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[w3fusion.ph.utexas.edu/aps](http://w3fusion.ph.utexas.edu/aps)

#### **APS Web Site**

[www.aps.org/meet/DPP99](http://www.aps.org/meet/DPP99)

## **Note from the Chair**

Did you attend the Atlanta Centennial APS Meeting? Did you enjoy attending a meeting with 11,300 physicists? I would be interested to hear your opinion. In any case, if you did attend I hope you had a chance to hear other exciting non-plasma physics talks. I am curious how many of you have attended non-plasma physics talks and how many non-plasma physicists attended your talk or poster? And if you attended non-plasma physics sessions, were they technical sessions from another discipline of physics, or were they sessions of general societal interest?

I chaired the Centennial Plasma Physics Session on Thursday morning, and saw many non-familiar faces. I hope they belonged to non-plasma physicists whose curiosity brought them to our presentations which, by the way, were outstanding and broad in scope.

I thank Jim Drake and his committee for putting together an impressive array of talks and posters, and I thank the Sherwood Theory Organizing Committee for participating in this once in a lifetime experiment!

At the DPP Executive Committee Meeting on the eve of March 25th, we discussed the possibility of sending out a survey to those of you who attended the Atlanta meeting and find out if you have enjoyed the meeting, and whether the large meeting was or was not to your liking. This may give us another data point on the concept of expanding the DPP meeting into a General Fall APS Meeting (which is not in the cards in the foreseeable future, but it could be reconsidered if interest arose).

The next immediate task is to come up with an outstanding slate of candidates for the DPP officers and Executive Committee members, and by the time this Newsletter is published you will have voted. Please, do not forget to vote in the final election in August. There is one more thing: our membership decreased by approximately 70 scientists last year. Please talk to your colleagues at your institution and make sure they have not forgotten to send in their \$6 for DPP membership. Also, talk to your students and ask them to join APS (free one-year trial membership) and DPP (\$6). See enclosed Membership article. It is very important for the health of our Division to replace those who have retired or may have decided to change fields.

Snowmass registration deadline (April 9) has passed. You may still consider attending, DPP has endorsed this important meeting. It will be crucial that DPP members attend and argue for plasma science as a critical element of the fusion program, whether magnetic or inertial confinement. Consider coming for a week, or for the full two weeks.

Finally, note that this is the first in an experiment to produce the Newsletter on the DPP homepage ONLY. If it works, we will stay with it. Feel free to print out a hardcopy if you do not have time to read it until your next plane trip (which happens to me all the time). The payoff for the Division is substantial, it cost nearly \$9,000 per year to print and mail the Newsletter. Lets try to save this money, and use it for other purposes, for example educational outreach.

*Sincerely, Miklos Porkolab*

**41st Annual Meeting  
of the Division of Plasma  
Physics  
Seattle, Washington  
November 15-19, 1999**

**General Information**

The 41st Annual Meeting of the Division of Plasma Physics (DPP) will be held Monday through Friday, 15-19 November 1999 in Seattle, Washington. All technical sessions will be at the Westin Hotel, the headquarters for the annual meeting.

**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**

**Chair**

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

**Local Arrangement Chair**

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### Nominations for Invited & Review Talks

The deadline for invited and review talk nominations is **Wednesday, June 2, 1999**. This year, for the first time, DPP members can submit nominations via the web at [www.aps.org/meet/DPP99](http://www.aps.org/meet/DPP99), or download the pdf file and complete the nomination form. We encourage you to submit a nomination form in lieu of mailing support letters. Send inquiries to Karen MacFarland, [macfarla@aps.org](mailto:macfarla@aps.org).

Selected invited and review speakers will be informed by the DPP99 Program Committee of the web address for electronic invited abstract submission beginning **Thursday, July 1, 1999**. The deadline for receipt of invited abstracts is Wednesday, July 21, 1999 at 5:00 p.m. EDT at APS Headquarters.

### Mini-Conference Solicitation

Mini-conferences provide an important avenue for enriching the DPP Meeting by allowing organized sessions on topical issues. The Westin Hotel has adequate facilities to accommodate mini-conferences on site, thereby fostering a close interaction between the attendees of the mini-conferences and the regular DPP99 attendees. The procedure for suggesting mini-conference topics and speakers is as follows. The deadline is Wednesday, June 2, 1999

Email the following information to Program Chair Jim Drake, [drake@plasma.umd.edu](mailto:drake@plasma.umd.edu), with a copy to Saralyn Stewart, [stewart@physics.utexas.edu](mailto:stewart@physics.utexas.edu).  
(1) A title of the mini-conference.  
(2) A list of speakers, his/her affiliation, and each speakers email address.

(3) Suggested chair, with affiliation, email address, phone/fax.

