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Visit the DPP Homepage

<http://w3fusion.ph.utexas.edu/aps>

Note from the Chair

There are interesting statistics concerning the Job Center at the annual DPP meeting. Over the last three years, the number of registered job seekers declined from 111 in 1995, to 85 in 1996, and to 81 at the 1997 Pittsburgh meeting. During the same time period, the number of employers registered and present grew from 22 in 1995, to 30 in 1996, and to 43 in 1997. More telling, perhaps, is that the number of positions posted on the bulletin boards grew from 51 in 1995, to 83 in 1996, and finally to 102 at the 1997 Pittsburgh meeting.

1997 was a crossover year, where the number of jobs posted exceeded the number of registered job seekers. The number of job interviews grew from 108 in 1995, to 115 in 1996, and to 145 in 1997, even as the number of registered job seekers declined.

When the number of candidates exceeds the positions available, a field experiences great pain, although the total number of jobs available might be large and the scientific advances at the time might be exciting. On the other hand, when the candidate pool does not meet market demand, there is a general sense that a field is desirable and healthy.

The statistics related are very sketchy evidence. Yet I do believe that these statistics, together with other anecdotal evidence, bode well for the atmosphere surrounding our upcoming New Orleans meeting this November.

*Sincerely,
Nat Fisch*

General Information

The 40th Annual Meeting of the Division of Plasma Physics (DPP) will be held Monday through Friday, 16-20 November 1998 in New Orleans, Louisiana. All technical sessions will be at the The Fairmont Hotel, which is the conference hotel.

The Local Organizing Chair is Daniel McCarthy, Southeastern Louisiana University (dmccarthy@selu.edu).

Meeting Program

The scientific program will consist of nine half-day sessions of review, invited, tutorial, and contributed papers in basic plasma physics, beams and accelerators, education and outreach, inertial confinement physics, laser-produced plasmas, magnetic confinement physics, tokamaks, plasma applications and plasma technology, radiation generation, space plasma physics and astrophysical plasmas. Review papers will be given in daily plenary sessions; invited and tutorial papers will be given each morning and afternoon in parallel with the poster and oral sessions of contributed papers. Special sessions, technical sessions, or mini-conferences shall be organized by the Program Committee.

Program Committee Members

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Important dates in 1998

**Invited & Review Paper
Nominations
Wednesday, June 3**

**All Abstracts
Wednesday, July 22**

**Preregistration
Friday, October 16**

**Housing Form
Friday, October 16**

**Satellite Meeting
Reservations
Friday, October 16**

Nominations for Invited and Review Papers

The deadline for invited and review paper nominations is **Wednesday, 3 June 1998**. A newly

designed nomination form appears enclosed in this announcement. It is important to complete each section of the form. The subject category section printed on the form is revised this year. Forms can be printed from the APS Homepage at <http://www.aps.org/meet/DPP98/>. Email submission of nominations are acceptable by completing all sections and pasting the information into the text of an email message.

The 1998 Program Committee will notify selected speakers beginning Tuesday, 30 June 1998. The deadline for submission of all abstracts is **Wednesday, 22 July 1998 at 5:00 p.m. EDST** at APS Headquarters.

Send a nomination form by mail, fax, or email to:

Saralyn Stewart
The University of Texas at Austin
Institute for Fusion Studies
26th and Speedway--RLM 11.214
Austin, TX 78712
Phone: 512-471-4378
Fax: 512-471-6715
Email: dpp@peaches.ph.utexas.edu

A duplicate copy should also be sent to:

Miklos Porkolab
Massachusetts Institute of Technology
Plasma Science Fusion Center
77 Massachusetts Avenue
Cambridge, MA 02139-4307
Phone: 617-253-8448
Fax: 619-253-4866
Email: dpp98@psfc.mit.edu

General Abstract Information

The deadline for submission of all abstracts is **Wednesday, 22 July 1998 at 5:00 p.m. EDST** at APS Headquarters.

Annual Meeting ID is DPP98

To receive the appropriate template for submission, send an email message to: abs-request@aps.org and include the words “**request DPP98**” in the text of your message.

The first author is expected to present the paper; additional papers with the same first author will be assigned to the supplemental program. However, a first author on an education and outreach paper is allowed to be first author on an additional contributed presentation.

The *Bulletin* will not be mailed in advance of the meeting, but will be distributed at the annual meeting. The annual meeting general information, epitome, program and author index will be available in September 1998 on the APS Homepage at <http://www.aps.org/meet/DPP98/>.

