

Division
of Plasma Physics

DPP

NEWSLETTER

WINTER

Edited by Saralyn Stewart

A Division of The American Physical Society

Inside this Issue:

Call for Nominations for 1997 APS Fellowship

- Form for Nomination of Fellowship
<http://aps.org/fellowship>

Call for Nominations for Prize and Awards

- James Clerk Maxwell Prize for Plasma Physics
- Award for Excellence in Plasma Physics Research
- Award for Outstanding Doctoral Thesis in Plasma Physics
- Nicholson Medal for Humanitarian Service

Nomination for 1997 Officers of the Division
(form)

APS-Division of Plasma Physics Committees

- 1997 Executive Committee
- 1997 Appointed Committees

1997 Conference Calendar Deadlines

- DPP Sessions and Annual Meeting
- Other Relevant Meetings

Report on Women in Plasma Physics Reception

Report on Plasma Astrophysics Working Group

Report on Education Outreach

Minutes of the DPP Executive Committee
Meeting—Sunday, 10 November 1996

Minutes of the DPP Business Meeting—
Wednesday, 13 November 1996

Recent Ph.D. Theses Related to Plasma
Physics

1996 APS-DPP Newly Elected Fellows and
Citations

*Look for this newsletter at
<http://w3fusion.ph.utexas.edu>*

Important Dates

**Fellowship Nomination
Saturday, 15 March 1997**

**Prize / Awards
Nominations
Saturday, 1 March 1997**

**1997 Officers
Nominations
Friday, 4 April 1997**

**Invited / Review Papers
Wednesday, 4 June 1997**

**Contributed Abstracts
Tuesday, 8 July 1997**

**Call for Nominations for 1997 APS Fellowship
Deadline: Saturday, 15 March 1997**

Each year the Division of Plasma Physics (DPP) is allowed to submit nominations of about 1/2% of its membership, approximately 12 members, to Fellowship in the American Physical Society (APS). Fellowship status for members of the DPP is indicated by an asterisk next to the member's name in the current APS Membership Directory. A Fellowship nomination form is enclosed. The original nomination package should be sent to the Associate Executive Officer, Honors Program at APS (see address below), along with a cover letter stating that a copy has also been sent to Miklos Porkolab, DPP Vice-Chair (see address below):

Original:

Executive Officer (Fellowship Program)
American Physical Society
One Physics Ellipse
College Park, MD 20740-3844
301-209-3268

Copy:

Miklos Porkolab, DPP Vice-Chair
Massachusetts Institute of Technology
77 Massachusetts Avenue, NW 16-288
Cambridge, MA 02139-4307
617-253-8448

Deadline for receipt of nomination packages is: Saturday, 15 March 1997.

The nomination package should consist of 20 single-sided pages or less containing: a completed nomination form with supporting statements or letters from two sponsors (it is recommended that they be Fellows themselves), a citation limited to 30 words, and the nominee's four most notable publications. (A list of DPP members holding Fellowship rank is on the APS home page at <http://aps.org>.) It is suggested that one of the sponsors not be from the nominee's institution. The sponsors should solicit and include up to two additional supporting letters. A list of refereed publications should also be included. (This may be in compressed, but readable, form.) Optional material, such as curriculum vita, may be appended as long as the 20 single-sided pages limit is not exceeded. Note that these instructions differ somewhat from those printed in the standard APS form.

The principal criterion for fellowship is outstanding scientific or technical contributions, evidenced by the quality and impact of the contributions. Special services to science or the APS, contributions to scientific leadership or teaching, and recognition as an authority in some branch of plasma physics will be given serious consideration. Election to Fellowship requires membership in the APS and, typically, at least six years of experience beyond the Ph.D. The nominations are evaluated by the DPP Fellowship Committee and its recommendations are considered in succession by the DPP Executive Committee, the APS Fellowship Committee, and the APS Council. A nominee for Fellowship who has not been approved after review by two consecutive Fellowship Committees shall be dropped from the list of nominees. The sponsors of the nominated member shall be notified by the APS Executive Officer (Judy Franz) that the member will not be elected to Fellowship based on that nomination, but that the name of the Member may be resubmitted at a later time for nomination to Fellowship. A Fellowship certificate for the newly selected fellow, bearing the citation, will be awarded at the banquet of the Annual Meeting.

1997 Fellowship Committee

Miklos Porkolab, <i>Chair</i>	MIT	617-253-8448
Derek Boyd	U. of Maryland	301-405-5007
Keith Burrell	General Atomics	619-455-2278
Ronald Cohen	LLNL	510-422-9831
Joel Fajans	UC, Berkeley	510-642-3872
Richard Hawryluk	PPPL	609-243-3306
Joseph Kilkenny	LLNL	510-423-4213
Russell Kulsrud	Princeton U.	609-258-1014
Yue-Ying Lau	U. of Michigan	313-764-5122
Michael Mauel	Columbia U.	212-854-4455
George Morales	UC, Los Angeles	310-825-4318

(A Fellowship Nomination form is available on the APS home page at <http://aps.org>.)

Nominations for Officers of the Division of Plasma Physics

Nominations are being requested for 1997 Officers of the DPP: Vice-Chair and three Executive Committee members. Following the rules set forth in our Bylaws, candidates must be members of the DPP for at least two years prior to nomination. A slate of candidates will be selected by the Nominations Committee, chaired by Ellen Zweibel, and ballots will be mailed to the DPP membership during the summer.

Members nominated by at least 1% of the DPP (about 25 members) will automatically be placed on the ballot. The Vice-Chair will be the Chair of the Fellowship Committee; the following year he or she will succeed to the Chair-Elect of the DPP and will be the Chair of the Program Committee; and then the year after that he or she will assume the Chair of the DPP. Please use the form below and mail it (photocopy or cut off) or email nominations (your return email address is your official DPP member signature) to:

Ellen Zweibel
JILA, Room 225
Campus Box 440
University of Colorado
Boulder, CO 80309-0440
Phone: 303-492-8439
Fax: 303-492 0642
zweibel@solarz.colorado.edu

Deadline for receipt of nominations:

Friday, 4 April 1997

APS—Division of Plasma Physics Committees

The business of the Division of Plasma Physics is conducted by a large number of members willing to serve on the committees listed on the following pages. The DPP is indebted to each of these members for his or her time and interest. Please feel free to contact any member of the Executive Committee on general APS-DPP matters or the Chair of any appointed committee on issues within its purview. We look forward to working with you to promote the business of the DPP during the coming year.

Richard Hazeltine, 1997 Chair
Division of Plasma Physics, APS

1997 Executive Committee

Chair:

Richard Hazeltine U. of Texas 512-471-1322 rdh@hagar.ph.utexas.edu

Chair-Elect:

Nathaniel Fisch PPPL 609-243-2643 fisch@princeton.edu

Vice-Chair:

Miklos Porkolab MIT 617-253-8448 porkolab@psfc.mit.edu

Past Chair:

Stewart Prager U. of Wisconsin 608-262-7768 prager@juno.physics.wisc.edu

Secretary-Treasurer:

Mary Ann Sweeney SNL 505-845-7307 masween@sandia.gov

Divisional Councillors:

Roy Gould Caltech 818-395-4811 rwgould@cco.caltech.edu

William Kruer LLNL 510-422-5437 kruer@icf.llnl.gov

Members:

