they did not want meeting poached by another society.

Schultz: Our relationship with IEEE is very good. If we were to combine, we would do joint meeting every other meeting. I am also an advocate of fewer meetings. But it never seems to work.

Cadwallader: I've seen fewer and fewer people coming to SOFE. They are trying to enhance attendance, such as by conference papers being published in IEEE Transactions on Plasma Science, a peer-reviewed archival journal, not just a conference proceedings. Additionally, they are working very hard to get more donations and funding. These are the things I see them trying to do to keep their meeting afloat. Now they come to us to try and do a joint meeting, and ANS national is telling us they will steal away our meeting.

Anderson: Instead of both doing every other year, if we join every year, we'd just have to be clear that we still need our funding.

Uckan: What about having difference registration fees for members of different societies? Additionally, in embedded topical, the system says you are x, y, z, etc. etc. You are qualified for this rate. But this is not the case for individual meeting. In the past we offered IEEE members to register at the ANS rate in stand alone topical meetings, but they never reciprocate. They have never let ANS members pay IEEE rate.

Tillack: For the 2009 SOFE I had the privilege of going in and overriding people's registration fees.

Uckan: But this had to go in manually?

Tillack: Yes, I had to manually change every registration fee person by person

4:45pm – *Cadwallader:* Okay, any new business?

Schultz: I would like to let anyone who thinks there is anything important that you wish to bring to the board of directions from the FED, I am the liaison for the board of directors.

Cadwallader: The topical meeting manual can be vague in some places, so I guess gray areas are filled in with traditions, so I think there should be a rewrite on the manual, and Linda Hansen of the NPC is doing it, and we are looking forward to the updated manual. Are we being forced to go to ANS headquarters for conference support? Or can we go to 3rd party?

Lumsdaine: I do not understand why would ANS require all use of ANS services for a stand alone topical meeting?

Tillack: We've been through this in IEEE, and people started moving away from hiring IEEE headquarters and IEEE got the hint that they weren't doing a good job.

Lumsdaine: We were strongly hinted at that we should use ANS services when we were planning our meeting, specifically abstract submission system.

4:59pm – *Cadwallader:* Any other new issues to bring up?

Uckan: Back issue copies are now starting to come up with Fusion Science and Technology. They will be scanning all journals back to the beginning. At the moment, we just have archived from 1988 to present. But they will go back to the beginning of time. They are working on issues with text, 300 Dpi, etc. etc. just an FYI. This was mentioned in December news letter. This action of scanning and archiving has already been approved for budget.

Item #12 – Adjournment

5:02pm – *Cadwallader:* If no other new business, I will close this meeting. This meeting is officially adjourned. Thank you

ANS Fusion Energy Division
Executive Committee Meeting Agenda
Sunday, October 30, 2011, 3:00 – 5:00 pm EDT
Omni Shoreham Hotel, East Parlor #500
Washington, DC
Call in number 608-237-5850
Passcode 7685835

1. Call to Order (Cadwallader)
2. Statement on June 2011 meeting minutes (Anderson)
3. Treasurer's Report and Rolling 4-year Budget (Anderson)
4. FED Publications
 - 4.1 Report on FED Newsletter (El-Guebaly)
 - 4.2 Fusion Science and Technology Journal Update (Uckan)
5. Student related issues
 - 5.1 Report on the April 2011 Student Conference (GA Tech representative)
 - 5.2 2012 Student Conference at UNLV Update (UNLV representative)
 - 5.3 Student travel support at ANS meetings (Cadwallader)
6. Conference Update
 - 6.1 15th ICENES update (Meier or designee)
 - 6.2 20th TOFE Update (Rasmussen or Lumsdaine or designee)
7. FED Slate of Candidates for the 2012 Election (Snead or designee)
8. FED Awards Update (Najmabadi)
9. Discussion of routed documents (Cadwallader)
10. Summary of FED decisions made on-line since last meeting (Anderson)
11. Other business (Cadwallader)
12. Adjournment



REALIZING NEW TECHNOLOGIES FOR THE AGE OF FUSION ENERGY

First Call for Papers

20th ANS Topical Meeting on the Technology of Fusion Energy

The Hutton Hotel

Nashville, TN

August 27-31, 2012

Scope: The TOFE meeting provides a forum for sharing the exciting progress made in fusion research as well as presenting future plans for national and worldwide fusion programs.

