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Annual DPP Elections

- Vice-Chair
(select one)
- Executive Committee Members
(select three)

DPP Ballot is enclosed. Please vote and return the ballot by **Friday, September 26, 1997**. Email votes are accepted—instructions enclosed.

39th Annual Meeting
Announcement
17-21 November 1997
Pittsburgh, Pennsylvania

- Preregistration
Deadline: Friday, 17 October 1997
- Hotel Accommodations
Deadline: Friday, 17 October 1997
- Transportation
- Satellite Meeting Reservation
Deadline: Friday, 3 October 1997
- Business Meeting - Call for motions
Wednesday, 19 November 1997
- Banquet
Wednesday, 19 November 1997
- Companion's Program
- Invited or Review Paper: Physics of Plasmas
Special Issue Publishing Rules
- Undergraduate Research Poster Session
in Pittsburgh
- 1998 Solicitation of Prize and Awards Nominations
- AIP Career Services Center in Pittsburgh

Other Relevant Meetings

Note from the Chair

The expression "education-outreach" is turning into a single word-one that seems doomed to abbreviation. I will call it EO here. EO refers to a set of goals and activities that scientists can no longer shirk. On the one hand, popular appreciation of the aims, achievements and methods of physics remains crucial to the health of our discipline. Just as importantly, civic well-being requires a broad, increasingly sophisticated sense of how science works-of what it can and cannot do.

EO efforts within the Division of Plasma Physics have achieved striking, even spectacular success. They are a model for the Society. Because this work is so extremely important, it is a special pleasure to take note of its triumphs.

Most of the Division's activities in public communication are conducted under the aegis of the Interdivisional and Public Affairs Committee (IPAC). It was IPAC, then Chaired by Herb Berk, that produced "The Pervasive Plasma State," Jim Glanz' elegant, widely praised survey of our discipline. Under its present Chair, Tom Simonen, IPAC is supervising Divisional participation in the 1999 Centennial APS meeting in Atlanta, through a Subcommittee chaired by Jim Drake.

An Ad Hoc Education Group within IPAC oversees one of the most exciting efforts of the Division. Since 1988 the November DPP Meeting has included a Science Teachers' Day, organized by Donald Correll of DPP in concert with Ramon Lopez of the APS Office of Education and Outreach Programs. This event offers a full day of learning about plasma science and its applications to local high school teachers; in Denver it attracted some 130 participants, who responded enthusiastically. Their praise for the program afterwards was generous, obviously sincere, and a pleasure to hear. Indeed Science Teachers' Day is a clear example of outreach that works, to everyone's benefit.

At recent meetings Science Teachers' Day has been held in conjunction with an Open House on fusion energy. Usually held at a Museum or university, the Open House was started a few years ago by Sherrie Preische and Robert Heeter; in Denver it was organized in large part by General Atomics. Not only high school teachers, but also plasma physicists and the general public, have been enriched by the Open House. (A nice discussion of the Open House can be found in the Winter 1997 DPP Newsletter.)

A justly famous educational success is the Undergraduate Research in Plasma Physics poster session that was held in Denver. Organized by Michael Brown, the session was hugely popular. Thanks in part to the efforts of Alkesh Punjabi of Hampton University, a number

Annual DPP Elections

It's time to elect four new members to the DPP Executive Committee, a Vice-Chair and three new members. The current committee has a total of 16 members: five officers, two councillors and nine members. The newly elected DPP Vice-Chair will be Chair of the Fellowship Committee in 1998, will succeed to the Chair-Elect, will Chair the Program Committee in 1999, and will become the Chair in 2000. After serving as Chair, this person will serve on the site-selection committee, which proposes the site for the annual meeting.

The Chair of DPP prepares the agenda and presides at the Executive Committee Meetings and Business Sessions of the Division, appoints other committees as necessary, transacts business with the American Physical Society headquarters, oversees preparation of three annual divisional newsletters, works with the local arrangements chair to implement the Annual Meeting, chooses the banquet speaker, and in various other ways furthers the interests of DPP. One candidate for Vice-Chair must be selected.

Executive Committee members serve for three years. They attend two Executive Committee meetings and one Business Meeting per year at which business of the DPP is transacted. They are also consulted by the Chair on important decisions affecting DPP. Executive Committee members are often asked to serve on DPP ad hoc committees in order to accomplish the goals and satisfy the needs of the Division. The Executive Committee consists of nine members. Three candidates will be selected to a 3-year term beginning November 1997.

