

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

**June 17, 2001**

**Room 202B  
Midwest Express Convention Center  
Milwaukee, WI**

Members present: K. McCarthy, L. Cadwallader, R. Stoller (newly elected), J. Stubbins (chair-elect)

Members present via telecon: M. Bourham, J. Blanchard, S. Willms

Others present: G. Kulcinski (Honors and Awards committee), G. Miley (liaison to IEEE), W. Hogan (ANS Public Policy), J. S. Herring (Program committee), N. Uckan (FS&T Editor), K. Schultz (membership committee)

Executive Committee Members Absent: C. Hamilton, R. Raffray, J. Latkowski, N. Taylor, A. Sagara, D. Youchison

**1. Call to Order**

K. McCarthy

Dr. K. McCarthy, Chair, called the meeting of the ANS/FED to order at 3:05 pm. The meeting agenda is provided in Attachment A. A list of the new ANS Officers and executive committee members is provided in Attachment B. A list of past committees for Topical Meetings on the Technology of Fusion Energy (TOFEs) is provided as Attachment C. A list of ANS Fellows who are active, current members of the FED as of August 2001 is included as Attachment D.

**2. Approval of the Previous Meeting's Minutes**

K. McCarthy

The October 2000 meeting minutes from Park City were briefly discussed and some minor corrections were suggested. Approval was recommended, with the minor changes included, by the members present and on conference call.

**3. Treasurer's Report**

K. McCarthy

K. McCarthy summarized the status of the FED budget for R. Raffray, who could not attend the meeting. An important point was that \$1,500 was assumed as the profit from the 14<sup>th</sup> Topical Meeting on the Technology of Fusion Energy (14<sup>th</sup> TOFE). The projected budget is \$3,086.

#### **4. 14<sup>th</sup> TOFE Discussion and Closeout**

J. S. Herring and  
L. Cadwallader

Dr. J. S. Herring (14<sup>th</sup> TOFE treasurer) gave the final accounting from the meeting. Dr. Herring stated that profits from the meeting were higher than estimated. The 14<sup>th</sup> TOFE made roughly \$31k. The attendees were very surprised at this large profit from the meeting, given its size. Dr. Herring had a check to give to the treasurer, but the treasurer was unable to attend this meeting.

The breakdown of meeting profits are as follows:

50%	to ANS National
25%	to FED
12.5%	to Idaho local ANS section
7.5%	to Northern California local ANS section
5%	to Atomic Energy Society of Japan

Dr. Uckan pointed out that the extra page charges must be resolved before the final dollar numbers are settled and checks distributed. Only 4 authors paid for extra page charges (\$100/extra page) in advance, the rest are paying ANS HQ for the extra pages. Dr. Kulcinski congratulated Dr. Herring on the financial success of the meeting. He asked why stand-alone meetings are thought to be a financial risk. Dr. Herring pointed out that they usually are a risk, but that the Idaho section hosted the meeting frugally, Idaho has a great deal of experience in hosting topical meetings, and the hotel worked well with Ms. M. Warnick of the Idaho team to give great value for the hotel costs. The hotel was also within government per diem limits.

The conference proceedings for the 14<sup>th</sup> TOFE were distributed by ANS headquarters in April, as a special issue of Fusion Technology journal. The conference staff also made a compact disk of proceedings, available for \$15/copy. The final numbers were 121 regular attendees, and 18 student attendees. There were 152 technical papers published in the proceedings.

#### **5. 15<sup>th</sup> Topical Meeting**

K. McCarthy

Dr. McCarthy stated that next year, we will have another TOFE meeting. We will not co-sponsor with the ISFNT6 meeting in San Diego in April 2002. We must decide if we will have the TOFE embedded as part of an ANS annual meeting. Dr. Bourham was not awarded a stand-alone topical meeting on fusion by ANS. Dr. Latkowski has checked on hotel prices, per Chair request, and the results are that both Hollywood, Florida (June 2002) and Washington, DC (November 2002) hotel costs are over the government per diem limits. In discussion, the members came to the conclusion that there is not enough time left to organize and obtain the permission needed for a stand-alone TOFE meeting in 2002. The prevailing

opinion is to embed the TOFE meeting in the November ANS annual meeting in Washington, DC. The date is November 18-21, 2002. That timing will give potential attendees some space between the ISFNT and TOFE meetings. A General Chair and Technical Program Chair are needed for the TOFE meeting. A list of Chairs from the fourteen past TOFE meetings is attached to these minutes as Attachment C.

