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go to www.aps.org/fellowship/nomination_form
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Meeting—Sunday, 15 November 1998

Minutes of the DPP Business Meeting—
Wednesday, 18 November 1998

Minutes of the DPP Special Meeting—
Thursday, 19 November 1998

Minutes of the DPP Executive Committee
Meeting—Monday, 20 April 1998

1998 Newly Elected APS Fellows and Citations

Important Deadlines for your Calendar—1999

- Centennial Meeting (Mar 20-26 in Atlanta)
- 41st Annual Meeting (Nov 15-19 in Seattle)

DPP web site
w3fusion.ph.utexas.edu/aps

Note from the Chair

Having recovered from the exhausting task of organizing the New Orleans APS-DPP meeting, I am happy to say that thanks to Jim Drake and his new program committee, the program planning for the DPP participation in the Atlanta Centennial APS meeting has been completed. Regarding statistics, it is gratifying to note that more than 1500 members attended the New Orleans meeting last November, up 200 from the year before in Pittsburgh. The high attendance made the New Orleans meeting one of the

best in recent years. Was the large attendance in New Orleans the result of the after-hours excitement offered by that city, or the replacement of the banquet speaker by a local jazz-band, or the new meeting format introduced the previous year by Nat Fisch? You may recall that Nat broadened the scope of the meeting by including tutorials and mini-conferences, a practice I continued in 1998. Presumably a combination of all of the above contributed to the success of the meeting. Based on last year's survey, I believe that the membership gave an overwhelming approval to the new format. In spite of the severe budget cuts in the magnetic fusion area a few years ago, plasma physics is alive and well, and it remains a vigorous scientific activity with a bright future! Undoubtedly the discipline owes its vitality to the unique way it encompasses both fundamental science and a large variety of exciting applications.

Besides its exciting scientific content, the meeting was a great success in the educational outreach area, including Science Teachers' Day, which was attended by more than 130 teachers, and the Plasma Sciences Expo, which was attended by 3200 school children and their teachers! Special thanks go to Paul Rivenberg of the MIT PSFC who was the lead organizer of this year's program, but we also owe thanks to the many volunteers from GA, LLNL, PPPL, ORNL, DOE, NASA and many other institutions who contributed so much to the success of this effort. Carol Danielson's (GA) efforts in overseeing the Expo were especially noteworthy. I hope that you had a chance to drop by the Expo and observe the excitement of hundreds of kids as they were being introduced to the wonders of plasma science, or as they watched "Mr. Magnet" launching Garfield into space by repulsive magnetic forces. Without any doubt, the educational outreach program of DPP has become the paradigm for other APS units.

In Atlanta plasma physics will be well represented, with the annual Sherwood meeting (typically attended by up to 300 people) to be held simultaneously with the Centennial Meeting. This annual conference of magnetic confinement fusion theorists has been expanded this year to include general DPP talks and posters, including both experiment and theory. This will assure that the Centennial Meeting in Atlanta will be attended by hundreds of additional plasma physicists.

Continue on page 3.

**Call for Nominations for 1999 APS Fellowship
Deadline: Thursday, 1 April 1999**

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, or can be downloaded from http://aps.org/fellowship/nomination_form.html. The original nomination package should be sent to the Associate Executive Officer, Fellowship Program at APS (see address below), along with a cover letter stating that a copy has also been sent to Allen Boozer, DPP Vice-Chair (see address below):

<p>Original:</p> <p>Fellowship Program American Physical Society One Physics Ellipse College Park, MD 20740-3844 301-209-3268</p>	<p>Copy:</p> <p>Allen Boozer Columbia University, Department of Applied Physics 500 West 120th Street, Room 202 New York, NY 10027 212-854-4785</p>
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Deadline for receipt of the nomination package is: Thursday, 1 April 1999.

The nomination package should consist of 20 single-sided pages or less containing:

- (1) a completed nomination form
- (2) supporting statements or letters from two sponsors (it is recommended that the sponsors be Fellows)
- (3) a citation limited to 30 words
- (4) a list of the nominee's refereed publications, include four most notable (This may be in compressed, but readable, form.)

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. 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. A list of DPP members holding Fellowship rank is on the APS home page at <http://aps.org>.

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 DPP Annual Meeting.

1999 Fellowship Committee

Allen Boozer, <i>Chair</i>	Columbia U.	212-854-4785
Hector Baldis	LLNL	510-422-0101
Amitava Bhattacharjee	U. Iowa	319-335-3744
John Cary	U. of Colorado	303-492-1489
Jack Davis	NRL	202-767-3278
Raymond Fonck	U. Wisconsin	608-263-7799
Rodney Mason	LANL	505-667-5524
Ronald Waltz	General Atomics	609-455-4584

(A Fellowship Nominations form can be printed from the APS home page, go to <http://aps.org>.)

Note from the Chair

Continued from page 1.

The DPP Program Committee has organized seven invited sessions (three of them are joint DPP/Sherwood sessions), plus one of the 34 general Centennial symposia with 6 invited speakers, covering some of the most exciting current research topics in plasma physics. It is also gratifying that the DPP membership has submitted a large number of contributed papers so soon after the New Orleans meeting. As a result, there will be plasma physics presentations all week, March 22-26.

At the Centennial Meeting we will have an excellent chance to meet with our non-plasma physics colleagues and tell them about some of the exciting research we are doing in plasma physics, and also learn more about their work. I hope that this will be a positive interaction and that it will catalyze new directions of research for plasma physicists. A positive experience in Atlanta should give us a strong incentive to reconsider the motion whether DPP should become part of a Fall APS General Meeting in the future. I will certainly do my share to explore such opportunities with officers of other interested APS Units. Undoubtedly, the coming year will be full of important events, including numerous reviews and workshops and I look forward to working with many of you to further strengthen our discipline of plasma physics. Meanwhile, our annual membership drive is on, so do not forget to ask your colleagues and graduate students to join the Division of Plasma Physics if they have not already done so. We are always at the borderline of having barely enough members to retain both of our Councilor positions.

Miklos Porkolab
1999 DPP Chair

Call for Nominations for Prize and Awards

The DPP solicits nominations for one prize, two awards and one medal annually. The deadline for receipt of these nominations is **Thursday, 1 April 1999**. Please take the time to nominate deserving colleagues.

Any APS member other than a member of the committee making the selection may submit one nomination or seconding letter for the prize and for each award in any given year. A nomination should include:

- (1) a letter of not more than 1,000 words evaluating the nominee's qualifications, designating the particular features of the prize or award and identifying the specific work to be recognized,
- (2) a biographical sketch,
- (3) a current list of recent publications,
- (4) two or three seconding letters and up to five reprints or preprints.

The nomination must be mailed to the Chair of the appropriate DPP committee by **Thursday, 1 April 1999**. Descriptions of the prizes and awards are as follows:

Note to APS-wide Nicholson Medal nominators: Supporting information for the Nicholson Medal should be developed by a primary nominator who would gather at least three letters of recommendation and a current curriculum vita of the nominee. Additional supporting letters are helpful.

James Clerk Maxwell Prize for Plasma Physics

Donated by Maxwell Technologies Incorporated.

Purpose:

To recognize outstanding contributions to the field of plasma physics.

Nature:

The prize consists of \$5,000 and a certificate citing the contributions made by the recipient. A travel allowance to attend the annual meeting at which the prize is to be presented is also provided. The prize will be presented annually during the Division of Plasma Physics banquet.

Establishment and Support:

The prize was established in 1975 by Maxwell Technologies, Incorporated, San Diego, California, in honor of the outstanding Scottish physicist, James Clerk Maxwell.

Rules and Eligibility:

The prize shall be for outstanding contributions to the advancement and diffusion of the knowledge of properties of highly ionized gases of natural or laboratory origin. This prize shall ordinarily be awarded to one person but a prize may be shared when all the recipients have contributed to the same accomplishment. Nominations are active for three years.

Maxwell Prize Chair:

Philip Morrison
 The University of Texas at Austin
 Department of Physics
 RLM 11.314
 Austin, TX 78712
 Tel: 512-471-1527
 Fax: 512-471-6715
 Email: morrison@peaches.ph.utexas.edu

Excellence Award Chair:

Charles Karney
 Princeton University
 Princeton Plasma Physics Laboratory
 PO Box 451
 Princeton, NJ 08543
 Tel: 609-243-2607
 Fax: 609-243-3438
 Email: karney@princeton.edu

Deadline:

Thursday, 1 April 1999

Committee:

Philip Morrison, <i>Chair</i>	
U. of Texas	512-471-1527
Jeffrey Freidberg, <i>Vice-Chair</i>	
MIT	617-253-8670
Michael Key	
LLNL	510-424-2175
Szymon Suckewer	
Princeton U.	609-258-4738
Clifford Surko	
UCSD	619-534-6880

Deadline:

Thursday, 1 April 1999

Committee:

Charles Karney, <i>Chair</i>	
PPPL	609-243-2607
Earl Marmor, <i>Vice-Chair</i>	
MIT	617-253-5455
Robert Cauble (1998 recipient)	
LLNL	925-422-4724
David Hammer	
Cornell	607-255-3916
John Soures	
U. Rochester	716-275-3866

Award for Excellence in Plasma Physics Research

Sponsored by Friends of the Division of Plasma Physics.

Purpose:

To recognize a particular recent outstanding achievement in plasma physics research.

Nature:

The award consists of \$5,000, to be divided equally in the case of multiple recipients. Each recipient will receive a certificate citing the contributions, to be presented annually at the Division of Plasma Physics banquet.

Establishment and Support:

This award was established in 1981 with support from Friends of the Division of Plasma Physics.

Rules and Eligibility:

Nominations are open to scientists of all nationalities regardless of the geographical site at which the work was done. The award shall ordinarily be presented to an individual scientist but may be bestowed on a set of scientists, as appropriate, to honor those who make essential contributions to the cited research achievement. Nominations are active for three years.

Award for Outstanding Doctoral Thesis in Plasma Physics

Sponsored by General Atomics, Incorporated.

Purpose:

To provide recognition to exceptional young scientists who have performed original doctoral thesis work of outstanding scientific quality and achievement in the area of plasma physics.

Nature:

The award consists of \$2,000 and a certificate to be presented during the award ceremony at the Division of Plasma Physics Annual Meeting and a travel allowance to the meeting of up to \$500.

Establishment and Support:

This award was established in 1985 (originally as the Simon Ramo Award) and since 1997 is sponsored by General Atomics Incorporated under its present name.

Rules and Eligibility:

Nominations will be accepted for any doctoral student (present or past) of a college or university in the United States or for a United States' student studying abroad. The work to be considered must have been performed as part of the requirements for a doctoral degree. Also, the nominee must not have passed his or her final doctoral examination or started regular employment more than 18 months before the nomination deadline for the selection cycle in which the nomination is to be considered. Each nominee will be considered in not more than two consecutive cycles.

Doctoral Thesis Chair:

Amitava Bhattacharjee
 University of Iowa
 Department of Physics and Astronomy
 203 Van Allen Hall
 Iowa City, IA 52242
 Tel: 319-355-3744, Fax: 319-335-1753
 Email: amitava_bhattacharjee@uiowa.edu

of educational significance, or has created special opportunities for students or junior colleagues.

3. A physicist who has been a leader in the promotion of international human rights or peace, or in the promotion of international ties in science.

Nominations will remain active for three years.

