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Meeting—Sunday, November 14, 1999

Minutes of the DPP Business Meeting—

Wednesday, November 17, 1999

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Important Deadlines for your Calendar—2000

- April Meeting (Apr 29-May 2, Long Beach)
- 42nd Annual Meeting (Oct 23-27, 2000, Quebec City)

DPP web site

w3fusion.ph.utexas.edu/aps/

Teachers Day/Expo Activities

TEACHERS DAY

Seattle, Washington—November 16, Westin Hotel. 114 teachers attended Teachers Day. Registration was streamlined by prearranging workshops. Each teacher's check-in folder included workshop descriptions, Westin floor plans, a certificate of participation, Plasma Expo information, and a special acknowledgement of support from local vendors.

David Newman's, U. of Alaska, plasma and fusion overview was extremely well received, and started the day off with a high energy level.

The 6 education workshops had no more than about 20 participants in each session

- Plasma Physics from "A" to "Z": (high school teachers only) Sam Lightner, Andrew Post-Zwicker, Robert Reiland, and Ted Zaleskiewicz
- Plasma-Science and Application: Alexander Nagy
- Radiation, Radioactivity and Risk Assessment: Pete Taylor
- Electromagnetic Spectrum-Nature's Information Center: Rick Lee
- Fluid Instabilities: Robert Benjamin
- Dynamic Sun: Paul Dusenbery

Washington State teachers attending education workshops that enhance their performance ratings were eligible to receive credits for Teachers Day activities. These credits were arranged through the local school districts.

APS officers, DPP executive committee members, and program committee members had lunch with the teachers. Seattle Councilman Richard Conlin attended and greeted the teachers. Guest speaker Bo Hammer, AIP, discussed "Careers in Physics." Total attendance at the lunch was 170.

Special Awards were presented to a small group of Seattle Educators that helped us plan our activities. The awards were presented at lunch.

EDUCATION POSTER SESSION

Each year, teachers are encouraged to attend the Education and Outreach poster session after their last workshop. A significantly larger percent of teachers attended this year's poster session, most likely because of the convenience of the two sessions.

PLASMA SCIENCES EXPO: SEATTLE CENTER

Thursday, November 18: 1,526 students

Thursday Evening: Approximately 80 students (mostly middle school) attended, plus one to two parents per student. Some visitors had seen the publicity poster at libraries and in local weekly newspapers.

Continue on page 3.

Call for Nominations for 2000 APS Fellowship Deadline: Saturday, April 1, 2000

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). An asterisk next to the member's name in the current APS Membership Directory indicates fellowship status for members of the DPP. A Fellowship nomination form is available in 3 different formats that can be downloaded from www.aps.org/fellowship/form.html. The original nomination package should be mailed to the Executive Officer at APS (see address below), along with a cover letter stating that a copy has also been sent to Martin Lampe, DPP Vice-Chair (see address below):

Original:

Executive Officer
The American Physical Society
One Physics Ellipse
College Park, MD 20740-3844
Attn: Fellowship Program

Copy:

Martin Lampe
Code 6709
Naval Research Lab
4555 Overlook Avenue SW
Washington, DC 20375-5346

Deadline for receipt of the nomination package is: Saturday, April 1, 2000.

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

- (1) a completed and signed 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 to three additional supporting letters, although there is no required number of supporting letters. The curriculum vita should be appended as part of the 20 single-sided page limit. Note that these instructions differ somewhat from those on the APS web site. A list of DPP members holding APS Fellowship rank is on the DPP web site at <http://3wffusion.ph.utexas.edu/aps/>.

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 APS membership in good standing 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 final approval is given by the full 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.

2000 Fellowship Committee

Martin Lampe, <i>Chair</i>	NRL	202-767-4041
Maha Ashour-Abdallah	UCLA	310-825-8881
John Finn	LANL	505-667-8156
Gail Glendinning	LLNL	925-423-3065
Valery Godyak	Sylvania	508-750-1510
Victor Granatstein	U. of Maryland	301-405-4956
Stanley Humphries	U. of New Mexico	505-277-5422
Thomas Simonen	General Atomics	858-455-3522
William Tang	PPPL	609-243-2612

(A Fellowship Nominations form can be printed from the APS web site, go to www.aps.org/fellowship/form.html.)

Teachers Day/Expo Activities

Continued from page 1.

Friday, November 19: 1,480 students

Expo ATTENDANCE: Total **3,086 students** representing 57 schools (25 high schools and 32 middle schools) and 70 teachers (46 attended Teachers Day). Only four schools didn't show.

The Plasma Expo had 22 exhibitors. Local exhibitors included Bellevue Community College and University of Washington. International exhibitors were EURATOM and Novosibirsk State University. Novosibirsk's exhibit was based on the first US-Russian Olympiad.