The 1997 DPP Nominations Committee, chaired by Ellen Zweibel, University of Colorado, has recommended the following excellent slate of candidates:

For Vice-Chair

(choose one)

James Drake (*University of Maryland*)
Joseph Kilkenny (*LLNL*)

For Executive Committee

(choose three)

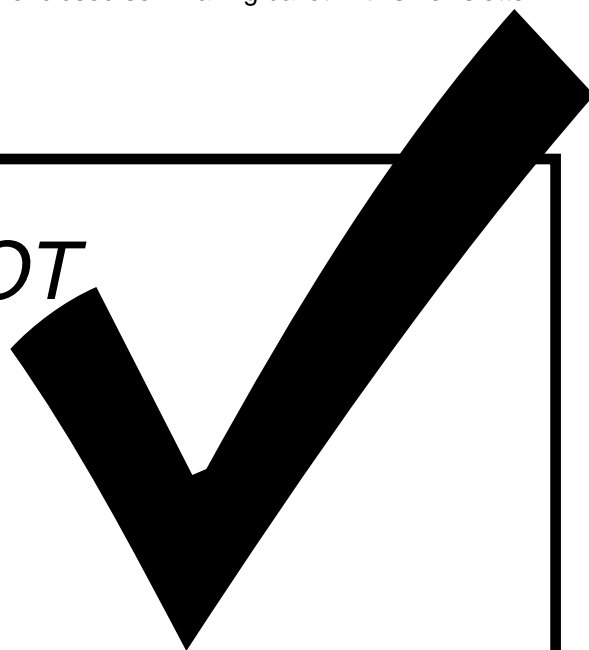
John Finn (*LANL*)
Thomas Jarboe (*University of Washington*)
Scott Parker (*University of Colorado*)
Martin Peng (*ORNL*)
Alkesh Punjabi (*Hampton University*)
Mordecai Rosen (*LLNL*)

When elected, these four individuals will agree to serve DPP in the roles indicated. Brief biographical data and statements of the candidates appear on the following pages, and on the web site. One candidate must be chosen for Vice-Chair and three candidates must be chosen as Executive Committee members.

Vote either electronically or on the enclosed self-mailing paper ballot. Choose only one method of voting, any variation in this procedure will invalidate your vote.

- Electronic ballot submission:
<http://3wffusion.ph.utexas.edu/aps>
- Paper ballot submission:
See enclosed self-mailing ballot in this newsletter

***THERE IS A BALLOT
INSIDE
PLEASE VOTE!***



Ballots are due by Friday, 26 September 1997

Division of Plasma Physics

1997 Annual DPP

Executive Committee Candidates

Candidate Profiles

JAMES F. DRAKE / VICE CHAIR

James F. Drake is presently a Professor of Physics at the University of Maryland, College Park. He received his Ph.D. degree in theoretical plasma physics from the University of California, Los Angeles, in 1975. He maintains an active research program on a broad range of topics in plasma physics, ranging from the collisionless magnetic reconnection with applications to the dynamics of the Earth's magnetosphere to turbulence and transport in laboratory fusion experiments. He has served on the Executive Committee of the Division of Plasma Physics twice (1985-1987 and 1994-1996), was President of the University Fusion Association (1995-1996), Divisional Associate Editor for Physical Review Letters and has chaired a number of national level committees. He is a Fellow of the American Physical Society and the recipient of a Humboldt Senior Scientist Research Award (1994).

Statement: The dramatic changes in the world political scene during the past decade combined with fiscal pressures on the overall budget have caused some national leaders to ask hard questions about the role science, and physics in particular, in our society. While the support for federally funded research in physics remains strong because of the recognition of its importance in maintaining the technological vitality of U.S. industry, we can no longer simply assume that this philosophical support will automatically be reflected in the budgetary support for research. We must effectively articulate the value of plasma science, and of the training received by students in our programs, for society as a whole. Plasma science has historically been driven by applications. While we can then argue convincingly for its value to society, programmatic decisions by funding agencies often promote narrow interests rather than the long term health of the field. The recent NRC report on plasma science, the PCAST document and the recent FEAC report all emphasize the importance of plasma science, independent of application. The NSF/DOE program on basic plasma science is a step in the right direction and should be continued and expanded.

JOE KILKENNY / VICE CHAIR

Joe Kilkenny directs the Lawrence Livermore National Laboratory (LLNL) Inertial Confinement Fusion (ICF) Program, including the Nova laser and National Ignition Facility Project. He is best known for his experimental work in hydrodynamics and transport processes in ICF and diagnostic development, for which he is fortunate to have won the 1995 APS Award for Excellence in Plasma Physics Research, the 1993 SPIE Conrady Prize, and an IR100 award.

Kilkenny was a graduate of Imperial College (University of London, B.Sc. 1968), where he received his Ph.D. (1972) and performed his early research on magnetically contained plasmas and pulsed power. The open formation of the Central Laser Facility to the Rutherford Laboratory allowed Kilkenny and his students to become contributors to ICF. He was also a founding director of Kentech Instruments, Ltd. Meanwhile, he ascended the academic ladder becoming a Reader of the University of London, before emigrating to the U.S.A. to pursue the goal of fusion at LLNL in 1985.

Kilkenny was elected an APS Fellow in 1991 and has worked on several APS committees. He founded the University Use of Nova Program, being a supporter of University science and international collaboration. He co-chaired the recent 11th APS Topical Plasma Diagnostics Conference, and other laser plasma conferences.

Statement: Although plasma physicists in magnetic fusion and inertial fusion have made enormous recent scientific discoveries, we must use DPP to continually market our work and explain to the public, government and industry both the intellectual challenge and the commercial benefits of our field. In addition to fusion plasmas, new plasma technologies from short pulse lasers to plasma processing have enormously increased the interconnections of our field to astrophysics, particle accelerators, materials physics, and etc. The DPP should work more closely with other APS Divisions to increase the constituency of all applications of plasma physics.