Deadline:

Thursday, 1 April 1999

Committee:

Amitava Bhattacharjee, <i>Chair</i>	
U. of Iowa	319-335-3744
Linda Vahala, <i>Vice-Chair</i>	
Old Dominion U.	804-683-4968
Bruno Coppi (98 Advisor)	
MIT	617-253-2507
Walter Gekelman	
UCLA	310-206-1772
Thomas O'Neil	
UCSD	619-534-4176

Nicholson Medal Chair:

Barbara Levi
 1616 La Vista del Oceano
 Santa Barbara, CA 93109
 Tel: 805-965-3483
 Fax: 805-963-2574
 Email: bgl@worldnet.att.net

Deadline:

Thursday, 1 April 1999

Committee:

Barbara Levi, <i>Chair</i>	805-965-3483
Roy Gould, <i>Vice-Chair</i>	
CalTech	818-395-4811
Wally Manheimer	
NRL	202-767-3128
Vitaly Ginzburg (1998 recipient)	
RUSSIA	
TBA	
APS-FPS	

Nicholson Medal for Humanitarian Service

Sponsored by friends of Dwight Nicholson.

Purpose:

To recognize the humanitarian aspect of physics and physicists.

Nature:

Recognition consists of the Nicholson medal and a certificate which includes the citation for which the recipient has been recognized. It will be presented annually.

Establishment and Support:

This medal was established in 1994 by the Division of Plasma Physics and the Forum on Physics and Society.

Rules and Eligibility:

The medal is given to a physicist exhibiting extraordinary quality in one of the following areas:

1. A physicist who, through teaching, research, or science-related activities, has implemented a vision for improvement of the quality of life in our society.
2. A physicist who has demonstrated a particularly giving and caring relationship with students or colleagues, has produced works

Note: Supporting information for the Nicholson Medal should be developed by a primary nominator who would gather at least three letters of recommendation and a current curriculum vita of the nominee. Additional supporting letters are helpful.

Important dates ...

**Fellowship Nominations
 Prize / Awards Nominations
 1999 ExCom Nominations
 Thursday, 1 April 1999**

**Invited / Review Papers
 Thursday, 3 June 1999**

**Contributed Abstracts
 Friday, 23 July 1999**

Nominations for Officers of the Division of Plasma Physics

Nominations are being requested for 1999 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 Earl Scime, and paper ballots will be mailed to the DPP membership during the summer. Electronic ballots will also be accepted via the DPP Homepage.

Members nominated by at least 1% of the DPP (about 24 members) will automatically be placed on the ballot. The DPP Vice-Chair will be the Chair of the Fellowship Committee; the following year he/she will succeed to the Chair-Elect and will be the Chair of the Program Committee; and then the year after that he/she will assume the Chair of the DPP. Please mail, fax, or email nominations to the address below. Your return email address is your official DPP member signature.

Earl Scime
West Virginia University
Department of Physics
209 Hodges Hall
Morgantown, WV 26506
Phone: 304-293-3422, Ext. = 1437
Fax: 304-293-5732
Email: escime@wvu.edu

Deadline for receipt of nominations:

Thursday, 1 April 1999

Cut along this line and mail, fax, or email candidates to escime@wvu.edu.

1999 Nomination Form for Executive Committee Division of Plasma Physics

Vice-Chair (one)

Executive Committee Member (3)

Signature of APS-DPP Member

Deadline: Thursday, 1 April 1999

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 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.

Miklos Porkolab, 1999 Chair
Division of Plasma Physics

1999 Executive Committee

Chair:

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

Chair-Elect:

James Drake U. of Maryland 301-405-1471 drake@plasma.umd.edu

Vice-Chair:

Allen Boozer Columbia U. 212-854-4785 ahb17@columbia.edu

Past Chair:

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

Secretary-Treasurer:

Vincent Chan General Atomics 619-455-4162 chanv@gav.gat.com

Divisional Councillors:

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

William Kruer LLNL 925-422-5437 kruer@icf.llnl.gov

Members:

Michael Brown Swarthmore College 610-328-8648 mbrown3@swarthmore.edu

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

Joel Fajans UC, Berkeley 510-642-3872 joel@plasma.berkeley.edu

John Finn LANL 505-667-8156 finn@lanl.gov

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

Thomas Jarboe U. of Washington 505-667-2285 jarboe@aa.washington.edu

Mark Koepke West Virginia U. 304-293-3422 mkoepke@wvu.edu

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

Scott Parker U. of Colorado 303-492-3292 scott.parker@colorado.edu

1999 Appointed Committees

Program Committee for Invited and Contributed Papers

James Drake, Chair U. of Maryland 301-405-1471 drake@plasma.umd.edu

Spiro Antiochos NRL 303-767-6199 antiochos@nrl.navy.mil

Jonathan Arons UCB 510-642-4730 arons@astroplasma.berkeley.edu

Allen Boozer Columbia U. 212-854-4785 ahb17@columbia.edu

Michael Brown Swarthmore 610-328-8848 mbrown3@swarthmore.edu

Vincent Chan, *ex officio* General Atomics 619-455-4162 chanv@gav.gat.com

Donald Correll LLNL 925-422-6784 correll1@llnl.gov

Alan DeSilva U. of Maryland 301-405-4958 desilva@glue.umd.edu

Guy Dimonte LLNL 925-423-0596 dimonte1@llnl.gov

Raymond Fonck U. of Wisconsin 608-263-7799 fonck@enr.wisc.edu

Cary Forest U. of Wisconsin 608-263-0486 forest@facstaff.wisc.edu

Gurudas Ganguli NRL 202-767-2401 gang@ppd.navy.mil

John Greenly Cornell 607-255-7379 johng@lps.cornell.edu

Adil Hassam U. of Maryland 301-405-1417 hassam@plasma.umd.edu

Bill Heidbrink UC, Irvine 949-824-5398 wwheidbr@uci.edu

Noah Hershkovitz U. of Wisconsin 608-263-4970 hershkovitz@enr.wisc.edu

Michael Hesse NASA-GSFC 301-286-8224 michael.hesse@gsfc.nasa.gov

Alan Hoffman U. of Washington 425-881-7706 hoffman@aa.washington.edu

Chan Joshi UCLA 310-825-7279 joshi@ee.ucla.edu

Predhiman Kaw IPR, India 011-91-79-7864156 kaw@plasma.ernet.in

Michael Kotschenreuther U. of Texas 512-471-4367 kotsch@peaches.ph.utexas.edu

Program Committee for Invited and Contributed Papers, *continued*

Baruch Levush	NRL	202-767-0037	levush@mmace.nrl.navy.mil
Bruce Lipschultz	MIT	617-253-8636	blip@psfc.mit.edu
Ramon Lopez	U. of Maryland	301-405-2851	lopez@umd.edu
Thomas Marshall	Columbia	212-854-3116	tcm2@columbia.edu
David Meyerhofer	U. of Rochester	716-275-0255	ddm@lle.rochester.edu
Philip Morrison	U. of Texas	512-471-1527	morrison@hagar.ph.utexas.edu
Raffi Nazikian	PPPL	609-243-3504	rnazikiam@pppl.gov
Stephen Obenschain	NRL	202-767-0684	steveo@this.nrl.navy.mil
Tom Osborne	General Atomics	619-455-3479	osborne@gav.gat.com
Miklos Porkolab, <i>ex officio</i>	MIT	617-253-8448	porkolab@psfc.mit.edu
Mordecai Rosen	LLNL	925-422-5427	rosen2@llnl.gov
Edl Schamiloglu	U. of New Mexico	505-277-4423	edl@eece.unm.edu
Peter Seidl	LBL	510-486-7653	seidl@lbl.gov
Rick Spielman	SNL	505-845-7470	rbspiel@sandia.gov
Loren Steinhauer, <i>ex officio</i>	U. of Washington	425-881-9380	steinhauer@aa.washington.edu
Henry Strauss	NYU	212-998-3268	strauss@cims.nyu.edu
Gary Swanson	Auburn U.	334-844-4677	swanson@physics.auburn.edu
Michael Tandler	Alfven Lab, Sweden	011-468-7907709	tandler@fusion.kth.se
Masahiro Wakatani	Kyoto U., Japan	011-81-774-329297	wakatani@energy.kyoto-u.ac.jp
Ed Williams	LLNL	925-423-4728	edwilliams@llnl.gov
Michael Zarnstorff	PPPL	609-243-3581	zarnstorff@pppl.gov

Local Arrangements for Seattle, Washington Annual Meeting

Loren Steinhauer, <i>Chair</i>	U. of Washington	425-881-9380	steinhauer@aa.washington.edu
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Newsletter Editor, Program Administration, and Home Page

Saralyn Stewart	U. of Texas	512-471-4378	stewart@physics.utexas.edu
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Public Information Committee

Bruce Remington, <i>Chair</i>	LLNL	925-423-2712	remington2@llnl.gov
Jeff Colvin	LLNL	925-422-3273	colvin5@llnl.gov
Richard Hawryluk	PPPL	609-243-2749	rhawryluk@pppl.gov
Glen Wurden	LANL	505-667-5633	wurden@lanl.gov

Fellowship Committee

Allen Boozer, <i>Chair</i>	Columbia U.	212-854-4785	ahb17@columbia.edu
Hector Baldis	LLNL	925-422-0101	
Amitava Bhattacharjee	U. of Iowa	319-335-3744	
John Cary	U. of Colorado	303-492-1489	
Jack Davis	NRL	202-767-3278	
Raymond Fonck	U. Wisconsin	608-263-7799	
Rodney Mason	LANL	505-667-5524	
Ronald Waltz	General Atomics	609-455-4584	

Publication Committee

John Cary, <i>Chair</i>	U. of Colorado	303-492-1489	cary@colorado.edu
Bruce Cohen	LLNL	925-422-9823	
Steve Eckstrand	DoE	301-903-5546	
David Forslund	LANL	505-665-1907	
Martin Goldman	U. of Colorado	303-492-8896	
Noah Hershkovitz	U. of Wisconsin	608-263-4970	
James Knauer	U. of Rochester	716-275-2074	
Bruce Langdon	LLNL	925-422-5444	
Douglass Post	ITER, San Diego	619-622-5141	
Barrett Ripin	APS	301-209-3233	
Barbara Shrauner	Washington U.	314-935-6134	

1999 Appointed Committees, continued**Human Rights Committee**

Sergei Kracheninnikov, <i>Chair</i> krash@psfc.mit.edu	MIT	617-253-0478
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

Science Education Committee

Thomas Simonen, <i>Chair</i> simonen@gav.gat.com	General Atomics	619-455-3522
Herbert Berk	U. of Texas	512-471-1364
Michael Brown	Swarthmore	610-328-8648
Kimberly Budil	LLNL	925-423-8098
Donald Correll	LLNL	925-422-6784
James Drake	U. of Maryland	301-405-1471
Paul Dusenbery	Space Science Inst.	303-492-2013
Tim Eastman	Plasmas International	301-587-0894
Walter Gekelman	UCLA	310-825-8461
David Newman	ORNL	423-576-0381
Andrew Post-Zwicker	PPPL	609-243-2116
Sherrrie Preische	APS	301-209-3255
Barrett Ripin	APS	301-209-3233
Richard Temkin	MIT	617-253-5528

Nominations Committee

Earl Scime, <i>Chair</i> escime@wvu.edu	West Virginia U.	304-293-3422, X = 1437
Ronald Davidson	PPPL	609-243-3552
Jill Dahlburg	NRL	202-767-5398
Ronald Parker	MIT	617-253-8100
Linda Vahala	Old Dominion U.	804-683-4968

Site Selection Committee

Nathaniel Fisch, <i>Chair</i>	PPPL	609-243-2643
Vincent Chan	General Atomics	619-455-4162

International Union of Pure and Applied Physics, Commission 16

Noah Hershkovitz, <i>Representative</i>	U. of Wisconsin	608-263-4970
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James Clerk Maxwell Prize

Philip Morrison, <i>Chair</i>	U. of Texas	512-471-1527
Jeffrey Freidberg, <i>Vice-Chair</i>	MIT	617-253-8670
Michael Key	LLNL	510-424-2175
Szymon Suckewer	Princeton U.	609-258-4738
Clifford Surko	UCSD	619-534-6880

Award for Excellence in Plasma Physics Research

Charles Karney, <i>Chair</i>	PPPL	609-243-2607
Earl Marmor, <i>Vice-Chair</i>	MIT	617-253-5455
Robert Cauble (1998 recipient)	LLNL	925-422-4724
David Hammer	Cornell	607-255-3916
John Soures	U. of Rochester	716-275-3866

1999 Appointed Committees, continued**Award for Outstanding Doctoral Thesis in Plasma Physics**

Amitava Bhattacharjee, <i>Chair</i>	U. of Iowa	319-335-3744
Linda Vahala, <i>Vice-Chair</i>	Old Dominion U.	804-683-4968
Bruno Coppi (98 Advisor)	MIT	617-253-2507
Walter Gekelman	UCLA	310-206-1772
Thomas O'Neil	UCSD	619-534-4176

Nicholson Medal for Humanitarian Service Award

Barbara Levi, <i>Chair</i>		805-965-3483
Roy Gould, <i>Vice-Chair</i>	CalTech	818-395-4811
Wallace Manheimer	NRL	202-767-3128
Vitaly Ginzburg (1998 recipient)	Lebedev Inst, Russia	
TBA	APS-FPS	

DPP Education and Outreach

The plasma science education events scheduled at the 40th APS-DPP Annual Meeting in New Orleans, and organized by the MIT Plasma Science and Fusion Center, attracted a record number of students and teachers from the local area.

