

ANS Fusion Energy Division
Executive Committee Meeting Agenda
Sunday, June 24, 2007, 3:00-5:00 pm EDT
Boston Marriott Copley Place Hotel, Northeastern Room
Boston, Massachusetts

Members attending: Jeff Latkowski, Paul Wilson, Said Abdel-Khalik

Members attending by phone: Mark Anderson, Lee Cadwallader, Neil Morley, Farrokh Najmabadi, Mohamed Sawan, Brian Wirth

Members not attending: Gianfranco Federici, Brad Nelson, Roger Stoller, Minami Yoda

Committee Chairs and Guests: Nermin Uckan, Matthew Gidden, Kathryn Wright

1. Jeff Latkowski called the meeting to order at 3:10 pm. The agenda is attached.
2. Lee Cadwallader reported that the minutes from the November 2006 executive committee meeting had been approved electronically and have been transmitted to ANS HQ and the FED website.
3. Lee Cadwallader gave the Treasurer's report, which is attached. The report was accepted by the committee as-is in a voice vote.
- 4.1. Jeff Latkowski reported for Laila El-Guebaly that she distributed the FED newsletter during the first week of June 2007.
- 4.2. Nermin Uckan gave a report on the status of the Fusion Science and Technology journal. Her report is found in Attachment C.
- 5.1. Matthew Gidden (TAMU student) spoke to the committee on behalf of the 2007 ANS Student Conference (held at Oregon Sate University) and thanked the FED for their donation to the conference. He stated that there were two fusion track sessions at the 2007 meeting.
- 5.2. Matthew Gidden and Kathryn Wright from TAMU addressed the committee about the upcoming 2008 ANS Student Conference. The conference will be hosted by Texas A&M University at College Station, Texas on February 28-March 1, 2008. Mr. Gidden's goals are to maintain the student bond with the FED, grow the student conference attendance, and ask for a financial contribution from the FED. If we have any advice on improvements to the conference or ways to grow the meeting he would like to have them. At the OSU meeting there were about 300 attendees who viewed technical talks, enjoyed social time to meet people, and career fair was available to attendees as well. Mr. Gidden hopes to increase attendance to ~500 persons by reaching out to mathematics and physics departments that have strong ties to nuclear science and engineering. They want to embed smaller meeting and have parallel lunch speakers, perhaps as many as 5 parallel speakers who would speak on various nuclear topics, both tutorial and status talks. He hopes to have judges for student technical sessions and to highlight the FED in its tracks

as well. There will be a prize to winning students, and the student would be told which Division donated the prize.

Said Abdel-Khalik asked Mr. Gidden if inviting other disciplines (math and physics) to the meeting would dilute the meeting. Mr. Gidden stated they were trying to invite people whose work was in nuclear science or engineering and to approach more venues, to develop more esprit de corps, he did not envision any problem with additional attendees. Jeff Latkowski suggested that a possible fusion speaker would be Mike Campbell from General Atomics in San Diego, who could speak on both fission and fusion topics.

6.1 Jeff Latkowski stated that the 17th Topical Meeting on the Technology of Fusion Energy (TOFE) has closed out. Lee Cadwallader said that profits from the meeting were disbursed by the end of calendar year 2006. The FED was credited with \$30/published paper and 157 papers, for \$4,710.

6.2 Farrokh Najmabadi stated that the Best Student Paper from the 17th TOFE was awarded to Mr. Jon D. Spalding (UCSD) for his inertial fusion paper on target tracking. He is working on the plaque for Mr. Spalding and he thanked the TOFE and the committee for their efforts on the work for the best paper award.

6.3 Jeff Latkowski briefed the committee on the progress of the 18th TOFE. The meeting will be held as a stand-alone topical in San Francisco on Monday-Thursday, September 28-October 2, 2008. They have received ANS calendar placement last November, and Mary Beth Gardner's approval of the meeting budget. The hotel contract with the Stanford Court Hotel in San Francisco is under way. The meeting will feature a tour of the National Ignition Facility, two poster sessions on Monday and Tuesday, a banquet with student paper awards on Wednesday, and meeting paper publication in the Fusion Science and Technology journal. Jeff is the General Chair and Wayne Meier is the Technical Program Chair. The invitations for TPC seats have been sent out.