JOHN FINN / EXECUTIVE COMMITTEE

John Finn is a technical staff member in the Plasma Theory group, T-15, at Los Alamos National Laboratory (LANL). He specializes in theoretical plasma physics, and has worked in magnetohydrodynamics and applications of nonlinear dynamics in fusion and solar physics. A graduate of Georgia Institute of Technology (BS Phys 1969), the University of Houston (MS MATH 1971) and the University of Maryland (PhD 1974), Finn was a postdoctoral research associate at Princeton Plasma Physics Laboratory. He has worked at Cornell University, at the Naval Research Laboratory (with SAIC for 2 years), and at the University of Maryland before joining LANL in 1993. Finn has been a member of various APS DPP committees (DPP program, fellowship), has been a member (chair 1992-1994) of the DPP Human Rights Committee, member (and chair 1997) of the Nicholson Medal Committee, member (chair 1996) of the Sherwood Executive Committee. He is a Fellow of the American Physical Society.

Statement: Our discipline of plasma physics is rich in basic phenomena, and its applications are thoroughly intertwined

with the basic physics. Yet we have too long justified our work mainly on the potential applications. With the restructuring of the fusion program and with the new DOE/NSF initiative in basic plasma science, I believe we have a window of opportunity. DPP should work to bring together the various sub-disciplines of plasma science: magnetic fusion, inertial fusion, space, solar, astrophysical plasmas, beams, and work involving other laboratory plasmas. As a first step we should work to attract workers in the areas other than magnetic fusion to the DPP conference, and we should explore other means to foster cross-fertilization of these fields. Second, we should work to reach out to the larger science community. In particular, there is considerable overlap between our discipline and the disciplines of fluid dynamics and nonlinear dynamics. Examples of action the DPP Executive Committee might take are 1) hold symposia at the DPP conference on joint work in these areas, 2) have invited and review sessions at the spring meeting in basic plasma physics.

THOMAS JARBOE / EXECUTIVE COMMITTEE

Statement: The primary purpose of the APS is to promote physics and the purpose of DPP is to promote plasma physics. The DPP must do a better job of educating the public about the importance of plasma physics research. In addition to the program for high school teachers an effort must be made to reach the average informed citizen. DPP should have a policy of submitting a national press release during or just after our November meeting that highlights the meeting, and explains why the results reported are important to the average person. All invited speakers need to be encouraged to report their results to their local newspaper and/or TV station. A qualified journalist should be at the November meeting to help the invited speakers with their local press releases as well as working on a national press release. Through these publications we would drive home to the public such facts as: Controlled fusion is the best candidate for an inexhaustible, non-polluting future energy source; plasma processing technology is a key element in the silicon revolution and will play a more and more important role; and plasma propulsion is recognized as the best method of positioning and station keeping for communication satellites. The public must be informed of the nature of plasma and its importance in our future.

The DPP should lead an effort to have plasma physics recognized as a curriculum at the university level. The plasma physics link between fusion research, plasma processing, plasma propulsion, and other plasma based technology is strong enough to unite these areas of research into common university academic programs, possibly offering an undergraduate degree in plasma science. The DPP needs to coordinate an effort to establish such programs by providing arguments and data that justify such programs, by encouraging professors to propose such programs, and by synchronizing the push nationwide for the greatest impact.

Tom Jarboe received a BS degree in Engineering Physics from the University of Illinois and a Ph.D. in Plasma Physics from the University of California Berkeley. He then worked at

Los Alamos National Laboratory for 15 years doing controlled fusion research during which a one year sabbatical was spent at Culham Laboratory. For the past eight years Tom has been a professor at the University of Washington in Seattle. Presently, his scientific interests are in plasma relaxation and its application to current drive for controlled fusion and in plasma propulsion for satellites. Tom is an APS Fellow.

SCOTT PARKER / EXECUTIVE COMMITTEE

Scott Parker is an Assistant Professor of Physics at the University of Colorado, Boulder. Prior to that he was a Staff Research Physicist in the Theoretical Division at the Princeton Plasma Physics Laboratory. He received his Ph.D. in Engineering Science at the University of California, Berkeley in 1990 and his B.S. in Mathematics and Nuclear Engineering at the University of Wisconsin, Madison in 1985. He received a University of California Regents Fellowship in 1985 and a DOE Fusion Postdoc Fellowship in 1990.

Parker's research focus is kinetic theory and simulation of plasmas, specifically as it relates to tokamak turbulence and transport. He has made significant contributions in large-scale three-dimensional computer simulation, delta-f methods, and kinetic-fluid hybrid models. His simulations were the first to show similarities with experimental fluctuation spectra in tokamak plasmas. Parker has also been active in comparisons between gyrokinetic and gyrofluid models, including novel ways to improve such models. He is currently the leader of the Cyclone Team, a DOE initiative to provide information on the physics basis of the most widely used core transport models. He is also on the Executive Committee of the Numerical Tokamak Turbulence Project, a DOE Computing Grand Challenge.