Science Teachers Day (November 17), during which teachers have the opportunity to understand plasmas, fusion and related research through overviews and workshops, brought 132 teachers to the Fairmont Hotel, the site of the meeting. Workshops ranged from in depth explorations of how to introduce plasmas into the high school classroom to easy interactive experiments with water to explain fluid instabilities at any grade level.

Later these teachers were encouraged to attend the scientific poster session, specifically to review education posters and to meet Carlos Kaufman, the 4th grade student whose "Wonder Project" on fusion inspired the PSFC's own poster on education. Carlos attended with his family and teacher, Beverly Favreau, whose methods were featured in the poster.

MIT's Paul Rivenberg, 1998 APS-DPP Science Education Coordinator, observed that Carlos attracted a lot of attention. "Between Carlos discussing how he learned about fusion, and another MIT poster across the way demonstrating the PSFC's latest plasma science video game, the aisle was sometimes impassable," Rivenberg observed. Carlos was especially popular with teachers who had attended Teachers Day, some of whom requested his autograph.

The Plasma Sciences Expo followed Science Teachers Day on November 19-20 at the Radisson Hotel, an exhibit hall full of hands-on demonstrations geared to help students learn about plasmas and related science and technology. This year approximately 3200 high school, middle school and elementary school students attended the Plasma Sciences Expo over a two-day period, more than doubling the number of students attending past events.

General Atomics' Carol Danielson was responsible for organizing the large number of high quality exhibits at the Plasma Expo. The 32 exhibits included demonstrations from companies and national laboratories, such as General Atomics, Princeton Plasma Physics Laboratory, Oak Ridge National Laboratory, the University of Rochester and Lawrence Livermore National Laboratory, combined with local companies and organizations, such as NASA's Stennis Space Center, which supplied a 1/16 model of the space shuttle.

Exhibitors were impressed by the level of interest, and the intellectual curiosity of the students. Both teachers and students, even in elementary schools, seemed eager to learn about plasmas, the fourth state of matter.

Rivenberg credits the success of the events to early planning, communication with local educators, and support from APS and other institutions working with plasmas. DPP99 will be hosted by General Atomics. Early planning is underway.

**Minutes of Executive Committee Meeting
Division of Plasma Physics (DPP)
Sunday, 15 November 1998
Fairmont Hotel
New Orleans, Louisiana**

Attendees:

Officers:

Nat Fisch, Chairman
Miklos Porkolab, Chairman Elect
Jim Drake, Vice Chairman
Mary Ann Sweeney, Secretary-Treasurer
Richard Hazeltine, Past Chairman

Executive Committee:

Don Batchelor (11/98), Sam Cohen (11/99),
Fred Driscoll (11/98), Walter Gekelman (11/99),
Tom Jarboe (11/2000), Martin Lampe (11/99),
Scott Parker (11/2000)

Divisional Councilors:

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

Committee Chairmen:

Tom Simonen (Education),
John Cary (Publications),
Bruce Remington (Public Relations Coordinator,
Excellence in Plasma Physics Award),
Dan McCarthy (Local Arrangements DPP98)
Ron Davidson (Nominations)
Earl Scime (Concerns of Young Scientists)

APS Representatives:

Andy Sessler (APS President),
Judy Franz (Executive Officer),
Barrie Ripin (Associate Executive Officer),
Tom McIlrath (Treasurer),
Donna Baudrau (Meetings Manager),
Mike Lubell (Public Affairs),
Ramon Lopez (APS Education & Outreach)

Administrator/Editor DPP Newsletter

Saralyn Stewart

Guests:

Amitava Bhattacharjee (U. Iowa), Jeff Colvin (LLNL),
Bruno Coppi (MIT), Don Correll (LLNL), Richard
Hawryluk (PPPL), Jean-Noel Leboeuf (UCLA), Mike
Mauel (Columbia), Paul Rivenberg (MIT), Gerry
Rogoff (Osram-Sylvania), Paulo Sakanaka (Brazil),
Vitalii Shafranov (Kurchatov), Michael Tendler
(Alfvén Lab)

Incoming Executive Committee Members:

Michael Brown (11/2001), Joel Fajans (11/2001),
Mark Koepke (11/2001)

**Opening Remarks and Announcement of
New ExCom Members--Fisch**

The meeting was called to order at 10:15 AM. The newly elected DPP Executive Committee (ExCom) members are: Allen Boozer, Vice Chairman; Vincent Chan, Secretary-Treasurer; Richard Hazeltine, Councilor; Michael Brown, Joel Fajans, and Mark Koepke. Nat is encouraging DPP members to respond via the email stations or in the suggestion boxes about the proposal to combine with a fall general meeting; 57 email responses have been received so far. Vitalii Shafranov will accept Boris Kadomtsev's Maxwell Prize and he and Dmitri Ryutov will review Kadomtsev's achievements at the Thursday morning Maxwell Prize session. This is the first year the prize has been awarded to a non-U.S. recipient.

**April Executive Committee Minutes--
Sweeney**

The minutes were approved.

Secretary-Treasurer's Report--Sweeney

As of September 30, we had \$302,031 in the treasury. \$90,291 is preregistration receipts, so the "real" treasury amount is \$211,740. Non-meeting income is \$24k-26k/yr, with \$12.5k of this in dues.

After the April ExCom meeting in Columbus, Mary Ann toured Quebec City, the site for 2000, accompanied by Pierre Lavigne and Tudor Johnson. The facilities are ideal in size, appearance, and ease of access. One lack appeared to be that the poster session room does not have carpeting, although temporary carpeting is installed when it is used for a banquet. Donna Baudrau of the Meetings Department went on a site trip in August and is also enthusiastic. The significant issue with respect to the meeting is coordination with the International Congress on Plasma Physics. Mary Ann recommended that, because APS-DPP is a larger organization with a lot of mechanisms already in place and roughly triple the attendees, all logistics, including registration, hotel negotiations, abstract receipt and tracking, etc., be handled by APS. The Meetings Department has already done all negotiations with the Convention Center and secured October 22-27 for the meeting.

The distributed Secretary-Treasurer's report includes the previous minutes, mailing list, significant motions since November 1986, the Bylaws, 1998 deadline and task list, DPP97 income and expenses and the approved DPP98 budget, the Meeting Management Contract with APS for DPP98, the APS-DPP Meeting Organization and Plan, the DPP Administrator Position Description, and the APS and DPP financial policies. In honor of our 40th anniversary, the report also includes a summary of the division formation, a list of past officers and voting

members, and a list of pre-1990 motions. The 1999 deadline and task list will be discussed by incoming and outgoing officers and Local Arrangements Chairmen, the DPP Administrator, and the Meetings Department on November 16.

Councilors' Report--Kruer, Gould

Planning for the centennial is going well. APS finances are in excellent shape, although there is concern about financial viability because most income is from the journals, which are being put online. APS is examining the funds in some divisions' treasuries and we are seen as one of the richest, if not the richest, unit. Nat said our policy is to maintain funds about equal to the cost of running a meeting. One use of our funds would be endowing the Maxwell Prize by \$100,000, via an input to the fund at \$20,000 per year for five years. We should decide the use of our funds rather than having APS do it. Nat Fisch assigned an action item to the new Secretary-Treasurer (S-T), Vincent Chan, and the outgoing S-T to examine the APS position on the amount of funds that a unit should hold in reserve and to report back at the spring ExCom meeting.

Topical Group on Plasma Astrophysics--Bhattacharjee

The topical group sent its petition to form a new group to Judy Franz. The proposal is being discussed at today's APS Council Meeting. The intent of the proposed topical group is not to weaken DPP but to nurture plasma astrophysics as an important part of the DPP meeting and of international meetings and to act as a bridge between the Division of Astrophysics and the Division of Plasma Physics.

The DPP, as a result of an email discussion, did not wish to stand in opposition to the formation of the new topical group although DPP ExCom members voiced some reservations arising from the importance rather than the unimportance of plasma astrophysics as a subfield. The hope and concern is that formation of the new topical group not diminish the representation of working physicists in this area at the DPP meeting. It is our hope that the importance of plasma astrophysics will be enhanced by the new group and that close ties of plasma astrophysicists to DPP will continue. [Note added by S-T: later on during the ExCom meeting, Amitava Bhattacharjee reported that the Council had approved formation of the new group.]

APS Centennial Celebration--Drake

Jim Drake reviewed DPP's involvement in the Centennial. The Centennial speaker's booklet contains 15 plasma physicists. DPP is sponsoring a Plasma-Expo-type display and organized one of the 34 Centennial symposia. We also have seven invited sessions. Three are joint DPP/Sherwood sessions; the

remaining four are a session on controlled fusion, a joint session with the Division of Astrophysics, a session on the dynamics of plasmas under extreme conditions, and a joint session with the statistical and nonlinear physics topical group. Oral and poster papers are being encouraged. The deadline for submission is December 4.

DPP did not discontinue its 1999 meeting, but instead encouraged Sherwood to hold its 1999 meeting at the Centennial to have a base attendance of 200-300 plasma physicists in Atlanta. Sherwood, a magnetic fusion theory meeting not associated with DPP or APS, will be treated as an APS unit and APS will collect the registration fee. Sherwood will pay for extraordinary expenses (a separate reception and buffet, separate coffee/soda breaks, and travel support of some attendees) beyond what APS normally provides. Sherwood asked APS and DPP to subsidize these expenses. APS will not do this, but said that, since Sherwood is being treated as an APS unit in this special case, it should expect a rebate of \$1k-2k, depending on the number of contributed papers, as is the practice for units participating in general meetings.

Jim brought up the proposal he made unsuccessfully at the April ExCom to have DPP subsidize some of the Sherwood expenses at the Centennial. Sherwood has now broadened its announcement to include all plasma theory. Also, there is now joint sponsorship with DPP of some Sherwood invited sessions. Jean-Noel Leboeuf of Sherwood presented a tentative budget. Sherwood has \$4,900 available to sponsor Centennial activities. \$1,000 will be used to send Leboeuf to the sorters' meeting and a helper to the Centennial. Sherwood is asking major organizations to contribute and would like us to contribute \$4,500--\$1,500 to send one person to the Centennial as a helper and \$3,000 to sponsor an afternoon break. The coffee break would be inside the Sherwood sessions and open only to session attendees. A **motion** (Drake, Cohen) was passed to provide \$4,500: up to \$3,000 for an afternoon break, and up to \$1,500 for a helper at the Sherwood meeting with Sweeney in opposition.