It was refreshing to hear comments from a "first-time" exhibitor. Gary DeLeo of Lehigh University wrote: "... Lisa Regalla and I had the experience of a lifetime. By the end, we were physically and emotionally exhausted, but filled with pride and joy by the opportunity we had to do so much good—an opportunity that you so thoughtfully provided! We also found ourselves learning a great deal about the expression of complex scientific concepts to young audiences. Never in our outreach programs have we had such opportunities to repeat presentations so frequently. We were able to refine our ways of expressing these concepts throughout the two-day period, a learning experience that cannot be reproduced by sitting at a desk, or by infrequent presentations to young audiences. ...my sincerest thanks for organizing this stellar outreach expo, and for including Lehigh among the participants."

In addition to the support that APS and DPP members give to Education Activities, this year DOE Fusion Energy Sciences provided funds to support ground transportation costs for students to attend the Plasma Expo. Teachers from Evergreen Middle School wrote: "The Expo, with its many hands-on learning activities and experiences, was rewarding for the students who attended. Due to budget limitations, our students do not have many opportunities to engage in educational activities beyond the normal school experience. Your generous contribution to cover our transportation costs allowed us to participate in an event that otherwise would not have been an option for us."

Expo exhibitors submitted questions to teachers for student homework, or extra credit work. This approach produces more involvement between students and scientists. Plans for the future are to revise the questions/answer format requiring the students to spend more time focusing on the experiments and not be so intense on "just getting the answers."

The number of "interactive, hands-on demo-type" exhibits is very popular and continues to increase to near 100%. Four years ago, about 50% of the exhibits were interactive.

The number of volunteer technical staff that help "man" the exhibits has increased. New volunteers are always amazed and excited by the energy level the Expo creates.

3rd INTERNATIONAL OUTREACH COLLABORATION was held on Monday evening and attended by approximately forty (40) representatives of the national and international communities. International attendees present were Jef Ongena (EURATOM), Boris Knyazev (Novosibirsk State University, Siberia); and Andrea Blondin, Quebec Teachers Association. The 2nd US-Russian Internet Physics Olympiad was announced. Plans for the next Olympiad are progressing and will be expanded to four sites, two American (San Diego and Seattle) and two Russian sites.

PUBLICITY:

Featuring a presentation by Roger Feeley, University of Wisconsin, "Wonders of Physics" at the Seattle Center House on Saturday, November 13. It was well attended by over 100 students and parents. Roger also visited 4 local elementary schools and exhibited at the Expo.

Donald Correll
DPP Education Outreach Chair

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.

Call for Nominations for Prize and Awards

A prize or award presented by APS is one of the highest honors a physicist can receive. The DPP solicits nominations for one prize, two awards and one medal annually. The deadline for receipt of these nominations is **Saturday, April 1, 2000**. Please take the time to nominate exceptional DPP colleagues.

Any APS member other than a member of the committee making the selection may submit one nomination or seconding letter for each prize and each award in any given year. A nomination should include: (1) a letter of not more than 1,000 words evaluating the nominee's accomplishments and contributions, designating the particular features of the prize or award and identifying the specific work to be recognized, (2) a biographical sketch or complete CV, (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 **Saturday, April 1, 2000**. There is no nomination form for DPP prize and awards. Acknowledgement of receipt will be emailed upon your request to the committee chairs. Descriptions of the prizes and awards are enclosed.

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.

Guidelines:

Five (5) copies of your nomination and supporting documentation should be mailed to Jeffrey Freidberg.

Maxwell Prize Chair:

Jeffrey Freidberg
Massachusetts Institute of Technology
Department of Nuclear Engineering
Room 24-107
Cambridge, MA 02139
Tel: 617-253-8670
Fax: 617-258-7437
Email: jpfreid@mit.edu

Deadline:

Saturday, April 1, 2000

Committee:

Jeffrey Freidberg, <i>Chair</i>	MIT	617-253-8670
Jill Dahlburg, <i>Vice-Chair</i>	NRL	202-767-5398
Gerald Navratil	Columbia U.	212-854-4496
Szymon Suckewer	Princeton U.	609-258-4738
J.B. Taylor (1999 recipient)	Culham Lab (retired)	44-1491-837269

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 given to a set of scientists, as appropriate, to honor those who make essential contributions to the cited research achievement. Nominations are active for three years.

Guidelines:

Five (5) copies of your nomination and supporting documentation should be mailed to Earl Marmor.

Excellence Award Chair:

Earl Marmor
 Massachusetts Institute of Technology
 Plasma Science and Fusion Center
 Room NW17-119
 Cambridge, MA 02139
 Tel: 617-253-5455
 Fax: 617-253-0627
 Email: marmor@psfc.mit.edu

Deadline:

Saturday, April 1, 2000

Committee:

Earl Marmor, <i>Chair</i>	
MIT	617-253-5455
Steven Cowley, <i>Vice Chair</i>	
UCLA	310-825-4770
Raymond Fonck (1999 recipient)	
U. of Wisconsin	608-263-7799
Frederick Skiff	
U. of Iowa	319-335-0564
John Soures	
U. Rochester	716-275-3866

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 endowed in 1997 by General Atomics Incorporated.

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.

Guidelines:

Five (5) copies of your nomination and supporting documentation should be mailed to Linda Vahala.