Mini-conference abstracts should be submitted electronically as oral contributed abstracts (July 21, 1999) and must include the mini-conference title in the Special Instructions. Note also that speakers at mini-conferences are not precluded from submitting a separate contributed abstract to the DPP99 annual meeting.

### Abstract Information

The deadline for submission of both invited and contributed abstracts is **Wednesday, July 21, 1999** at 5:00 p.m. EDT at APS Headquarters. The DPP Annual Meeting ID is DPP99. All abstracts submitted by APS members will be accepted for the Annual Meeting.

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 or a mini-conference paper is allowed to be first author on an additional contributed presentation.

Contributed papers must be prepared in accordance with the directions for abstract submission appearing on the APS Homepage at [www.aps.org/meet/DPP99](http://www.aps.org/meet/DPP99).

### Web Submission Procedure

To submit an abstract using the on-line web submission process, an author must know two things: (1) the number of ordering of authors and collaborations; and (2) the text of the abstract. The web page will guide you through the procedure. Try a test submission before submitting your official abstract. Log onto <http://abstracts.aps.org> and select the meeting TEXT. Follow the directions on-

line to create your own practice abstract. When submitting your official abstract, select the meeting DPP99.

### Email Submission Procedure

One can obtain the files for preparing and submitting an abstract via email.

The abstract submitter must:

- Request the template from [abs-request@aps.org](mailto:abs-request@aps.org) via email and include the words "Request DPP99" in the text of a message. A template and instructions will be returned via email.
- Create an abstract by inserting the text into the template and saving the file
- Submit completed abstract file to [abs-submit@aps.org](mailto:abs-submit@aps.org)

Response from APS:

- Within 1 day: submitter receives notification that the abstract was received
- Within 3 days: submitter receives abstract log number
- 4 weeks after abstract deadline: submitter receives session assignment

For questions or submission assistance send a message to: [abs-help@aps.org](mailto:abs-help@aps.org)

The deadline for submission of all abstracts is **Wednesday, July 21, 1999** at 5:00 p.m. EDT at APS Headquarters.

### Paper Submission Procedure

The DPP encourages the submission of abstracts via the web, or via email. Abstracts submitted on paper will have the title and author names only printed in the *Bulletin* and on the APS Homepage. However, it is still 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. If you plan to submit a contributed paper abstract contact the APS Meetings Department to obtain a form (301-209-3286).

### Postdeadline Submission

The deadline for postdeadline abstracts is Friday, October 29, 1999 at 5:00 p.m. EDT at APS Headquarters.

Abstracts received after the abstract deadline, Wednesday, July 21, 1999, will be assigned to the postdeadline poster session. The DPP99 program will be updated up to Friday, October 29, 1999. After this date, one page abstracts 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 posted on the Postdeadline Abstract bulletin board.

Any questions regarding the deadline for electronic submission of postdeadline abstracts should be directed to [abs-help@aps.org](mailto:abs-help@aps.org).

### Ordering the Bulletin in Advance

The *Bulletin* will be distributed at the annual meeting. If you wish to obtain a Bulletin prior to the annual meeting contact the APS Membership Department at 301-209-3280. The cost for an advance copy of the Bulletin is \$12 domestic third class/foreign surface, or \$15 domestic first class/foreign air freight.

Please note that timely delivery before the meeting cannot be guaranteed. The complete Bulletin will also be available for your review in September on the APS Homepage at [www.aps.org/meet/DPP99](http://www.aps.org/meet/DPP99).

### Audiovisual Equipment

Each technical session will be provided with an overhead and 35mm slide projector. All requests for additional AV equipment must be received by **Friday, October 15, 1999**. Please note that there will be a fee for the rental of additional AV 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, [adorjan@aps.org](mailto:adorjan@aps.org), or phone 301-209-3287, or fax 301-209-0866.

### Registration

Preregistration will offer substantial savings if received at APS by **Friday, October 15, 1999**.

### On-line Registration

APS members have the option to register on-line on the APS homepage at the DPP99 meeting site. This option is available to current **APS members only**, and requires payment by credit card and your membership ID number. Your membership ID number can be found on the mailing label of any of your APS publications. If registering using the on-line method, you will receive an electronic confirmation of your registration.

If you are not a current APS member, you cannot register via the on-line method, but must register by mail or fax.

**Reminder!**  
**Bring your registration confirmation with you to Seattle.**

**Mail or Fax Registration**

If registering by mail or fax, download the form in pdf format at [www.aps.org/meet/DPP99](http://www.aps.org/meet/DPP99). If you fax your registration please include credit card payment information or your registration will not be processed. APS cannot immediately respond to inquires as to whether your mailed or faxed registration form was received; you must wait to receive your confirmation letter from APS Meetings Department.