Statement: Plasma physics is a truly exciting field with a broad range of application. Intellectually, the field is very vibrant. Plasma research provides for a better basic understanding of nature, while at the same time having real world societal implications. However, there are serious problems facing our field that we need to aggressively address head on: the funding situation, the downsizing of plasma research at DOE labs, the terminal postdoc dilemma, and the emphasis on politics over good science. You may ask, "What can we possibly do?" As a start, we really need to re-ignite, within the community, our pride and enthusiasm in plasma research. At the same time, scientists outside our community need to know more about what plasma physics is, what is exciting about it, and why plasma research is intellectually challenging and of the highest caliber. Collectively, it is our job to actively deliver this message. Most importantly, we need to emphasize and continue to reward good science and not allow funding priorities or political pressures to degrade the quality of our plasma physics research. The APS-DPP also needs to work towards broadening its base of participation in areas such as plasma processing, accelerators, microwave devices, space plasmas and astrophysical plasmas.

Y.-K. MARTIN PENG / EXECUTIVE COMMITTEE

Martin Peng is a Senior Research Staff member at Oak Ridge National Laboratory (ORNL). He is on assignment at Princeton Plasma Physics Laboratory and is the Program Director of the National Spherical Torus Experiment (NSTX), which is presently under construction. He is interested in investigating the physics of spherical torus plasmas, and making research opportunities on NSTX broadly available to researchers in the plasma physics community.

A graduate of National Taiwan University (B.S., 1967) and Stanford University (M.S., 1970; Ph.D., 1974), Dr. Peng joined the Theory Section of Fusion Energy Division of ORNL and began plasma physics research in 1974. He made contributions in a variety of topics in plasma theory, modeling, and fusion concepts. These covered magnetized plasma Lagrangian and Hamiltonian density formulation and applications, MHD equilibrium and stability, ECH-assisted plasma initiation, guiding-center orbits, plasma shaping diagnostics, plasma ignition analysis, physics database and systems analysis of future tokamaks, and more recently the spherical torus plasmas. He published or co-authored over 60 journal papers, 60 conference papers, and 70 laboratory reports. Dr. Peng is a Fellow of the American Physical Society, and a member of the American Nuclear Society. He received the 100 Inventors Award of Science Digest in 1986, and the Excellence in Fusion Engineering Award of Fusion Power Associates in 1988.

Statement: Plasma physics in the U.S. needs to increase innovative research as a basic science and to pursue near-term applications as a relevant science. Success in these directions, built upon the broad expertise and the large progress already achieved, can bring about a revival of scientific and funding interests. The community also needs to enhance collaboration on various research activities to use limited resources more efficiently. If elected to serve as a member of the Executive Committee, I will work toward these goals for the benefit of the DPP members.

ALKESH PUNJABI / EXECUTIVE COMMITTEE

Alkesh Punjabi is Professor of Mathematics and Physics, and Director of the Center for Fusion Research and Training at Hampton University (HU) in Virginia. He received his BS in Physics from St. Xavier's College in India in 1971 and his PhD in Theoretical Plasma Physics from the College of William and Mary in 1983. In his doctoral thesis, he applied catastrophe theory to understand M-L-H mode transitions in Elmo Bumpy Torus, a first in fusion.

After his PhD, Alkesh Punjabi joined HU and initiated research in magnetic fusion. The US DoE awarded him a Certificate of Appreciation for Outstanding Work and Contributions to Tokamak Research at a Historically Black University. The Center for Fusion Research and Training (CFRT) was created at Hampton through a grant DoE-OFES funding in 1994. This is the first and only fusion science center at a Historically Black University in the nation. The HU CFRT trains students from

high school to PhD level in fusion science and conducts fusion science research. The HU CFRT especially focuses on minority and female students. The center also engages in activities to raise public awareness of the importance of fusion science research to the future of mankind and the nation.

Alkesh Punjabi and the HU CFRT have distinguished themselves in inventing and applying innovative new ideas and methods to investigate basic and critical problems in fusion science. Punjabi used the mathematical theory of catastrophes to explain the critical phenomena of L to H mode transition in the DIII-D tokamak. He used the new Monte Carlo method to discover new regimes of anomalous transport in the RFP ZT40 device at Los Alamos National Laboratory. Most recently, Punjabi and Professor A. Boozer, Columbia University, have developed a new method to study the problem of heat impinging on the collector plates in divertor tokamaks that has made the HU CFRT the world's premier center in the Method of Maps.

Alkesh Punjabi has published numerous articles in his areas of interest and has presented many invited and contributed seminars on his research. Punjabi was National Merit Scholar of India and Research Scholar at Physical Research Laboratory in India. Punjabi was chosen American Field Service International Scholar in California in 1967-68.

Statement: I feel that in these difficult times in fusion science, the US fusion science community should unite and chart a course of action for the future that builds on the areas of the recognized strengths of the US program. As a member of the Executive Committee, I will work to preserve and build on these strengths, encourage innovative and imaginative ideas and approaches to investigate problems of fusion as a basic science in keeping with the existing political and fiscal realities. I will continue to work to strengthen and enhance the presence and participation of under-represented minorities and women in this exciting and challenging science. I will also work to raise public awareness of the critical importance of fusion science to the future of our nation and mankind. I will work to introduce high school students to fusion science in order to prepare a cadre of bright young men and women who may choose to become future standard bearers of our discipline. Finally, I would like to state that I perceive fusion to be a fundamental, basic, nonlinear science.