Doctoral Thesis Chair:

Linda Vahala
 Old Dominion University
 Department of Electrical & Computer Engrg
 Kaufmann Hall, Room 231
 Norfolk, VA 23529
 Tel: 757-683-4968, or 757-683-3741
 Email: lvahala@odu.edu

Deadline:

Saturday, April 1, 2000

Committee:

Linda Vahala, <i>Chair</i>	
Old Dominion U.	757-683-4968
Cary Forest, <i>Vice-Chair</i>	
U. of Wisconsin	608-263-0486
Walter Gekelman	
UCLA	310-206-1772
Howard Milchberg (1999 Advisor)	
U. of Maryland	301-405-4816
Scott Parker	
U. of Colorado	303-492-3292

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 that includes the citation for which the recipient has been recognized. It will be presented annually.

Establishment and Support:

The Division of Plasma Physics and the Forum on Physics and Society established this medal in 1994.

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 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.

Guidelines:

Six (6) copies of your nomination and supporting documentation should be mailed to Linda Vahala.

Nicholson Medal Chair:

Herbert Berk
University of Texas at Austin
Department of Physics, RLM 11.326
Dean Keeton & Speedway Streets
Tel: 512-471-1364
Fax: 512-471-6715
Email: hberk@mail.utexas.edu

Deadline:

Saturday, April 1, 2000

Committee:

Herbert Berk, <i>Chair</i>	
U. of Texas	512-471-1364
Harold Weitzner, <i>Vice-Chair</i>	
New York U.	212-998-3267
George Morales	
UCLA	310-825-4318
Fay Ajzenberg-Selov (1999 Co-recipient)	
Haverford College	215-898-5645
Mildred Dresselhaus (1999 Co-recipient)	
MIT	215-898-5645
Peter Zimmerman	
APS-FPS	703-759-0600

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...

Nominations:

**Fellowship
Prize / Awards
2001 ExCom Members
Saturday, April 1, 2000**

Invited Speakers:

**Review
Specialized
Tutorial
Wednesday, May 17, 2000**

**Contributed Abstracts
Wednesday, July 12, 2000**

Nominations for Officer and Members of the Division of Plasma Physics

Nominations are being requested for 2001 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. The Nominations Committee, chaired by Jill Dahlburg, will select a slate of candidates. Cast your vote via the electronic ballot via the DPP web site <w3fusion.ph.utexas.edu/aps> in August. Paper ballots will be mailed only to DPP members that DO NOT receive unit email messages.

Members nominated by at least 1% of the DPP (about 25 members) will automatically be placed on the ballot. The DPP Vice-Chair will be the Chair of the Fellowship Committee in 2001; 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.

Jill Dahlburg
Code 6730
Naval Research Laboratory
4555 Overlook Avenue, SW
Washington, DC 20375
Phone: 202-767-5398
Fax: 202-767-4798
Email: dahlburg@lcp.nrl.navy.mil

Deadline for receipt of nominations:

Saturday, April 1, 2000

Cut along this line and mail, fax, or email candidates to dahlburg@lcp.nrl.navy.mil.

2000 Nomination Form for Executive Committee

Vice-Chair (one)

Executive Committee Member (3)

Signature of APS-DPP Member

***Deadline:* Saturday, April 1, 2000**

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.

James Drake, 2000 Chair

2000 Executive Committee

Chair:

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

Chair-Elect:

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

Vice-Chair:

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

Past Chair:

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

Secretary-Treasurer:

Vincent Chan General Atomics 858-455-4162 chanv@gav.gat.com

Divisional Councillor:

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

Members:

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

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

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

Peter Gary LANL 505-667-3807 pgary@lanl.gov

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

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

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

Martin Peng ORNL and PPPL 609-243-2305 mpeng@pppl.gov

Richard Petrasso MIT 617-253-8458 petrasso@psfc.mit.edu

2000 Appointed Committees

Program Committee for Invited and Contributed Papers

Allen Boozer, <i>Chair</i>	Columbia U.	212-854-4785	ahb17@columbia.edu
David Anderson	U. of Wisconsin	608-262-0172	dtanders@facstaff.wisc.edu
Rejean Boivin	MIT	617-253-8695	boivin@psfc.mit.edu
Derek Boyd	U. of Maryland	301-405-5007	db44@uemail.umd.edu
Charles Bush	ORNL	609-683-3526	bushce@ornl.gov
Vincent Chan	General Atomics	858-455-4162	chanv@gav.gat.com
Donald Correll	LLNL	925-422-6784	correll1@llnl.gov
Real Decoste	CCFM, CANADA	450-652-8715	decoste@ccfm.ireq.ca
James Drake	U. of Maryland	301-405-1471	drake@plasma.umd.edu
Eric Esarey	BNL	510-486-5925	ehesarey@llnl.gov
Juan Fernandez	LANL	505-667-6575	juanc@lanl.gov
Richard Fitzpatrick	U. of Texas	512-471-9439	rfitzp@farside.ph.utexas.edu
John Gardner	NRL	202-767-6582	gardner@lcp.nrl.navy.mil
David Gates	PPPL	609-243-2837	dgates@pppl.gov
Gail Glendinning	LLNL	925-423-3065	glendinning@llnl.gov
Victor Granatstein	U. of Maryland	301-405-4956	vlg@plasma.umd.edu
Martin Greenwald	MIT	617-253-0627	g@psfc.mit.edu
Chris Hegna	U. of Wisconsin	608-263-0810	heгна@cptc.wisc.edu
David Hill	LLNL	925-423-0170	hill7@llnl.gov
Daniel Hoffman	Applied Materials	408-584-9341	daniel_hoffman@amat.com
Jay Hirshfield	Yale U.	203-432-5428	jay.hirshfield@yale.edu
Sergei Krasheninnikov	UC, San Diego	858-822-3476	skrash@mae.ucsd.edu