Preregistration forms postmarked after October 15, 1999 will be invoiced the difference of the preregistration fee and the on-site fee. If you are registering for one day, you must specify the day you plan to attend. Your badge will indicate the one day attendance and will indicate that you will attend the meeting only on that day. Overseas preregistration fees are honored on-site only if APS has received the completely filled out preregistration form by Friday, October 15, 1999. The last day to accept late registration at APS is Friday, October 29, 1999, on-site registration will be set up at the meeting in Seattle. Send inquiries to Donald Wise, [wise@aps.org](mailto:wise@aps.org), or phone 301-209-3289.

**Registration Fees**

(deadline: October 15, 1999)

APS Member—\$ 250

Nonmember—\$ 370

One-Day APS Member—

\$ 125

One-Day Nonmember—\$ 185

Retired/Unemployed

APS Member—\$ 50

Student—\$ 50

Overseas APS Member—

\$ 250

Overseas Nonmember—\$ 370

Banquet Ticket—\$ 30

**On-Site Registration**

(after October 15, 1999)

APS Member—\$ 300

Nonmember—\$ 410

One-Day APS Member—  
\$ 150

One-Day Nonmember—\$ 205

Retired/Unemployed

APS Member—\$ 60

Student—\$ 60

Overseas Member—\$ 300

Overseas Nonmember—\$ 410

Banquet Ticket—\$ 30

**Cancellation Policy**

A request for a preregistration fee refund must be received at APS Meetings Department by Friday, November 12, 1999. A cancellation will be assessed a \$35 fee. Requests received after November 12 must be in writing to Vincent Chan, the DPP Secretary-Treasurer.

**Membership: Join and Register**

Recruit your colleagues to join APS and DPP. You can join and get the member registration rate at the same time by filling out both the preregistration form and the membership form, download the forms in pdf format at [www.aps.org/meet/DPP99](http://www.aps.org/meet/DPP99). If you have additional questions contact the APS Membership Department, [membership@aps.org](mailto:membership@aps.org), or phone 301-209-3280, or fax 301-209-0867. APS-DPP membership allows more voice in the APS governance and more APS Fellow candidates through DPP. For additional details see the APS Homepage.

**Banquet**

The banquet will be held on Wednesday evening, November 17. Purchase tickets in advance or on-site for \$30. DPP reserves the right to limit the number of banquet tickets. Present tickets for admission at the door to the banquet room. A cocktail reception (cash bar) will precede the banquet. The 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 Summer Newsletter.

**Satellite Meeting Rooms**

Requests for satellite meetings must be received by the deadline of **Friday, October 15, 1999**. 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. Send requests to Terri Adorjan, [adorjan@aps.org](mailto:adorjan@aps.org), or phone 301-209-3287, or fax 301-209-0866.

**Hotel Accommodations**

All hotel reservations must be made through the Seattle Housing Bureau using the Housing Form at [www.aps.org/meet/DPP99](http://www.aps.org/meet/DPP99). It must be received by **Friday, October 15, 1999** and sent to the address on the form. Do not mail the form to APS Headquarters in Maryland.

The headquarters hotel for DPP99 is the Westin Hotel, with overflow hotel rooms at the Warwick Hotel, Mayflower Park Hotel, the Sixth Avenue Inn, and the West Coast Vance Hotel.

**Westin Hotel (Headquarters, 700 rooms)**

1900 Fifth Avenue

Seattle, WA 98101

206-728-1000

Rates are: \$93 single; \$105

double; \$25 each additional person

**Warwick Hotel (175 rooms)**

401 Lenora Street

Seattle, WA 98121

206-443-4300

Rates are: \$120 single/double;

\$140 triple; \$160 quad

**Mayflower Park Hotel (125 rooms)**

405 Olive Way  
Seattle, WA 98101  
206-382-6991

Rates are: \$125 single; \$140 double; \$15 each additional person

**Sixth Avenue Inn (100 rooms)**

2000 Sixth Avenue  
Seattle, WA 98121  
206-441-8300

Rates are: \$89 single; \$99 double; \$12 each additional person

**West Coast Vance Hotel (100 rooms)**

620 Stewart Street  
Seattle, WA 98101  
206-441-4200

Rates are: \$85 single/double; \$95 triple/quad

**Americans With Disabilities Act Statement**

The APS-DPP wishes to take steps to ensure no individual with a disability is excluded, denied services, segregated or otherwise treated differently because of the absence of auxiliary aids and services identified in the Americans with Disabilities Act. If any such services are necessary in order for you to participate in the DPP99 meeting, please let us know your needs in advance. Send a message to [meetings@aps.org](mailto:meetings@aps.org).