6.4 Paul Wilson spoke about the 5th International Conference on Inertial Fusion Sciences and Applications (IFSA 2007), to be held in Kobe, Japan on September 9-14, 2007 (the meeting web site is <http://www.ile.osaka-u.ac.jp/ifsa07/>). The IFSA 2007 Chairs are Kunioki Mima (Institute of Laser Engineering at Osaka University), Christine Labaune (Institute of Lasers and Plasmas at the University of Bordeaux), and John Lindl of LLNL. Inertial fusion members of the FED wish to have ANS affiliation with the meeting. The committee agreed that this is a major inertial fusion conference. A motion was made, seconded, and the committee voted to approve Paul Wilson taking an FED endorsement of the 5th IFSA to the ANS meetings committee as an ANS Class IV meeting.

7. Jeff Latkowski discussed the ANS Program Committee. The ANS HQ Program Committee grades each Division annually to assess division health. The graph is attached (attachment D). The FED 2006 score out of 11 categories was 7 in "green" good health, 3 in "white" neutral health, and one "yellow" poor health. Our poor health rating was in professional development. Paul Wilson stated that he is joining the ANS National Professional Development committee and he believes he will be able to help the FED

obtain a better score in this area. Paul explained that one thing ANS desires is transfer of knowledge, such as hosting short courses. An example is that the fission Divisions hosted a Fast Reactor short course. However, professional development sessions at national meetings are costly, perhaps \$400-500/person. Paul suggested that a pertinent and timely short course for the FED to consider would be Quality Assurance for ITER. Jeff stated that something could be held at the TOFE and that he would also arrange for perhaps a 1-hour TOFE session (even an evening session) on the National Ignition Facility as a User Facility and how to proceed with experiments at NIF. Lee Cadwallader stated he would discuss with his manager the possibility of obtaining funds for Ken Sowder (at INL employee who is currently a QA manager on the ITER team at Cadarache) to attend the coming TOFE. Paul Wilson also stated that Brad Nelson (ORNL, chief engineer of the US ITER team and FED committee member) might contribute to an ITER QA short course.

8. Said Abdel-Khalik gave the FED election results from April 2007. He stated that Roger Stoller, who filled the Vice-Chair seat when Susana Reyes departed for the ITER team in Cadarache last fall, will become FED chair this month. Farrokh Najmabadi was elected Vice-Chair, Lee Cadwallader was re-elected as Secretary-Treasurer, and Mohamed Sawan, Patrick Calderoni, and John Sethian were elected as FED committee members. Their terms begin after today's meeting concludes.

9. Said Abdel-Khalik reported that the FED had two Fellow nominations last year but the ANS HQ Fellows Committee did not approve them due to their relatively short time as ANS members. Said pointed out that Steven Zinkle was appointed as an ANS Fellow by another Division and that Dr. Zinkle had been on the FED list of potential Fellow candidates.

10. Jeff Latkowski reported for Bob Kaufmann on the status of the Teller Medal. This award is given to persons in the inertial confinement fusion area for outstanding work. The international panel of 15 inertial fusion specialists reviewed 11 nominees this year and chose two finalists to each receive the Teller Medal. The committee heard about the two nominees and voted to endorse the selection committee's results. Jeff will pass along FED approval to the Honors & Awards committee. The Teller Medal presentations will be made at the 5th IFSA meeting in September 2007.

11. Jeff Latkowski began a discussion on general donations to various ANS HQ requests. On occasion, Ms. Toni Bishop and other ANS HQ personnel request Division financial support of various ANS activities. Presently we have two supports specified in the budget, the Nuclear Engineering Education for the Disadvantaged (NEED) at \$500 and annual ANS student conference support at \$500. The committee discussed funding support for student travel to ANS National meetings and also writing a miscellaneous contributions line into the FED annual budget. Jeff Latkowski stated that ANS HQ is considering an increase of Division dues funds from \$1 per division member to \$2 or even \$3, so the FED could contribute more without undue cost burden. A motion was made, seconded, and a vote was taken to fund student travel assistance to ANS national meetings (two per year) at \$150/national meeting each year with specific instructions to disburse funds to the November 2007 National meeting. We will continue with NEED

and student conference support as well. Other funding requests will be discussed and dealt with as they arise.