Organizing Committee:

General Chairs:

Dave Rasmussen and Brad Nelson

Technical Program Chair

Arnold Lumsdaine

Publications Chair

Larry Baylor

Local Arrangements Chair

Steve Combs

Key Dates:

- **February 1, 2012** **Abstract Submission**
- **March 15, 2012** **Abstract Notification**
- **August 31, 2012** **Full Paper Submission**

Technical Topics:

- Progress of Major Experiments (ITER, NIF and other experimental machines)
- Materials and Component Test Facilities
- Power plant studies
- Next step facilities and the Demonstration power plant
- Alternate fusion concepts
- Fission-fusion hybrids
- Other hybrids
- Power conversion
- Safety and environment
- Non-electric applications of fusion
- Plasma engineering, heating, and cooling
- Plasma material interactions
- Fuel handling and processing
- Diagnostics (plasma and other)
- Materials development and modeling
- Computational tools and validation experiments
- Nuclear analysis and experiments (neutronics and shielding)
- In-vessel components (first wall, blanket, shield, vacuum vessel)
- Fuel cycle and breeding
- Divertors and high heat flux components
- Fabrication, assembly and maintenance
- Magnets
- Vacuum technology
- Cryogenics
- IFE driver and chamber technology
- IFE target design, fabrication and injection

Preliminary Sponsors:

American Nuclear Society
Oak Ridge Section of the ANS

Information:

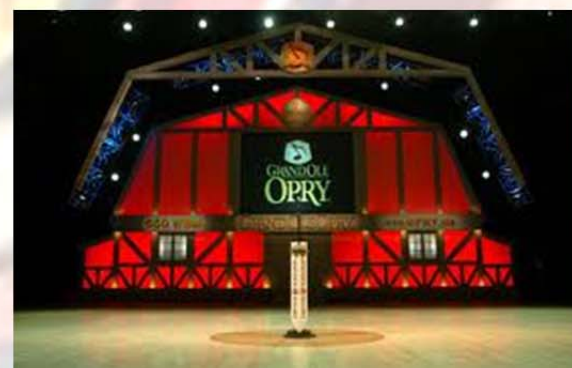
Web site: <http://tofe2012.org>

For additional information, contact:

General co-Chair: Dave Rasmussen, PO
Box 2008, MS6483, Oak Ridge, TN
37831-6483.

Tel: (865) 574-1158, Fax: (865) 574-8393

e-mail: rasmussenda@ornl.gov



| Budget funds | | | | | | | |
|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|
| Year | 2010 | 2011 | 2012 .est | 2013 | 2014 | 2015 | Comments |
| Carry forward | 17,485 | 38,416 | 37,946 | 32,646 | 40,846 | 40,046 | |
| Member allocation | 1658 | 1780 | 1600 | 1600 | 1600 | 1600 | |
| | | | | | | | 2010 tofe estimate |
| Division income | 23,479 | 0 | 0 | 9000 | 4500 | 0 | ANS gives the FED \$30/published TOFE paper at embedded TOFEs. Assume 19 th TOFE is embedded. \$19,114.11 from 2008 TOFE received in 2010. Assume profit from 2010 TOFE at \$4500 and \$9000 from 2012received in 2013 |
| Total budget | 42,622 | 40,196 | 39,546 | 43,246 | 46,946 | 41,646 | Possibly \$3-\$4k from Icenens in 2011 not included |
| Budget expenses | | | | | | | |
| Newsletters | 0 | 0 | 0 | 0 | 0 | 0 | |
| Awards, plaques | 55 | 59 | 1500 | 0 | 1500 | 0 | TOFE years, 2 Prof. awards + 1 Student paper award. |
| National meeting costs | 324 | 848 | 600 | 600 | 600 | 600 | Est. \$300 per phone setup at June and November ExComm meetings- \$450 |
| FED officer expenses | 0 | 0 | 0 | 0 | 0 | 0 | |
| Student support | 3,300 | 800 | 3800 | 800 | 3800 | 800 | TOFE years have 6 x \$500 for fusion student travel assistance. Donate \$300 to nuclear student travel support to ANS Winter Meetings. For student conference support \$500 |
| Scholarship/NEED funds | 500 | 500 | 500 | 500 | 500 | 500 | Typical \$500 NEED donation yearly. |
| Other expenses | 27 | 43 | 500 | 500 | 500 | 500 | \$500 "other expenses" are rarely used. 2007 was Landis Challenge II support for a teacher workshop at the June 2007 ANS Summer Meeting. 2011 has earmark for held for scholarship funds |
| Total expenses | 4,206 | 2,250 | 6,900 | 2,400 | 6,900 | 2,400 | |
| Closing balance | 38,416 | 37,946 | 32,646 | 40,846 | 40,046 | 39,246 | |