DPP2001 A Generalized Fall Meeting--Fisch

Nat introduced Ron Davidson, a former DPP chairman and new Vice Chairman of the Division of Physics of Beams (DPB), with ~1200 members, and asked his thoughts on the fall general meeting and how many from DPB would likely attend. Ron sees it as an excellent opportunity for plasma physicists to learn about research in other areas of physics. His caveat was that DPP make sure that a fair and equitable business arrangement with APS is obtained.

Nat reviewed our discussion at the April ExCom and then the September 13 meeting in College Park, at which the fall general meeting proposal was discussed by 45 leaders of the units (Sweeney, Drake, and Porkolab attended) that meet at the April general meeting. These are the forums, the DPB every other year, Division of Nuclear Physics (DNP), Division of Astrophysics, and Division of Particles and Fields. The change would not occur unless DNP agreed, since DNP is the core of the April meeting attendance. Other units did not favor the sleeping room subsidy and Judy Franz felt it was illegal, so it would not be allowed. The meeting would be in mid- to late-October and about every other year or every two out of three years it would be in Washington/Baltimore. The alternate location would be on the west coast. The Meetings Department had researched Seattle; San Francisco was suggested as an alternative. The American Association of Physics Teachers has decided not to meet any more with the April meeting. The Division of Atomic, Molecular, and Optical Physics in the past met every three years with the April meeting but would not be involved in a fall meeting; nor would the Division of Fluid Dynamics, which has a separate meeting during Thanksgiving week.

Such a change should be approached cautiously since 60% of our members attend the DPP meeting--high compared to other units. Nat used the analogy of a flagpole in a field to define the importance of the DPP meeting to plasma physics. Other units are also hesitant about the proposal. A major reason for considering the proposal is the perception that plasma physicists are isolated. Another is that attendance at the April meeting (~1200) is declining, and it would be easier for APS to not have two general meetings close in time. (The March meeting has an attendance of ~5,500.)

The pros and cons were then discussed. [S-T note: Some of the discussion below occurred late in the meeting with Judy Franz and Andy Sessler, but I have placed all of the pros and cons here for organizational clarity.]

Pros: 1) It is time to act: "Our science is first rate, and our isolation is great." It is essential that undergraduates know about plasma physics and the way to achieve this is through a general meeting. 2) Interaction with non-plasma physicists in the workplace does not succeed. 3) ExCom will have to attend to less administrative details with respect to meeting organization. 4) Email responses so far favor a combined meeting. 5) The present DPP meeting would be a lightning rod to make a general meeting a success. 6) It is dangerous to be selective about the colleagues we do or do not associate with. 7) We will be more accepted in the general physics community. 8)

The American Geophysical Union is a refreshing, rewarding, large meeting in which interaction with other groups is successful. 9) The forums are an important part of the April meeting and would be an important part of a fall general meeting. 10) It is important to have outside scrutiny of our science and contributions to our research from non-plasma physicists.

Cons: 1) There is resistance to change; if the experiment is unsuccessful, it will be difficult to return to a separate meeting. 2) Attendance by plasma physicists will decrease. 3) DPP will lose control of the meeting and the special things that make it unique. 4) The incentive is coming from APS and not the units; hence, the process itself is flawed. 5) The general membership must have a part in the decision that is more than a suggestion box and email responses. 6) Interaction with other physicists should be done instead by inviting them to speak at DPP or in the workplace. 7) The present meeting is too large and busy; with a larger meeting, we could not attend non-DPP sessions. 8) The April meeting has too many parallel and evening sessions. 9) Invited/plenary talks would have a different character if for a more general audience. 10) 20% of our members vote for the elected ExCom and 60% "vote" by attending the DPP meeting; why mess with success? 11) Less time would be devoted to plasma physics at the Teachers' Day if other divisions participated because of space considerations and the time constraints of the high school teachers attending.

Nat said that, because DPP members elect us, we should not have a referendum on every issue, even if only 445 of 2500 voted in the latest election.

Our "non negotiables" would be coffee breaks, full control of our technical program, and sufficient monies to continue funding special programs, including education and outreach.

European Physical Society--Tendler

A special issue on fusion will be published by EPS soon. Michael Tendler asked if DPP or APS wanted to order some of these. Nat told Michael to address this separately with Bruce Remington, the Public Information Coordinator. The focus for the 1999 meeting, to be held the second week of June in Maastricht, is fusion. (The DPP chairman is responsible for EPS interactions; hence, Miklos will go to the Maastricht meeting.) There is a shortage of invited nominations; these are needed for the December 8 Program Committee meeting. Nat Fisch already submitted nominations prior to October 31, after canvassing the ExCom. Miklos and Michael Tendler would like additional nominations by December 1.

UFA: Report on Community-wide Workshop on Fusion Energy--Mauel

It was clear from discussing this item at the April ExCom that DPP did not want to endorse the workshop until specifics such as dates, location, and makeup of the organizing committee were known. Also, the ExCom was concerned that endorsement might be seen as endorsing a mechanism to provide policy advice to DOE.

The workshop plans are now taking concrete form, with the workshop to be July 11-23 in Snowmass, Colorado. Mike handed out a four-page summary of the workshop, which will be called the 1999 Fusion Summer Study. Co-chairmen are Grant Logan, Richard Hawryluk, and Mike Mauel. Mike requested our formal endorsement; APS endorsement is not needed. Jim Drake felt an ExCom member should be on the organizing committee, but Nat said this would set a precedent. A **motion** (Hazeltine, Porkolab) was passed, with one abstention, to endorse the workshop.

APS Meetings Department--Baudrau

Email registration was tried for the first time and is a success. As of November 13, 1200 had registered and 1100 rooms had been reserved in the hotels. ExCom thanked Donna and the Meetings Department for efficiently running the meeting.

International Congress on Plasma Physics/ DPP2000 Annual Meeting-Sakanaka/Tendler

Sakanaka said the ICPP would be at the same time and place as the DPP meeting in Quebec City, but the meetings would be separate with two separate program committees. There would be close contact, however. The difficulty from the ICPP viewpoint is that DPP accepts all abstracts submitted by members, whereas ICPP rejects abstracts. Also, ICPP has four-page papers and DPP only publishes abstracts. Mary Ann reminded those present of the motion ExCom passed via email on February 17:

Moved (Sweeney, Jarboe): "That the Division of Plasma Physics hold its meeting in 2000 in Quebec City as a joint meeting with the International Congress of Plasma Physics if suitable facilities and a suitable time period in the fall are identified and if the representatives of ICPP are agreeable. Technical sessions would be joint sessions and the program for the meeting would be decided by one Program Committee that includes representatives from both DPP and ICPP. Meeting registration fees and the details of the sharing of finances will be determined by representatives of the two entities, APS-DPP and ICPP, with the understanding that the registration fee will retain enough flexibility that attendees will not be required to pay for peripherals that are not a part of the usual APS-DPP format."

Nat suggested Sakanaka and Tendler interact with Jim Drake, Allen Boozer, Vincent Chan, Miklos Porkolab, and the outgoing S-T during DPP98 to resolve details of the meeting organization. A **motion** (Hazeltine, Porkolab) was passed, after being amended by Martin Lampe, that DPP gives Jim Drake complete authority to negotiate with ICPP the particulars of the 2000 meeting in Quebec City and reaffirms the wish to have the meeting as a joint meeting with ICPP, as expressed in the February 17, 1998 motion.

International Cooperation with JSPFR--Porkolab, Katsurai, Wagner

A representative from the Japanese Society of Plasma and Fusion Research (JSPFR) will attend the DPP ExCom, the Program Committee meeting on November 19, and the Program Committee meeting at College Park. Masahiro Wakatani will represent JSPFR on the 1999 Program Committee. In return, JSPFR will provide one or two time slots for U.S. invited speakers. The registration fee for these speakers might be waived. Martin Lampe asked why the agreement was asymmetrical; the answer is that the dialogue on JSPFR is in Japanese.

Site Selection for Future DPP Meetings--Fisch

Richard Hazeltine would be in charge of selection for 2001, Nat for 2002, and Miklos for 2003. In the bylaws, the Past Chairman does this; Nat said this would keep things on track as 2001 must be selected rapidly.

Public Information Coordinator--Remington

Public information activities included a press release on DPP98 and encouraging *Physics Today* to invite P.E. Vanderplas to do an article on European fusion research. [There was an error in the news release: the fusion power from JET in 1997 was 16 MW, not 21 MW.] Nat suggested that input for the press release should be recommended by the July Program Committee to the Public Information Coordinator. Jeff Colvin was added to Bruce's committee; Bruce asked that a member with expertise in magnetic fusion be approved for the committee. Barrie said industrial and other aspects of plasma physics should be added as well.

1998 DPP Local Arrangements--McCarthy

The Fairmont is not a typical convention hotel and, hence, there are space problems. The rate of reserving sleeping rooms is higher than in the past; the rate of registering for the meeting is lower. Abstract submission is 10% higher than DPP97 in Pittsburgh.

1998 Program Committee--Porkolab

There are 92 invited talks, 12 tutorials, and two parallel sessions. The morning coffee break has been

lengthened from 15 to 20 minutes, and soft drinks are now available in the afternoon.

Science Teachers' Day, Plasma Expo-- Correll, Rivenberg

Education and outreach continue to grow. More members are getting involved, so the Teachers' Day workshops are more diverse. The Plasma Expo is Thursday and Friday at the Radisson. Paul Rivenberg passed out an agenda for Teachers' Day; 160 are expected. 4500 students are expected over a two-day period at the Plasma Expo.

Publications--Cary

The section of *Physical Review Letters* that includes plasmas is entitled plasmas and beams; the Publications Committee has been asked about changing the name to plasmas, beams, and space physics. John Cary asked for feedback on this suggestion.

Coalition for Plasma Science (CPS)-- Rogoff

As the present chairman of the Coalition, Gerry Rogoff requested that the ExCom approve membership of DPP in CPS. When this request was previously made, the structure, governance, and activities of CPS were unclear and CPS appeared to be a lobbying organization; hence, the ExCom did not agree to join. Now, it is seen as an educational organization for the plasma science community and it has a diverse membership including industrial, academic, governmental, and professional organizations. The criterion for membership is endorsement of the mission--"to increase public awareness and understanding of plasma science and its many applications and benefits for society"--and goals. Goals are uniting the community behind a common message about the value of plasma science research, broadening support for ongoing research, developing a national strategy to get plasma science in the news, and promoting a national strategy for plasma science education and outreach in K-12.

After a prolonged discussion, a **motion** (Hazeltine, ?) was passed approving membership in the CPS with no exchange of funds. A **motion** (Hazeltine, Lampe) was then passed to make a one-time \$5,000 contribution for the education and outreach activities of the CPS with one opposed. The discussion of the motions included whether DPP could actually become a member of another organization and the coordination of education and outreach activities and concern about dilution of these activities monetarily and volunteer wise. Tom Simonen and others commented that CPS has greater emphasis on industry than our education and outreach activities. Martin Lampe requested that

the Chairman of the Division determine some means to keep an eye on the activities of the CPS.

Science Education Committee--Simonen

Saralyn Stewart and Barrie Ripin attended a meeting at DOE to discuss financial needs of the fusion community's education and outreach programs. Seven institutions presented funding requests. The DPP request was \$20k-40k to support Teachers' Day, the Plasma Expo, and travel expenses of workshop presenters and exhibitors from small institutions. Formal proposals should be submitted.