## **6. Update of Space Working Group**

K. McCarthy

The Space Working Group was approved to be an ANS Working Group. ANS members can join the working group at no cost for participation. As time passes, the working group may seek to become a Division. Then there would be costs for participation. Dr. Miley suggested that K. McCarthy ask the Space Working Group if they would like to have a joint session with the FED at the next ANS National Meeting in Reno, Nevada in November, 2001, or in Hollywood, Florida in June 2002. He suggested that a joint session would provide the new group with some exposure, and would allow the FED to have a meaningful session at the next national meeting. Dr. McCarthy agreed to contact the Space Working Group and suggest a joint "fusion in space" session.

## **7. Update on Election of EC Members**

K. McCarthy

At the previous meeting in Park City, Utah, a suggestion was made to determine the rules regarding a Chair serving for 2 consecutive years. The idea was that a two-year Chair would have better continuity. Dr. McCarthy asked if the committee desires having a chair serve for two years. Dr. Kulcinski noted that it is more efficient to serve longer, and that much more might be accomplished during a two-year term. W. Hogan pointed out that the commitment to run for FED Chair now spans three years. The first year is serving as Vice-Chair, then a year as Chair, then a year chairing the Nominating Subcommittee for FED. Dr. Stubbins pointed out that the bylaws are clear that the term is for one year. Dr. McCarthy pointed out that there might be fewer people seeking to run for the position if the three phases (vice-chair, chair, nominating committee) each increase to 2 years. The Chair called for opinions of the committee, and the one-year term will stand.

## **8. Report on FED Nominations for ANS Fellow**

G. Kulcinski

The FED membership data show that there are 22 ANS Fellows out of about 600 FED members. Dr. Kulcinski remarked that the list appears to be more heavily tipped toward magnetic fusion researchers than an equal split between inertial and magnetic fusion. Dr. Miley remarked that this 22/600 ratio sounds lower than the ANS overall, but he did not have the numbers to compare to the division numbers. Five of the Fellows are retired, and none are deceased. Dr. Kulcinski noted that "no Fellows have left us yet." K. McCarthy, J. Stubbins, and G.

Kulcinski will write an e-mail letter to the 21 Fellows to solicit nominations for Fellows. To nominate a person for Fellow, at least one nominator must be a Fellow, and one nominator must be on the FED Committee. It also helps to have a second letter from another Fellow and a letter from the local ANS section as well. A list of the FED Fellows will be attached to the meeting minutes as attachment D. A suggestion was made that the FED Honors and Awards Committee should either facilitate or advise the Fellows on how to make a nomination, how to assemble a package, etc., to send to ANS.

## **9. Newsletter Report**

K. McCarthy

Dr. Laila El-Guebaly was not attending the meeting via conference call. She has the draft newsletter and Kathy McCarthy sent her the outgoing Chairman's message via e-mail, so there should not be anything preventing distribution of the newsletter.

## **10. Honors and Awards**

W. Hogan

There are two candidates for the 2001 Edward Teller medal. These two candidates were chosen from 22 nominees by the appropriate processes and have been discussed with Dr. Teller. The two candidates are Professor Stefano Atzeni from the University of Rome, and Dr. Mordecai D. Rosen of Lawrence Livermore National Laboratory. Dr. Kulcinski moved that we accept the nominations of Prof. Atzeni and Dr. Rosen. The motion was accepted and passed. The Teller medal is presented every two years, and there are two nominees, so an average of one per year is useful to determine if a monetary award can accompany a plaque. ANS bylaws state that if there is more than \$20k in an endowment, then a cash award can be given. Dr. Hogan has raised over \$23k thus far; however, the ANS national honors and awards committee misunderstood when these awards would be conferred, and has declined a cash award. The cost is \$100 to make a plaque and mint a medal. Also, the inertial fusion energy conferences contribute to the endowment. The International Conference on Inertial Fusion Sciences and Applications (IFSA 1999) in Bourdeaux, France gave 10,000 french francs to the endowment. The IFSA 2001 meeting to be held in Kyoto this coming September will also donate to the endowment. Attendance is not known at this time, but they have received more than 400 abstracts thus far, and the meeting could be larger than IFSA 1999. Therefore, it is possible that a conference donation to the endowment could be generous. With the endowment earning interest, a \$1k award per recipient appears to be reasonable. ANS HQ will have to decide on the amount.