FUSION SCIENCE AND TECHNOLOGY

An International Journal of the American Nuclear Society

October 2011

To: Yousry Azmy, Chair, ANS Technical Journals Committee

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

Subject: Editor's Report for the Period October 1, 2010 to September 30, 2011

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Oak Ridge, Tennessee

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The following is a summary of paper statistics and editorial activities for *Fusion Science and Technology*.

During the period October 1, 2010 to September 30, 2011, FS&T received a total of 348 manuscripts for FS&T regular issues and 189 camera-ready papers for FS&T Transactions.

Of the 348 regular manuscripts, 112 were from North America, 139 from Asia, 91 from Europe (including Russia), and 6 from Others, with the following breakdown: 262 have been accepted/scheduled, 7 are under review/revision, and 79 have been rejected/withdrawn.

Breakdown for 189 camera-ready papers for FS&T Transactions are as follows:

- 85 papers from the 8th Int. Conference on Open Magnetic Systems for Plasma Confinement (OS2010), held in Novosibirsk, Russia, July 5–9, 2010;
- 24 papers from the First Int. Youth Conference (IYC2010) on Fusion Energy, held in conjunction with the 23rd IAEA-FEC in Daejeon, Korea, October 9–10, 2010.
- 80 papers from the 15th International Conference on Emerging Nuclear Energy Systems (ICENES), held in San Francisco, CA, May 15-19, 2011.

All FS&T 2011 issues are published and 2012 issues are assigned through May 2012.

Following dedicated issues were published during the period 10/1/10 to 9/30/11:

- Selected papers from 6th Fusion Data Validation, plus regular papers – FS&T Oct & Nov 2010
- Selected papers from 19th IFE Target Fabrication 2010 – FS&T Jan 2011
- Open Systems 2010 Proceedings – FS&T Transactions (Feb 2011)
- 4th ITER Summer School (IISS2010) Lectures – FS&T April 2011
- Selected papers from 2010 EC-16 – FS&T May 2011
- IAEA 1st Int. Fusion Youth Conference (IAEA-IYC2010) – FS&T Transactions (July 2011)
- 19th TOFE 2010 Proceedings – FS&T Jul & Aug 2011
- 9th Tritium 2010 Proceedings – FS&T Oct & Nov 2011

Following issues are scheduled/planned for 2012 and beyond:

- ICENES 2011 Proceedings – FS&T Transactions (Jan 2012)
- 10th Carolus Magnus Summer School (CMSS2011) – FS&T Transactions (Feb 2012)
- Selected papers from 1st IAEA-ITER Materials 2010 – FS&T Feb 2012
- Selected papers from 20th IFE Target Fabrication 2012 – FS&T regular issue (2012 or 2013)
- Selected papers from 15th ICFRM 2011 – FS&T regular issue(s) (2012)
- 20th TOFE 2012 Proceedings – FS&T regular issues (2013)
- Open Systems 2012 Proceedings – FS&T Transactions (2013)
- JT-60U (update of JT-60 Tokamak Special 2002) – FS&T regular issue (2013)
- IFE-Fast Ignition (US, EU, JA) – FS&T regular issue (in planning)
- Spherical Torus special issue – FS&T regular issue (in planning)
- Reverse Field Pinch Special Issue – FS&T regular issue (in planning)
- JA-EU ITER Broader Approach – FS&T regular issue (in planning)
- KSTAR (Korea) – FS&T regular issue (in planning)