Tom should prepare a proposal for funding of education and outreach activities by his committee for presentation at the spring ExCom meeting.

Distinguished Lectureship Committee-- Shrauner (written report)

The DOE travel grant program was successful, with more lectures given than expected. DOE renewed the program for 1998-1999; Nat will administer it. Tom Simonen will chair the committee that chooses the lecturers; Barbara is concerned that these be chosen immediately since announcement in *APS News* requires lead time, as do mailings to chairmen of physics departments and the APS email list. Barbara is hopeful that Barrie will help again with the mailings and announcements.

Science Fair Prize in Pittsburgh-- Koepke/Scime

The Pittsburgh science fair asked if the division was willing to give another prize this year. We awarded a \$550 prize at the 1998 science fair in Pittsburgh and are awarding one for \$500 at the 1999 science fair in New Orleans. A decision to award a Pittsburgh prize for a second year would need to be made before Christmas. Concern was expressed about the overall cost of funding the prizes for multiple years at each DPP location but no decision was made. Mark and Earl were asked to work with Tom to investigate developing a proposal for presentation to the ExCom.

A **motion** (Hazeltine, ?) was passed with one opposed to allow the chairman, Nat Fisch, to spend up to \$1000 in support of science education, upon appropriate consultation with Tom Simonen, between now and the next ExCom meeting if it were necessary to meet a deadline.

DPP 2001-A Fall Generalized Meeting-- Fisch, Franz, Sessler

The earlier discussion of the general fall meeting proposal continued, with Judy Franz and Andy Sessler present to answer questions.

A period of at least three years would be needed to evaluate the success of a fall meeting since meeting

space must be reserved at least two years in advance. The general meeting would likely be at a convention center and, given the wishes of several of the other divisions, would most often be held in the Washington-Baltimore area. There would be one registration fee for the entire meeting. DPP would no longer set the registration fee; the fee for general meetings is recommended by the Committee on Meetings and then approved by the Council. The Division of Fluid Dynamics was not contacted about the possibility of a fall general meeting. DFD has never reached out to other physicists and a lot of their meeting attendees are engineers rather than physicists.

A number of questions dealt with finances and the control of the DPP program. Judy and Tom McIlrath advocate guaranteeing \$10,000 per year to DPP for an unspecified period of time if we become part of a fall general meeting. The \$10,000 is based on the cost of items that are part of the DPP meeting budget but that would not be in a general meeting budget. These items are Program Committee costs, travel support for invited speakers, committee meetings during the DPP meeting, and support of the Plasma Expo; the \$10,000 does not include the cost of a subsidy for a separate banquet or banquet speaker. Ignoring space considerations, we would be in total control of our technical program, but negotiation would be required when scheduling joint sessions.

A concern is what discretionary income is available to divisions without separate meetings. Currently, APS reserves \$30,000 for distribution in fractional amounts to units participating in the April general meeting, regardless of whether the meeting makes a profit or is a loss. The distribution is based on the number of contributed and invited talks, with contributed talks counting double that of invited talks; hence, a unit with a large number of contributed talks compared to other units would receive a larger fraction of the \$30,000 "kitty."

Other concerns were the loss of a sense of community if DPP becomes part of a general meeting and whether there would really be interaction with non-plasma physicists and cross attendance at technical sessions. The April meeting is Friday-Tuesday and that scheduling would likely be maintained with a move to the fall. DPP might retain a Monday-Friday schedule, but would need to overlap 2-3 days with the rest of the meeting.

A straw poll of the voting members was taken following the discussion with Judy and Andy. The result was 6 in favor, 4 opposed, 3 undecided. One person changed their opinion from being opposed to being in favor as a result of the discussion.

1999 Spring ExCom Meeting

The next ExCom will be March 1999 in Atlanta during the Centennial.

The meeting adjourned at 6 PM.

Review of Past Action Items--Sweeney

The following items from the November 1997 and April 1998 ExComs have not been completed:

1. Site selection trips for 2001. (Hazeltime, Sweeney)
A 2001 trip and choices of a site from our short list of Albuquerque, Boston, Orlando, San Antonio, and San Francisco awaited the general meeting decision. [Fisch and Chan would now make these trips.]
2. Add best tutorial topics and speakers at the DPP97 meeting to the home page. (Stewart)
3. A subcommittee, consisting of Hazeltime and Davidson, will examine the possible options for the James Clerk Maxwell Prize and report to the DPP ExCom in November because of the expectation that Maxwell Technologies Inc. will not agree to endow the prize. [Subsequent to the April ExCom, Maxwell Technologies agreed to fund the prize year by year, so the subcommittee needs to take action.]
4. Prepare a letter to Ernie Moniz of DOE and his counterpart at the OSTP endorsing the move of fusion sciences from the energy account to the science account at DOE (DPP officers) and follow-up with a visit in Washington. (moot: the move to the energy account occurred.)
5. Approach APS Council again about seeking approval for DPP to endorse the activities of the CPS. (moot: no longer an issue)

Review of Action Items from November 1998 ExCom--Sweeney

1. Review APS policy on unit reserves and report at next ExCom (Sweeney, Chan).
2. Discuss with Remington the possible purchase of copies of *Europhysics* special issues on fusion for public information purposes (Tendler).
3. Sakanaka and Tendler should interact with Drake, Boozer, Chan, Porkolab, and Sweeney to resolve details of the meeting organization for Quebec City in 2000 since DPP wishes a joint meeting and joint Program Committee whereas ICPP wants the meetings and Program Committees to be separate.
4. Prepare proposal for the ExCom in Atlanta for funding of education and outreach activities--or by email earlier (Simonen).
5. Send letter to Gerry Rogoff and \$5,000 check per the CPS motions (Chan).
6. Develop possible site ideas for 2002 and beyond [Fisch].

**Minutes of the Business Meeting
Division of Plasma Physics
Wednesday, 18 November 1998
Fairmont Hotel
New Orleans, Louisiana**

There were 34 in attendance at the Open Business Meeting.

Report of DPP ExCom Meeting

Nat Fisch, the DPP chairman, reported that there were over 1500 registrants at the New Orleans meeting. Miklos, this year's Program Chairman, and Mary Ann Sweeney, the outgoing Secretary-Treasurer, were congratulated for their service to the division. Nat announced the names of the new officers (Allen Boozer, Vice Chairman, and Vincent Chan, Secretary-Treasurer), the new councilor (Richard Hazeltine), and the new ExCom members (Michael Brown, Joel Fajans, and Mark Koepke). At the Sunday DPP ExCom meeting, the Coalition for Plasma Science was endorsed, and the ExCom endorsed the Snowmass MFE/IFE meeting scheduled for summer 1999. Via email, the ExCom had previously voted to not oppose the creation of the Topical Group on Astrophysics. Nat reported that at the Sunday APS Council meeting, the Council formally approved the creation of the new topical group.

Secretary-Treasurer's Report

Mary Ann Sweeney reported that the amount in the DPP treasury as of September 30 was \$302,000, with \$90,000 of this amount being preregistration receipts. Non-meeting income is \$24-26k per year. Immediately after the April general meeting, Mary Ann traveled to Quebec City to inspect the site and found it to be ideal. The QC meeting will be earlier than our traditional meeting: October 22-26. As part of preparation for DPP98 and for the APS Centennial, Mary Ann reviewed the historical record of the division and hopes to include this material on the DPP home page and/or in the next DPP Newsletter.

DPP Site Selection and General Meeting Proposal

DPP99 will be in Seattle, and DPP2000 will be in Quebec City jointly with the International Congress on Plasma Physics. The site of DPP2001 is dependent upon whether the proposal to become part of a fall general meeting is approved or not. Nat encouraged attendees to let the ExCom know their opinions, either via email or boxes at the back of the invited sessions and in the registration area. He said that the responses received so far were approximately 50:50. Dan Dubin asked why there was not going to be a vote of the entire DPP membership on the proposal. Nat replied that the DPP membership elects the officers and the voting DPP ExCom members to do this. Jim Callen

asked why only 1200 people attended the April general meeting and whether there was strong interaction between the units now meeting at the April general meeting.

Program Committee Report

Miklos Porkolab reported that he continued the parallel invited sessions begun at DPP97 by Nat Fisch, as well as the miniconferences. Because of the questionnaire distributed in Pittsburgh, soft drinks were added as an alternative to just coffee in the afternoon and the numbering scheme for abstracts was changed back to something similar to the scheme used before 1997, except that an initial letter is now used. Once again, no technical sessions are scheduled after 6 PM in the evening. Miklos encouraged those present to fill out the questionnaire again. The miniconferences are somewhat of a problem, since they run continuously and it is therefore difficult to avoid conflicts with the main DPP technical sessions; also, because of the expansion of the meeting and the institution of parallel invited sessions and the miniconferences, it was not possible to hold the miniconferences or the Plasma Expo in the same hotel as the DPP technical sessions.

Education and Outreach

Tom Simonen, chairman of the Science Education Committee, reported that 4000 students are expected at the Plasma Expo, which will be held Thursday and Friday at the Radisson. On Tuesday, 132 middle and high school teachers attended the Science Teacher's Day in the Fairmont. Similar activities are planned for DPP99 in Seattle. In addition, a DPP display will be at the APS Centennial in Atlanta.

Respectfully submitted
Mary Ann Sweeney,
DPP Secretary-Treasurer

**Minutes of Special Meeting of the
Executive Committee of the DPP
Thursday, 19 November 1998
Fairmont Hotel
New Orleans, Louisiana**

Attendees

Officers:

Nat Fisch, Chairman
Miklos Porkolab, Chairman Elect
Jim Drake, Vice Chairman
Mary Ann Sweeney, Secretary-Treasurer

Executive Committee:

Don Batchelor (11/98), Sam Cohen (11/99),
Fred Driscoll (11/98), Tom Jarboe (11/2000),
Martin Lampe (11/99)

Divisional Councilor:

Bill Kruer (1996-1999)

DPP Administrator:

Saralyn Stewart

Incoming Members of the Executive Committee:

Allen Boozer (Vice Chairman)

Vincent Chan (Secretary-Treasurer)

Joel Fajans (11/2001), Mark Koepke (11/2001)

The ExCom met for four hours beginning at 6 PM to discuss the APS proposal to have the DPP meeting combine with a fall general meeting. A week and a half before DPP98, an email was sent to all members with email and to anyone who submitted an abstract electronically to DPP98, informing them of the proposal. The DPP web page was changed to allow email comments about the proposal and a box was left at the back of each invited session and in the registration area to accept written responses. A town meeting was held 12:30-1:45 PM on November 16 to present the proposal at which Judy Franz, Andy Sessler, and Tom McIlrath answered questions.

We first read through the emails and written responses from DPP members and attendees. 120 responses (64%) opposed the idea of combining with a fall general meeting, 54 responses (29%) favored the proposal, and, for an additional 14 responses (7%), we were unable to tell if the responses were in favor of or against the proposal.

To pass motions, our bylaws require at least two officers and a majority of the 16 voting members (the officers, the past chairman, the 9 ExCom members, and the two councilors) to be present. With a total of 10 voting members present, including all four officers, we had a quorum.

During the ensuing discussion, Nat took a straw vote. Six voting ExCom members were against the proposal; four, including the chairman, favored the proposal. The incoming ExCom members do not become voting members until the DPP annual meeting ends. However, the four out of six incoming members present were polled as well. All four were opposed.