**Transportation**

The Seattle-Tacoma International Airport (Sea-Tac) is located approximately 18 miles from the Westin Hotel; typically a 40 minute drive. Ground transportation between Sea-Tac and downtown Seattle is by Gray Line Airport Express shuttle service (800-426-7505), or taxi, departing from outside the baggage claim area between 5:20 a.m. and 11:20 p.m., every half hour. Gray Line

shuttle service is \$7.50 one way and \$13 round trip. Taxi service is approximately \$35 one way per cab, and each taxi may carry up to four passengers. Parking is available to Westin overnight guests for \$15 per day (self park) and \$18 per day (valet park), providing in and out service. Several open parking lots are located near the Westin for approximately \$11 per day, not including in and out service.

**Companion's Program**

Details of the companion's program will be in the *Summer DPP Newsletter*. Seattle is aptly named "The Emerald City" offering far more than just sensational scenery. Seattle and King County offer a unique combination of scenic beauty, cultural diversity, outdoor recreation and urban attractions. Music, art, dance, science, drama, crafts and international cuisine flourish in a harmonious Seattle setting. Buses in the central core are free, the waterfront area offers low cost trolley transportation, or board a ferryboat for a cross the sound trip or scenic tour. A moderate climate and a multitude of facilities make outdoor sports year round activities. Seattle is one of nature's most gifted areas, with mountains, rivers, islands, freshwater lakes and the saltwater sound all at hand or within an hour's journey. Exciting web sites to visit are: [www.seattle.com/](http://www.seattle.com/), [cityguide.lycos.com/assist/cityguide/articles/1161\\_t.html](http://cityguide.lycos.com/assist/cityguide/articles/1161_t.html), and [www.seeseattle.org/home/skccvb.html](http://www.seeseattle.org/home/skccvb.html).

**Important Info Meeting ID: DPP99**

DPP Web Site: [w3fusion.ph.utexas.edu/aps](http://w3fusion.ph.utexas.edu/aps)  
APS Web Site: [www.aps.org/meet/DPP99](http://www.aps.org/meet/DPP99)

**Contact Information**

Local Organizing Chair: Loren Steinhauer, University of Washington, [steinhauer@aa.washington.edu](mailto:steinhauer@aa.washington.edu)

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**Deadlines and Contacts**

Invited and Review Talk

Nominations **June 2**

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Abstract Submission **July 21**

Postdeadline Abstracts

**September 24**

Vinaya Sathyasheelappa,

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Requests for Satellite Meetings

**October 15**

AV Equipment Requests

**October 15**

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Phone: 301-209-3287

Preregistration **October 15**

Registration Cancellations

**November 12**

Donald Wise, [wise@aps.org](mailto:wise@aps.org)

Phone: 301-209-3289

Hotel Reservations **October 15**

Seattle Housing Bureau

Fax: 206-461-5853

Tour Registration **October 15**

Convention Services Northwest

Phone: 206-292-9198

Fax: 206-292-0559

Meetings Manager: Donna

Baudrau, APS Meetings

Department, [baudrau@aps.org](mailto:baudrau@aps.org)

Phone: 301-209-3285

### 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*

#### 1999 Executive Committee

##### Chair:

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##### Vice-Chair:

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##### 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:

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#### 1999 Appointed Committees

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**Program Committee for Invited and Contributed Papers, continued**

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Bruce Lipschultz	MIT	617-253-8636	blip@psfc.mit.edu
Jonathan Lister	CRPP, Lausanne	044-41-21693-3482	jo.lister@crpp.epfl.ch
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>exofficio</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>exofficio</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	LLNL	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
Sherrie 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

**Help Teachers Teach Plasmas, Plasma Science, and Plasma Applications: Workshop Presenters Sought**

One of the science education highlights of the annual APS-DPP meeting is Science Teachers Day. This stimulating mix of talks, workshops and networking has succeeded in exciting teachers about bringing plasmas into their classrooms since 1988, and grows larger each year. As a result the APS-DPP Outreach Committee, headed this year by General Atomics, is seeking more workshop presentations for the Seattle Meeting's Science Teachers Day, to be held on Tuesday, November 16 at the Westin.

Presentations are typically two hours long, and are designed to provide information for science teachers (middle and/or high school) on plasma science and its applications. Although the emphasis of the day is on fusion energy, the workshop can be on any topic that will help teachers explain plasmas. Ideally it should include hands-on demonstrations and discussions.

If you are interested in participating as a workshop presenter, or would like further information, please respond to:

Don Correll: [correll1@llnl.gov](mailto:correll1@llnl.gov) or  
 Carol Danielson: [danielson@gav.gat.com](mailto:danielson@gav.gat.com)

Include your:

- Workshop Title
- Name and Affiliation
- Brief description of your workshop presentation (300 words max)
- Estimated maximum number of teachers you want to teach
- Reference material and visuals for workshop presentation (if applicable).

*We need to hear from you by Wednesday, July 7. We will notify you of acceptance by Wednesday, July 28.*

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## The 11th Annual Special Issue of *Physics of Plasmas*

*Rules for Publishing an Invited or Review Paper from the 1999 APS Division of Plasma Physics Annual 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 19, 1999. 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 2000. 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](mailto:sschmidt@pppl.gov).