Summary of paper statistics during this and previous periods are summarized in below tables and attached charts.

| FS&T Manuscripts by Regions [10/01 – thru – 09/30] | | | | | |
|---|-------------------|---------------|-----------|------------|----------|
| Year | Total Ms Received | North America | Asia | Europe | Others* |
| 2010/11 | 348 | 112 | 139 | 91 | 6 |
| 2009/10 | 345 | 132 | 98 | 114 | 1 |
| 2008/09 | 253 | 78 | 111 | 62 | 2 |
| 2007/08 | 360 | 170 | 85 | 101 | 4 |
| 2006/07 | 357 | 176 | 70 | 96 | 15 |
| <i>Reference 00/01</i> | <i>55</i> | <i>25</i> | <i>14</i> | <i>133</i> | <i>3</i> |

*Others may include some of the rejected/withdrawn papers with regions not sorted out in the ANS/FS&T database.

| FS&T Manuscripts in Progress [10/01 – thru – 09/30] | | | | |
|--|--------------------|--------------------|--------------------|-----------------|
| Year | Total Ms Received* | Accepted/Scheduled | Rejected/Withdrawn | Review/Revision |
| 2010/11 | 348 | 262 | 79 | 7 |
| 2009/10 | 345 | 201 | 144 | 0 |
| 2008/09 | 253 | 199 | 54 | 0 |
| 2007/08 | 360 | 234 | 126 | 0 |
| 2006/07 | 357 | 239 | 118 | 0 |
| <i>Reference 00/01</i> | <i>55</i> | <i>34</i> | <i>21</i> | <i>0</i> |

* Papers rejected/withdrawn from pre-review/pre-selection of papers from some of the special issues are not included in paper counts and rejected/withdrawn numbers