MORDECAI ROSEN / EXECUTIVE COMMITTEE

Mordecai David ("Mordy") Rosen was born in Brooklyn, N.Y. in 1951. He received his B.Sc. in Physics and Math from the Hebrew University in Jerusalem in 1972, and his PhD in Plasma Physics (tokamak theory) from Princeton University in 1976. In 1976 he joined the Lawrence Livermore National Laboratory (LLNL) as a target designer in the Inertial Confinement Fusion (ICF) Program. In 1979 he became project manager for physics experiments on the Shiva laser, responsible for the design and analysis of experiments. In 1984 he became Associate X-Division Leader for Laser Target Design. In 1990 he was named X-Division Leader for Advanced Technology. Under his leadership, through 1997, X-Division

has successfully accomplished "the Nova technical contract"- an extensive series of milestones that substantially increased confidence that the National Ignition Facility would achieve its goal of demonstrating ignition in the laboratory by 2005.

In 1985 Dr. Rosen was elected a fellow of the American Physical Society, was named by Science Digest as one of the year's top 100 innovators, and was co-recipient of the DOE Award of Excellence. In 1990 he was named co-winner of the APS Excellence Award in Plasma Physics for his innovative work on XRLs, and was awarded a Fulbright Fellowship to study ultra short pulse laser plasmas overseas, but declined the offer in order to lead X-Division. Dr. Rosen served on the DPP Program Committee in 1993 and in 1996 chaired the Excellence Award Committee where he served as a member in 1995. Dr. Rosen has taught a year long graduate course in plasma physics at UC Davis / Department of Applied Science, co-taught an undergraduate semester course on fusion at UC Berkeley's Department of Nuclear Engineering, lectured to undergraduates on XRLs at the LLNL Summer

Institute, and taught ICF at numerous summer schools. His research interests continue to be in the field of innovative uses of high energy density facilities for the study of advanced fusion concepts and their associated scientific and technological spin-offs.

Statement: Having maintained strong contacts with some elements of the magnetic fusion community, and some academic contacts in basic plasma science as well, I hope to be able to continue to build bridges between those communities and the inertial confinement community. This has become increasingly important in light of the recent years of declining MFE budgets and increasing ICF budgets in the context of the Stockpile Stewardship Program. I hope to be able to facilitate and educate the MFE and academic communities in ways in which they can contribute to Science Based Stewardship which utilize and expand their considerable talents and expertise. In addition I will look for ways to help raise the public's awareness of the past, present, and potential contributions of our Plasma Science Discipline to their lives and the lives of their progeny. For so many of us, after all, the public is ultimately our employer.

Invited or Review Paper: Physics of Plasmas Special Issue Publishing Rules

The 9th Annual Special Issue of Physics of Plasmas

Rules for Publishing an Invited or Review Paper from the 1997 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.

Deadlines:

The deadline for submission is noon on Friday, November 21, 1997. Authors wishing to have a paper published in the Special Issue must bring the completed manuscript to the DPP Meeting in publishable form.

The Special Issue is scheduled to be published in May 1998. 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.

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.

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 1997

Thirty-Ninth Annual Meeting of the Division of Plasma Physics

17-21 November 1997 - Pittsburgh, Pennsylvania

General Information

The 39th Annual Meeting of the Division of Plasma Physics (DPP) will be held Monday through Friday, 17-21 November 1997 in Pittsburgh, Pennsylvania. The technical sessions will be at the Lawrence Convention Center and the DoubleTree Hotel; the two facilities are connected by a skywalk. The DoubleTree is the official headquarters hotel.

Meeting Program

The scientific program will consist of nine half-day sessions of review, invited, and contributed papers. Review papers will be given in daily plenary sessions. There are two types of invited papers, specialized and tutorial, which will be given in parallel with contributed sessions. Special session, technical sessions, and mini-conferences have been organized by the Program Committee. Poster boards will be 4 feet by 8 feet in the poster session at the Lawrence convention Center. Additional session information will be published in the October issue of *APS News*, on the APS home page at <<http://aps.org/meet/DPP97>>, and on the DPP home page at <<http://w3fusion.ph.utexas.edu/aps/>>.

This year over 200 nominations were submitted for invited and review talks. The program committee has selected review and invited presentations covering basic plasma physics, beams and accelerators, education and outreach, inertial confinement physics and laser-produced plasmas, magnetic confinement physics, tokamaks, plasma applications and plasma technology, radiation generation, space plasma physics and astrophysical plasmas, and other topics in plasma physics. Invited and review papers may be published in the 9th Annual Special Issue of *Physics of Plasmas* (see enclosed rules).