Program Committee for Invited and Contributed Papers, continued

Jay Kushner	U. of Illinois	217-244-5137	mjk@uiuc.edu
Martin Lampe	NRL	202-767-4041	lampe@ppd.nrl.navy.mil
W.W. Lee	PPPL	609-243-2647	wwlee@pppl.gov
Richard Lovelace	Cornell U.	607-255-3968	rvl1@cornell.edu
William Matthaeus	U. of Delaware, Bartol	302-831-8111	yswhm@bartol.udel.edu
Keith Matzen	Sandia Labs	505-845-7756	mkmatze@sandia.gov
Kunioki Mima	Osaka U.	81-06-877-5111	mima@ile.osaka-u.ac.jp
David Newman	U. of Alaska	907-474-7858	ffden@uaf.edu
Chuck Roberson	Office of Naval Res.	703-696-4222	robersc@onr.navy.mil
Barbara Shrauner	Washington U.	314-935-6134	bas@ee.wustl.edu
Gennady Shvets	PPPL	617-253-5952	gena@pppl.gov
Andrei Smolyakov	U. of Saskatchewan	306-966-6432	smolyakov@sask.usask.ca
Reiner Stenzel	UCLA	310-825-4029	stenzd@physics.ucla.edu
Max Tabak	LLNL	925-423-4791	tabak1@llnl.gov
Tony Taylor	General Atomics	858-455-3559	taylor@gav.gat.com
Richard Town	U. of Rochester	716-275-1440	rtow@lle.rochester.edu
Gene Tracy	William and Mary	757-221-3527	tracy@physics.wm.edu
Harold Weitzner	New York U.	212-998-3267	weitzner@cims.nyu.edu
Alan Wootton	LLNL	925-422-6533	wootton1@llnl.gov

Local Arrangements for Seattle, Washington Annual Meeting

Rejean Boivin, <i>Chair</i>	MIT	617-253-8695	boivin@psfc.mit.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
Allen Boozer	Columbia U.	212-854-4785	ahb17@columbia.edu
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

Martin Lampe, <i>Chair</i>	NRL	202-767-4041	lampe@ppd.nrl.navy.mil
Maha Ashour-Abdallah	UCLA	310-825-8881	
John Finn	LANL	505-667-8156	
Gail Glendinning	LLNL	925-423-3065	
Valery Godyak	Sylvania	508-750-1510	
Victor Granatstein	U. of Maryland	301-405-4956	
Stanley Humphries	U. of New Mexico	505-277-5422	
Thomas Simonen	General Atomics	858-455-3522	
William Tang	PPPL	609-243-2612	

Publication Committee

John Cary, <i>Chair</i>	U. of Colorado	303-492-1489	cary@colorado.edu
Michael Brown	Swarthmore	610-328-8648	
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 Hershkowitz	U. of Wisconsin	608-263-4970	
James Knauer	U. of Rochester	716-275-2074	
Bruce Langdon	LLNL	925-422-5444	
Douglass Post	LLNL	925-423-6849	
Linda Sugiyama	MIT	617-253-8538	

2000 Appointed Committees, continued**Human Rights Committee**

Sergei Krasheninnikov, <i>Chair</i>	UC, San Diego	858-822-3476	skrash@mae.ucsd.edu
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	

Education and Outreach Committee

Donald Correll, <i>Chair</i>	LLNL	925-422-6784	correll1@llnl.gov
Herbert Berk	U. of Texas	512-471-1364	
Michael Brown	Swarthmore	610-328-8648	
Kimberly Budil	LLNL	925-423-8098	
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	U. of Alaska	907-474-7858	
Andrew Post-Zwicker	PPPL	609-243-2116	
Sherrie Preische	US Government		
Barrett Ripin	APS-Retired		
Thomas Simonen	General Atomics	858-455-3522	
Richard Temkin	MIT	617-253-5528	

Nominations Committee

Jill Dahlburg, <i>Chair</i>	NRL	202-767-5398	dahlburg@lcp.nrl.navy.mil
Earl Scime	U. West Virginia	304-293-3422	
Tom Antonsen	U. of Maryland	301-405-1635	
Ronald Parker	MIT	617-253-8100	
Joel Fajans	UC, Berkeley	510-642-3872	

Site Selection Committee

Miklos Porkolab, <i>Chair</i>	MIT	617-253-8448	
Vincent Chan	General Atomics	858-455-4162	