A motion (Lampe, Sweeney) was made to reject the proposal. After additional discussion, this motion was withdrawn and the following motion was made and passed:

**Minutes of Executive Committee Meeting
Division of Plasma Physics (DPP)**

Moved (Jarboe, Drake): The ExCom recommends that the DPP officers further engage the leaders of the other APS units presently meeting at the APS April general meeting on the topic of combining our units into a general fall meeting beginning not before the year 2002. The ExCom looks forward to reconsidering the possibility of a Fall Meeting following these discussions.

[Note added by S-T: As a result of the motion, the APS Meetings Department has been asked to begin negotiations for our DPP2001 meeting site. The proposed sites are Albuquerque, Boston, Orlando, San Antonio, and San Francisco. Because of the upcoming Centennial, the Meetings Department will not have much time for this until after the Centennial, but Donna Baudrau said she would report on which sites have availability during the time period of mid-October to mid-November at our next ExCom meeting, which is scheduled for March 1999 in Atlanta.]

Respectfully submitted
Mary Ann Sweeney,
DPP Secretary-Treasurer

Are you receiving DPP and APS email announcements?

Information of immediate importance or interest to DPP members is often distributed through electronic mail via a data base established by APS. The APS will use whatever email address is on file for you when compiling this list. You can check the email address that APS has for you when you log on to the online Membership Directory from the APS homepage. If you suspect that you are not receiving DPP and / or APS email announcements, please take a moment to check if your email address is current in the APS online record. You can correct your email address in the Membership Directory page or by sending an email message to membership@aps.org.

**Monday, 20 April 1998
Hyatt Regency**

Columbus, Ohio**Attendees:****Officers:**

Nat Fisch, Chairman
 Miklos Porkolab, Chairman Elect
 Jim Drake, Vice Chairman
 Mary Ann Sweeney, Secretary-Treasurer
 Richard Hazeltine, Past Chairman

Executive Committee:

Sam Cohen (11/99), John Finn (11/2000),
 Walter Gekelman (11/99), Tom Jarboe (11/2000),
 Martin Lampe (11/99), Scott Parker (11/2000)

Divisional Councilor:

Bill Kruer (1996-1999)

Committee Chairmen:

Tom Simonen (Education),
 John Cary (Publications),
 Arnold Kritz (Nicholson Medal),
 Bruce Remington (Public Information Coordinator,
 Excellence in Plasma Physics Award),
 Dan McCarthy (Local Arrangements DPP98)
 Ron Davidson (Nominations)

APS Representatives:

Andy Sessler (APS President),
 Judy Franz (Executive Officer),
 Barrie Ripin (Associate Executive Officer),
 Tom McIlrath (Treasurer),
 Donna Baudrau (Meetings Manager),
 Mike Lubell (Public Affairs),
 Sherrie Preische (Centennial Project)

Administrator/Editor DPP Newsletter

Saralyn Stewart

Guests:

Mike Mauel (Columbia), Bruno Coppi (MIT)

Opening Remarks and Suggestions for DPP 40th Celebration--Fisch

The meeting was called to order at 9:00 AM. Nat played a tape of a New Orleans jazz band and asked for opinions about having the band perform at the banquet. Since it is the 40th DPP meeting, he would like to commemorate this in some way, for instance by distributing mugs to attendees or having speakers from the early days reminisce at the banquet. Bill Kruer suggested that a booklet could be distributed at the banquet that includes abstracts from the first meeting. Other suggestions included a new version of the plasma formulary. Bill, Sam Cohen, and Mary Ann volunteered to work on these ideas.

Fall Executive Committee Minutes--Sweeney

The November minutes were approved as written. Miklos asked that the minutes be changed to reflect that the strongly coupled plasma session did not occur at the APS/AAPT general meeting in April because DPP was limited to one full invited session, which was shared by having a joint session with the Division of Astrophysics and the Division of Beams. Instead, a miniconference on strongly coupled plasma will be held during DPP98.

Secretary-Treasurer's Report--Sweeney

As of March 20, we had \$239,000 in the DPP treasury. Our non-meeting income is typically \$24k - 26k, with \$12,500 coming from dues.

Meeting Planning

The following change was made to the DPP administrator position on January 29: "In order to better coordinate activities with the Meetings Department, the DPP Administrator

- Should forward all requests before and during the meeting of the needs of the conference attendees (i.e., meeting space including beverages, audiovisual, etc.) directly to the Meetings Department.
- Should not communicate directly with the meeting hotel or convention center.
- Change fourth item listed under position, second sentence as follows: "In other instances communicate directly with the Meetings Department only at the express direction of the Program Chairman when he/she is too busy to meet required deadlines."

A written contract for meeting services for DPP98 was signed by the Secretary-Treasurer (S-T) and Judy Franz in March. The services being provided for \$30,000 are:

- Collect and process all abstracts.
- Provide support services for the Program Committee (PC) meeting in College Park.
- Prepare electronic *Bulletin* within a week of the PC Meeting for review and proofing; make changes as communicated by PC chairman.
- Publish printed *Bulletin* and print meeting announcements in *APS News*.
- Assign and manage all scientific function space.
- Receive and handle all satellite meeting requests, receive and process preregistrations, manage on-site registration, and contract with local vendors.
- Recommend and select companion tours, based on approval of Local Arrangements chairman.
- Identify official convention travel agent.
- Make VIP hotel arrangements as requested by DPP if received in a timely manner.

- Prepare and mail invitations to President's Reception, based on invitee list and wording supplied by DPP chairman.
- Issue registration fee waivers and travel grants based on approval by S-T.
- Assist in budget preparation if requested, manage budget, pay bills upon approval of S-T, and generate registration and financial reports.
- Provide three Meetings Department staff and one accounting staff person at meeting site.

Richard Hazeltine and Nat were concerned about the increase in the fee (last year it was \$28,000).

Deadlines and Tasks for 1998

A deadline and task list was prepared through email interactions with ExCom members and the Meetings Department. In coordination with the Meetings Department, a user-friendly version of the deadlines and task list was created. The intent is to place this list on a restricted web site, much like the site the PC accesses before the program is posted on the APS Meetings web site.

Email Communications with Members (written)

At the request of a member, the sender and subject line of the email to the DPP membership were changed to "APS Division of Plasma Physics Announcements" and "dpp@aps.org."

1998 DPP Meeting Budget--Sweeney (written)

After a three-week period of email discussions, the following **motion** (Sweeney, Finn) was passed March 23: "Moved that the DPP98 Meeting in New Orleans, based on budgeted expenses of \$276,000, have the following fees: preregistration \$220 member, \$340 non-member, \$115 one-day, \$175 one-day non-member, \$40 student member or retired member; on-site registration \$270 member, \$380 non-member, \$140 one-day member, \$195 one-day non-member, \$50 student member or retired member. Overseas attendees can preregister and pay the preregistration rate on site if complete information is provided on the registration form before the preregistration deadline of October 16."

DPP did not endorse the three-level registration fee (early bird, late, and on-site) APS is using at the March and April general meetings. Also, student and retired fee categories are only available to APS members. To reduce confusion, the registration form should clearly say "Retired Member" and "Student Member" rather than just "Student" and "Retired." The "one-day" category must specify the date on which the attendee will be present.

Two other motions were passed via email: "**Moved** (Kruer, Sweeney) that we return the banquet fee to \$25." "**Moved** (Hazeltine, Drake) 1) the present subsidy for travel of FSU scientists to DPP meetings be discontinued; 2) the Program Chair and Division Chair be allowed to spend, at their discretion, up to \$2000 to support the travel to our annual meeting of invited speakers (including review and tutorial speakers) who would otherwise be unable to attend. The recipients of this support could be either U.S. or foreign scientists." The travel support motion was passed March 10 and the banquet fee motion March 19. The travel support motion allocates a total of \$2000 for all support, not \$2000 for each invited speaker who needs such support.

Councilors' Report--Kruer

APS membership has increased by about 1,000 to \$41,000. More employers were present at the March meeting than in the past. The Council is considering a new policy to increase the minimum amount for prizes to \$10,000 and to require that prizes and awards be endowed. A \$10,000 prize would then require an endowment of \$200,000. Tom McIlrath explained that this proposed policy will apply to prizes and not to awards and that it is a goal that APS would like the divisions to strive towards but that will not be mandated at this time.

Maxwell Prize & Doctoral Thesis Award--Ripin

Walt Robertson, the new head of Maxwell, is willing to continue funding the James Clerk Maxwell Prize but is not enthusiastic about endowing it. Barrie obtained a commitment from Maxwell to fund the prize in 1997 and 1998. He had asked for a 5-year-minimum commitment because of APS policy, but Maxwell has only been funding the prize for one or two years at a time.

To increase the stability of prizes that are not endowed, Tom McIlrath explained that a new APS policy allows money from a division's treasury to be used to fund a prize as a temporary measure. Hence this could be used to fund the prize in 1999. Tom pointed out that one of DPP's options with respect to the Maxwell Prize could be to transfer \$100,000 from the DPP treasury to the Maxwell account to endow the award at the \$5,000 level. Another option could be to reach a \$100,000 endowment level by transferring divisional funds to the Maxwell account at the rate of \$20,000 for several years.

Barrie said that it would be prudent for the ExCom to think about the long-term funding for the prize and asked that, at the fall meeting, we return to the Maxwell issue and that, in the meantime, a small committee should examine how to resolve the

funding problem, including the possibility of allocating ~ \$6000 to \$7000 from the DPP treasury as a temporary measure. Richard Hazeltine and Ron Davidson volunteered to serve on the committee, which would give a report at the fall ExCom.

A new APS bylaw change is expected to pass that will permit the thesis award committee of the appropriate unit to have oversight over such awards without the makeup of the committee or the recipient selected being ratified by APS. The doctoral thesis award has now been endowed by General Atomics, with a contribution of \$40,000. Unfortunately, GA thought that it would have complete freedom to choose the name of the award. However, APS policy does not permit a prize or award to include the name of a company. This issue is not yet resolved and, at the moment, the title of the award is "Dissertation Award in Plasma Physics."

APS Treasurer's Office--McIlrath

Total APS investments are now \$56 million. The operating budget has a deficit of a few million that has, in practice in the past, been covered by publications. The \$4M return on the investment account is being used to fund the operating budget. To revive the profit from publications, APS will begin charging for electronic access to journals. By July, all of *Physical Review Letters* is expected to be archived electronically. The new *PR Special Topics: Accelerators and Beams* begun by the Division of Physics of Beams will be an all- electronic journal.

Publications--Cary

Masahiro Wakatani is the new Divisional Associate Editor for *Physical Review Letters*. The list of plasma physics related theses will be automatically posted on the web rather than in the *DPP Newsletter*. A **motion** (Cary, Hazeltine) was introduced and passed to authorize \$300 for an undergraduate to prepare the Perl script that will permit the automatic posting.

1998 Program Committee--Porkolab

Miklos summarized the feedback from the 60 surveys returned by attendees and session chairmen and explained what components of the DPP97 meeting he intended to continue at DPP98. The absence of evening sessions was much appreciated, as were the new tutorials, and the email stations, and he plans to continue with these innovations. Miklos felt that the survey gave him useful information and said it should be done again, even though the percent of attendees returning the survey (5%) was small. Miklos said that the individual comments were more useful to him than the 1 to 5 scoring system. Scott Parker recommended that, to get a larger response, an email questionnaire should be sent after the meeting rather

than including the questionnaire in the registration packet and Miklos said he would adopt this suggestion. Because of complaints about the early abstract deadline, Miklos will see what he can do about getting the deadline moved later. Attendees did not like the new paper numbering scheme the 1997 Program Committee developed because of the requirement of new APS software that the first character could not be a number, so the 1998 Program Committee will develop a different scheme.