*Ronald C. Davidson*  
Editor  
Physics of Plasmas  
May 1999

**Minutes of Executive Committee Meeting  
Division of Plasma Physics (DPP)  
Thursday, 25 March 1999  
Westin Hotel  
Atlanta, Georgia**

**Attendees:**

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

**DPP Administrator:** Saralyn Stewart

**Sub-Committee Chairs:** Tom Simonen, Loren Steinhauer, Bruce Remington

**Guests:** Judy Franz, Martin Blume, Tom McIlrath, Mary Ann Sweeney, Jeff Colvin

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

Miklos Porkolab called the meeting to order at 5:15 pm. After introducing the attendees, he expressed the intent to shorten the agenda, because of lack of committee reports, and to finish by end of night.

**APS Executive Officers' Report – Franz,  
Blume, McIlrath**

Judy Franz gave a report on the recommendations from the APS task force on restructuring the council. The main recommendation is to reduce the number of council seats from 70 to 40, by limiting the number of divisional councilors to 1 and eliminating the sectional councilors. The advantages are that all councilors will be able to sit at one table and they have more opportunities to serve on executive committees. The proposal will be discussed at the APS council meeting in May. She asked that the DPP ExCom discuss this and give its input to the divisional councilor.

Porkolab offered Franz DPP's help to lobby Congress for more physical science funding. She commented that such activities have a higher probability of success if a bill is pending.

Martin Blume gave a report on the status of APS publications, mentioning the continuing trend of putting them on-line. Financially, the journals remained healthy.

Tom McIlrath reported on the financial status of APS and stressed the need to do long-range planning.

The DPP passed a motion (Kruer, seconded by Lampe) to congratulate Franz and the APS staff for a superbly organized centennial meeting.

**November Executive Committee Minutes –  
Chan**

The November minutes were passed without revision (motion: Hazeltine, seconded by Brown).

**Secretary-Treasurer Report – Chan**

Vincent Chan reported the DPP account balance had \$226k on 01/31/98, income from membership dues and investment is \$23k, the DPP98 meeting had a net loss of \$43k (mainly on overruns in room subsidy, coffee and decorator expenses), additional uncovered expenses for Teacher's Day and Science Expo were \$10k and other operating expenses were \$38k (including a one time only printing of the Pervasive Plasma brochures for \$15k and contribution to the Coalition for Plasma Science of \$5k). The DPP account balance as of 01/31/99 was \$160k.

The causes for the overruns were discussed and all agreed on the need to have better control of the costs in future meetings.

Vincent Chan presented three budget scenarios for DPP99 to the ExCom for discussions. The ExCom voted 12 to 2 to accept the third budget (motion: Hazeltine, seconded by Kruer) which aims for a balanced budget even with some decline in attendance from DPP98. The budget will remove the room subsidy, set the registration fees to \$10 over the DPP97 numbers except for students and retired members, which will stay the same. An amendment (proposed by Boozer and seconded by Cohen) to raise the registration fee to \$275 for members was defeated 7 to 6.

**New Orleans Survey Results – Drake**

Jim Drake reported on the DPP98 survey results. Comments included not enough coffee, the Radisson was in a bad location and too far, and never have a mini-conference at a separate site.

Jim requested that someone should check into internet access at DPP99. Loren Steinhauer will take that up as an action item.

**Councilor's Report – Kruer**

Bill Krueer said the present council is too big and the recommendation by the APS task force on restructuring the council is a good idea. A motion (Boozer, seconded by Hazeltine) to support the APS task force's recommendation on reducing council size was unanimously passed.

### **Education and Outreach – Simonen, Remington**

Simonen reported that the distinguished lecturers selection committee has recommended five candidates (Dahlburg, Drake, Driscoll, Gekelman, Meade) to give several lectures each in the coming year. This will be supported by funds from DOE managed through PPPL. The ExCom unanimously approved this slate of lecturers (motion: Hazeltine, seconded by Boozer). This will be announced in the APS News. Some discussions on whether the lecture series should take a break and future efforts to secure additional funding followed.

A New Orleans Teacher's Day and Science Expo summary was given by Simonen. The Science Expo was attended by over 3000 students and was a great success. As with future DPP meetings, the ExCom agreed that better budgeting is important. A detailed budget for the Seattle Teacher's Day and Science Expo was presented. A motion was passed (Finn, seconded by Hazeltine) to provide \$10k for this event. The rest of the funding will come from APS-wide funds and fundraising.

A three year commitment for a science prize for Pittsburgh schools was approved previously. No other commitment has been made.

The DPP centennial display was a success with many requests from various states and other countries for additional information and the backdrop display. Requests should be sent to Simonen/Danielson at General Atomics and Saralyn Stewart will put the backdrop on the DPP web site. Simonen and Drake will write a letter to thank Mike Schaffer for his effort.