Donald Batchelor ORNL 423-574-1288 batchelor@fed.ornl.gov

Samuel Cohen PPPL 609-243-3185 scohen@pppl.gov

Fred Driscoll UCSD 619-534-2489 fdriscoll@ucsd.edu

Walter Gekelman UCLA 310-206-1772 gekelman@physics.ucla.edu

Chan Joshi UCLA 310-206-2039 joshi@ee.ucla.edu

Martin Lampe NRL 202-767-4041 lampe@ppd.nrl.navy.mil

Peter Politzer General Atomics 619-455-2260 politzer@gav.gat.com

Sherrie Preische APS 301-209-3255 preische@pppl.gov

Barbara Shrauner Washington U. 314-935-6134 bas@ee.wustl.edu

1997 Appointed Committees

Program Committee for Invited and Contributed Papers

Nathaniel Fisch, *Chair* Princeton U. 609-243-2643 fisch@princeton.edu

James Callen U. of Wisconsin 608-262-1370 callen@engr.wisc.edu

Robert Commisso NRL 202-404-8984 commisso@fermi.nrl.navy.mil

Steven Cowley UCLA 310-825-4789 cowley@physics.ucla.edu

Michael Desjarlais SNL 505-845-7273 mpdesja@sandia.gov

David Hammer Cornell 607-255-3916 hammer@lps.cornell.edu

Richard Hazeltine, *ex officio* U. of Texas 512-471-1322 rdh@hagar.ph.utexas.edu

Joel Hosea PPPL 609-243-3206 jhosea@pppl.gov

Warren Hsing LANL 505-665-7507 hsing@lanl.gov

Makoto Katsurai U. of Tokyo +81-3-3812-2111 katsurai@tanuki.t.u-tokyo.ac.jp

Mark Koepke, *ex officio* W. Virginia U. 304-293-3422 koepke@wvnmvs.wvnet.edu

Arnold Kritz Lehigh U. 610-758-3930 kritz@plasma.physics.lehigh.edu

John Lindl LLNL 510-422-5430 lindl1@llnl.gov

Neville Luhmann	UC, Davis	510-422-9787	luhmann@gregor.llnl.gov
Michael Mauel	Columbia	212-854-8257	mauel@olumbia.edu
Robert McCrory	U. of Rochester	716-275-4973	rmcc@lle.rochester.edu
Howard Milchberg	U. of Maryland	301-405-4816	milch@ipst.umd.edu
William Nevins	LLNL	510-424-6401	nevins@llnl.gov
Francis Perkins, Jr.	ITER, San Diego	619-622-5195	perkinf@iterus.org
Peter Politzer	General Atomics	619-455-2260	politzer@gav.gat.com
Miklos Porkolab	MIT	617-253-8448	porkolab@psfc.mit.edu
Allan Reiman	PPPL	609-243-2623	areiman@pppl.gov
David Ruzic	U. of Illinois	217-333-2906	druzic@uiuc.edu
Edl Schamiloglu	U. of New Mexico	505-277-4423	edl@eece.unm.edu
Earl Scime, <i>exofficio</i>	W. Virginia U.	304-293-3422	scime@wvnmvs.wvnet.edu
Phillip Sprangle	NRL	202-767-3493	sprangle@ppd.navy.mil
Clifford Surko	UCSD	619-534-6880	csurko@ucsd.edu
Mary Ann Sweeney, <i>exofficio</i>	SNL	505-845-7307	masween@sandia.gov
Michael Tandler	Alfvén Lab, Sweden	46-8-790-77-09	tandler@venus.fusion.kth.se
James Van Dam	U. of Texas	512-417-6129	vandam@hagar.ph.utexas.edu
David Whittum	Stanford U.	415-926-2302	whittum@slac.stanford.edu

Local Arrangements for Pittsburgh, Pennsylvania Annual Meeting

Earl Scime, <i>Chair</i>	W. Virginia U.	304-293-3422	scime@wvnmvs.wvnet.edu
Mark Koepke, <i>Co-Chair</i>	W. Virginia U.	304-293-3422	koepke@wvnmvs.wvnet.edu

Site Selection Committee

Stewart Prager, <i>Chair</i>	U. of Wisconsin	608-262-7768
Mary Ann Sweeney	SNL	505-845-7307

Public Information Coordinator

Bruce Remington, <i>Chair</i>	LLNL	510-423-2712
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Newsletter, Program Administration, and Home Page

Saralyn Stewart	U. of Texas	512-471-4378	stewart@hagar.ph.utexas.edu
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Concerns of Young Scientists Committee

Earl Scime, <i>Chair</i>	W. Virginia U.	304-293-3422	scime@wvnmvs.wvnet.edu
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Fellowship Committee

Miklos Porkolab, <i>Chair</i>	MIT	617-253-8448
porkolab@psfc.mit.edu		
Derek Boyd	U. of Maryland	301-405-5007
Keith Burrell	General Atomics	619-455-2278
Ronald Cohen	LLNL	510-422-9831
Joel Fajans	UC, Berkeley	510-642-3872
Richard Hawryluk	PPPL	609-243-3306
Joseph Kilkenny	LLNL	510-423-4213
Russell Kulsrud	PPPL	609-258-1014
Yue-Ying Lau	U. of Michigan	313-764-5122
Michael Mauel	Columbia	212-854-4455
George Morales	UCLA	310-825-4318

Publication Committee

John Cary, <i>Chair</i>	U. of Colorado	303-492-1489
cary@colorado.edu		
Bruce Cohen	LLNL	510-422-9823
Steve Eckstrand	DoE	301-903-5546

David Forslund	LANL	505-665-1907
Martin Goldman	U. of Colorado	303-492-8896
Noah Hershkowitz	U. of Wisconsin	608-263-4970
James Knauer	U. of Rochester	716-275-2074
Bruce Langdon	LLNL	510-422-5444
Douglass Post	ITER, San Diego	619-622-5141
Barrett Ripin	APS	301-209-3233
Barbara Shrauner	Washington U.	314-935-6134

Human Rights Committee

William Dorland, <i>Chair</i> bdorland@hagar.ph.utexas.edu	U. of Texas	512-471-3795
Herbert Berk	U. of Texas	512-471-1364
Abraham Bers	MIT	617-253-4195
John Finn	LANL	505-667-8156
Bruce Scott	Max-Planck, Germany	49-89-3299-1644
Andrew Sessler	LBL	510-486-4992
Thomas Stix	PPPL	609-243-2488

Interdivisional and Public Affairs Committee

Thomas Simonen, <i>Chair</i> simonen@gav.gat.com	General Atomics	619-455-3522
Herbert Berk	U. of Texas	512-471-1364
Daniel Cohn	MIT	617-253-5524
Donald Correll	LLNL	510-422-6784
John Dawson	UCLA	310-825-7814
Paul Dusenbery	Space Science Inst.	303-492-2013
Tim Eastman	U. of Maryland	301-405-4829
David Forslund	LANL	505-665-1907
Russell Kulsrud	Princeton U.	609-258-1014
Michael Lieberman	UC, Berkeley	510-642-7200
Richard Petrasso	MIT	617-253-8458
Stewart Prager	U. of Wisconsin	608-262-7768
Sherrie Preische	APS	301-209-3255
Barrett Ripin	APS	301-209-3233
Ned Sauthoff	PPPL	609-243-3207
J. Leon Shohet	U. of Wisconsin	608-262-1191
Clifford Surko	UC, San Diego	619-534-6880

Nominations Committee

Ellen Zweibel, <i>Chair</i>	U. of Colorado	303-492-8439
Wallace Manheimer	NRL	202-767-3128
Robert McCrory	U. of Rochester	716-275-4973
Keith Thomassen	LLNL	510-422-9815

James Clerk Maxwell Prize

Allen Boozer, <i>Chair</i>	Columbia	212-854-4785
Robert Goldston, <i>Vice-Chair</i>	PPPL	609-243-3172
Martin Goldman	U. of Colorado	303-492-8896
Thomas O'Neil (1996 recipient)	UCSD	619-534-4176
Thomas Simonen	General Atomics	619-455-3522

Excellence Award

Ian Hutchinson, <i>Chair</i>	MIT	617-253-8760
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Bruce Remington, <i>Vice-Chair</i>	LLNL	510-423-2712
C. Fred Driscoll	UCSD	619-534-2489
Chandrashekhar Joshi (1996 recipient)	UCLA	310-825-7279
James Van Dam	U. of Texas	512-471-6129

Award for Outstanding Doctoral Thesis in Plasma Physics (former Simon Ramo)

Raymond Fonck, <i>Chair</i>	U. of Wisconsin	608-263-7799
Ronald Gilgenbach, <i>Vice-Chair</i>	U. of Michigan	313-763-1261
Roger Bengtson	U. of Texas	512-471-3943
Gregory Hammett (1996 recipient advisor)	PPPL	609-243-2495
Adil Hassam	U. of Maryland	301-405-1594

Nicholson Medal for Humanitarian Service Award

John Finn, <i>Chair</i>	LANL	505-667-8156
Ravinda Sudan, <i>Vice-Chair</i>	Cornell University	607-255-4127
Bernard Cooper	West Virginia U.	304-293-3423
Li Zhi Fang (1996 recipient)	U. of Arizona	520-621-6809
Alvin Saperstein	Wayne State U.	313-577-2733

1997 Conference Calendar Deadlines

Thirty-Ninth Annual Meeting of the Division of Plasma Physics, 17-21 November 1997 in Pittsburgh, PA. The meeting will be held at the Pittsburgh Convention Center. The conference hotel is the Doubletree Hotel. Earl Scime and Mark Koepke, West Virginia University, are the Chair and Co-Chair of the Local Arrangements Committee.