Contributed papers must be prepared in accordance with the directions for abstract submission appearing in a current issue of *APS Meeting News*.

All abstracts that are submitted by an APS member will be accepted for the Annual Meeting.

Electronic Submission Procedure

The deadline for submission of all abstracts is **Wednesday, 22 July 1998 at 5:00 p.m. EDST** at APS Headquarters. The subject classification category listing has been revised for DPP98.

Submit abstracts electronically and you will receive:

- Email confirmation of your abstract
- Email notification of your abstract placement
- Electronic version of your abstract on the APS Homepage.

If you have any questions or you need submission assistance send a message to: abs-help@aps.org

Paper Submission

Abstracts submitted on paper will only have the title and author names printed in the *Bulletin* and on the APS Homepage. It is necessary to submit the abstract text and choose a DPP subject category, since the Program Committee uses this information to assign a paper to a session. A contributed paper abstract form (updated from 1997) and revised subject classification category listing appear in this announcement.

- Do not submit a paper copy if you submit electronically
- Paper submissions should be mailed to the APS Meetings Department; see address below

- Abstracts mailed on paper must be submitted in duplicate.

Receipt of your abstract will be acknowledged only if a self-addressed stamped envelope or a pre-paid postcard is mailed with your paper abstract submission. No faxed abstracts will be accepted. Mail abstracts to:

DPP98 Meeting Abstracts
 APS Meetings Department
 One Physics Ellipse
 College Park, MD 20740-3844
 Phone: 301-209-3288

Postdeadline Submission

The deadline for electronic submission of contributed postdeadline abstracts is **Friday, 30 October 1998 at 5:00 p.m. EDST** at APS Headquarters.

Abstracts received after the deadline, Wednesday, 22 July 1998, will be assigned to the postdeadline poster session. The APS Homepage will be updated up to Friday, 30 October 1998. Postdeadline abstracts prepared after Friday, 30 October 1998 must be on paper and brought to the annual meeting by the presenter and will be assigned to the postdeadline poster session. Each of these abstracts will be announced at the annual meeting by posting a copy of the abstract on a designated bulletin board.

Any questions regarding the deadline for electronic submission of postdeadline abstracts should be referred to:

Saralyn Stewart
 The University of Texas at Austin
 Phone: 512-471-4378
 Fax: 512-471-6715
 Email: stewart@peaches.ph.utexas.edu

Special Audiovisual Equipment

All requests for audiovisual equipment in the technical sessions, other than overhead projectors and 35mm slide projectors, must be received by the deadline of **Friday, 16 October 1998**. Please note that there will be a fee for the rental of special equipment and the fee must be paid before the start of the requester's session. Equipment shall be paid with cash, credit card, or a personal check. Each check must be made payable in U.S. dollars and drawn on a U.S. bank.

Send requests to:

Terri Adorjan
 APS Meetings Department
 Phone: 301-209-3287

Fax: 301-209-0866
Email: adorjan@aps.org

Registration

Preregistration will offer substantial savings. Please use the form in this announcement and mail or fax it to APS by **Friday, 16 October 1998**. If you fax it include credit card payment information or it will not be processed. Registration forms postmarked after October 16 will be invoiced the difference of the preregistration fee and the on-site fee. If you are registering for one day, you must specify on the form the day you plan to attend. Your badge will indicate the one-day attendance of technical sessions. Overseas preregistration fees are honored on-site only if APS has received the completely filled out preregistration form postmarked by Friday, 16 October. The registration fee reflects a subsidy of the room rates at the two official meeting hotels.

Registration Fees

(deadline: 16 October 1998)

APS Member—\$220
Nonmember—\$340
One-Day APS Member—\$115
One-Day Nonmember—\$175
Retired/Unemployed APS Member—\$40
Student APS Member—\$40
Overseas Member—\$220
Overseas Nonmember—\$340
Banquet Ticket—\$25

On-Site Registration

APS Member—\$270
Nonmember—\$380
One-Day APS Member—\$140
One-Day Nonmember—\$195
Retired/Unemployed APS Member—\$50
Student APS Member—\$50
Overseas Member—\$270
Overseas Nonmember—\$380
Banquet Ticket—\$25

Membership

We encourage you to recruit your colleagues to become a member of DPP and APS. Colleagues can join now to get the APS member rate by registering for the meeting (see enclosed form), and completing the enclosed Enrollment Form and mailing it to APS,

Dept #0521, Washington, DC 20073-0521, fax: 301-209-0866. If you have any questions email the Membership Department at: membership@aps.org. APS-DPP membership allows more voice in APS governance and more APS Fellow candidates through DPP. For more details see the APS Homepage.