International Union of Pure and Applied Physics, Commission 16

Noah Hershkowitz, <i>Representative</i>	U. of Wisconsin	608-263-4970	hershkowitz@enr.wisc.edu
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James Clerk Maxwell Prize

Jeffrey Freidberg, <i>Chair</i>	MIT	617-253-8670	jpfreid@mit.edu
Jill Dahlburg, <i>Vice-Chair</i>	NRL	202-767-5398	
Gerald Navratil	Columbia U.	212-854-4496	
Szymon Suckewer	Princeton U.	609-258-4738	
J.B. Taylor (1999 recp)	Culham Lab (retired)	44-1491-837269	

Award for Excellence in Plasma Physics Research

Earl Marmor, <i>Chair</i>	MIT	617-253-5455	marmor@psfc.mit.edu
Steven Cowley, <i>Vice-Chair</i>	UCLA	310-825-4770	
Raymond Fonck (1999 recp)	U. of Wisconsin	608-263-7799	
Frederick Skiff	U. of Iowa	319-335-0564	
John Soures	U. of Rochester	716-275-3866	

2000 Appointed Committees, continued**Award for Outstanding Doctoral Thesis in Plasma Physics**

Linda Vahala, <i>Chair</i>	Old Dominion U.	757-683-4968	lvahala@odu.edu
Cary Forest, <i>Vice-Chair</i>	U. of Wisconsin	608-263-0486	
Walter Gekelman	UCLA	310-206-1772	
Howard Milchberg (1999 Advsr)	U. of Maryland	301-405-4816	
Scott Parker	U. of Colorado	303-492-3292	

Nicholson Medal for Humanitarian Service Award

Herbert Berk, <i>Chair</i>	U. of Texas	512-471-1364	hberk@mail.utexas.edu
Harold Weitzner, <i>Vice-Chair</i>	New York U.	212-998-3267	
Fay Ajzenberg-Selov (99 recp)	Haverford College	215-898-5645	
Mildred Dresselhaus (99 recp)	MIT	617-253-6864	
George Morales	UCLA	310-825-4318	
Peter Zimmerman	APS-FPS	703-759-0600	

**Minutes of Executive Committee Meeting
Division of Plasma Physics (DPP)
Sunday, 14 November 1999
Westin Hotel
Seattle, Washington**

Attendees:**ExCom Members:**

Miklos Porkolab, Jim Drake, Allen Boozer, Nat Fisch, Vincent Chan, Bill Kruer, Richard Hazeltine, Michael Brown, Sam Cohen, Joel Fajans, John Finn, Walter Gekelman, Tom Jarboe, Mark Koepke, Martin Lampe, Scott Parker

Members Elect:

Peter Gary, Martin Peng, Richard Petrasso

Sub-Committee Chairs:

Don Correll, Loren Steinbauer, Bruce Remington

Guests:

Andrei Smolyakov (attended on behalf of Richard Marchand), Michael Lubell, M. Wakatani, Noah Hershkowitz, Rejean Boivin, Real Decoste, Tudor Johnston, Donna Baudrau, Mike Mauel, Trish Lettieri, Judy Franz, Barrie Ripin, Martha Redi, Gerry Rogoff

Administrator/Editor DPP Newsletter:

Saralyn Stewart

Opening Remarks and Announcement of New ExCom Members and Guests–Porkolab

Miklos Porkolab called the meeting to order at 10.00 AM and announced the 1999 DPP election results. New ExCom members, Peter Gary, Martin Peng and Richard Petrasso, and the vice-chair elect, Martin

Lampe, were introduced. Their terms will start after this meeting.

Review of Action Items–Porkolab

All action items have been completed. Further discussions of science hot topics and joint DPP/ICCP meeting was deferred to later agenda.

Request for Endorsement of Future Meetings–Porkolab

Miklos explained the procedure for endorsement. A letter of request has to be submitted to the DPP Chair for discussion with ExCom. Subject to approval, the Chair will ask APS for endorsement.

The request from the Sherwood Theory Meeting has been submitted to APS awaiting a decision. The Conference on Frontier Science on NIF has been asked to submit a specific proposal at the spring 2000 ExCom. Discussion of the 2001 RF Conference will be done via e-mail.

Jim Drake asked whether DPP has to endorse every meeting that comes along. The Chair will ask for input from Judy Franz.

March Executive Committee Minutes–Chan

The March minutes were passed without revision (**motion:** Boozer, seconded by Koepke).

Secretary-Treasurer Report–Chan

Vincent Chan reported the DPP account as of 9/30/99 had a total asset of \$254,170, which included retained earnings of \$163,872 and net revenue of \$90, 298.

The Educational Outreach Program has received institutional contributions totaling \$3100, and personal contribution totaling \$1900 this year to date. Letters of appreciation have been sent to the contributors.

Based on the pre-registration number, DPP99 was projected to achieve at least a balanced budget.

A motion was proposed that DPP would no longer provide free refreshment at the annual meeting (motion: Cohen, seconded by Koepke). The motion was defeated.