The **deadline for invited and review paper nominations is Wednesday, 4 June 1997.** Nomination forms (revised) will be enclosed in the May Newsletter. Nominations should be sent to Saralyn Stewart, The University of Texas at Austin, Institute for Fusion Studies, 26th and Speedway, RLM 11.214, Austin, Texas 78712, phone: 512-471-4378, fax: 512-471-6715, email: <stewart@hagar.ph.utexas.edu> and Nathaniel Fisch, Princeton University, PO Box 431, Princeton, NJ 08544, email: <fisch@princeton.edu>.

The **deadline for abstracts of contributed papers is Tuesday, 8 July 1997.** A subject categories list, together with an abstract form (revised), will be in the spring DPP Newsletter.

Other Relevant Meetings

1997 Joint April Meeting of the American Physical Society and the American

Association of Physics Teachers, 18-21 April 1997 in Washington DC (with DAMOP Annual Meeting) Co-Sponsored by the Canadian Association of Physicists and the Sociedad Mexicana de Fisica. There will be two plasma physics invited paper sessions (see details at <http://aps.org>):

- Joint session with the Division of Astrophysics, 20 April 1997, 8:00
- B. Balick, U. Washington—Radiation hydrodynamics meets nebular evolution at the Hubble space telescope
- G. Collins, LLNL—Equation of state measurements of deuterium up to 2 Mbar
- D. Saumon, Vanderbilt U.—High-pressure EOS of hydrogen, and implications for the giant planets
- M. Gyulassy, Columbia U.—Inertial deconfinement of the quark-gluon plasma
- T. Tajima, U. Texas—Black hole plasma physics using intense short pulse lasers
- A. Wong, UCLA—The aurora borealis: a plasma physics and environmental laboratory in the sky
- Joint session with the Division of Computational Physics, 20 April 1997, 11:00

- W. Mori, UCLA— The power of particle-in-cell simulations on parallel computers: Laser-plasma accelerators
- J. Stone, U. Maryland—The magnetohydrodynamics of astrophysical accretion disks
- M. Beer, Princeton U.—Simulations of plasma turbulence suppression and transport barriers in tokamaks
- T. Rognlien, LLNL—Simulating plasma, neutrals, and photons in the tokamak edge region
- D. Dubin, UCSD—Simulations of coulomb crystals and vortex crystals in nonneutral plasmas

Other Relevant Meetings, *continued*

2nd Workshop on Plasma Polarization Spectroscopy, February/March 1997, Kyoto University, Kyoto, Japan. Contact person: Peter Beiersdorfer, email: <beiersdorfer@llnl.gov>.

2nd Symposium on Current Trends in International Fusion Research, 10-14 March 1997, Washington, DC. Contact person: Ronald Kirkpatrick, fax: 505-665-3456, email: <rck@lanl.gov>.

IAEA Technical Committee Meeting on Drivers and Ignition Facilities for Inertial Fusion, 10-14 March 1997, Osaka, Japan. Contact person: T.J. Dolan, phone: +43-1-2060-21756, email: <dolan@ripol.iaea.or.at>.

24th Annual United Kingdom Plasma Physics Conference, 24-27 March 1997, Leeds, United Kingdom. Contact person: Glen Harris, phone: +44-0114-2824518, fax: +44-0114-2738673, email: <g.r.harris@sheffield.ac.uk>, website: <<http://www.shef.ac.uk/~ch1grh/conf/intro.html>>.

10th Joint Workshop on Electron Cyclotron Emission and Electron Cyclotron Resonance Heating, 6-11 April 1997, Ameland, The Netherlands. Contact person: J. Hamers, phone: +31-30-609-6999, fax: +31-30-603-1204, email: <ec10@rijnh.nl>.

13th International Conference on Laser Interaction and Related Plasma Phenomena, 13-18 April 1997, Monterey, California. Contact person: George Miley, phone: 217-333-3772, fax: 217-333-2906, email: <lrpp97@uiuc.edu>.

Transport Task Force Workshop, 23-26 April 1997, Wisconsin University Center, Madison, Wisconsin. Contact person: James Callen, University of Wisconsin, phone: 608-263-8142, fax: 608-262-6707, email: <callen@wisc.edu>, website: <<http://www.cptc.wisc.edu/sherwood.conference.html>>.

in conjunction with

International Sherwood Fusion Theory Conference, 28-30 April 1997, Wisconsin University Center, Madison, Wisconsin. Contact person: James Callen, University of Wisconsin, phone: 608-263-8142, fax: 608-262-6707, email: <callen@wisc.edu>, website: <<http://www.cptc.wisc.edu/sherwood.conference.html>>.

in conjunction with

6th Annual Numerical Tokamak Project Workshop, 30 April to 1 May 1997, Wisconsin University Center, Madison, Wisconsin. Contact person: Bruce Cohen, LLNL, 510-422-9823, email: <bcohen@llnl.gov>.

Nonlinear MHD and Extended-MHD Workshop, 30 April to 2 May 1997. Organized by J. Callen (ex officio), W. Kerner (EU), W. Park (USA), and S. Tokuda (Japan). Contact person: Wonchull Park, Princeton University, phone: 609-243-2637, email: <wpark@pppl.gov>.

2nd International Symposium on Plasma Process-Induced Damage, 12-14 May 1997, Monterey, California. Contact person: NCCAVS Business Office, phone: 408-737-0767, fax: 408-737-2403.

Particle Accelerator Conference, 12-16 May 1997, Vancouver, BC. Contact person: M. Craddock, phone: 604-222-7341, fax: 604-222-1074, email: <craddock@triumf.ca>, website: <<http://www.triumf.ca/pac97.html>>.

24th IEEE International Conference on Plasma Science, ICOPS97, 19-22 May 1997, San Diego, California. Contact person: Jay Hyman, phone: 310-317-5495, fax: 310-317-5480, email: <jhyman@hrl.com>, website: <<http://www.jetlink.net/~ktw/icops97.html>>.

3rd Volga International Summer School on Space Plasma Physics (ISS97), 22 May-3 June 1997, Nizhny Novgorod/Volga River, Russia.

Contact person: Lev Erukhimov, phone: +7-8312-36-01-88, fax: +7-8312-36-99-02, email: <iss97@nirfi.sci-nnov.ru>, website: <http://www.wavegroup.irfu.se/Volga97/>.

4th International Conference on High-Density Z-Pinches, 28-30 May 1997, Vancouver, Canada. Contact person: N.R. Pereira, email: <zp4@ppdu.nrl.navy.mil>, website: <http://wwwppd.nrl.navy.mil/zpinch/announcement.html>.

4th International Symposium on Sputtering and Plasma Processes, 4-6 June 1997, Kanazawa, Japan. Contact person: Minoru Inoue, phone: +81-594-24-5507, fax: +81-594-24-1576, email: <inoue@mie.ed.fujitsu.co.jp>.