The biggest complaint was finding the afternoon coffee stations. Other options were requested--soft drinks, juice, snacks, spring water. Some invited talks were too specialized. Other complaints were: a too-expensive banquet, conflict between parallel invited sessions (especially Thursday P.M.), meeting too close to Thanksgiving, a location that did not allow direct flights, orals on Friday, not getting the *Bulletin* before the meeting, and a too large and long meeting that reduces peer interaction. Poster sessions should have tables and chairs and plenty of water. Session chairmen recommended use of radio cordless microphones and of digital clocks instead of timers, an emphasis on general interest talks to reach a wide audience, lengthening the question period between talks and requiring speakers to repeat questions, including attendees' affiliations on badges, improving meeting web pages, and reducing the distance from the convention center to hotels. ExCom noted that the nature of the tutorials must be controlled so these do not become the same as plenary or ordinary invited talks.

APS Centennial Celebration--Drake

The 1999 Sherwood Meeting was invited by DPP about a year ago to hold its meeting at the Centennial as a way to get a base attendance of 200-300 plasma physicists. Sherwood, a magnetic fusion theory meeting not associated with DPP or APS, will be treated as an APS unit and APS will collect the registration fee. Sherwood will have to pay for extraordinary expenses (a separate reception and buffet, as well as separate coffee/soda/beer breaks, and travel support of some attendees) beyond what APS normally provides. Sherwood asked APS and DPP to subsidize these expenses. APS will not do this, but said that, since Sherwood is being treated as an APS unit in this special case, it should expect to get a rebate of \$1000-2000, depending on the number of contributed Sherwood papers, as is the practice for units participating in general meetings.

A motion (Drake, Hazeltine) was made that DPP agreed in principle to subsidize part of the normal Sherwood meeting expenses, up to \$5000, at the Centennial. During discussion, some felt such expenses were not needed with all the special events

already occurring; others felt Sherwood should not be penalized. Nat was uncomfortable about honoring the request since it could be seen as favoritism to a specific branch of plasma physics. Ways to increase the contributed Sherwood papers to enlarge the Sherwood rebate were discussed. It was suggested that Sherwood should broaden its scope at the Centennial to include all plasma theory. It was agreed that DPP members would be sent email advertising Sherwood's presence.

A vote was taken and the motion passed. Nat then asked for a tabulated vote and asked Sam Cohen why he had voted against it. Sam said experimentalists were being slighted, the arguments were too nebulous, and a decision was being made too rapidly instead of being addressed carefully via email. Jim Drake then rescinded the motion and Hazeltine rescinded his second. Jim said he would like to have the rest of the discussion handled via email. [S-T comment: From a parliamentary procedure point of view, I am not sure of the outcome, since the motion was passed and no motion was voted on to undo the motion already passed.]

Science Education Committee--Simonen

The Interdivisional and Public Affairs Committee was renamed the Science Education Committee. Two Science Teachers' Day and two Plasma Science Expo events occurred in the past six months--at DPP97 and in Washington, DC in March 1998. A display is planned for the APS Centennial in Atlanta. PPPL led the planning for the DPP97 events, MIT will lead them for DPP98, and General Atomic planned the March 1998 events. The Pittsburgh Teachers' Day had 57 attendees and 1400 people visited the Plasma Science Expo. The Washington Teachers' Day and Expo attracted 112 and 1800, respectively. DPP funded the 1997 Plasma Expo at a cost of \$1382, which included travel of a New Orleans teacher, student busing, and covering \$175 in excess costs over contributions. The remainder of the funds for the Plasma Expo was raised from contributions. DPP also supported busing of students to the Expo in DC at an amount up to \$4000 and paid \$550 for a science fair prize.

The question was brought up in the Science Education Committee as to whether DPP should apply for DOE science education grants to sponsor some of these activities. Then travel funds might be available to smaller universities and colleges who would like to participate in the Plasma Expo. The committee would be responsible for allocating the funds. Nat asked whether it would be sensible to coordinate this with the activity already being done with regard to the lecture series at small colleges and universities through Barbara Abraham-Shrauner's

initiative. Nat said he would discuss this off line with Tom Simonen.

DPP Membership--Lettieri (written report)

The division membership for FY98 of 2516 is 6.17% of the total APS membership. For the last four years, we have had more than 6% of the total APS membership and therefore continue to have two councilors. Larger divisions are Condensed Matter (13.38%), Particles and Fields (8.27%), and Atomic, Molecular, and Optical (6.63%).

Making DPP a Generalized Meeting--Sessler

By moving the April general meeting to the fall, APS would then have one spring general meeting instead of two and, if DPP joined this new fall meeting, Andy said we would have the benefit of increased interaction with other physicists. Judy Franz has already discussed this with some of the other divisions attending the April meeting (Nuclear Physics, Astrophysics, and Particles and Fields). She asked us to consider the suggestion and, in particular, to try this as an experiment in 2001. The resultant meeting size would be about 2600 and the meeting would probably be held earlier than our meeting is presently held--in the mid October to early November timeframe. The meeting would meet occasionally in Washington.

The ensuing discussion generated both pro and con comments and clarifying questions. These included the potential loss of attendees who did not like larger meetings, the advantage of the increased interaction with other physicists, whether the selection of possible meeting sites would be reduced, the reduced variety of meeting sites, whether Physics of Beams and Fluid Dynamics would participate in a fall general meeting (Fluid Dynamics probably would not), how meeting logistics and flexibility might change, how we could attain a larger presence at the spring meeting, whether a test of the concept could be tried every other year, and whether a one-year experiment would be sufficient.

It was decided that, because this would represent a significant change, the DPP membership and meeting attendees should be consulted. The following motion was introduced: **Moved** (Hazeltine, Kruer) that we embrace the idea without committing to it. Before taking definitive action, we will discuss the idea with the plasma physics community at the next open business meeting or via email. The motion passed.

Barrie Ripin suggested that a model for how to make DPP a general meeting should be constructed from the DPP point of view. Richard Hazeltine suggested

that someone should be appointed to begin a dialogue with Andy Sessler about this issue.

UFA: Proposal to Endorse a Workshop--Mauel

Mike Mauel asked DPP to endorse an open community workshop on fusion energy development. The workshop, a successor to the forums for Major Next Step Fusion Experiments that would be held in the summer or early fall of 1999, is needed because of the lack of funding for ITER, the investment in non-tokamak devices in Japan, the U.S., and the U.K., and the expectation of increased government support for scientific research. Mike was not sure how long the workshop would be, but it would be similar in concept to the Snowmass-type meeting held by the high energy physics community. Endorsement is also being sought from IEEE and ANS. The workshop focus would be broad and would include ICF. It would focus on scientific issues and work on identifying common approaches; therefore, endorsement by industry and utilities would not be sought. Mike would like DPP to endorse the workshop, our advice on organizing it, and for us to advertise the workshop.

The ensuing discussion included whether the workshop would provide advice to DOE and the difficulty getting the international fusion community involved, and restricting the discussion to near-term rather than far-term options. Mike said the intent was to build consensus among the scientific community and that there would be coordination (later this was reworded to "cooperation" with DOE in organizing the workshop. He said Anne Davies is supportive of the concept. The workshop would be planned by an independent organizing committee. It was clear from the discussion that DPP did not want to endorse the workshop itself until specifics such as dates, location, and makeup of the organizing committee were known and that some ExCom members were concerned that an endorsement might be seen as endorsing a mechanism to provide policy advice to the Department of Energy.

The following motion was then made and passed with one abstention: **Moved** (Porkolab, Hazeltine) "that the DPP ExCom endorses the proposal by Professor Michael Mauel for a community-wide, Snowmass-type meeting sometime in 1999 to explore the scientific and technological options for the near-term advancement of fusion energy sciences. Mike Mauel will provide a report at the November ExCom regarding the specifics of the organization of the workshop. The DPP ExCom anticipates endorsing the workshop after the specifics are known."

Facilitate Move of Fusion Sciences to Science Account at DOE--Lubell

Mike Lubell, who is associated with the APS Office of Public Affairs, introduced this topic, which involved the appropriations budget being considered by Congress and fusion energy sciences being a part of the energy account. A **motion** (Porkolab, Cohen) was made to have the DPP officers send a letter to Ernie Muniz and his counterpart at the Office of Science and Technology Policy (Mike Tillson) endorsing the move of fusion sciences from the energy account to the science account. The letter would be followed up by a visit with Ernie and other government officials.

During the discussion of the motion, concern was expressed about the ability of fusion energy to compete with the bigger category of science and whether this would increase or decrease the fusion energy budget. It was pointed out that the belief in Congress is that energy issues should be left to the private sector. In a visit by several of the officers with Ernie in January, Ernie challenged the community to develop a power plant. The history of the location of the fusion energy sciences is that prior to 1990 they were under the science account; with the advent of ITER and the greater funding at that time, the account was moved to energy. The motion passed with 7 in favor and 1 opposed. It was decided that Michael Lubell should review the letter before it is sent.

Nominations Committee--Davidson

The following candidates were selected by the committee: Allen Boozer and Michael Liberman for Vice Chairman; Richard Hazeltine and Stewart Prager for Councillor; Vincent Chan and Ernest Valeo for Secretary-Treasurer; Michael Brown, Joel Fajans, Tom Katsouleas, Mark Koepke, Rick Spielman, and Charlie Verdon for ExCom. In addition, the following were nominated by 25 or more DPP members and agreed to run: Mary Ann Sweeney for Councillor, Richard Hawryluk for Vice Chairman, and Stan Kaye for ExCom.

Excellence in Plasma Physics--Remington

There are eight new nominations and six still active from 1996 and 1997 for the award.

Doctoral Thesis Award--Gilgenbach (written)

There were 12 new nominations this year.

Maxwell Prize--Goldston, given by Fisch

There are sufficient nominations for the award this year. Nat gave Rob's report; he was unable to attend because of his airport being fogged in.

Nicholson Medal--Kritz

The committee had no carryover nominations from the previous year and six new nominations. Vitaly

Ginzburg was selected for the 1998 award. A **motion** was made (Hazeltime, Lampe) and passed to provide travel funds for Ginzburg, if he is unable to obtain such funds elsewhere, to attend the DPP98 meeting and accept the award. These funds would be independent of the \$2000 in funds authorized by the ExCom in March for DPP98 invited speakers.

Fellowship--Drake

The committee recommended nine for fellow and three as alternates from 48 nominations. One nomination was forwarded to Physics of Beams. Two others were recommended to the Forum on International Physics. A **motion** (Sweeney, Lampe) was passed approving the proposed slate of 12 fellows.

Physics Colloquium Project--Shrauner/Hazeltime

The distinguished lecturers--Prager, Krueger, Mike Zarnstorff, Frank Chen, and Tom O'Neil--gave/will give 19 lectures from January to May. Barbara Shrauner is to be thanked for initiating the concept for this project and then following through on it.

Formation of DPP Science Advisory Council of Past Chairs--Prager/Hazeltime

In a brief discussion at the November ExCom, it was decided that changes in the scientific environment and discontent with the character of ExCom meetings might merit formation of an Advisory Council of previous DPP Chairs. The subcommittee of Stewart Prager and Richard Hazeltime reported that the formation of such a council did not make sense. Instead, we should 1) have an annual ExCom retreat, 2) have an additional meeting without committee reports, 3) reorganize one of the two existing meetings, with no oral committee reports and instead have a carefully thought out, content-oriented agenda, or 4) have a 2-day or 1-1/2-day meeting. Comments by ExCom about this report included the following: 1) use email more to inform DPP members and ExCom members about issues, 2) make sure that there are important issues to discuss, 3) consider formulating motions for DPP ExCom in advance via a subcommittee, even if such motions end up getting changed during a discussion at the ExCom, 4) new officers should be given more advice/assistance by outgoing officers and a chairman might form an adhoc committee for this purpose, 5) email is already overloaded and should not be used to formulate motions and issues.