12. Jeff Latkowski described a new ANS Young Members Groups that has been formed to better address the needs of students and young professionals in ANS. An FED liaison to the young members group is needed. The liaison must be under 35 years of age. Patrick Calderoni was nominated and approved by voice vote to begin this new position after his term on the FED committee begins this month. Paul Wilson pointed out that Mr. Aaron Kendall, a student at RPI, wishes to be involved with the FED and the Young Members group; however, the committee believed that as an FED EC member, Patrick Calderoni would be better suited to report to the FED EC than Mr. Kendall.

13. Jeff Latkowski noted that there has only been one issue brought up off-line, the contribution to an ANS Teacher's Workshop being held in Boston this week. The committee approved by e-mail a contribution of \$350 to the workshop. Lee Cadwallader did not write a disbursement form, he believed that ANS HQ would simply transfer the required funds like is already performed for other in-house transfers. Jeff Latkowski will verify that was the case, and if not, give Lee instructions on how to complete the disbursement form.

14. Jeff Latkowski opened a discussion on other business. A motion was made and seconded to authorize the treasurer to disburse \$500 of funding for the ANS 2008 Student Conference at TAMU. The motion was approved by voice vote. A motion was made and seconded to disburse \$500 to the NEED fund, and was approved by voice vote.

Jeff Latkowski stated that a Special Committee on Climate Change had formed under the ANS Environmental Science Division led by Dr. Sama Bilbao y Leon. They have requested that any ANS Division who believes they should be active in this area is welcome to send a liaison to the Special Committee. Committee members agreed that the FED should have a representative on this committee. Paul Wilson stated that he is very interested in this topic and has worked with Dr. Bilbao y Leon before. A motion was made, seconded, and a voice vote approved Paul's representation on the committee.

Said Abdel-Khalik thanked Jeff Latkowski for his term of service and able work as FED Chair.

Farrokh Najmabadi stated that since he has been elected FED Vice-Chair, he would like to be replaced as the FED Honors & Award Committee Chair. Neil Morley stated that he would be interested in leading the H&A committee. It was so moved, seconded and Neil was voted in as Chair of the FED Honors & Awards Committee. His first action given by Jeff Latkowski was to identify an H&A Vice-Chair as part of a succession plan.

Jeff thanked Farrokh for his four years of service as the Chair of the H&A committee, and he thanked Laila El-Guebaly for her work on the FED newsletter, which always receives compliments.

Jeff Latkowski adjourned the meeting at 4:48 pm.

Attachment A

**ANS Fusion Energy Division
Preliminary Executive Committee Meeting Agenda**

Sunday, June 24, 2007, 3:00-5:00 pm EDT

Boston Marriott Copley Place Hotel, Northeastern Room, Boston, Massachusetts

1. Call to order – J. Latkowski
2. November 2006 FED meeting minutes (approved via email) – L. Cadwallader
3. Treasurer's report – L. Cadwallader
4. FED Publications:
 - 4.1. Report on June issue of the FED newsletter – L. El-Guebaly
 - 4.2. FS&T update – N. Uckan
5. Student-related items:
 - 5.1. Report from the 2007 ANS Student Conference – OSU Student Conference Rep.
 - 5.2. Student Discussion regarding the upcoming 2008 Student Conference at TAMU – M. Gidden (Student Conference Co-Chair)
6. Conferences:
 - 6.1. Close-out from the 17th TOFE – G. Rochau or designee
 - 6.2. 17th TOFE Best Student Paper Award – B. Cipiti or designee
 - 6.3. Update on the 18th TOFE – J. Latkowski
 - 6.4. 5th IFSA conference, September 2007, classification discussion – J. Blanchard
7. FED program committee – J. Latkowski
8. FED election results – S. Abdel-Khalik
9. Update on FED nominations for ANS Fellows – S. Abdel-Khalik or designee
10. Update on Edward Teller Awards – Robert Kauffman or designee
11. FED support for ANS programs, such as NEED – J. Latkowski
12. FED liaison to the ANS Young Members Group – J. Latkowski
13. Summary of FED decisions made "on-line" since last meeting – J. Latkowski
14. Other business
15. Adjournment