Other Relevant Meetings,

continued on next page

Other Relevant Meetings, *continued*

Hadron Collider Physics XII, 5-11 June 1997, Stony Brook, New York. Contact person: J. Napolitano, phone: 516-632-8095, fax: 516-632-8101, email: <napolitano@sbhep.physics.sunysb.edu>, website: <http://sbhep1.physics.sunysb.edu/~hadrons>.

24th European Physical Society Conference on Controlled Fusion & Plasma Physics, 9-14 June 1997, Berchtesgaden, Germany. Contact person: M. Schittenhelm, phone: +89-3299-4154, fax: +89-3299-4313, email: <schittenhelm@ipp-garching.mpg.de>, website: <http://www.ipp.mpg.de/e3/eps_1997.html>.

Interrelationship Between Plasma Experiments in the Laboratory and Space, 23-27 June 1997, Maui, Hawaii. Contact person: Walter Gekelman, email: <gekelman@physics.ucla.edu>, website: <http://e-plasma.physics.ucla.edu/ipels>.

11th IEEE International Pulsed Power Conference, 29 June-2 July 1997, Baltimore, Maryland. Contact person: Gerald Cooperstein, phone 202-767-2290, fax: 202-767-0436, email: <cooperstein@nrl.navy.mil>, website: <http://www.ppc97.nrl.navy.mil>.

34th Culham Summer School in Plasma Physics, 7-18 July 1997, Culham, United Kingdom. Contact person: J. Bright, phone: +44-1235-463773, fax: +44-1235-463474, email: <julie.bright@ukaea.org.uk>.

23rd International Conference on Phenomena in Ionized Gases, 17-22 July 1997, Toulouse, France. Contact person: M. Bordage, phone: +33-5-61-55-86-80, fax: +33-5-61-55-63-32, email: <icpig@cpa22.ups-tlse.fr>, website: <http://icpig97.ups-tlse.fr>.

4th International Conference on Laser Ablation, 21-25 July 1997, Asilomar Conference Center, California. Contact person: R.E. Russo, phone 510-486-4258, fax: 510-486-4260, email: <rerusso@lbl.gov>, website: <http://cola97.ornl.gov>.

Workshop on Nonneutral Plasmas, 29 July-1 August 1997, Boulder, Colorado. Contact person: John Bollinger, phone: 303-497-5861, fax: 303-497-7375, email: <john.bollinger@nist.gov>, website: <http://www.bldrdoc.gov/timefreq/seminar/plasma.html>.

International Conference on Strongly Coupled Coulomb Systems, 3-10 August 1997, Boston College, Massachusetts. Website: <http://ph99.bc.edu/conference/>.

12th International Conference on Gas Discharges and Their Applications, 8-12 September 1997, Greifswald, Germany. Contact person: G. Babucke, phone: +49-3884-554411, fax: +49-3834-554301, email: <gd97@public.inp.uni-greifswald.de>.

3rd Carolus Magnus Summer School on Plasma Physics, 8-19 September 1997, Spa, Belgium. Contact person: G. Van Oost, phone: +49-2461-615626, fax: +49-2461-613331, email: <g.vanoost@kfa-juelich.de>.

6th International Workshop on Plasma Edge Theory in Fusion Devices, 15-17 September 1997, Exeter College, Oxford, United Kingdom. Contact person: G.C. Vlases, phone: +1235-46-4552, fax: +1235-46-4905, email: <george.vlases@jet.uk>.

in conjunction with

Congratulations.” These words, from Barrett Ripin, APS Associate Executive Officer, were well received.

In 1994 approximately 200 people attended a special community open house in conjunction with the November DPP annual meeting in Minneapolis. That year Robert Heeter and Sherrie Preische (both graduate students at Princeton University) orchestrated a way for the plasma physics scientific community to reach out to the local community near the annual meeting site to share their work, their ideas, and their knowledge as a means to increase public knowledge and awareness of plasma physics and energy science research. Thus a star was born, the first DPP “Open House.” The “no admission fee” event was designed and advertised with presentation of lay-level talks near exhibit displays which provided a forum mixing the groups in the Science Museum of Minneapolis—scientists from across the nation and local students, teachers and the general public attended.

The first challenges were selecting a venue, laying out the exhibits, and selecting speakers that would communicate well with the audience. The Science Museum was selected because it offered natural advantages such as exhibit space and an auditorium. The space was arranged with general information near the exhibit entrance and the displays, video and demonstrations in the fore ground. The auditorium was available for public talks at a cost, which developed a different challenge, fundraising. Research laboratories, universities, and private corporations contributed to cover the expense.

Based on conversations with the community and the DPP members the event should continue. And the beat goes on ...

Minutes of the DPP Executive Committee Meeting

Sunday, 10 November 1996 at 2:00 PM
Adam's Mark Hotel
Denver, Colorado

Attendees

Officers:

Stewart Prager, Chairman
Richard Hazeltine, Chairman-Elect
Nat Fisch, Vice Chairman
Mary Ann Sweeney, Secretary-Treasurer
Barrett Ripin, Past Chairman

Executive Committee:

James Drake (11/96), Miklos Porkolab (11/96), Ned Sauthoff (11/96), Chan Joshi (11/97), Peter Politzer (11/97), Fred Driscoll (11/98), Barbara Abraham-Shrauner (11/98)

Divisional Councillors:

Roy Gould (1995-1998), Bill Kruer (1996-1999)

Committee Chairmen:

Herb Berk (Interdivisional & Public Affairs), Dan D'Ippolito (Local Arrangements), Richard Petrasso (Public Relations Coordinator), Douglass Post (Publication), Bill Dorland (Human Rights)

APS Representatives:

Judy Franz (Executive Officer), Barrett Ripin (Associate Executive Officer), Ramon Lopez (Education), Michael Lubell (Director of Public Affairs), Tom McIlrath (Treasurer), Michael Scanlan (Meetings Manager)

Guests:

Bruno Coppi (MIT), Donald Correll (LLNL), Mark Haynes (General Atomics), Rush Holt (PPPL), Rick Lee (General Atomics), Ronald McKnight (DOE), Mark Siegrist (EPS-PPD), Saralyn Stewart (Administrator / Newsletter Editor)

Announcement of New ExCom Members--Prager:

Incoming Officer:

Miklos Porkolab, Vice-Chairman

Incoming Members:

Samuel Cohen (11/99)
Walter Gekelman (11/99)
Martin Lampe (11/99)

The meeting was called to order at 2:10 PM by Stewart Prager, the DPP chairman, who began by announcing the DPP election results: Miklos Porkolab (MIT) for vice chairman; Samuel Cohen (PPPL), Walter Gekelman (UCLA), and Martin Lampe (NRL) for new Executive Committee members.

Executive Committee Minutes--Sweeney

The minutes from the 2 May 1996 ExCom were approved.

Secretary-Treasurer Report--Sweeney

Because of difficulties the Secretary-Treasurer has had with ExCom members not understanding that the Secretary-Treasurer must approve all DPP expenses and that the financial policies of the APS must be followed, she summarized the DPP financial policies. A four-page summary of APS financial policies was also distributed as well as a copy of the DPP bylaws. In particular, Mary Ann stated that requests involving the loan of DPP funds and monetary laundering (no. 5 and 6 below) had been made. Of the eight DPP financial policies listed below, the only item requiring a motion is no. 3, as the budget for the upcoming DPP meeting is at present approved at the spring ExCom meeting.