Program Committee Members

Chair-Nathaniel Fisch, *Princeton University*
phone: 609-243-2643 • email: fisch@princeton.edu

James Callen, *University of Wisconsin*
phone: 608-262-1370 • email: callen@engr.wisc.edu

Robert Commisso, *Naval Research Laboratory*
phone: 202-404-8984 • email: commisso@fermi.nrl.navy.mil

Steven Cowley, *University of California, Los Angeles*
phone: 310-825-4789 • email: cowley@physics.ucla.edu

Michael Desjarlais, *Sandia National Laboratories*
phone: 505-845-7273 • email: mpdesja@sandia.gov

David Hammer, *Cornell University*
phone: 607-255-3916 • email: hammer@lps.cornell.edu

Richard Hazeltine, ex officio, *University of Texas*
phone: 512-471-1322 • email: rdh@hagar.ph.utexas.edu

Joel Hosea, *Princeton Plasmas Physics Laboratory*
phone: 609-243-3206 • email: jhosea@pppl.gov

Warren Hsing, *Los Alamos National Laboratory*
phone: 505-665-7507 • email: hsing@lanl.gov

Makoto Katsurai, *University of Tokyo* phone: +81-3-3812-2111 •
email: katsurai@katsurai.t.u-tokyo.ac.jp

Mark Koepke, ex officio, *West Virginia University*
phone: 304-293-3422 • email: koepke@wvnmms.wvnet.edu

Arnold Kritz, *Lehigh University*
phone: 610-758-3930 • email: kritz@plasma.physics.lehigh.edu

John Lindl, *Lawrence Livermore National Laboratory*
phone: 510-422-5430 • email: lindl1@llnl.gov

Neville Luhmann, *University of California, Davis*
phone: 510-422-9787 • email: luhmann@gregor.llnl.gov

Michael Mauel, *Columbia University*
phone: 212-854-8257 • email: mauel@columbia.edu

Robert McCrory, *University of Rochester*
phone: 716-275-4973 • email: rmcc@lle.rochester.edu

Howard Milchberg, *University of Maryland*
phone: 301-405-4816 • email: milch@ipst.umd.edu

William Nevins, *Lawrence Livermore National Laboratory*
phone: 510-424-6401 • email: nevins@llnl.gov

Francis Perkins, Jr., *ITER, San Diego*
phone: 619-622-5195 • email: perkinf@iterus.org

Peter Politzer, *General Atomics*
phone: 619-455-2260 • email: politzer@gav.gat.com

Miklos Porkolab, *Massachusetts Institute of Technology*
phone: 617-253-8448 • email: porkolab@psfc.mit.edu

Allan Reiman, *Princeton Plasma Physics Laboratory*
phone: 609-243-2623 • email: areiman@pppl.gov

David Ruzic, *University of Illinois*
phone: 217-333-2906 • email: druzic@uiuc.edu

Edl Schamiloglu, *University of New Mexico*
phone: 505-277-4423 • email: edl@eece.unm.edu

Earl Scime, ex officio, *West Virginia University*
phone: 304-293-3422 • email: scime@wvnmms.wvnet.edu

Phillip Sprangle, *Naval Research Laboratory*
phone: 202-767-3493 • email: sprangle@ppd.nrl.navy.mil

Clifford Surko, *University of California, San Diego*
phone: 619-534-6880 • email: csurko@ucsd.edu

Mary Ann Sweeney, ex officio, *Sandia National Laboratories*
phone: 505-845-7307 • email: masween@sandia.gov

Michael Tendler, *Alfvén Lab, Sweden*
phone: 46-8-790-77-09 • email: tendler@venus.fusion.kth.se

James Van Dam, *University of Texas*
phone: 512-417-6129 • email: vandam@hagar.ph.utexas.edu

David Whittum, *Stanford University*
phone: 415-926-2302 • email: whittum@slac.stanford.edu

The Local Organizing Chairmen are Earl Scime and Mark Koepke of West Virginia University.

Conference Deadlines

3 October 1997	Satellite Meeting Reservation
17 October 1997	Preregistration
17 October 1997	Hotel Accommodations
17 October 1997	AV Equipment Reservation
24 October 1997	Preregistration Refund Request
31 October 1997	Postdeadline Abstracts

Postdeadline Submission

The deadline for electronic submission of postdeadline abstracts is Friday, 31 October 1997 at 5:00 p.m. EST at the APS Headquarters.

Abstracts received after the contributed abstract deadline, Tuesday, 8 July 1997, will be assigned to the postdeadline poster session. The APS home page will be updated up to Friday, 31 October 1997. Postdeadline abstracts prepared after Friday, 31 October 1997 must be submitted 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@hagar.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, 17 October 1997. 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 for by cash, credit card, or personal check. Each check must be made payable in U.S. dollars and drawn on a U.S. bank.

Send requests to:

Tammany Buckwalter
APS Meetings Department
Phone: 301-209-3287
Fax: 301-209-0866
Email: buckwalter@aps.org

Registration

Preregistration will offer substantial savings. Please use the form in this announcement and mail or fax to APS by Friday, 17 October 1997. Forms received after the deadline will be returned unprocessed; participants must therefore register on site. Overseas preregistration fees are honored on-site only if the APS has received the preregistration form by the Friday, 17 October 1997 deadline. The registration fee reflects a subsidy of the room rates at the two official meeting hotels.