Attachment B

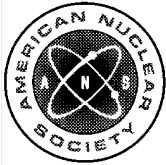
Treasurer's Report, Lee Cadwallader, Idaho National Laboratory, Idaho Falls, ID
June 2007

As of December 31, 2006, our division had a balance of \$19,947.00. Expenses in 2006 included \$3,000 in student travel support for six students to attend the 17th TOFE, \$500 in support of Oregon State University to host the annual ANS Student Conference in the spring of 2007, a \$566 fee to set up phones for Division meetings, a \$500 cash prize to Dr. Said Abdel-Khalik for an Outstanding Achievement Award in November 2006, and \$398.15 for award plaques. Income in December 2006 included \$4,710 from the 17th TOFE meeting.

As of March 31, 2007, our division had a balance of \$20,673.00, which includes our 2007 income of \$726 from member dues. 2007 expenses thus far have been \$500 for a cash prize for the best student paper from the 17th TOFE (awarded to Mr. Jon D. Spalding, UCSD, "Longitudinal Tracking of Direct Drive Inertial Fusion Targets"). The June 2007 balance is \$20,173.00. Projected 2007 expenses include \$600 for phone service to two Division meetings held during national ANS meetings, \$500 in support of the spring 2008 annual ANS Student Conference, and \$350 to support an ANS Teacher's Workshop.

Attachment C

Fusion Science and Technology journal status report.



June 2007

To: Dimitrios Cokinos, Chair, ANS Technical Journals Committee

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

Subject: Editor's Report for the Period May 1, 2006 to April 30, 2007

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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, 2006 to April 30, 2007, we have received 162 regular manuscripts and 240 camera-ready papers from TOFE proceedings; total of 402. Of the 402 papers, 210 are from North America, 94 from Asia, 94 from Europe (including Russia), and 4 from Others.

Of the 402 manuscripts, 208 have been accepted/scheduled, 61 are under review/revision, and 133 have been rejected/withdrawn.

During this period we have also received 118 papers from Open Systems 2006 (OS2006), published in *FS&T Transactions* (Mar 2007). OS2006 papers are not included in our paper counts.

FS&T issues for the next 12+ months are assigned and/or committed.

Following special (dedicated) issues have been published during the period 5/1/06 to 4/30/07:

- Selected papers from 16th IFE Target Fab. – FS&T May06 (49 papers)
- Papers from 15th IEA Stellarator (Parts 1,2,3) – FS&T Aug06 (26 papers)
FS&T Oct06 (17 papers)
FS&T Jan07 (15 papers)
- NCSX Stellarator – FS&T Feb07 (7 papers)
- Open Systems 2006 – FS&T Transactions, Mar07 (118 papers, camera-ready)
- Alcator C-Mod Tokamak (MIT) – FS&T Apr07 (14 papers)

Following issues are scheduled for the remainder of 2007:

- Selected papers from 17th IFE Target Fab. – FS&T May07 (49 papers)
- EC Wave Physics, Technology and Applications (Part 1) – FS&T Aug07 (23 papers)
- TOFE06 Proceedings (parts 1 & 2) – FS&T Proceedings Oct/Nov 2007 (~135 papers)

Following issues are planned for 2008:

- EC Wave Physics, Technology and Applications (Part 2) – FS&T Jan08 (23 papers)
- MFE Diagnostics (EU, JA, RF, US) – FS&T regular issue (13 papers, to be scheduled)
- JET Tokamak (Culham, England) – FS&T regular issue (11 chapters, under review)
- ARIES Compact Stellarator Study – FS&T regular issue (11 papers, under review)
- 8th Tritium Science & Technology 2007 – FS&T Proceedings (papers due late 2007)
- 8th Carolus Magnus Summer School – FS&T Transactions (papers due late 2007)