1. The Secretary-Treasurer is responsible for final approval of all expenditures of DPP funds.
2. The financial policies of the DPP cannot be inconsistent with the financial policies of the APS.
3. A budget must be prepared for each annual DPP Meeting. This budget must be approved--by motion--by the voting members of the ExCom. APS policy requires that the budget be "breakeven." Since registration fees must be set in time to publish information about the upcoming meeting in the *APS News* and in the *DPP Newsletter*, the vote on the budget must occur prior to March 1st of the year in which the meeting is being held.
4. The Secretary-Treasurer will not approve expenditure of funds retroactively. In particular, approval will not be given for expenditures after an event occurs unless the Secretary-Treasurer has approved the "concept" of the expense in advance. This applies, for example, to notifying someone that their travel will be paid without first getting approval from the Secretary-Treasurer and to changes in the meeting budget that was endorsed by ExCom, such as expenses for a new item not in the budget.
5. Use of DPP funds to make loans is explicitly prohibited.
6. Use of the DPP financial entity for "money laundering"--that is, to disguise the true source of funds--is expressly forbidden.

7. Only under very exceptional circumstances will travel expenses be prepaid.

8. The Secretary-Treasurer is required to make a report of the Division finances at each Executive Committee Meeting.

Because the budget is traditionally voted on at the spring ExCom meeting, which is too late for the first announcement of the DPP meeting in the *APS News*, Mary Ann asked that a motion be made to have the budget approval occur earlier. The difficulty with determining the budget is that allowable expenses depend critically on the number of attendees, since meeting income is derived from the registration fees. Typically, the assumption made in arriving at a breakeven budget is that attendance may be as much as 10% lower than the past year. The rule of thumb is that the DPP treasury should contain funds equal to the cost of the annual meeting, which currently is about \$250,000. (Total income for DPP95 was \$256,253; total expenses were \$265,808.) **A motion was made** (Hazeltine, Sauthoff) to have voting members of ExCom approve the budget for each DPP meeting in mid February of the year in which the meeting will be held. Voting members of ExCom would be notified by electronic mail or fax of the proposed budget. The previous year's budget (i.e., an itemized list of income and expenses) will be included for comparison. A conference call will be held to complete the voting. **The motion was approved.**

Total DPP assets as of September 30, 1996 were \$224,000. Expenses not reflected on the September 30 statement include: production and printing of the brochure "The Pervasive Plasma State" and \$1000 donated to the Nicholson Fund in honor of Jim Glanz, author of the brochure text and a former student of Dwight Nicholson. Because of additional meeting expenses that will not be covered by the registration fee this year, the end of the year assets are expected to be lower. These extra expenses include \$12,000 to bus attendees to the three outlying hotels, payment of travel expenses for two FSU scientists, busing students to the Open House, and 30 more *Bulletin* pages.

Interaction with Plasma Physics Division of EPS--Siegrist

Mark Siegrist represented the Plasma Physics Division (PPD) of the European Physical Society (EPS) at ExCom. He is disappointed that no one represented DPP at the July Program Committee Meeting of the PPD. Stewart Prager had asked Gerry Navratil to represent him, since he was attending the July EPS conference. Stewart said it was difficult for him to attend all three PPD Program Committee meetings in Europe. Nat Fisch, as chairman of the DPP97 Program

Committee, will represent DPP on the PPD Program Committee in 1997. In the future, the chairman of the DPP Program Committee or an appointed representative will be more diligent about attending the most important Program Committee meeting, the one associated with the July EPS conference.

DPP Meeting Announcements--Stewart

Saralyn Stewart reviewed proposed deadline dates for the 1997 meeting (invited nominations, abstract submissions, etc.). These dates are driven by the meeting date and fixed by APS deadlines for the publication of the *APS News* and the *Bulletin* that includes the abstracts. This year, 93% of the abstracts were submitted electronically. Because of a special, one-time suggestion by Fred Driscoll, DPP paid a secretary to input the remaining 7% of abstracts electronically.

Interdivisional and Public Affairs--Berk

Herb reviewed activities of the subcommittee: the Open House, Science Teacher's Day, compilation of ten important plasma physics research problems, and the brochure, "The Pervasive Plasma State." The brochure were designed, prepared, and printed at a cost of about \$14,000 for 10,000 copies. Extra copies are available for a nominal shipping and handling fee by contacting Saralyn Stewart. There will be another printing. Copies are being distributed to the Denver community via the Open House and the Science Teacher's Day. Pete Politzer **made a motion**, seconded by Hazeltine, to thank Herb and his committee for the excellent effort on the brochure.

Public Relations Coordinator--Petrasso

Richard Petrasso approached *Physics Today* with two suggestions for articles--non-neutral plasmas and Rayleigh-Taylor instabilities in astrophysics and in the laboratory. He provided names of potential authors, but has not been successful in getting *Physics Today* to commit to the two articles, and about 7 months have now passed. Richard Hazeltine will contact Barrie Ripin about this; Richard said an alternative might be publishing the articles in *Review of Modern Physics*. The DPP contribution to the *AIP Physics News* for 1996 will include new results from Omega and tokamak reverse shear transport.

Concerns of Young Scientists--Scime

Earl Scime's written report summarized plans for the DPP96 miniworkshop on career opportunities in plasma physics, which will feature plasma physicists working in industry: one from a small company, one from a large company, one who has formed his or her own company, and one who works in industry but not in plasma physics. A panel format similar to DPP95

will be used, followed by a question and answer period.

Proposed Plasma Fusion Coalition--Haynes

Mark Haynes (General Atomics) described an effort to create a coordinated, community-wide, fusion-related outreach effort to the general public (rather than other scientists), the media, the educational community, and environmental organizations with respect to support for fusion science and plasma physics. The purpose of this outreach is not to interact with Congress. Those currently involved in establishing this effort include Prager and Hazeltine (representing DPP), University Fusion Associates, the Institute for Fusion Studies at The University of Texas at Austin, PPPL, LLNL, LBL, and the plasma processing community. The effort is intended to be long term, will take advantage of the capabilities of existing scientific institutions, and will include development of informational materials, a media strategy, a 1-800 information line, and perhaps a web site. A meeting in a few weeks in Washington will consider a name for the group. Mark Haynes requested from DPP ExCom formal endorsement/sponsorship of the activity.

Mike Lubell, APS Director of Public Affairs (OPA), expressed concern about creation of the coalition, since it is his perception that all of physics must have better outreach to the public and the media. He believes what is really needed is communication with public schools, elected officials, and Congress. This can be accomplished through the activities of the OPA and devices such as the American Institute of Physics (AIP) pamphlets on exciting areas and advances in physics.

Additional discussion of the request dealt with whether a coordinated effort was necessary, whether uniting behind a common message was a good idea, and whether APS would approve DPP's association with the effort. **A motion was made** (Hazeltine, Politzer) to delegate someone to seek permission from APS for DPP to participate. **The motion passed** with 7 in favor, 1 opposed, and 3 abstentions. Hazeltine will seek permission from APS.

Plasma Colloquium Funding--Shrauner

Barbara Shrauner proposed that travel expenses for colloquia speakers on plasma research be funded by the DPP. The idea for the proposal comes from existing APS Travel Grant Programs for women and minority speakers and the distinguished lecturers funded by IEEE societies. Institutions at which talks would be given are not necessarily limited to academic ones. Two options are:

1. DPP maintains a list of speakers and funds a Travel Grant Program at \$5000 to \$10,000 per year. Host academic institutions would apply for grants of up to \$500 for one speaker per year.
2. DPP selects one (or two) distinguished lecturers per year who can give good talks to non-plasma physicists and gives each \$5000 for travel expenses. Host institutions would invite the lecturers, who would pay travel and expenses from appropriated funds.

Ron McKnight of DOE asked Barbara to send a brief proposal with accompanying information to him so that he can provide informal advice. Barbara will head a small group with Pete Politzer and Miklos Porkolab to do this. The proposal would then be submitted by DPP to DOE to get funding support.

DPP96 Program Committee--Hazeltine

Total abstracts for 1995 were 1423; the total for 1996 is about 1400. Some Program Committee members did not attend the July meeting in Austin because DPP does not provide travel assistance.