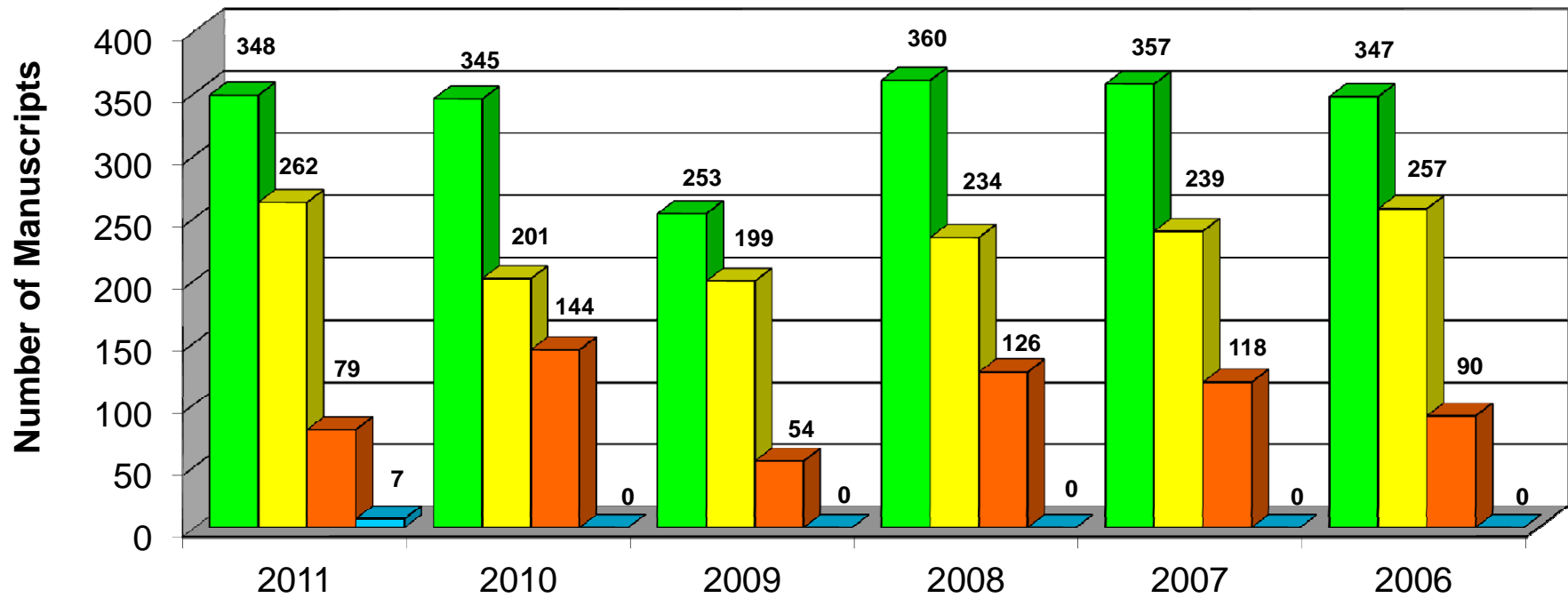
Best regards,

Nermin A. Uckan

Nermin A. Uckan, Editor

Fusion Science & Technology

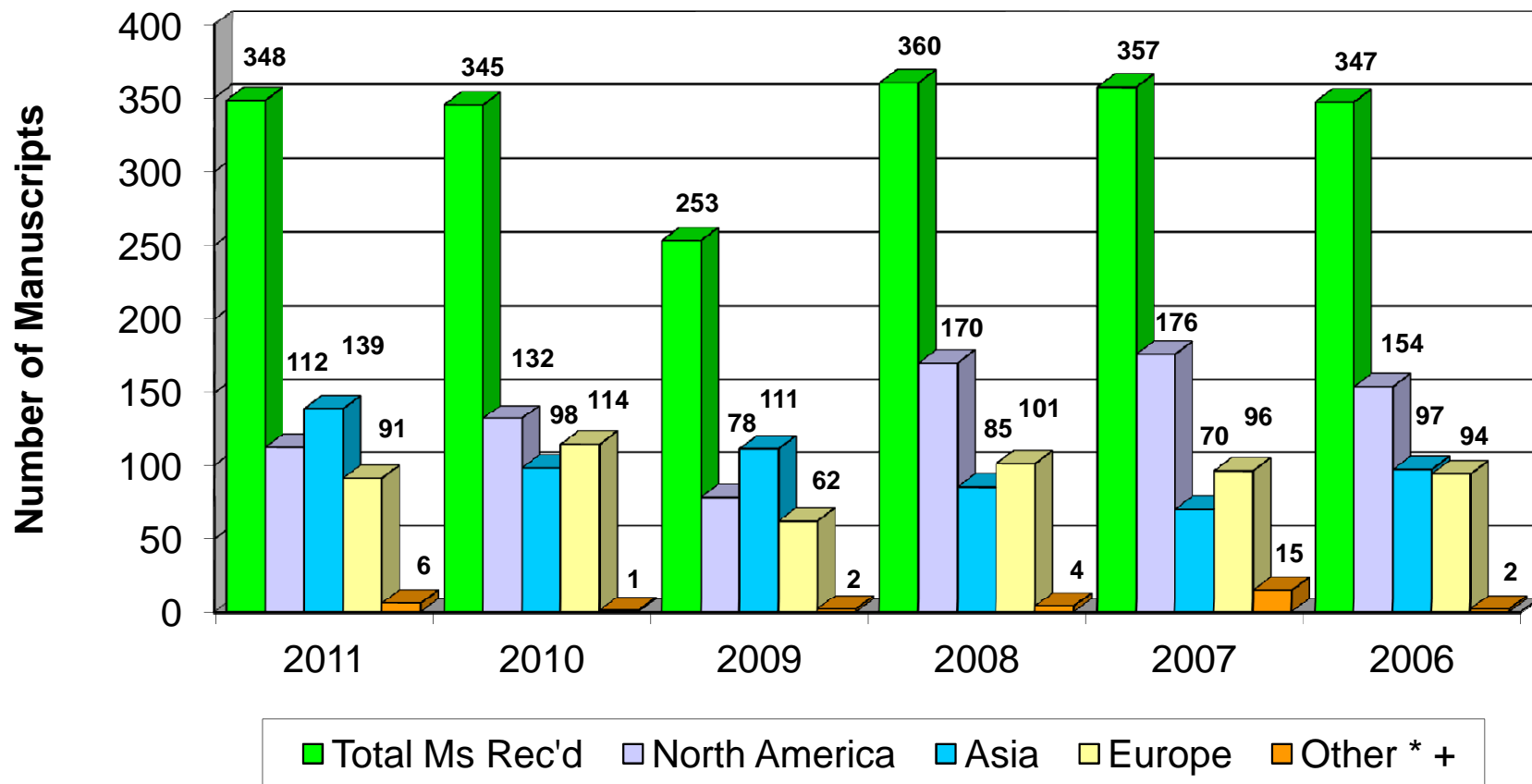
Manuscripts Currently in Progress
10/01__ thru 09/30__