Remington reported for the public information committee. Two out of 14 topics in the APS centennial press release came from fusion suggestions (nuclear physics with lasers and supernovae) and there was one plasma physics press conference. It was suggested that DPP should produce plain text version of science hot topics for the press. Drake and the program committee will look into this.

A written report was submitted by Rogoff on behalf of the Coalition for Plasma Science. There will be a workshop at the IEEE Plasma Science Meeting this summer on how to communicate with non-scientists.

Drake and Boozer visited Washington on an outreach trip. Porkolab will organize another trip to NSF, DoD, etc., in late Spring. A cap in overall funding is causing a problem according to congressional aides.

### **Administrator's Report – Stewart**

The ExCom approved the suggestion of Stewart to put the newsletter on the web which should lead to \$8k savings on operating costs.

### **International Collaboration – Fisch, Porkolab**

The Japanese Physical Society meeting will have two invited slots for U.S. scientists according to Tony Taylor. Fisch reported that of the 25 invited slots at this year's EPS meeting, the U.S. got 5. It is important for the U.S. representative to be present at the program committee meetings but the trips should be arranged to coincide with other funded trips.

### **Review of Action Items – Porkolab**

All the previous action items except one have been acted on or ceased to be an issue. The Canadian organizers may have to withdraw from the DPP2000. Prediman Kaw will get back to Drake on whether ICPP will pick it up if that's the case. Porkolab has been asked to get a U.S. person to be responsible as local chair.

### **DPP2001 and 2002 Site Selection – Fisch, Chan**

A motion (Hazeltine seconded by Krueer) to proceed with Long Beach for DPP2001 was passed.

Chan/Fisch will work with APS meetings department to check out Orlando, Albuquerque, Baltimore, Charleston, Savannah, Vancouver (Canada) and Portland for DPP2002.

### **Joint APS Units Fall Meeting – Drake and Porkolab**

Drake reported that Astrophysics division is interested in a joint meeting with DPP only if Particles and Fields division is included. Porkolab reported a similar situation with the division of Beams; they would be interested to join the fall DPP meeting only if both the divisions of Particles and Fields and Nuclear Physics would join. This would make the meeting very large, ending up with the situation that was voted down by ExCom in New Orleans. The ExCom felt that the membership had voted and it was too soon to reconsider this issue. DPP can continue

the interaction with other divisions through the mini-conferences. Fisch suggested we should encourage the Plasma Astrophysics topical group to get more new people to the DPP meeting.

### **DPP99 Activities – Steinhauer**

Steinhauer reported that the DPP99 Science Expo will be at the Seattle Center and the Teacher's Day will be in the DPP meeting hotel on Tuesday. Some logistics will be required to set up the plenary room on the first day. Drake and Chan will visit the site at the end of April and will make a note of this.

A motion (by Porkolab and seconded by Boozer) to set aside \$2k for foreign attendee subsidy was passed. The Program Chair will approve requests.

**The meeting adjourned at 11:00 pm.**

### **Recap of Action Items From This Meeting – Chan**

1. Drake requested that someone should check into internet access at DPP99. Loren Steinhauer will take that up as an action item.
2. Saralyn Stewart will put backdrop on DPP website. Simonen and Drake will write a letter to thank Mike Schaffer for his effort.
3. It was suggested that DPP should produce plain text version of science hot topics for press. Drake and the program committee will look into this.
4. The Canadian organizers may have to withdraw from the DPP2000. Prediman Kaw will get back to Drake on whether ICPP will pick it up if that's

the case. Porkolab has been asked to get a U.S. person to be responsible as local chair.

Respectfully submitted  
*Vincent Chan*  
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](mailto:membership@aps.org).

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**DPP Distinguished Lecturers 1999-2000**

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The Distinguished Lecturer program is intended to share with the larger scientific community exciting recent advances in plasma physics. These lecturers were selected by the DPP and they have agreed to present up to half a dozen lectures at no cost to a university. A DoE grant will pay their expenses. The program is designed to reach out beyond those universities that already have a strong plasma physics program. Together with their lecture titles, the 1999-2000 DPP Distinguished Lecturers are:

**Dr. Jill Dahlburg**

CODE 6736

Naval Research Laboratory

Washington, DC 20375

Phone: 202-767-5398

Fax: 202-767-4798

e-mail: dahlburg@lcp.nrl.navy.mil

**Lecture title:** *The Effect of the Rayleigh-Taylor Instability on Inertial Confinement Fusion Research***Professor James Drake**

Institute for Plasma Research

University of Maryland

Energy Research Facility, #223

College Park, MD 20742-3511

Phone: 301-405-1471

Fax: 301-405-1678

e-mail: drake@plasma.umd.edu

**Lecture title:** *Magnetic Reconnection: Explosions in Laboratory and Astrophysical Plasma***Professor Fred C. Driscoll**