Following special/dedicated issues are in the planning stages:

- 16th IEA Stellarator (2007) – FS&T regular issues (under discussions for 2008/09)
- DEMO Studies (EU, JA) – FS&T regular issue (in planning/preparation)
- IFMIF (EU, JA, US) – FS&T regular issue (in planning/preparation)
- Test Blankets (EU, JA, RF, US) – FS&T regular issue (in planning/preparation)
- SOFT 2008 Proceedings (organizers thinking about switching?)
- KSTAR (Korea) – FS&T regular issue (under discussions for 2009)
- W7-X (Germany) – FS&T regular issue (under discussions for late 2009)

FS&T has been offering color printing for special issues, and recently started offering color online figures for b&w print issues (tested with April 2007 Alcator C-Mod special issue). All future (regular/special) FS&T issues will be color online.

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

FS&T Manuscripts by Regions [05/01 – thru – 04/30]					
Year	Total Ms Received	North America	Asia	Europe	Others*
2006/07	402	210	94	94	4
2005/06	388	129	109	147	3
2004/05	314	211	65	36	2
2003/04	250	93	52	64	41*
2002/03	140	69	35	26	10*
2001/02	122	48	47	25	2
Reference'01	63	29	23	8	3

* For 2002/03 and 2003/04: Rejected/withdrawn papers from TOFE02 (7 and 39) are included under Others – regions not sorted out in the ANS/FS&T database.

FS&T Manuscripts in Progress [05/01 – thru – 04/30]				
Year	Total Ms Received	Accepted/Scheduled	Rejected/Withdrawn	Review/Revision
2006/07	402	208	133	61
2005/06	388	330	57	1
2004/05	314	242	72	0
2003/04	250	197	53	0
2002/03	140	101	39	0
2001/02	122	98	24	0
Reference'01	63	41	22	0

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

Looking forward to seeing you in Boston.