DPP 2000 and 2001 Site Selection--Sweeney

The site for 2000 was discussed by email by the voting members of the ExCom and the following motion was passed on February 17 (13 in favor, 2 against). "**Moved** (Sweeney, Jarboe) that DPP hold its meeting in 2000 in Quebec City as a joint

meeting with the International Congress of Plasma Physics if suitable facilities and a suitable time period in the fall are identified and if the representatives of ICPP are agreeable. Technical sessions would be joint sessions and the program for the meeting would be decided by one Program Committee that includes representatives from both DPP and ICPP. Meeting registration fees and the details of the sharing of finances will be determined by representatives of the two entities, DPP and ICPP, with the understanding that the registration fee structure will retain enough flexibility that DPP attendees will not be required to pay for peripherals that are not a part of the usual DPP format."

Subsequent to passing the motion, the date of 22-27 October 2000 was obtained for the Quebec Convention Center. Hotel possibilities include the Quebec Hilton, Loews le Concorde, Radisson Gouverneurs, and Chateau Frontenac. The S-T will represent the Site Selection Committee on a site tour April 21-22; the ICPP interaction will not be happening at that time, since Michael Tendler has informed her that he will not be able to attend. Mary Ann suggested that Tudor Johnson should be seriously considered as a candidate for Local Arrangements Chairman for the meeting. Donna Baudrau will tour the site sometime in the summer.

1998 DPP Local Arrangements--McCarthy

Meeting room space is a problem in the Fairmont and the room for the plenary talks has pillars that interfere with viewing. It may be necessary to use the Radisson for some of the technical sessions. The Plasma Expo will not be able to be in the Fairmont. The Plasma Expo will be November 19-20; Teachers' Day will be November 17. It might be possible to have two poster sessions, each two hours long, for the afternoons. Dan has prepared a written report that maps the Pittsburgh meeting into the available space in the Fairmont. The official site meeting review in New Orleans will occur at the end of May/beginning of June.

Barbara Kritz will be helping with the Companions' Program. Nat read a letter from the spouse of a Japanese attendee at the Pittsburgh meeting thanking Barbara for her assistance while attending the Pittsburgh meeting.

1999 Local Arrangements Chairman--Drake

Loren Steinhauer (Univ. Washington) is the Local Arrangements Chairman for DPP98.

Topical Group on Plasma Astrophysics--Coppi

The topical group will be sending its petition to form a new forum to Judy Franz. The proposal will then be discussed at the next Council Meeting. Bruno would like to suggest invited speakers for DPP98 and the Centennial in Plasma Astrophysics.

International Cooperation--Fisch

We are cooperating with other international societies, including the Japanese Physical Society and the European Physical Society, and will be holding our meeting in conjunction with the ICPP in 2000.

Teachers' Day/Plasma Expo--Stewart

A **motion** (Kruer, Jarboe) was made and passed to provide funds of up to \$4500 for AV equipment, busing, a science fair prize, and travel of a Seattle teacher to DPP98.

Meeting Announcements--Stewart

The deadline for the summer newsletter is 3 July, the ballot return deadline is 25 September, and deadline for the October *APS Meeting News* is 7 August. Saralyn asked for feedback about the DPP web page. Jim Drake asked for a clear deadline of the winter newsletter since the late publication caused problems for receipt of fellowship nominations.

Washington Outreach--Fisch/Porkolab

Richard asked if the annual tours by some of the officers enough, are they a token gesture, or should something different be done instead? Should they continue to be done?

NSF-DOE Basic Plasma Support--Fisch/McKnight

Stewart Prager, Richard Hazeltine, and Nat Fisch made a trip to NSF in early November to discuss the NSF/DOE initiative in plasma physics. This initiative is a one-time thing and will not be repeated. Jim Drake felt NSF should have a substantial pot of money reserved for plasma physics.

Public Information Coordinator--Remington (written)

Public information activities included a press release on DPP97 and encouraging *Physics Today* to invite P.E. Vanderplas to prepare an article on European fusion research.

Concerns for Young Scientists--Scime (written)

Earl is seeking advice about a career path session for DPP98. These were held in 1994-1996. Possible topics include national laboratory employment and NRC postdoctoral fellowships.

Commemorating the 40th DPP Meeting--Fisch

A **motion** (Kruer, Hazeltine) was made and passed that up to \$5,000 be allotted to purchase something special in commemoration of the 40th DPP meeting.

Other Business--Fisch

Are there larger issues that DPP ExCom is ignoring that we should be addressing and, if so, how should we address these issues?

Bill Kruer said the committee should address the "bad press" in plasma science. Nat will ask Bruce Remington, the Public Relations Coordinator, to address this issue.

Bruno Coppi believes that plasma physics has segregated itself too much from other science and that we need to go to the meetings of other fields. He mentioned a comment by Will Happer that plasma physics is the only field that depends upon DOE entirely for funding.

Arnold Kritz said the general public relations/lecturer series is very good, but too small, and that we need to be proactive in other ways. Richard feels that the distinguished lecturers program should only be done for two to three years. John Finn said this program is very important in interesting undergraduates, as future scientists, in plasma physics.

Jim Drake asked how DPP could be more effective in interacting in Washington and in leading our field. Richard would like the DPP ExCom to develop a list of key issues and accomplishments for the field. Scott Parker would like to address the future of fusion.

It was decided that the ExCom would address additional ideas about having a retreat via email, including how to make DPP more effective in leading the field and in determining where the expanding areas of plasma physics are. Nat took several straw votes. Martin Lampe proposed that 4 hours of the agenda at future ExCom meetings should be devoted to routine reports and that the remaining four hours should be devoted to new ideas, rather than having a retreat.

Review of Past Action Items--Fisch

The following items from the November meeting have not been completed:

1. Site selection trips for 2000 and 2001. (Hazeltine, Sweeney) Quebec City was selected for 2000 by email vote. Sweeney will visit next week. A 2001 trip awaits the general mtg. decision.
2. Ask again if APS Council will allow us to endorse the activities of the Coalition on Plasma Science. (Fisch)
3. Add best tutorial topics and speakers at the DPP97 meeting to the home page. (Stewart)

4. Send ideas to Donna Baudrau and Barrie Ripin about the session numbering scheme at the meeting. (all ExCom) because DPP attendees were not happy with the new scheme adopted by the 1997 PC. The Program Committee will address this issue at their July meeting.
5. Negotiate funding of the Maxwell Prize with the recommendation that recipients can be international. (Ripin) Form subcommittee to look into permanent endowment via fundraising if an endowment cannot be obtained from Maxwell. (Fisch)

New Action Items--Fisch/Sweeney

1. A subcommittee, consisting of Hazeltine and Davidson, will examine the possible options for the James Clerk Maxwell Prize and report to the DPP ExCom in November because of the expectation that Maxwell Technologies will not agree to endow the prize. [Subsequent to the April ExCom, Maxwell Technologies agreed to fund the prize year by year, so the subcommittee on fundraising needs to be formed.]
2. Redo the meeting questionnaire that was distributed at DPP97. It was recommended by Scott Parker and agreed to by Porkolab that a higher return rate could be obtained if the questionnaire was distributed by email following the fall DPP meeting.
3. Address via email the request by the Sherwood meeting Program Committee to subsidize the extraordinary expenses of Sherwood at the APS

Centennial. (Drake and members of DPP ExCom)

4. Survey the DPP membership and DPP attendees, either at the DPP98 Open Business Meeting or via email to get feedback on the fall general meeting proposal (Fisch).
5. Prepare a letter to Ernie Moniz of DOE and his counterpart at the Office of Science and Technology Policy endorsing the move of fusion sciences from the energy account to the science account at DOE (DPP officers: Fisch, Porkolab, Drake, Sweeney) and follow up with a visit in Washington.
6. Andy Sessler will get back to us about further suggestions for the fall general meeting concept.
7. Mike Mauel will report back to the ExCom in November about organization of the proposed Snowmass-type workshop.
8. Generate suggestions for how to commemorate the 40th DPP meeting. (Kruer, Sweeney, Cohen)
9. Approach the APS Council again about seeking approval for DPP to endorse the activities of the coalition.

The meeting adjourned at 4:15 PM.

Respectfully submitted,
Mary Ann Sweeney
 DPP Secretary-Treasurer

APS Newly Elected Fellows

Division of Plasma Physics, Division of Computational Physics, Forum on Education

James Chen

Naval Research Laboratory

For innovative and unique research in chaos and nonlinear dynamics, and in the evolution of large-scale solar plasma eruptions and their impact on the magnetosphere.

Steven Charles Cowley

University of California, Los Angeles

For the development of the theory of spin polarized plasmas, the discovery of explosive mechanisms in MHD, and general theory of fusion and astrophysical plasmas.

Luiz Barroca Da Silva

Lawrence Livermore National Laboratory

For his pioneering use of x-ray lasers and laser generated shock waves to study high density plasmas.

Roderick William Boswell

Australian National Univ., AUSTRALIA

For the invention, development, theory and applications of the helicon plasma source.

Guy Dimonte

Lawrence Livermore National Laboratory

For outstanding contributions to understanding turbulence and mixing in high energy density fluids by novel experimental techniques and facilities.

Sharon Gail Glendinning

Lawrence Livermore National Laboratory

For her remarkably clear and illuminating experimental investigations of ablation-front Rayleigh-Taylor instability, laser imprinting, collective nonlinearity, and deep nonlinear hydrodynamic instabilities relevant to inertial confinement fusion, high energy-density physics and astrophysics.

Steven Harvey Gold

Naval Research Laboratory

For outstanding contributions to research on high power, coherent radiation sources driven by intense, relativistic electron beams, including millimeter-wave free-electron lasers, gyrotron oscillators and amplifiers, and the magnicon.

Rush D. Holt

Princeton Plasma Physics Laboratory

For advancing the health of science in the US through important contributions to plasma physics research, public science education reform, and public service.

Ieuan Rinalt Jones

Flinders University of South Australia, AUSTRALIA

For advancing the understanding of the interaction of radio frequency power with plasma and has pioneered the use of

rotating magnetic fields to produce the Rotamak compact torus configuration.

Michael T. Kotschenreuther

University of Texas at Austin

For fundamental contributions to the self-consistent theory of magnetic island formation, for the implementation of the §f numerical technique, and for developing theoretical techniques that quantitatively reproduce plasma transport in tokamaks.

Arnold H. Kritz

Lehigh University

For the development of innovative simulation tools to study wave heating, current drive and transport in plasmas, and for inspired leadership in a teamed approach to large computations.

William Henry Matthaeus

University of Delaware

For contributions to understanding of fluid and plasma relaxation processes, for pioneering work on novel lattice gas simulation methods, and for advances in understanding of turbulence and particle scattering in space plasmas.

George H. Neilson

Princeton Plasma Physics Laboratory

For his pioneering work in the exploitation of magnetic equilibrium diagnostics and for his leadership in the physics design of fusion experiments.

Harvey A. Rose

Los Alamos National Laboratory

For seminal contributions to the linear and nonlinear theory of laser induced instabilities in plasmas and the role of Langmuir turbulence in the saturation of these instabilities.

Dmitri D. Ryutov

Lawrence Livermore National Laboratory

For his long-continued contributions to the diverse areas of fusion plasma and astrophysical research, in a career characterized by exceptional analytical skills and innovative ideas.

Steven Douglas Scott

Princeton Plasma Physics Laboratory

For definitive experimental investigations of the cross-field transport physics of heat, particles, and angular momentum in tokamak plasma.

Antonio C. Ting

Naval Research Laboratory

In recognition of his seminal experimental and theoretical contributions to the field of ultra high intensity laser interactions.