A proposal was made to alter the invited speaker rule with respect to the time interval that must lapse before the same individual can give an invited talk, since there is confusion about whether this is a "skip-two" or a "skip-three" rule. Stewart Prager will develop a **revised version of the motion** that clearly states this is a "skip-two" rule. The revised version, as submitted by Stewart on December 8 is as follows: "An individual may present an invited or review talk (exclusive of special sessions or evening symposia) at the annual DPP conference no more than once every three years; i.e., two years must intervene between two invited or review talks presented by the same person. Exceptions may be granted by the chair of the Program Committee."

Eugene Tracy had asked about videotaping invited talks for replay later during the conference. ExCom decided not to do this; the invited poster session and the *Physics of Plasmas* special issue are felt to be sufficient for this purpose, in view of the cost of videotaping talks and the difficulty of obtaining a good result by taping author-produced visuals.

Report on APS Committee on Education--Correll

The following resolution is being presented to the APS Council at the request of the Committee of Education in conjunction with the Forum on Education: "Whereas, the forums were established to address issues that impact all physicists; whereas, these common issues are the glue that binds the physics community together; and whereas, APS members who attend meetings of the APS are there primarily to

present research results within their respective Divisions and Topical Groups, and thus important work and developments in overarching issues are not presented to the membership: The sense of the Council is that members of the APS be allowed to present two contributed and two invited papers at an APS meeting provided that the second paper in each case deals with issues of broad concern to the physics community and that it is presented in a session sponsored by one of the Forums, the Committee on Minorities, or the Committee on the Status of Women in Physics, where said session has been explicitly approved as an exempt session by the appropriate program committee and/or program committee chair upon the advice of the Executive Officer of the APS. Council recommends to the Committee on Constitution and Bylaws that the relevant section of the bylaws dealing with contributed papers as part of the regular program at an APS meeting be amended to allow this." Note that the resolution had not been formally considered by the APS Council at the time of the DPP meeting.

Richard Hazeltine **made a motion**, seconded by Nat Fisch, that DPP strongly supports the resolution. **The motion passed.** If the APS Council resolution is passed [Ramon Lopez informed us later in the meeting that this occurred], this would allow the author of a professional paper to also be first author on an educational outreach paper with sponsorship from the Forum on Education of, for example, our educational outreach poster session. However, if APS Council does not endorse the resolution, DPP cannot have a rule separate from APS requirements.

1996 Local Arrangements Committee--D'Ippolito

The 1100 rooms booked peak night in Denver exceeded our projections, which were motivated by the pessimistic Federal budget outlook a year ago, and more attendees wished to stay in the conference hotel. The end result was that 225 people did not have rooms after the blocks at Adam's Mark and the Holiday Inn were filled. Three additional hotels were added in the last two weeks before the meeting to accommodate the attendees, and bus transportation was arranged for five hours each morning and evening to these hotels. All guest rooms and most meeting rooms in the conference hotel have been renovated and a temporary exhibit hall is being used for the poster sessions. Dan D'Ippolito said that the phenomena of two symposia each evening and of "box lunches" on Monday and Tuesday place an extra burden on the DPP meeting organizers and DPP finances. In addition, scheduling meetings at meal times detracts from the ambiance of the meeting for attendees. He recommended not continuing either practice.

Science Teacher's Day--Correll

On Tuesday 150 teachers from the Denver area will attend to learn about plasma physics, receive educational materials, and attend the educational outreach and undergraduate poster sessions. Much of the increased activity is because of the presence of General Atomics in Denver. (Last year there was no Science Teacher's Day because Louisville teachers could not get time off from the classroom.) Institutions that make significant contributions to this outreach activity, now in its ninth year, include LLNL, General Atomics, PPPL, and MIT. For next year in Pittsburgh, the Science Teacher's Day will be coordinated with Westinghouse and the Carnegie Science Center.

APS Meetings Department--Scanlan

Michael Scanlan asked that a subcommittee review the division of meeting tasks between the Meetings Department and Saralyn Stewart. A subcommittee composed of Dan D'Ippolito (chairman), Mary Ann Sweeney, Richard Hazeltine, Stewart Prager, and Nat Fisch will meet during DPP96 and make a recommendation. [Secretary's note: The subcommittee met Thursday, 14 November and decided that the Meetings Department would be in charge of satellite meeting arrangements with the hotel, as had been proposed for DPP96. The Meetings Department will now be the primary contact for people wishing to book satellite meetings. The Program Chairman will be notified by the Meetings Department and will advise as to whether the proposed satellite event has the sanction of the division. Saralyn Stewart will be in charge of activities related to the development and the administration of publishing the DPP Technical Program and the creation of the epitome.]

The meeting facilities at the Adam's Mark in Denver are essentially ideal, except that not all meeting facilities are on the same level. Typical facility requirements are: 22,000 square feet for posters, 3000 square feet for registration, 8000 square feet for the banquet, 1500-2000 square feet for the placement center, 1000 square feet for the DPP headquarters office, a speaker ready room, and 4 to 8 additional rooms, each sized about 1200 square feet.

A few ExCom members complained because the *Bulletin* is no longer available by mail and using the web version is difficult. Michael Scanlan explained that four weeks are required for delivery of second class mail and that this requirement reduces the amount of time by three weeks that is available to make changes to the program or to specific abstracts before the *Bulletin* is printed.

Travel Grant Programs--Stewart

This year DPP provided housing, a per diem, and waived the registration fees for ten scientists from the former Soviet Union under the International Science Foundation Travel Grant Program and one under the Civilian Research and Development Foundation.

APS Executive Office--Franz, Ripin, McIlrath

Judy Franz announced the appointment of new APS officers to replace Harry Lustig, the APS Treasurer, and Ben Bederson, the Editor-in-Chief of APS publications. The replacements are Tom McIlrath, who has a plasma physics background, and Martin Bloom, respectively. Judy said APS is particularly proud of the education and outreach efforts associated with our meeting. Barrie Ripin expressed great satisfaction with the new DPP brochure. Barrie is heading an APS Task Force on Career Development.

1997 APS/AAPT Joint Meeting--Holt, Fisch

Rush Holt (PPPL) attended the most recent organizational meeting for the joint meeting, which will be held Friday, 18 April to Monday, 21 April 1997. In 1997 the meeting will also be joint with the physics societies of Canada and Mexico. DPP has 1.5 slots for invited sessions, both of which are on Sunday morning. One of these is joint with the Division of Computational Physics, and the other is joint with the Division of Astrophysics. There is, as always, concern about attendance at the General Meeting by those not giving invited talks and the scheduling problem because of the large number (six to seven) of concurrent invited sessions. Barrie Ripin mentioned a change in the meeting character, with the development of focused sessions that include one or two invited talks and the rest contributed, a possible reduction in the number of invited papers, and an emphasis on plenary talks.

Plasma Astrophysics Working Group--Coppi

Bruno Coppi asked how the working group can be involved in the choice of symposia and invited sessions for the APS/AAPT Spring Meeting. Stewart told him to contact Nat Fisch for 1997 and Miklos Porkolab for 1998. The contact should be made early, about six months prior to the Spring Meeting.

1997 Meeting Budget--Scanlan, Sweeney

The APS Meetings Department fee for DPP97 will be the same as this year--\$25,000, partially because of the decrease in department personnel. Total expenses (excluding the sleeping room subsidy) are expected to be about \$180,000 in Pittsburgh. This includes \$7000 for rental of the convention center, \$140 per page for the *Bulletin* (the amount of this charge is tentative), and an increase of 10% in audiovisual costs. Big-ticket items not included yet are the room subsidy,

placement center, and travel support for foreign speakers. Mary Ann summarized DPP attendance since 1986. The attendance is an important factor in setting the registration fees so that the meeting is breakeven. In 1987 in San Diego, attendance was a high of 1880. Since then, attendance has decreased, with the sharpest decrease occurring in 1990 in Cincinnati, except for an increase to ~1500 in Seattle in 1992.