University of California, San Diego

Physics Department 0319

9500 Gilman Drive

La Jolla, CA 92093-0319

Phone: 619-534-2489

Fax: 619-534-0173

e-mail: fdriscoll@ucsd.edu

**Lecture title:** *Pure Electron Plasmas: From Ideal 2D Fluids to Crystallized Molasses***Professor Walter Gekelman**

University of California, Los Angeles

Plasma Physics Laboratory

1000 Veteran Avenue Room 15-70

Los Angeles, CA 90095-1696

Phone: 310-206-1772

Fax: 310-206-5484

e-mail: gekelman@physics.ucla.edu

**Lecture title:** *Phantom in the vacuum...Laboratory Experiments on Space Plasmas***Dr. Dale Meade**

Head, Advanced Fusion Concepts

Princeton University, Plasma Physics Laboratory

Forrestal Campus, U.S. Route #1 North at Sayre Drive

P. O. Box 451

Princeton, N. J. 08543

Phone: 609-243-3301

Fax: 609-243-2667

e-mail: dmeade@pppl.gov

**Lecture title:** *Confining a Fusion Fire - A Grand Challenge for Science and Technology*

Dear Colleague,

I am writing to appeal for a donation for Sergey Bazdenkov, a fellow plasma physicist. Sergey suffered a brain stem stroke one year ago. It has left him a mute quadriplegic. The only part of his body that he can move is his head. However, Sergey's mental capacity was not diminished by the stroke.

Sergey communicates by using a device called a headmaster. It allows him to control the mouse on the screen by moving his head. He has written, among other things, a program simulating two dimensional turbulence with this device-with all the associated graphics! We think he can work again and we want to give him every opportunity to be successful in gaining employment.

I am writing at this time because a second tragedy has recently befallen Sergey and his family. Due to the recent economic crisis in Russia, almost all of Sergey's funds have been frozen and devalued by a factor of three! Most of these funds came from savings, friends in his Japanese community and from Russian friends and colleagues. The only other resources that Sergey has is a \$30 per month stipend from the Kurchatov Institute.

Sergey is married to Rimma a devoted wife who looks after him constantly. Rimma and Sergey have two daughters, Anastasiya, 14, and Alexandra, 11.

Funds that are raised for this appeal would go for basic family needs, medicines for Sergey, and most importantly, computer and software upgrades and Internet connection time so that Sergey may one day work again as a computational plasma physicist.

A web-site (<http://w3.pppl.gov/~monticel/Baz-denkov>) gives information about Sergey, but briefly, he was a plasma physicist at the Kurchatov Institute before taking a 4 year visiting professorship in Japan with Professor T. Sato at NIFS. He was in the process of moving to Australia to assume a Research Fellowship at ANU with Professor Robert Dewar when he was stricken.

The web-site also contains testimonials from Professor Robert Dewar, Professor Oleg Pogutse, Professor Tetsuya Sato, and Professor Vitaly Shafranov.

Donations to this fund will be kept in an interest bearing account in the PNC bank in Princeton New Jersey and released to Rimma at appropriate intervals. For security purposes, money can only be drawn from this account by checks having both my signature and that of Leonid Zakharov (also a Principal Research Physicist at the Princeton Plasma Physics Laboratory).

Checks can be made payable to: D. Monticello and L. Zakharov  
and write on the reverse side of the check:  
"for deposit only"

Please mail the checks to:  
Donald A. Monticello  
Princeton University  
Plasma Physics Laboratory  
James Forrestal Campus  
PO Box 451  
Princeton, NJ 08543-0451

I want to thank the leadership of the DPP for allowing me to make this appeal. A brief note was sent to the DPP members in January and this letter is an attempt to get more information about Sergey's plight to the members.

Sincerely,  
Don Monticello

**41st Annual Meeting of the Division of Plasma Physics  
November 15-19, 1999, Seattle, WA**

**Subject Classification Category Listing**

The subject classifications have been revised by the Division of Plasma Physics members and the Program Committee. Select a primary category number from this list for a contributed abstract, indicating theory or experiment. Select additional categories to assist the Program Committee to assign an abstract to a particular session. If a paper is to be placed as part of a group of papers, specify all such papers in numerical order in the "Special Instructions" field of the electronic template, or at the bottom of the paper submission.