Preregistration Fees (deadline: Friday, 17 October 1997)

APS Member	\$240
Nonmember	\$360
Retired/Unemployed Member	\$ 50
Student	\$ 50
Overseas Member	\$240
Overseas Nonmember	\$360
Banquet Ticket	\$ 30

On-Site Registration Fees

APS Member	\$290
Nonmember	\$400
Retired/Unemployed Member	\$ 60
Student	\$ 60
Overseas Member	\$290
Overseas Nonmember	\$400
Banquet Ticket	\$ 30

Membership

We encourage you to recruit your colleagues to become members of DPP and the APS by contacting the APS Membership Department, One Physics Ellipse, College Park, Maryland 20740-3844, phone: 301-209-3280, fax: 301-209-0867 or email: membership@aps.org. APS-DPP membership allows more voice in APS governance and more APS Fellow candidates through DPP. For more details, please see the APS home page: <http://aps.org/memb/whybelong/>

Business Meeting

The business meeting of the Division of Plasma Physics will be held in the Lawrence Center at 17:30 Wednesday, 19 November 1997. New items of business will be considered in the following order: (1) Motions which have been written, together with any supporting arguments, must be received by the secretary-treasurer, Mary Ann Sweeney, Sandia National Laboratories, MS 1186, PO Box 5800, Albuquerque, NM 87185-1186, fax: 505-845-7890, email: masween@sandia.gov, by noon on Friday, 7 November 1997, or at the registration desk at the Annual Meeting before noon on the first day of the meeting (Monday, 17 November 1997). Copies of such material will be displayed on bulletin boards in the registration area in order to give members reasonable notice in case they wish to participate in the discussion and vote on such motions. (2) Motions which have been written out and submitted to the secretary-treasurer prior to the start of the business meeting. (3) Other new business, not included in (1) or (2).

Banquet

The conference banquet will be held on Wednesday evening, 19 November 1997. Subsidized tickets can be purchased in advance or on-site for \$30 on a space-available basis. The DPP reserves the right to limit the number of banquet tickets, and all sales are nonrefundable. 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 (former Simon Ramo Award), and recognition of new APS Fellows. The guest speaker will be announced at the Annual Meeting.

Satellite Meeting Reservations

Reservations for satellite meeting rooms must be received by the deadline of Friday, 3 October 1997. 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:
Tammany Buckwalter
APS Meetings Department
Phone: 301-209-3287
Fax: 301-209-0866
Email: buckwalter@aps.org

Hotel Accommodations

Accommodations for the Annual Meeting will be at the DoubleTree Hotel and the Westin Hotel. In order to obtain the conference housing rate, the Housing Form in this announcement must be received by Friday, 17 October 1997. Do not mail the form to APS Headquarters in Maryland.

Subsidized rates for the hotels are:

DoubleTree Hotel Pittsburgh (Headquarters Hotel)

1000 Penn Avenue
Pittsburgh, PA 15222
412-281-3700
800-222-8733

\$ 93 per night = single
\$108 per night = double
\$123 per night = triple
\$138 per night = quad

Westin Hotel

530 William Penn Place
Pittsburgh, PA 15219
412-281-7100

\$73 per night = single/double

Transportation

Pittsburgh International Airport (PIA) is located approximately 19 miles from downtown Pittsburgh; typically a 30-minute drive. Ground transportation between PIA and downtown Pittsburgh is by shuttle service or taxi, departing from the lower level near the baggage claim area between 5:00 a.m. and 11:40 p.m. Shuttle service is \$12 one way. Taxi service is approximately \$30 one way per cab, and each taxi will carry up to four passengers. Parking for rental cars is available at the hotels for a fee. Special discounted airfare information will be mailed with preregistration receipts.

Companion Program

Pittsburgh is banked on all sides by tall, green hills and cut by three mighty rivers; the Allegheny, Monongahela, and Ohio. It is an exciting city that offers a wide range of activities, including an exceptional selection of theatre, ballet, opera, and music, as well as nationally acclaimed sports teams. Three tours are offered to sample the unique charm of this all-American city.

You are encouraged to join fellow companion's at the complimentary **Companion's Breakfast, Monday, November 17 at 9:00 am** in the **DoubleTree Hotel**. Here you will have an opportunity to meet new people, reacquaint with friends, and get answers to sight-seeing and logistical questions. A representative from the Pittsburgh Convention and Visitor's Bureau will give a presentation on local attractions, and a representative from Pittsburgh Panorama, Inc. will describe some tours.

Companion Program con't

On **Monday**, a **Pittsburgh City Tour** will give an overall view of the city through its rivers, hills, architecture, culture, and neighborhoods. The tour will include the Golden Triangle with emphasis on the history and renaissance of the city, a ride on the Duquesne Incline for a panoramic view of Pittsburgh, a stop at the gothic glass masterpiece PPG Place known as the crown jewel in the Pittsburgh Skyline, a riding tour of Pittsburgh's cultural center Oakland, a visit to the Nationality Rooms in the Cathedral of Learning for a tribute to the pre-1787 heritages of the city's ethnic groups, and a tour of the Heinz Memorial Chapel. You will have time to wander through Station Square, a welcome destination for shopping, dining, and entertainment that will beckon your return later in the week.

On **Tuesday**, a guided bus tour of the greater Pittsburgh area will include three stops. **Kentuck Knob**, Frank Lloyd Wright's second most famous masterpiece, will be your first stop. Lunch will be served at **Nemocolin Woods**, your second stop, where grand style is the standard. The third stop is at the **Lenox factory outlet**.