Dr. Hogan will write a press release about the award for these two candidates, and Jennifer Burns of ANS Public Relations at HQ will distribute it from ANS. Dr. Hogan also announced that he will retire from LLNL at the end of June.

## **11. ANS Public Policy Committee**

W. Hogan

The committee has spent their time this year on two public policy statements. These are "Health Effects of Low Level Radiation" and "Global Nuclear Proliferation Management". They have also been involved with developing and will shortly issue a public policy statement on Advanced Nuclear Energy Development. This is a joint statement with the Institute of Electrical and Electronics Engineers (IEEE). The committee has been deleting out-of-date policy statements and asking the Divisions for new, current statements. The Fusion public policy statement has been rewritten about 1 year ago. It may need to be rewritten in perhaps another year. The new FED Chair, J. Stubbins, agreed to take that as an action item.

ANS is starting to co-sponsor more meetings, such as the International Conference on Nuclear Engineering (ICONE). Also, the IFSA is an ANS Class 4 meeting now. ANS is looking for more divisions to align with conferences and symposia.

## **12. New Members Welcome**

K. McCarthy

René Raffray was re-elected as Secretary/Treasurer, Wayne Meier was elected as Vice Chair, and Jim Stubbins becomes the FED Chair today. The current members are listed in Attachment B. Kathy McCarthy welcomed them, as did Jim Stubbins.

## **13. Other Business**

K. McCarthy

Kathy McCarthy attended the ANS Headquarters meeting with Division Chairs. The ANS Board of Directors is concerned about national meeting attendance and meeting quality. The Board has been trying to decide about either combining the summer and winter meetings, reducing the cost of meetings, or making each meeting more important to attend. They have chosen to make each meeting more important to attend. They have asked the Division Chairs to support that goal. The FED could possibly co-sponsor more sessions at national meetings, such as waste management, or fusion power usage in space. Dr. Hogan remarked that it is good to co-sponsor or hold joint sessions, and to embed topical meetings to get cross-over and mingling between disciplines. Dr. Kulcinski pointed out that we have gotten out of the habit of thinking about ANS general meetings in terms of fusion sessions/presentations. FED members do not generally attend annual meetings. We must work to bring attendance back up.

Other issues from the Division Chair meeting were that ANS student memberships are increasing. Dr. James Lake, ANS President, has had on the order of 2 dozen magazine interviews in the last several months. ANS has also noted more web site hits and more public inquiries in recent months. The public interest in nuclear power is higher now than in the past several years.

The ANS Planning Committee has put electronic reviews of summaries (for technical papers) into place; reviewers can log in via the ANS web site to perform their reviews now. The cost is \$59k/year to operate this system. ANS will install capability to handle full technical papers in the future. The Planning Committee may bill the Divisions for this cost.

#### **14. Adjournment**

K. McCarthy

The meeting was adjourned at 4:55 pm. Dr. McCarthy thanked everyone for their support during her year as FED Chair, and wished Dr. Stubbins well in his term of office that has officially begun.

## **Attachment A**

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

#### **Agenda**

**June 17, 2001, 3-5pm (Central Time)  
Room 202B, Midwest Convention Center  
Milwaukee, Wisconsin**

1. Call to order – K. McCarthy
2. Approval of minutes, June 2000 FED Executive Committee meeting
  - K. McCarthy (for R. Raffray)
3. Treasurer's Report – K. McCarthy (for R. Raffray)
4. Final Budget Numbers and FED Revenue from 14<sup>th</sup> Topical Meeting – L. Cadwallader
5. The 15th Topical Meeting – K. McCarthy and all
  - Embedded in 2002 June ANS meeting in Hollywood, Florida; embedded in 2002 Winter ANS National Meeting in Washington D.C.; or stand alone
  - Hotel rates for Florida and Washington - J. Latkowski
6. Update on Space Technologies and Applications working group – K. McCarthy
7. Update on elections of EC members – Can Chairperson's mandate be extended to 2 years – K. McCarthy, C. Wong
8. Report on possible FED nomination for ANS Fellows - N. Uckan and G. Kulcinski
9. Report on Newsletter – L. El-Guebaly
10. Vote on this year's two nominees for the ANS/FED Edward Teller Medal – B. Hogan
11. Report on activities of ANS Public Policy Committee – B. Hogan
12. Welcome of new officers and EC members – K. McCarthy, J. Stubbins
13. Other business
14. Adjournment