A list of noteworthy items since DPP98 was summarized. This included a change in the APS by-law to hand over the oversight of the thesis awards to the individual units. The units' bylaws should also be changed to reflect this change.

Action Item: The secretary-treasurer will draft the changes in the DPP bylaws to be sent to the ExCom via e-mail for approval.

UFA: Report on Snowmass-Mauel

Mike Mauel reported that the Snowmass meeting was a success. Based on an informal poll, participants would like to do it again. He suggested that DPP should consider taking a more active role for the next meeting.

International Cooperation–Porkolab/ Drake

Wakatani reported that the JSPF meeting would be held in Sapporo, Japan in early December 2000. Jim Lyon (ORNL) and John Rice (MIT) are invited speakers for this year's meeting at Sendai.

Porkolab reported for Lister on the EPS meeting. A new prize named for H. Alfvén is being established by EPS to be awarded each year. This is the equivalent of the DPP Maxwell Prize. In order to have a strong representation in the paper selection, Miklos requested that travel funds be provided by DPP for him to attend three committee meetings. Funding was approved with a limit of no more than \$1000/trip.

Drake suggested that it is the responsibility of the program committee to nominate talks for the APS Spring Meeting and also be more active in the EPS paper nomination.

Education and Outreach–Correll/ Remington/Rogoff

Don Correll has replaced Tom Simonen as the chair of the Education and Outreach subcommittee. Simonen/Correll submitted a written report.

Action Item: The DPP Chair will write a letter thanking Tom Simonen for his service.

Don reported that with the committed funding from DPP, APS-wide, DOE, and contributions from institutions and individuals, the DPP99 Teachers' Day

and Plasma Sciences Expo should achieve a balanced budget. 4000 students coming from as far as Oregon were expected to attend the Expo.

It was decided not to have the Expo at DPP00. There will still be a Teachers' Day and a budget for that will be submitted to the secretary-treasurer before the Spring ExCom meeting. Correll will also recommend the person in charge of organizing the event.

Porkolab reported for Ron McKnight that the deadline for young faculty award is Feb 10, 2000. A new RFP for the DOE/NSF plasma science initiative will be out soon.

Remington, chair of the public information committee, submitted a written report. There were extended discussions on why the response to Ben Stein's request for "hot topics" was so poor. A **motion** (by Porkolab, seconded by Gekelman) was passed that the program chair, together with his subcommittee chairs, will be responsible for providing input to the public information committee. The program chair should also sit on the public information committee in the future. An amendment (by Fisch, seconded by Cohen) to have the program chair responsible for selecting the highlights failed.

Rogoff, representative from the Coalition for Plasma Science, submitted a written report. Rogoff proposed a conference panel session on communicating with non-scientists for future DPP meetings. The ExCom will discuss this further and vote on it for the Long Beach meeting. Porkolab related a request from CPS for annual support from DPP. A **motion** (by Boozer) for DPP to provide \$5k annual contribution to CPS to be funded from registration fees was passed.

Report on 1999 Seattle Meeting and Future Meeting Sites - Drake/ Steinhauer/Baudrau

Drake reported that the number of papers for this meeting exceeded the New Orleans meeting number.

Drake related a request from Bhattacharjee, chair of the plasma astrophysics topical group, for DPP to provide \$2000 to support operation of the topical group. It was pointed out that NSF funds may be available to support running mini-conferences, and the astrophysics group should look into that. The sense of ExCom is the DPP should provide assistance to all the mini-conferences, instead of specifically identifying funds for the topical group. A **motion** (by Fisch, seconded by Koepke) was passed to increase the budget, from \$2k to \$5k, available to the program chair at his discretion to produce the best program. A motion (by Boozer, seconded by Lampe)

to provide an additional \$2k to the plasma astrophysics topical group for operation failed.

Steinhauer/Baudrau reported 1180 preregistered for this meeting and 200 expected on-site. The companion tour was cancelled because of too few sign-ups. 30 people attended the companion breakfast. The ExCom has approved Albuquerque for DPP2003 and Savannah for DPP2004.

2000 Quebec Meeting–Decoste/Johnston

R. Boivin has agreed to be the DPP local chair for DPP2000/ICPP.

R. Decoste reported on the ICPP situation for the Quebec City meeting. His group will take care of the local organization and M. Tendler is the ICPP program chair.

Action Item: The ICPP representatives and DPP officers will work out the detailed agreement during this week. Registration income will be under the control of DPP and ICPP will submit a budget at the Spring ExCom meeting.

DPP Prizes and Awards-Ripin/Brown

The Plasma Dissertation Award has assets of \$46,833 and the Plasma Excellence Award \$120,352.

Ripin reported that Maxwell Technology has agreed to continue funding the Maxwell Prize on a year to year basis at the \$5k/yr level.

The Nicholson medal has become an APS-wide award to be given out at the March meeting and has broadened its charter. This has made the selection process more difficult. R. Gould has withdrawn as chair of the selection committee and has recommended APS to narrow its charter to one area such as mentorship and education. DPP will propose H. Berk as a replacement to APS.