- 1. Basic plasma physics**
    - 1.1 General waves and instabilities
      - 1.1.1 Nonlinear wave phenomena
      - 1.1.2 Waves in nonuniform plasmas
      - 1.1.3 Scattering, emission, and absorption
    - 1.2 Non-neutral plasmas
    - 1.3 Plasma flows and shocks
    - 1.4 Plasma sheath structure and phenomena
    - 1.5 Dusty plasmas
    - 1.6 Transport, nonlinear dynamics, MHD, and kinetic modeling
      - 1.6.1 Experimental measurements of transport and turbulence
      - 1.6.2 Transport and other dissipative processes-theory, modeling
      - 1.6.3 Turbulence and chaos-theory, modeling
      - 1.6.4 Magnetic reconnection-experiments, theory, modeling
      - 1.6.5 Non-MFE MHD studies
      - 1.6.6 Kinetic theory
      - 1.6.7 Gyrokinetic and related models
    - 1.7 Other topics in basic plasma physics
  - 2. Intense particle beams and high energy density plasmas**
    - 2.1 Beam transport, focusing, and instabilities
      - 2.1.1 Heavy ion beams
      - 2.1.2 Light ion beams
      - 2.1.3 Electron beams
    - 2.2 Conditioning and acceleration of beams
      - 2.2.1 Damping, cooling, and conditioning of beams
      - 2.2.2 Particle-beam-driven plasma accelerators
    - 2.3 Intense incoherent radiation generators
      - 2.3.1 Z-pinchs
      - 2.3.2 Lasers
      - 2.3.3 Other methods
    - 2.4 Plasma focus and vacuum sparks
    - 2.5 High power gas switches
    - 2.6 Equations of state in HEDP
    - 2.7 Opacity and atomic physics in HEDP
    - 2.8 Other topics in beams and high energy density plasmas
  - 3. Education and outreach**
    - 3.1 Teaching methods
    - 3.2 Exhibits and other communication
  - 4. Inertial confinement physics**
    - 4.1 Laser-plasma coupling at long scale lengths for ICF
    - 4.2 High-intensity, short-pulse laser plasma interactions for ICF
    - 4.3 Particle beam plasma interactions for ICF
    - 4.4 Compression and burn
    - 4.5 Numerical simulation
    - 4.6 Hydrodynamic instability
    - 4.7 Hohlraum physics
    - 4.8 ICF diagnostics
    - 4.9 Technology development for advanced ICF drivers
      - 4.9.1 National Ignition Facility
      - 4.9.2 Pulsed power for high yield
      - 4.9.3 Lasers for high yield
      - 4.9.4 Target fabrication and cryogenic systems
    - 4.10 ICF reactor studies
    - 4.11 Other topics in inertial confinement physics
  - 5. Magnetic confinement physics**
    - 5.1 Confinement configurations
      - 5.1.1 Tokamaks
        - 5.1.1.1 TFTR
        - 5.1.1.2 DIII-D
        - 5.1.1.3 C-Mod
        - 5.1.1.4 ITER
        - 5.1.1.5 Other tokamak experiments
        - 5.1.1.6 Tokamak design studies and innovations
      - 5.1.2 Stellarators
      - 5.1.3 Reversed field pinches
      - 5.1.4 Spherical tokamaks
      - 5.1.5 Field reversed configurations and spheromaks
      - 5.1.6 Other configurations
      - 5.1.7 Design studies and innovations in magnetic confinement
    - 5.2 Heating
    - 5.3 Current drive and current transport
    - 5.4 Fueling
    - 5.5 Divertors, boundary layer physics, plasma wall interactions
    - 5.6 Neutrals, impurities, particle transport
  - 5.7 Diagnostics and data acquisition for magnetic confinement
  - 5.8 MFE reactor and systems studies
  - 5.9 Turbulence and turbulent transport for MFE
  - 5.10 MHD for magnetic confinement
  - 5.11 Comprehensive modeling and simulation
  - 5.12 Other topics in magnetic confinement physics
- 6. Plasma sources and applications of plasmas**
  - 6.1 Plasma sources, developments, and investigations
  - 6.2 Plasma chemistry
  - 6.3 Plasma processing techniques and control systems
  - 6.4 Plasma arcs and other high pressure plasma systems
  - 6.5 Other topics in plasma applications and plasma technology
- 7. Coherent radiation and coherent-radiation-based accelerators**
  - 7.1 High power microwaves and mm waves
  - 7.2 Free electron lasers
  - 7.3 High intensity lasers and harmonic generation for non-ICF applications
  - 7.4 X-ray lasers
  - 7.5 Laser-based plasma accelerators
  - 7.6 Other topics in coherent radiation and coherent-radiation-based accelerators
- 8. Space plasma physics and astrophysical plasmas**
  - 8.1 Astrophysical plasmas
  - 8.2 Magnetospheric, ionospheric, heliospheric measurements and theory
  - 8.3 Laboratory experiments
  - 8.4 Other topics in space plasma physics and astrophysical plasmas
- 9. Diagnostics**
  - 9.1 Probes
  - 9.2 Radiation based diagnostics
  - 9.3 Energetic particle diagnostics
- 10. Undergraduate research**
- 11. Other topics in plasma physics**
- 12. Supplemental**
- 13. Postdeadline**