Attachment B

**FED Officers and Executive Committee List**

by Clement Wong, General Atomics, San Diego, California

Chair: James Stubbins (UIUC) (01-02) jstubbin@staff.uiuc.edu

Vice Chair/Chair-Elect: Wayne Meier (LLNL) (01-02) meier5@llnl.gov

Sec'y/Treasurer: René Raffray (UCSD) (01-02) raffray@fusion.ucsd.edu

Executive Committee:

James Blanchard	(UW)	(99-02)	blanchard@engr.wisc.edu
Lee Cadwallader	(INEEL)	(99-02)	lcc@inel.gov
Chris Hamilton	(GA)	(00-03)	hamiltonc@gat.com
Jeffery Latkowski	(LLNL)	(00-03)	latkowski@llnl.gov
Akio Sagara	(Japan)	(01-04)	sagara@LHD.nifs.ac.jp
Roger Stoller	(ORNL)	(01-04)	stollerre@ornl.gov
Neill Taylor	(England)	(01-04)	neill.taylor@ukaea.org.uk
Scott Willms	(LANL)	(99-02)	willms@lanl.gov
Dennis Youchison	(SNL)	(00-03)	dlyouch@sandia.gov

FED Standing Committee Chairs:

Nominating: Kathryn McCarthy (INEEL), km3@inel.gov - Chair

Program: Steve Herring (INEEL), sth@inel.gov - Chair

Honors and Awards: Gerald Kulcinski (UW), kulcinski@engr.wisc.edu - Chair

FED Special Committee Chairs:

Membership: Ken Schultz (GA), schultz@fusion.gat.com

FED Representatives on National Committees:

ANS Publications: Ken Schultz (GA), schultz@fusion.gat.com

ANS Public Policy: Bill Hogan (LLNL), hogan5@llnl.gov

Editors:

Newsletter: Laila El-Guebaly (UW), elguebaly@engr.wisc.edu

Fusion Science and Technology Journal:

Nermin Uckan (ORNL), uckann@ornl.gov

Liaisons to other ANS divisions and organizations:

AAD: Jim Anderson (DOE), Jim.Anderson@ns.doe.gov

MS&T: John Davis (Boeing), john.w.davis@boeing.com

IEEE: George Miley (UIUC), g-miley@uiuc.edu

Web site maintenance: Mark Tillack (UCSD), tillack@fusion.ucsd.edu



## Attachment C

### List of Committees for Past Topical Meetings on the Technology of Fusion Energy

Note: The 5<sup>th</sup> TOFE proceedings and on were published in *Fusion Technology*.

#### 1st Topical Meeting on the Technology of Controlled Nuclear Fusion

(San Diego, California, April 16-18, 1974) [published by AEC]

General Chair: G. R. Hopkins, GA

Technical Program Chair: R. Werner, LLNL

#### 2<sup>nd</sup> Topical Meeting on the Technology of Controlled Nuclear Fusion

(Richland, Washington, September 21-23, 1976) [published by ERDA]

General Chair: L. Schmid, PNL

Technical Program Chair: G. L. Kulcinski, UW

#### 3<sup>rd</sup> Topical Meeting on the Technology of Controlled Nuclear Fusion

(Santa Fe, New Mexico, May 9-11, 1978) [published by DOE]

General Chair: L. Booth, LASL

Technical Program Chair: J. R. Powell, BNL

#### 4<sup>th</sup> Topical Meeting on the Technology of Controlled Nuclear Fusion

(King of Prussia, Pennsylvania, October 14-17, 1980) [published by DOE]

General Chair: R. G. Mills, PPPL

Technical Program Chair: F. H. Tenney, PPPL

#### 5<sup>th</sup> Topical Meeting on the Technology of Fusion Energy

(Knoxville, Tennessee, April 26-28, 1983, *stand alone*)

General Chair: J. L. Scott, ORNL

Assistant General Chair: J. Sheffield, ORNL

Technical Program Chair: C. A. Flanagan, WEC

#### 6<sup>th</sup> Topical Meeting on the Technology of Fusion Energy

(San Francisco, California, March 3-7, 1985, *stand alone*)