Barrie Ripin will be leaving APS in January. The ExCom acknowledged Barrie's contribution in integrating DPP with APS.

Action Item: Brown and Gekelman will form a committee to work out the logistics to give a student poster award at the DPP meeting. They will report to the ExCom in the spring meeting. Brown will also work with Rogoff and Remington to decide on a science media published article award. This will have to be approved by APS. Brown will present a proposal in spring.

APS Matters-Franz/Lettieri

Drake noted that in the annual U.S. News and World Report rating of top schools in the fields of physics, plasma physics was not included as one of the fields even though DPP is one of the larger divisions in APS. Jim requested that Judy Franz write a letter to the magazine to inquire about this. Franz has agreed and also invited Jim to come to the APS Executive Board meeting in February to raise this issue.

Lettieri reported that as of 10/99, the DPP membership was 2,351 or 5.72% of APS membership. Percentage-wise, this represented a continuous decline since 1996. Ideas to increase membership were solicited.

Action Item: The secretary-treasurer will send a letter to APS members who have let their DPP memberships lapse urging them to rejoin.

Action Item: Porkolab will draft a letter to members encouraging them to write to Congress to support science funding.

Women in Plasma Physics–Redi

Martha Redi has written to the ExCom raising several issues regarding women representation in DPP. She was invited to present her requests to the ExCom for discussion and endorsement. The ExCom strongly supported the sense of the proposal and the following **motions** were passed.

First (by Hazeltine, seconded by Fajans)-We would like to see the Division adopt a goal of consistent representation for women on the program committee and as invited speakers. The goal should be to include at least two women for the program committee.

Second (by Drake, seconded by Finn)-It is the policy of the DPP to encourage the active participation of under represented groups in the Division by promoting their membership and leadership on the various committees and executive positions. The DPP ExCom will evaluate the progress in this area each year at the fall meeting.

Ripin suggested that the DPP should actively promote this policy to the other conferences.

Action Item: Porkolab has appointed Lampe and Peng to form a committee with help from Redi to conduct a survey on female members and fellows in DPP and to report back to the ExCom at the next meeting. At least one female should be asked to serve on this committee.

Councilor's Report—Kruer

Kruer reported that the APS council has approved a reduction in the number of councilors. Each division will have only one councilor irrespective of size. The council for further consideration has also endorsed new pricing for journals, based on the nature of the institutions.

Miscellaneous DPP Items

APS fellowship nomination is due April 1, 2000.

For the first time, the DPP newsletter was published on the web. Lampe reported that NRL scientists missed the paper version and few have checked out the e-version. To improve the ease of access, a suggestion is to have both HTML and PDF versions, and also to consider adding highlights and a link to the web page in electronic announcements. Porkolab asked Stewart to work with the publication committee on improvements.

John Cary raised the question whether the publication committee should continue to publish a collection of recent plasma physics Ph.D. theses. This was a time consuming task and needed to be justified. Drake suggested an alternative is to ask authors who wish to have their theses recognized send in a title and abstract.

Boozer reported that speakers for the DPP Spring Symposium have been chosen. It will be on Saturday, April 29, 2000.

Porkolab gave permission to S. Cohen to use e-mail to send information on new physics and astronomy classified schemes to DPP members.

The ExCom thanked Porkolab for his service as the chair for the past year

The meeting adjourned at 6.15 PM.

Review of Action Items from This Meeting—Chan

- The secretary-treasurer will draft the changes in the DPP bylaws reflecting the change in oversight of dissertation award to be sent to the ExCom via e-mail for approval.
- The DPP Chair will write a letter thanking Tom Simonen for his service.
- The ICPP representatives and DPP officers will work out the detailed agreement for DPP2000/ICPP during this week.
- DPP chair will propose H. Berk for the Nicholson Committee to APS.

- Brown and Gekelman will form a committee to work out the logistics to give a student poster award at the DPP meeting.

- The secretary-treasurer will send a letter to APS members who have let their DPP memberships lapse urging them to rejoin.

- Porkolab will draft a letter to members encouraging them to write to Congress to support science funding.

- Lampe and Peng will form a committee with help from Redi to conduct a survey on female members and fellows in DPP and to report back to the ExCom at the next meeting.

- Stewart will work with the publication committee to improve the DPP newsletter on the web.

Respectfully submitted,
Vincent Chan
DPP Secretary-Treasurer

**Minutes of the Business Meeting
Division of Plasma Physics
Wednesday, 17 November 1999
Westin Hotel
Seattle, Washington**

There were 44 people in attendance at the Open Business Meeting.

Report of DPP ExCom Meeting

M. Porkolab gave a summary on the ExCom Meeting on Sunday highlighting the following items. A policy on women representation on DPP committees was passed. The Sherwood Theory Meeting was endorsed, and the EPS and JSPF are continuing the exchange of representatives with DPP. EPS has a new prize named for H. Alfvén. The DPP will continue publishing its newsletter on the web. The public information committee needs improvement and member participation is important. Next fall's meeting will be held jointly with ICPP in Quebec City. Maxwell Technology has agreed to continue funding the Maxwell Prize.