Banquet

The conference banquet will be held on Wednesday evening, 18 November 1998. Subsidized tickets can be purchased in advance or on-site for \$25 on a space-available basis. The DPP reserves the right to limit the number of banquet tickets. Tickets must be presented for admission at the door to the banquet room. A cocktail reception (cash bar) will precede the banquet. The banquet program will include presentation of the James Clerk Maxwell Prize, the Award for Excellence in Plasma Physics Research, the Outstanding Doctoral Thesis Award, and recognition of new APS Fellows. Updated banquet activities will be announced in the October issue of *APS News*.

Satellite Meeting Rooms

Reservations for satellite meeting rooms must be received by the deadline of **Friday, 16 October 1998**. Specify the name of group, desired date, start time, end time, estimated number of attendees, room configuration, desired food service, audiovisual equipment, and method of payment. Email requests are encouraged.

Send requests to:

Terri Adorjan
APS Meetings Department
Phone: 301-209-3287
Fax: 301-209-0866
Email: adorjan@aps.org

Hotel Accommodations

Accommodations for the Annual Meeting will be at the The Fairmont Hotel (conference hotel) and the Radisson Hotel. The Fairmont is 6 blocks from the Radisson. In order to obtain the conference housing rate complete the Housing Form printed in this announcement and fax or phone in your reservation by **Friday, 16 October 1998** to the hotel of your choice. Do not send the form to APS Headquarters in Maryland.

The Fairmont Hotel

123 Baronne Street
New Orleans, LA 70112
504-529-7111

Subsidized rates are:

\$ 97 per night = single

\$107 per night = double
 \$127 per night = triple
 \$142 per night = quad

Radisson Hotel

1500 Canal Street
 New Orleans, LA 70112
 504-522-4500

Subsidized rates are:

\$ 80 per night = single/double
 \$ 95 per night = triple
 \$110 per night = quad

Transportation

The New Orleans International Airport (NOIA) is located approximately 14 miles from downtown New Orleans; typically a 30 minute drive. Ground transportation between NOIA and downtown New Orleans is by shuttle service or taxi, departing from outside the baggage claim area between 3:30 a.m. and 12 midnight. Shuttle service is \$10 one way and \$20 round trip. Taxi service is approximately \$24 one way per cab, and each taxi may carry up to four passengers. Parking for rental cars is available near the hotels for a

fee. Special discounted airfare information will be announced in the *Summer DPP Newsletter*.

Companion's Program

Details of the companion's program will be in the *Summer DPP Newsletter*. New Orleans is one of the most admired cities in the Nation. Because New Orleans is located in a crescent of the Mississippi River it is sometimes referred to as the Crescent City. Visitors travel to New Orleans to enjoy the culture, architecture, food and music; the character of the city is unique. The downtown area includes the French Quarter, with its Old World shops and buildings, and the Central Business District. Together, merchants and businesses strive to accommodate the visitors, office workers, and residents. The Garden District, a trolley ride away from downtown, and the French Quarter are filled with guided tours, or leisurely walking tours. New Orleans is a 24 hour city filled with excitement, charm, and a special scenic beauty.

DPP Education and Outreach

Members of the DPP Education Subcommittee traveled to New Orleans in February to plan the 1998 Science Teachers Day and Plasma Sciences Expo, which will be held during the annual DPP meeting in November. The subcommittee, comprised of representatives from DPP, MIT, General Atomics, LLNL, Princeton and UCSD, met with local education administrators and science teachers to determine how best to tailor the plasma education activities to this area. They also received advice from the teachers on the local education structure and priorities, busing students to the Expo, and competing education events. To insure that teachers get the news about the DPP education activities before they commit to another educational opportunity, invitations to the DPP events were distributed in early April to New Orleans high school and middle school science teachers. An invitation to co-sponsor this important, highly visible plasma education outreach will be sent to all DPP members in early May, as well as to colleagues in related companies.

Undergraduate Research in Plasma Physics Poster Session

For the third year there will be a special poster session entitled "Undergraduate Research" at the DPP

Annual Meeting in New Orleans. The session provides an opportunity for undergraduates to present results from summer and thesis research, as well as to meet other plasma physicists (both students and senior researchers). Last year's session featured 22 presenters from 20 institutions and was very successful.