■ Total MS Received ■ Accepted/Scheduled ■ Withdrawn/Rejected ■ Review/Revision

Fusion Science & Technology

Manuscript Submissions by Region
10/01/___ thru 09/30/___



* Other includes countries from the Middle East, South America, Africa, and Australia

+ For 2007 and 2008: Other includes rejected/withdrawn papers from Tritium07 - regions not sorted out

Slate of Candidates

Officer candidates:

Vice-Chair Susana Reyes (LLNL) reyessuarez1@llnl.gov
S/T Stephen Combs (ORNL) combssk@ornl.gov

Committee candidates (vote for 3):

ExCo seat Satoshi Konishi (Kyoto U) s-konishi@iae.kyoto-u.ac.jp
ExCo seat Jacob Leachman (WSU) jacob.leachman@wsu.edu
ExCo seat Ryan Abbott (LLNL) abbott13@llnl.gov

If you have any names to add, please let me know soon. We must approve the slate at the ExCo meeting on Oct 30 and then submit to ANS HQ.

Best regards,
Lee Cadwallader

| | | | | treasurers report | contribution to Need \$500 | FED honors chair committee Farrokh Najmabadi | Teller medal Dr. Christine Garban-Labaune Dr. Bruce Remington | approval of minutes 2011 summer meeting | 2011 winter meeting attendance |
|-------------------------|---------|--|--------------|----------------------|-------------------------------|--|---|---|-----------------------------------|
| VOTING | | | | | | | | | |
| Lee Cadwallader (INL) | (10-11) | lee.cadwallader@inl.gov | Chair | | | | | yes | yes |
| Minami Yoda (GIT) | (10-11) | minami.yoda@me.gatech.edu | Vice Chair | yes | yes | yes | yes | yes | yes |
| Mark Anderson (UW) | (09-11) | manderson@engr.wisc.edu | Secy./Treas. | yes | yes | yes | yes | yes | yes |
| Lucile Dauffy (LLNL) | (09-12) | dauffy1@llnl.gov | | | | | | | |
| Paul Humrickhouse (INL) | (10-13) | paul.humrickhouse@inl.gov | | yes | yes | yes | yes | yes | |
| Rick Kurtz (PNNL) | (09-12) | rj.kurtz@pnl.gov | | | | | | | yes |
| Art Nobile, Jr. (LANL) | (08-11) | anobile@lanl.gov | | | | | | | |
| Wayne Reiersen (ORNL) | (08-11) | reiersenwt@ornl.gov | | yes | yes | yes | yes | yes | |
| Keith Rule (PPPL) | (10-13) | krule@pppl.gov | | yes | yes | yes | yes | yes | |
| Shahram Sharafat (UCLA) | (09-12) | shahrams@ucla.edu | | yes | yes | yes | yes | yes | |
| Mark Tillack (UCSD) | (10-13) | mtillack@ucsd.edu | | yes | yes | yes | yes | yes | yes |
| Alice Ying (UCLA) | (08-11) | ying@fusion.ucla.edu | | yes | yes | yes | yes | yes | |
| Yatai Katoh | (11-14) | katohy@ornl.gov | ORNL | yes | yes | yes | yes | yes | |
| Arnie Lumsdanie | (11-14) | lumsdanea@ornl.gov | ORNL | yes | yes | yes | yes | yes | yes |
| Rene Raffray | (11-14) | rraffray@ucsd.edu | ITER | yes | yes | yes | yes | yes | |

ANS 2012 Student Conference

“Nuclear Science and Technology: Past, Present and Future”



CONFERENCE HIGHLIGHTS

TECHNICAL SESSIONS

We have the ability of holding up to seven concurrent technical sessions with minimal conflicting events, offering more students an opportunity to share their research.