Change in Abstract Deadline for DPP--Drake

Jim Drake has not had time to look into this, but will work on it for the next ExCom Meeting. Barrie Ripin asked to be informed of when this is discussed, since a decision would impact APS planning for the meeting and publication of the DPP announcement in *APS News*.

Proliferation of Plasma Physics and Fusion Meetings--Prager/Hazeltine

A motion was made (Hazeltine, Politzer, with friendly amendment by Jim Drake), based on a proposal by Rip Perkins, urging the plasma physics community to reduce the number of meetings. The sense of the motion is that the DPP ExCom believes the number of professional meetings related to plasma physics has a detrimental effect on scientific research. **The motion passed**, with 6 in favor and 4 opposed.

Travel to DPP Program Committee Meeting in July--Driscoll

Fred Driscoll **introduced a motion** to have the travel of Program Committee members paid from DPP funds. The purpose of the motion is to encourage participation of non-mainstream plasma physicists in the Program Committee. The additional cost to DPP would be about \$6000, which would come from increased registration fees. In addition, under current federal guidelines, it can be difficult to charge such travel to research grants. During discussion of the proposal, concern was expressed about the precedence that such funding would set, whether someone could legitimately use research funds for travel to the meeting, and whether there is such a thing as "non-mainstream" plasma physics. **The motion** (Driscoll, Hazeltine) **failed**.

Travel Support and Waiving Registration Fees--Hazeltine

The decision on travel support requests was not done in a controlled way in 1996, although an attempt was made to make these decisions by early September. A total of 25 registration fees were waived (10 from fSU). The number of fees waived and the total amount spent for travel support need to be separately limited.

A motion was presented by Hazeltine to have ExCom set a specific limit on the total dollar support and the number of registration fees that can be waived in order to make the process more formal, rigid, and disciplined. It was decided not to vote on the motion, but to instead consider this issue as part of the budget preparation and discussions to be completed in February (*See 1997 Meeting Budget, above.*)

Barrie Ripin said a donor had established a member assistance fund for recent emigres to pay their registration fees and APS membership. Contact Barrie for details.

Annual Open House--Lee, Correll

Don Correll and Rick Lee described the Science Teacher's Day and the Open House. The Open House includes more than 20 exhibits. The exhibits are not limited to fusion and plasma science. Universities, schools, libraries, and chambers of commerce in the Denver area were notified about the Open House. The effort on the Open House was spearheaded by Rick Lee and Carol Danielson of General Atomics.

Don Correll asked DPP to pay for the Contemporary Physics Education Posters to be supplied to the teachers on Tuesday. Don Correll would supply a check from LLNL to reimburse DPP for this expense, since LLNL cannot purchase the posters directly from Science Kit. Mary Ann Sweeney was concerned that this violated APS financial policy and stated that this had been confirmed by Harry Lustig, the current APS Treasurer. **A motion was made** by Richard Hazeltine **and passed** to have Barrie Ripin discuss this with the incoming APS Treasurer, Tom McIlrath.

Human Rights--Dorland

Li-Zhi Fang will receive the 1997 Nicholson Award at the 1997 APS/AAPT Joint Meeting. The memorandum of understanding with the Chinese Physical Society is likely to lapse; the Committee on International Freedom of Scientists (CIFS) is pleased by that. A geophysicist at The University of Texas at Austin applied to CIFS for help with his case, after being fired and denied due process.

Educational Outreach Activities--Lopez

Ramon Lopez commended DPP for its educational outreach activities and would like other divisions to engage in such activities. Don Correll agreed to prepare a package of information on educational outreach as a "lesson plan" for Ramon Lopez that he can then distribute to other APS divisions. The APS Committee on Educational Outreach pays for meals at the Science Teacher's Day; DPP pays for the SEEP (Students to Explore and Experience Physics)

activities for students. Monies being raised by the "Campaign for Physics" are aimed at education and outreach.

Ramon Lopez reported that the APS Council passed the resolution with respect to first authors giving more than one contributed and more than one invited talk if the second talk is in a session sponsored by a forum. (See Report on APS Committee on Education, above.) Therefore, an author can give an invited talk in a session sponsored by a forum and also be an invited speaker in a technical session at an APS meeting. The rule with respect to invited talks is informal, whereas the rule with respect to giving more than one contributed talk requires a change in the APS bylaws. The APS Committee on the Constitution and Bylaws is expected to resolve the issue during the April APS/AAPT joint meeting. The procedure to be followed in either case is to apply for sponsorship of a session by a forum; if sponsorship is obtained, the DPP can then declare talks in that session "exempt" from the one invited and one contributed paper rule.

DPP Membership --Sweeney

As of October 1, 1996, there were 1999 members (6.25% of APS members); as of November 2, there were 2078 DPP members (5.93% of APS members). To maintain our second councillor slot, we need to have 6% of the total APS membership at the end of 1997. The greater our percentage of the APS membership, the greater the number of DPP fellow slots as well.

New APS Fellows--Fisch

There are 14 new fellows out of the 54 nomination packages submitted. Two attained fellowship through the Forum on International Physics. Nat Fisch emphasized that nominations through the FIP must be submitted in a timely fashion by the Chairman of the DPP Fellows Committee. [Note: The 1997 FIP deadline date is April 1.]

Publications--Post

A new associate editor of *Physical Review* is needed to replace John Cary and Paul Bellan. The majority of submissions to the journals are now by foreign authors, and more foreign referees are being sought. *Nuclear Fusion* is now breaking even via subscriptions without support from IAEA. APS is moving aggressively toward electronic publishing and is establishing an electronic eprint server. The DPP96 papers scheduled for *Physics of Plasmas* may be placed on the eprint server if approved by Ron Davidson, the editor, and by the authors. The Ginsparg preprint server at LANL has not been successful for plasma physics because manuscripts must be

submitted in LATEX. The number of submissions to *Physics of Plasmas* has increased, but there is still a dearth of experimental ones. AIP is considering a magazine on plasma physics. Categories would include fusion science and technology, plasma processing, space, astrophysics, fluids, and engineering. A survey was sent to 1600 members and AIP is evaluating the 170 responses received. Also under consideration is an all-electronic, weekly APS magazine that would cover all fields of physics in a popular format and would be jointly funded by APS and AIP. There would be five to eight articles a week, based on a condensed rewrite of papers in APS and AIP journals, somewhat like the front section of *Science* magazine. A replacement is being sought for John Sethian, who has assembled lists of plasma physics theses for the *DPP Newsletter* for the last six years. Richard Hazeltine will send a note of thanks to John for his efforts on this.

1999 APS Centennial Celebration--Drake

It is important that DPP have strong interactions with the general physics community at the APS Centennial Celebration in Atlanta on Saturday and Sunday in conjunction with the APS/AAPT Joint Meeting, 20-26 March 1999. Jim Drake is on the committee for the Centennial Celebration, as DPP's representative. Names of potential invited speakers and national and international guests are being developed. Divisions are to submit names of potential speakers for up to three symposia per division, speakers and topics for a speakers booklet, and national and international figures. A significant number of plasma physicists (say, 300) should attend and give papers. This is an excellent way for plasma physicists to interact with other physicists and convince them that the physics we do is interesting; just developing three symposia will not be enough. Bill Kruer reported that Andy Sessler would like to see DPP participate in/sponsor an Open House during the centennial. Discussion included whether the Sherwood meeting could meet in conjunction with the Centennial Celebration and whether the fall 1999 DPP meeting should be changed because of the Centennial. DPP has not yet responded with lists of potential topics, invited speakers, symposia on 20th century physics, and names for the speakers' bureau; the overall meeting will be scoped out in mid-January 1997, so our recommendations and suggestions must be made before then. A subcommittee will be assembled by Jim Drake and Richard Hazeltine to consider the specifics of how DPP can best contribute to the 1999 APS Centennial Celebration.

DPP Nominations for APS Committees--Prager

These nominations are due in mid-January. ExCom and DPP members are urged to nominate good candidates for positions on APS-wide committees. Nominations can be sent in individually by members and can also be made through the division by contacting Richard Hazeltine.