Secretary-Treasurer's Report

V. Chan reported that DPP has a total asset of \$254k including pre-registration income and before accounting for DPP99 expenses. Both the Plasma Dissertation Award and Plasma Excellence Award are fully endowed. The Educational Outreach contributions from institutions and individuals have exceeded \$5k. Thanks are due to all the contributors. A balanced budget was expected for this meeting based on registration numbers.

Site Selection Committee Report

There was no indication of DOE travel restriction for scientists to attend the Quebec City meeting next fall.

Albuquerque, New Mexico has been chosen as the site for DPP2003 and Savannah, Georgia for DPP2004.

Program Committee Report

J. Drake reported 1400 registered for this meeting and over 1500 papers were submitted. Loren Steinhauer, the local chair should be commended for his efforts in organizing the meeting.

Report on Election

Porkolab reported on the results of the DPP election. M. Lampe (NRL) is the vice-chair for 2000. P. Gary (LANL), M. Peng (PPPL/ORNL) and R. Petrasso (MIT) are the new ExCom members. Only slightly over 20% of the members voted in this election. Members were urged to take their voting more seriously in the future.

Publication Committee

J. Cary reported there was a 7% increase in foreign submissions to Physics of Plasmas. The acceptance rate for Physical Review was approximately 50% but plans to tighten the acceptance were being considered. National laboratories might have problems publishing papers because of recent events related to computer security. Cary also asked for input to publication of plasma theses and URL links to theses.

Science Education Committee

Porkolab reported for D. Correll who has replaced T. Simonen as the chair of this committee. Miklos thanked Simonen for his service and stressed the need for more volunteers. The distinguished lecturers' series will continue. Those schools interested to invite one of the five lecturers can contact the DPP ExCom or Correll.

Other Business

S. Pollaine put forth a request that the DPP endorse the ratification of the nuclear test ban treaty. A **motion** (by Cary, seconded by Grabbe) to forward this request to ExCom for discussion and endorsement was passed. A second **motion** (by Pollaine, seconded by Coppi) for the ExCom to discuss at the Spring meeting a position against polygraph testing and urging DOE to stop implementing this until further studies, was also passed. The DPP chair will contact POPA to get more information on this issue.

The gavel was passed from Porkolab to Drake.

The meeting adjourned at 6:00 PM.

Respectfully submitted,
Vincent Chan
DPP Secretary-Treasurer

APS Newly Elected Fellows

Division of Plasma Physics and Forum on Education

Barbara Abraham-Shrauner—Washington University

For important theoretical contributions to a broad range of plasma topics, including: space plasmas, nonlinear dynamics, and plasma processing.

John Patrick Apruzese—Naval Research Laboratory

For significant and original studies of radiation in dense plasmas and the theory of plasma x-ray lasers.

Christopher Deeney—Sandia National Laboratories

For a series of contributions that coupled theory and experiments to increase the understanding of z-pinch physics, resulting in increased x-ray energy and power.

Amnon Fruchtman—Center for Technological Education, Holon, ISRAEL

For original theoretical contributions to the phenomenon of fast magnetic field penetration into plasmas due to the Hall field, and to the theory of free electron lasers.

Alan Herbert Glasser—Los Alamos National Laboratory

For contributions to the theory of toroidal ideal and resistive magnetohydrodynamic instabilities and their applications to plasma confinement for magnetic fusion energy research.

Steven Paul Hirshman—Oak Ridge National Laboratory

For fundamental contributions to the theory of neoclassical transport in toroidal plasmas, theory and computation of two-dimensional and three-dimensional MHD equilibrium, and for analysis and optimization of three-dimensional toroidal systems.

Michael E. Jones—Los Alamos National Laboratory

For the development of novel particle-in-cell simulation methods and their use in the study of the generation, transport, and stability of intense charged particle beams and plasmas.

Michael Hannam Key—Lawrence Livermore National Lab

For experimental work in laser plasma inertial confinement fusion including x-ray laser backlighting and x-ray lasers.

Sergei I. Krasheninnikov—Massachusetts Institute of Technology

For his contributions to the understanding of tokamak edge plasmas and atomic physics effects, long mean free path electron transports, and the influence of sheared electric fields on particle orbits.

Karl Lackner—Max Planck Institute, Garching, GERMANY (through the International Physics Forum)

For his fundamental contributions to tokamak equilibrium, boundary layer and divertor physics and his leadership in international fusion research.

Robert Lynn Miller—Archimedes Technology Group, Inc.

For original studies in optimizing magnetic configurations to improve plasma performance covering many advanced fusion devices including the discovery of a high beta noncircular tokamak with large indentation.

David Paul Schissel—General Atomics (through the Forum on Education)

For developing innovative video and web-based K-12 resources for plasma physics and for providing student access to experimental facilities at the cutting edge of plasma physics research.

Frederick N. Skiff—University of Iowa

For fundamental experiments on wave-particle interactions and the development of experimental techniques using laser-induced fluorescence.

Peter Eric Young—Lawrence Livermore National Lab

For his experimental work on filamentation and channel formation of intense laser beams in laser-produced plasmas.