ATOMIC AGES SOCIAL

Meet up with old friends and make new connections at the 1950s themed rooftop social on Thursday evening. Dance to your favorite cold war tunes or pose for a photo in 1950s garb!

TOURS

Tours will be available of the Nevada National Security Site, Atomic Testing Museum, Varian Medical Systems and the UNLV science & engineering laboratories.

ORAL HISTORY ROOM

Guests are invited to take a step back in time by viewing photographs and video clips collected from the weapons testing era and shared by the Nevada Test Site Oral History Project.

About the Conference

The ANS Student Section at the University of Nevada, Las Vegas is pleased to host the 2012 ANS Student Conference in fabulous Las Vegas, Nevada! Hosting the ANS Student Conference for the first time gives many nuclear science and engineering students their first opportunity to experience our unique facilities in Nevada. We are sure that we will deliver an exciting and technically diverse conference that should not be missed!

ANS Student Section at UNLV

The UNLV ANS Student Section was founded in 2003 as the university was starting up its nuclear engineering and radiochemistry programs. Student section members are drawn from the three prestigious and fast growing nuclear based programs; materials and nuclear engineering (M.S.), radiochemistry (Ph.D.), and health physics (B.S. and M.S.). The composition of student members from the three degree programs gives the UNLV ANS student section its diversity and resources that make it so awesome!

Conference Details

Attendance to student conferences has been steadily increasing in the past several years. Due to this trend, we estimate an attendance upwards of 750.

Guests accommodations will be available at the all suite Alexis Park Resort. The property is a non-gaming resort on lushly landscaped grounds with 3 sparkling pools.

Conference events will be held at the UNLV Student Union which offers nearly 30,000 square feet of flexible meeting space.



Program Details

Technical presentations: the main focus of the student conference. General areas that abstracts will be drawn from include:

- Nuclear Engineering
- Nuclear Science
- Radiochemistry
- Nuclear Policy
- Fuel Cycle
- Outreach

Career fair: offered to promote networking between students and professionals. Private interview rooms will be offered to top level sponsors. Dinner will be hosted in the career fair on Friday night, giving all attendees time to socialize after a day of technical sessions.

Poster session: held on Saturday afternoon after the career fair closes, offering professionals a chance to interact with students that are presenting posters. The posters will be set up first thing Saturday morning so attendees can view them throughout the day, with the opportunity to ask questions during the poster presentation session later in the afternoon.

Workshops: both technical and non-technical workshops will be offered to all conference attendees.



How to Get Involved

2012 Sponsorship Opportunities

Nucleus (\$25,000+)

- One guest speaker
- Three additional free registrations
- Premium career fair booth
- Priority interview space
- One full page ad in conference program
- Banners/ads at all major events
- Advance access to resume book
- Logo in conference program
- Logo on one conference giveaway
- Logo on conference t-shirt

Proton (\$15,000+)

- Two additional free registrations
- Choice career fair booth
- Priority interview space
- One full page ad in conference program
- Limited ad space at major events
- Advance access to resume book
- Logo in conference program
- Logo on conference t-shirt

Neutron (\$10,000+)

- Two additional free registrations
- One full page ad in conference program
- Advance access to resume book
- Logo in conference program
- Logo on conference t-shirt

Electron (\$5,000+)

- One additional free registration
- One half page ad in conference program
- Logo in conference program
- Logo on conference t-shirt

Neutrino (\$2,500+)

- One 1/4 page ad in conference program

Career Fair Booth Only (\$1,500)

All sponsorship levels \$2,500 & up include:

- One free registration (\$250 value)
- Career fair booth
- Linked logo on the conference website

Other Opportunities

Sponsorship

- Custom ad space in the conference program and other conference material
- Sponsorship of specific conference events and functions such as tours, socials and workshops

Technical

- Volunteer to be a technical session judge
- Volunteer to chair a technical session
- Offer or participate in a workshop

For general conference information,
please contact:

Vanessa Sanders
General Chair: Program
vsndrs1@aol.com
(321) 536-3540



For sponsorship information,
please contact:

Sherry Faye
General Chair: Logistics
sherryafaye@gmail.com
(315) 415-9629