Best regards,

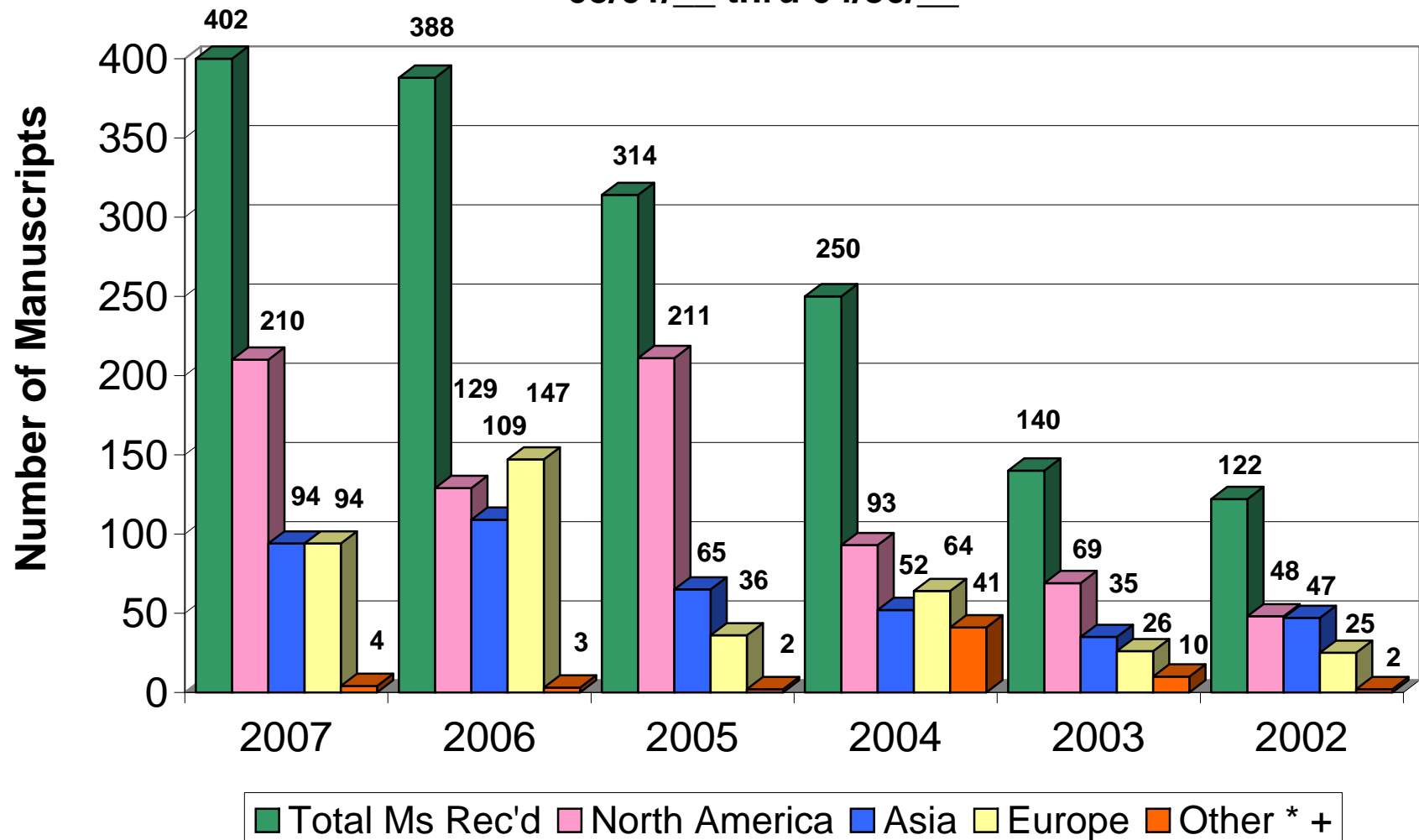
Nermin A. Uckan

Nermin A. Uckan, Editor

Fusion Science & Technology

Manuscript Submissions by Region

05/01/___ thru 04/30/___



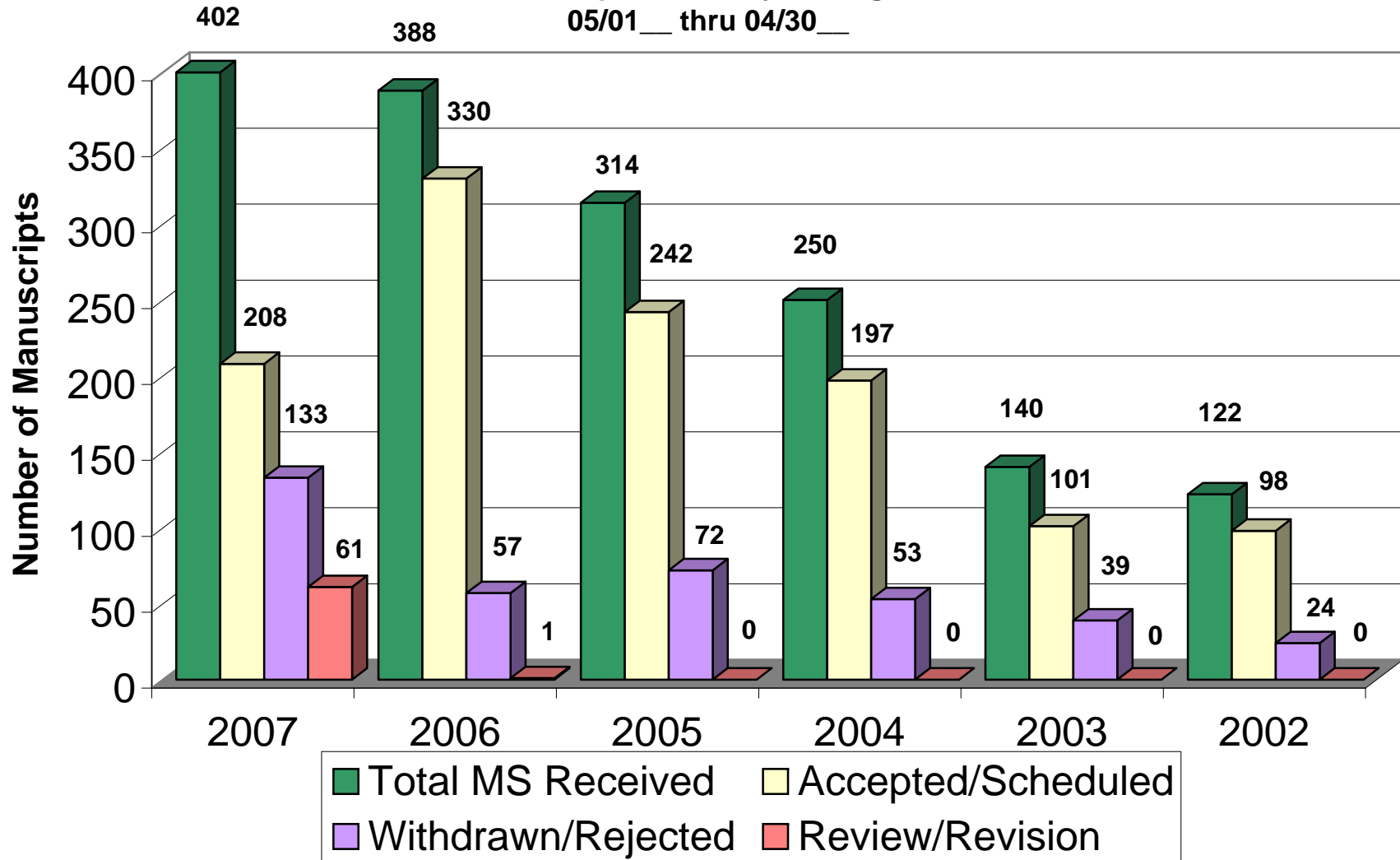
* Other includes countries from the Middle East, South America, Africa, and Australia

+ For 2003 and 2004: Other includes rejected/withdrawn papers from TOFE02 - regions not sorted out

Fusion Science & Technology

Manuscripts Currently in Progress

05/01__ thru 04/30__



**Professional Division Metrics
Fusion Energy Vitality Measures – CY 2006**

Division Meetings	Division Governance	Division Contributions to Society	Division Services to Membership
<p>National Meeting Participation</p> <p>2006: 0 session 0 panel/ Embedded Topical session 0 panel</p>	<p>Succession Planning</p> <p>Included in 2004-08 Strategic Plan</p>	<p>ANS Position Statements</p> <p>12 Fusion Energy (current)</p>	<p>Professional Development</p> <p>Established Program Committee - 2006</p>
<p>Class I Class II Topicals</p> <p>+25% attendance (135/200) 15th Topical: TOFE 2004 (142 full papers)</p>	<p>Membership Trends</p> <p>764/801 members +4.8% change 2006</p>	<p>Participation with Outside Professional Societies</p> <p>Fusion has liaison with IEEE Publishes in other journals</p>	<p>Scholarships</p> <p>2005 Landis Challenge</p>
<p>Class III Topicals</p> <p>15th Fusion Topical - Nov 02 17th Topical Mtg on Technology of Fusion Energy (TOFE – Nov 2006) 157 full papers</p>	<p>Communications</p> <p>2 newsletters in 2006 website updated in 2006</p>	<p>Society Leadership</p> <p>3 of 4 PDC: 75% Exec Comm All NPC Presentation to BoD June 2006</p>	<p>Peer Recognition/Awards</p> <p>FED Awards (Achievement & Technical Accomplishment) Best Student Paper Award</p>
	<p>Division Planning</p> <p>2004-08 Strategic Plan submitted to PDC Chair 2006 Reviewed budgeting process</p>	<p>Non-Meeting Publications</p> <p>Fusion Science & Technology Journal</p>	<p>Student Support</p> <p>2006 TOFE Conf Student Support (6 students)</p>