General Chair: C. Henning, LLNL

Assistant General Chair: R. Borchers, LLNL

Technical Program Co-Chairs: R. Moir, LLNL and  
M. Monsler, KMS Fusion

#### 7<sup>th</sup> Topical Meeting on the Technology of Fusion Energy

(Reno, Nevada, June 15-19, 1986, *initial embedded meeting*)

General Chair: C. Henning, LLNL

Technical Program Chair: Chair not identified, 34 on committee

8<sup>th</sup> Topical Meeting on the Technology of Fusion Energy

(Salt Lake City, Utah, October 9-13, 1988, *stand alone*)

General Chair: C. R. Toole, INEL  
Assistant General Chair: J. L. Liebenthal, INEL  
Technical Program Chair: J. G. Crocker, INEL  
Assistant Program Co-Chairs: W. J. Hogan, LLNL and  
D. F. Holland, INEL

9<sup>th</sup> Topical Meeting on the Technology of Fusion Energy

(Oak Brook, Illinois, October 7-11, 1990, *stand alone*)

General Chair: D. Smith, ANL  
Technical Program Chair: R. Mattas, ANL

10<sup>th</sup> Topical Meeting on the Technology of Fusion Energy

(Boston, Massachusetts, June 7-12, 1992, *embedded*)

General Chair: S. O. Dean, FPA  
Technical Program Chair: N. Uckan, ORNL

11<sup>th</sup> Topical Meeting on the Technology of Fusion Energy

(New Orleans, Louisiana, June 19-23, 1994, *embedded*)

General Chair: D. J. Dudziak, NCSU  
Technical Program Co-Chairs: W. A. Houlberg, ORNL and  
J. G. Gilligan, NCSU

12<sup>th</sup> Topical Meeting on the Technology of Fusion Energy

(Reno, Nevada, June 16-20, 1996, *embedded*)

General Chair: C. Henning, LLNL  
Technical Program Chair: J. Perkins, LLNL

13<sup>th</sup> Topical Meeting on the Technology of Fusion Energy

(Knoxville, Tennessee, June 7-11, 1998, *embedded*)

General Chair: T. E. Shannon, Univ. of Tennessee  
Technical Program Co-Chairs: M. Bourham, NCSU,  
J. W. Davis, Boeing, and  
J. R. Haines, ORNL

14<sup>th</sup> Topical Meeting on the Technology of Fusion Energy

(Park City, Utah, October 15-19, 2000, *stand alone*)

General Chair: G. Longhurst, INEEL  
Vice General Chair: S. Tanaka, Tokyo University  
Technical Program Chair: D. Petti, INEEL  
Assistant Technical Program Chairs: W. Meier, LLNL, and Y. Seki, JAERI

Attachment D

**List of ANS-FED Fellows [Active as of August 2001]**

Dr. Mohamed A. Abdou, M4; University of California- Los Angeles	Dr. George H. Miley, M4; University of Illinois-Champaign-Urbana
Dr. Charles C. Baker, M4; University of California – San Diego	Dr. Ralph W. Moir, M4; LLNL
Dr. James D. Callen, M4; University of Wisconsin	Dr. Gregory A. Moses, M4; University of Wisconsin-Madison
Dr. Stephen O. Dean, M4; Fusion Power Associates	Dr. Douglass E. Post, M4; LANL
Dr. Donald J. Dudziak, North Carolina State University	Dr. Richard F. Post, M4; LLNL
Dr. Harold K. Forsen, M4; Kirkland, Washington	Dr. Mohamed E. Sawan, M4; University of Wisconsin-Madison
Dr. Samuel D. Harkness, Pittsburgh, Pennsylvania	Dr. John Sheffield, M4; ORNL
Dr. Carl D. Henning, M6; LLNL	Dr. Weston M. Stacey, Jr., M4; Georgia Institute of Technology
Dr. Terry Kammash, M6; University of Michigan	Dr. Don Steiner, M4; Rensselaer Polytechnic Institute
Dr. Gunther Kessler, University of Karlsruhe	Dr. Nermin A. Uckan, M4; ORNL
Prof. Gerald L. Kulcinski, M4; University of Wisconsin-Madison	Dr. Clement Wong, M4; General Atomics

Notes:

M4 – Fellow

M6 – Fellow Emeritus

M7 and M8 – Honorary Lifetime Members and also Fellow grade