Students should submit their abstracts as contributed papers according to the abstract submission

instructions in this newsletter. Choose category 10, Undergraduate Research from the Subject Classification Category Listing. DPP will waive registration fees for undergraduate presenters, and roommates in New Orleans will be coordinated to reduce costs. The session will be held on Tuesday, November 17, 1998.

If you have any questions about the session or would like to place your student with a roommate, please contact Michael Brown at Swarthmore College (mbrown3@swarthmore.edu).

The 10th Annual Special Issue of *Physics of Plasmas*

Rules for Publishing an Invited or Review Paper from the 1998 APS Division of Plasma Physics Meeting

Purpose

Physics of Plasmas undertakes to publish Invited and Review Papers from the Annual Meeting of the Division of Plasma Physics (DPP) of the American Physical Society (APS), subject to the rules listed below. Multiple authorship is acceptable; the presenting author should be listed first.

Standards

Acceptance of an Invited or Review paper is based on the same standards and review process as articles published in regular issues of *Physics of Plasmas*, including the stipulation that material cannot have been submitted or published elsewhere. It is recognized that some papers are reviews or may properly represent compendia of past work as well as original material.

Deadlines

The deadline for submission is noon on **Friday, November 20, 1998**. Authors wishing to have a paper published in the Special Issue must either bring the completed manuscript to the DPP Meeting in publishable form or submit an electronic version to the Editorial Office no later than the week before the Meeting.

The Special Issue is scheduled to be published in May 1999. Authors will be held to strict deadlines for revision and acceptance by the *Physics of Plasmas* Editorial Office.

Maximum Length

Invited papers: 7 typeset pages
Review papers: 11 typeset pages

Papers that exceed the maximum may be returned for shortening before the review process begins. Estimate typeset pages by adding 1/3 of the manuscript pages plus 1/4 of the figures.

Referees

Referees are selected by the Editor, and do, as usual, **remain anonymous**. Authors are encouraged to submit a (nonbinding) list of prospective referees for the Editor's consideration.

Future considerations

Papers are published in the Special Issue of *Physics of Plasmas* for archival purposes. If related material is later submitted to the journal, the author is obliged to reference the first paper published in the Special Issue. Follow-up papers are acceptable in *Physics of*

Plasmas if they are *bona fide* extensions of the first paper.

Editorial assistance and format

Editorial guidance is available via the Internet at <http://www.pppl.gov/physplas> or from the *Physics of Plasmas* Editorial Office at phone: (609) 243-2425, fax (609) 243-2427, or email the Assistant Editor at sschmidt@pppl.gov.

Ronald C. Davidson
Editor, *Physics of Plasmas*
May 1998

APS—Division of Plasma Physics Committees

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

Nathaniel Fisch, 1998 Chair
Division of Plasma Physics, APS

1998 Executive Committee*Chair:*

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1998 Appointed Committees

Program Committee for Invited and Contributed Papers

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James Drake	U. of Maryland	301-405-1471	drake@glue.umd.edu
Daniel Dubin	UCSD	619-534-4174	dhubin@ucsd.edu
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Jeffrey Hopwood	Northeastern U.	617-373-3006	jhopwood@lynx.neu.edu

1998 Appointed Committees, *continued*

Program Committee for Invited and Contributed Papers, *continued*

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Local Arrangements for New Orleans, Louisiana Annual Meeting

Daniel McCarthy SE Louisiana U. 504-549-2894 dmccarthy@selu.edu

Site Selection Committee

Richard Hazeltine, *Chair* U. of Texas 512-471-1322

Mary Ann Sweeney SNL 505-845-7307

Public Information Coordinator

Bruce Remington LLNL 510-423-2712 remington2@llnl.gov

Newsletter, Program Administration, and Home Page

Saralyn Stewart U. of Texas 512-471-4378 stewart@peaches.ph.utexas.edu

Concerns of Young Scientists Committee

Earl Scime W. Virginia U. 304-293-3422 scime@wvnmvs.wvnet.edu

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Bruce Langdon LLNL 510-422-5444

Douglass Post ITER, San Diego 619-622-5141

Barrett Ripin APS 301-209-3233

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Human Rights Committee

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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 (formerly Interdivisional and Public Affairs Committee)