Proposed Topical Group on Low Temperature Plasma Physics--Ripin

The proposed group has obtained sufficient signatures to petition to become an APS topical group. The topical group name has not been selected yet. Nat Fisch will write to Norm Bardsley concerning formation of the group and ask whether they might colocate their meeting with DPP.

Plasma Physics Representative for IUPAP--Porkolab

Miklos Porkolab reported that Noah Hershkowitz is the new member of Commission 16 (Plasma Physics) of the International Union of Pure and Applied Physics (IUPAP). A summary of the international status of plasma science during the last three years was prepared by the commission. Miklos will send a copy of this summary to Richard Hazeltine; Richard will then distribute it to the DPP ExCom.

Maxwell Prize Update--Ripin

No changes have occurred to the Maxwell Prize with respect to relaxing the prize restriction on recipients to include non-US researchers or with respect to altering the funding level, now that Alan Kolb has left Maxwell.

Simon Ramo Award--Politzer/Ripin

1996 is the last year for TRW funding of the Simon Ramo Award. General Atomics will fund a new award titled "Outstanding Doctoral Thesis in Plasma Physics," for the next five years. There is discussion ongoing at General Atomics to endow the award.

Policy on Special DPP Awards--Prager

Consideration of honoring, with special recognition, a group that had been nominated but did not receive a DPP award was discussed, based on a letter sent to Stewart Prager from the Excellence in Plasma Physics Subcommittee. It was decided not to do this.

Reciprocity with Societies--Sauthoff/Ripin

Barrie Ripin said that APS was unlikely to allow domestic (i.e., U.S.) members of other societies to be affiliate members of an APS division because of the loss in dues revenue expected. If allowed, this would be in a sense similar to what IEEE allows with respect to, for instance, the Nuclear and Plasma Science

Society (NPSS). The affiliate member in the case of NPSS can vote and pays the member registration fee, but cannot hold office. There is a serious proposal to allow affiliate membership for foreigners. With this membership, they would pay member rates for registration (this is already available to members in certain foreign societies) and get *Physics Today*.

APS Councillor Report--Kruer

Because of the excellent performance of the stock market this year, the APS "made" \$4 million on its investment fund.

Site Selection Committee--Sweeney, Kruer

An informal electronic mail survey of ExCom members was conducted and the following sites were suggested for 2000: Albuquerque, Atlanta, Baltimore, Boston, Charleston, Charlotte, Madison, New York, Oakland, Orlando, Providence, San Antonio, San Diego, San Francisco, Vancouver, and the Washington, DC area. For their sanity, Mary Ann and Bill do not plan to travel to more than 4 or 5 sites. The ExCom was asked their opinion of having the meeting in the first or second week of December since sleeping rooms in Atlanta, Baltimore, Boston, and Washington, DC may be too pricey in October and November. The ExCom did not favor the idea. The number of potential sites was shortened to Albuquerque, Boston, Madison, New York, Orlando, San Antonio, and San Francisco.

Use of Electronic Mail to Send Communications to DPP Members--Sweeney

In several instances since the May 1996 ExCom meeting, the Secretary-Treasurer has been asked to authorize use of the DPP email address list to send messages to the ~75% membership with electronic mail. An interim policy was adopted, which is formalized by **the following motion** (Sweeney, Hazeltine): "The policy of the Division of Plasma Physics concerning use of the email addresses of our members is as follows. We do not want our members to perceive that the electronic mail that they receive from us is lengthy and unrelated to their interests. If an item is very short and is determined to be pertinent to the objectives of the DPP, such a message will be allowed. We prefer that non-DPP meeting announcements be advertised either in the *DPP Newsletter* (in this case, by providing the meeting name, dates, location, and a person to contact) or at the annual DPP meeting itself on one of the message boards or tables provided." **The motion passed.**

Report of DPP Elections--Sweeney

The fraction of members voting was typical, 24%. Twenty-two of the 607 ballots were invalid: 18 had no

that the DPP chairman has a seat on FESAC (the Fusion Energy Science Advisory Committee). Harold Weitzner said it is important for the division to be a scientific society rather than a lobbying organization.

Mary Ann Sweeney summarized the financial policies of DPP, the current state of the division assets, and the trend in DPP attendance. In 1987 in San Diego, attendance was a high of 1880. Since then, attendance has decreased, except for an increase to ~1500 in Seattle in 1992. Future meeting sites are Pittsburgh in 1997, New Orleans in 1998, and Seattle in 1999. Possible sites for 2000 include Albuquerque, Boston, Madison, New York, Orlando, San Antonio, and San Francisco.

The meeting was adjourned at 6:15 PM

Respectfully submitted,
Mary Ann Sweeney
Secretary-Treasurer

**Recent Ph.D. Theses Related to Plasma Physics
December, 1995 to November, 1996**

Compiled by: John D. Sethian, DPP Publication Committee

Dissertations may be ordered from:

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APS-Division of Plasma Physics Newly Elected Fellows

(December 31, 1996)

Claude Deutsch—Universite Paris XI, FRANCE

For seminal contributions to plasma spectroscopy, to strongly coupled plasmas and to ion-plasma interactions, and for leadership in Europe in promoting the experimental verification of enhanced ion stopping in dense plasmas.

Eric Hans Esarey—Naval Research Laboratory

In recognition of his seminal scientific contributions to the physics of intense laser-plasma interaction.

Walter Gekelman—University of California, Los Angeles

For a unique, original program of complete and definitive diagnostic studies of magnetic field reconnection and current disruptions in plasmas, achieving major advances and linking space and laboratory plasma physics.

Kenneth W. Gentle—University of Texas at Austin

For his pioneering experiments on wave-particle and wave-wave interactions which have illuminated the fundamental nonlinear phenomena in collisionless plasmas, and for his leadership in the development of experiments which directly measure the fundamental processes of transport in Tokamak plasmas.

Ronald Matthew Gilgenbach—University of Michigan

For pioneering experimental research on electron cyclotron resonance heating in a tokamak, preionization by gyrotrons, electron beam transport and instabilities, and diagnostics of laser-ablated plasmas.

Bruce A. Hammel—Lawrence Livermore National Laboratory

For measurements and understanding of x-ray driven implosions, x-ray driven hydrodynamic instabilities and x-ray drive asymmetry.

William Walter Heidbrink—University of California, Irvine

For quantitative studies of the confinement and thermalization of fast ions in tokamak plasmas and for discovery of several fast-ion driven instabilities.

Michael A. Liberman—Uppsala University, SWEDEN

For outstanding contributions ranging from laboratory plasma experiments to astrophysical phenomena, particularly in the areas of ionizing shock waves, Z-pinches, flame stability, and laser-produced plasmas.

Christof Litwin—University of Wisconsin

For fundamental contributions in fusion, space and ion diode physics, ranging from ponderomotive force effects on macrostability in tokamaks and mirrors to energy transport in the solar corona.

Yitzhak Maron—Weizmann Institute of Science, ISRAEL

For pioneering the employment of novel spectroscopic methods to diagnose the field and plasma properties in pulsed-power systems, including the development of the atomic-physics modeling required for the data analysis.

Harry E. Mynick—Princeton Plasma Physics Laboratory

For major contributions to the understanding of transport in toroidal systems, including nonaxisymmetric and turbulent transport of thermal and energetic particles in tokamaks and stellarators.

Y-K. Martin Peng—Oak Ridge National Laboratory

For the development of the low aspect ratio "spherical" tokamak concept.

Laurance J. Suter—Lawrence Livermore National Laboratory

For pioneering work and leadership in the design, modeling, and analysis of experiments using laser heated hohlraums that quantify and control x-ray drive, symmetry, and pulse shaped implosions.

Marthe Bacal Verney—Laboratoire de Physique des Millieu Ionises, FRANCE

For her study of negative ion production in hydrogen plasma and the associated development of laser photodetachment diagnostics, and for the development of the volume H-source for neutral beam injection and other applications.