Thomas Simonen, *Chair* General Atomics 619-455-3522
simonen@gav.gat.com

Herbert Berk	U. of Texas	512-471-1364
Michael Brown	Swarthmore	610-328-8648
Kimberly Budil	LLNL	510-423-8098
Donald Correll	LLNL	510-422-6784
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
Sherrie Preische	APS	301-209-3255
Barrett Ripin	APS	301-209-3233
David Schissel	GA	619-455-3387
Clint Sprott	U. of Wisconsin	608-263-4449
Richard Temkin	MIT	617-253-5528

Nominating Committee

Ronald Davidson, <i>Chair</i>	PPPL	609-243-3552
Earl Scime, <i>Vice-Chair</i>	West Virginia U.	304-293-3422
Stephen Obenschain	NRL	202-767-0689
Jonathan Wurtele	UC, Berkeley	510-642-7166
Ellen Zweibel	U. of Colorado	303-492-8439

James Clerk Maxwell Prize

Robert Goldston, <i>Chair</i>	PPPL	609-243-3553
Philip Morrison, <i>Vice-Chair</i>	U. of Texas	512-471-1527
Martin Goldman	U. of Colorado	303-492-8896
Charles Kennel (1997 recipient)	UCLA	310-825-2052
Michael Key	LLNL	510-424-2175

1998 Appointed Committees, *continued***Award for Excellence in Plasma Physics Research**

Bruce Remington, <i>Chair</i>	LLNL	510-423-2712
Charles Karney, <i>Vice-Chair</i>	PPPL	609-243-2607
Fred Driscoll	UCSD	619-534-2489
David Hammer	Cornell	607-255-3916
Fred Levington (1997 recipient)	UCLA	310-825-7279

Award for Outstanding Doctoral Thesis in Plasma Physics

Ronald Gilgenbach, <i>Chair</i>	U. of Michigan	313-763-1261
Amitava Bhattacharjee, <i>Vice-Chair</i>	U. of Iowa	319-335-1686
Adil Hassam	U. of Maryland	301-405-1417
Thomas O'Neil	UCSD	619-534-4176
Miklos Porkolab (1997 recipient advisor)	MIT	617-253-8448

Nicholson Medal for Humanitarian Service

Arnold Kritz, <i>Chair</i>	Lehigh U.	610-758-3930
Wallace Manheimer, <i>Vice-Chair</i>	NRL	202-767-3128
Bernard Cooper	West Virginia U.	304-293-5732
Henry Kendall (1997 recipient)	MIT	617-253-7584

Ravinda Sudan

Cornell

607-255-4127

Science Teachers Day Workshop Presenter Solicitation Tuesday, November 17, 1998 — New Orleans

In an effort to expand DPP membership participation at the annual APS-DPP Science Teachers' Day, we hereby solicit high school and middle school level workshop presenters. Workshop presentations are typically one hour. The Agenda enclosed will include parallel science teacher workshops.

Each year starting with the 1988 DPP annual meeting, DPP and the APS Office of Education and Outreach Programs have jointly sponsored a Science Teachers' Day during the November meeting. More recently, Science Teachers' Day has been integrated with the DPP sponsored "Plasma Physics Expo" also held in conjunction with the annual meeting.

Science Teachers' Day is designed to provide information for science teachers (middle and high school) on plasma science and its applications, with a special emphasis on fusion energy. The workshops are an integral part of the Teachers' Day activities as exemplified by the enclosed Agenda:

Typical Science Teachers' Day Agenda
 7:30-8:00 Registration and Coffee
 8:00-8:15 Welcome
 8:15-9:00 Intro to Plasmas and Fusion
 9:00 9:30 Careers in Physics

9:30	9:45	Coffee Break
9:45	11:30	Workshops
11:30	12:30	Lunch with Scientists
12:30	14:15	Workshops
14:15	14:30	Conclusion / Evaluations
14:30	16:30	DPP Education Poster Session

If you are interested in participating as a workshop presenter, please respond to:

Don Correll correll1@lnl.gov or

Saralyn Stewart stewart@peaches.ph.utexas.edu.

Include your:

- Workshop Title
- Name / Affiliation
- Brief description of your workshop presentation (300-500 words)
- Estimate number of teachers attending workshop: > 30
- Reference material / visuals for workshop presentation (if applicable)

Your response is due Wednesday, 8 July 1998.
 Notification of acceptance will be Wednesday, July 29, 1998.