On **Wednesday**, Pittsburgh's two "**Andy's**" will be featured during a tour of the **Carnegie and Warhol Museums**. The Carnegie includes the Museum of Natural History, Museum of Art, Music Hall, and Library of Pittsburgh. The Warhol Museum features a collection of Andy Warhol's eccentric art. With your guide, you will explore and contrast the lives of these two individuals who made great contributions to Pittsburgh and the world around them.

See the APS-DPP Meeting Web site (www.aps.org/meet/DPP97/) to register on-line for the Complimentary Companion's Breakfast, or simply fill out the form included in this newsletter.

Note from the Chair con't from pg. 1

of high school students also took part; some of the high school posters were especially remarkable. Those of you who visited the session-and an encouraging number of plasma physicists showed up-recall the vitality of the posters and the impressive physics sophistication of the presenters.

This brief discussion touches on only a fraction of Divisional efforts in EO; of course it omits numerous similar activities outside the Division, such as Steve Dean's Fusion Power Associates, the new student organization, SAFER (Scientists Advocating Fusion Energy Research) and the recently formed Coalition for Plasma Science. It is apparent that plasma scientists are willing to try to tell an understandable story to the wider public.

Indeed, it is impossible to look at DPP outreach without being struck by the energy, skill and willingness to help-often at considerable expense in time-of so many members of the our community. In addition to the names mentioned above, many others, such as Carol Danielson, Tim Eastman, Mark Haynes, Rush Holt, Rick Lee and Pat Winter, come to mind. The quality of EO provided by the Division of Plasma Physics reflects, closely and unsurprisingly, the quality of its membership.

Undergraduate Research Poster Session in Pittsburgh

For the second year there will be a special poster session entitled "Undergraduate Research in Plasma Physics" at the DPP Annual Meeting in Pittsburgh. 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 26 presenters from 17 institutions and was very successful.

Students should submit their abstracts as contributed papers according to the abstract submission instructions in this newsletter. Choose category 9, Undergraduate Research from the Subject Classification Category Listing. DPP will waive registration fees for undergraduate presenters. Roommates in Pittsburgh will be coordinated which will reduce student travel expense. The session will be held on Tuesday, November 18, 1997. 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).

1998 Solicitation of Prize and Awards Nominations

James Clerk Maxwell Prize for Plasma Physics

Please send nominations for the 1998 Maxwell Prize with supporting documentation by 1 April 1998 to:

Robert Goldston
Princeton Plasma Physics Laboratory
Route 1 North, James Forrestal Campus
Princeton, NJ 08543
Tel: 609-243-3553
Fax: 609-243-2749
Email: goldston@pppl.gov

Award for Excellence in Plasma Physics Research

Please send nominations for the 1998 Excellence Award with supporting documentation by 1 April 1998 to:

Bruce Remington
Lawrence Livermore National Laboratory
7000 East Avenue (L-473)
Livermore, CA 94550
Tel: 510-423-2712
Fax: 510-422-8395
Email: remington2@llnl.gov

Award for Outstanding Doctoral Thesis Research in Plasma Physics

Please send nominations for the 1998 Doctoral Thesis Award with supporting documentation by 1 April 1998 to:

Ronald Gilgenbach
University of Michigan
Department of Nuclear Engineering and Radiological Sciences
2355 Bonisteel Boulevard
Ann Arbor, MI 48109
Tel: 313-763-1261
Fax: 313-763-4540
Email: rongilg@engin.umich.edu

Nicholson Medal for Humanitarian Service

Please send nominations for the 1998 Nicholson Medal with supporting documentation by 1 April 1998 to:

Ravindra Sudan
Cornell University
369 Upson Hall
Ithaca, NY 14853
Tel: 607-255-4127
Fax: 607-255-3004
Email: sudan@lps.cornell.edu

Other Relevant Meetings

The 1997 International Conference on Strongly Coupled Coulomb Systems,

3-10 August 1997, Boston College, Massachusetts. Contact: Gabor J. Kalman, email: kalman@bc.edu, website: <http://ph99.bc.edu/conference/>.

13th International Symposium on Plasma Chemistry,

18-22 August 1997, Beijing, China. Contact: Lin He, email: cstam@sun.ihep.ac.cn.

Diagnostics for Experimental Fusion Reactors,

4-12 September 1997, Varenna, Italy. Contact: Donatella Pifferetti, email: ccvm@ccvm.cil.ic.it.

First Asian-European International Conference on Plasma Surface Engineering,

5-8 September 1997, Seoul, Korea. Contact: Dr. Hanjung Kim, phone: +82-02-883-0904, email: hangjung@alliant.snu.ac.kr.

7th International Conference on Ion Sources, ICIS97,

7-13 September 1997, Taormina, Italy. Contact: G. Ciavola, phone/fax: +39-95-542300, email: icis97@Ins.infn.it.

12th International Conference on Gas Discharges and Their Applications,

8-12 September 1997, Greifswalf, Germany. Contact: G. Babucke, phone: +49-3834-554411, fax: +49-3834-554301, email: gd97@public.inp.uni-greifswald.de.

3rd Carolus Magnus Summer School on Plasma Physics,

8-19 September 1997, Spa, Belgium. Contact: G. Van Oost, phone: +49-2461-615626, fax: +49-2461-613331, email: g.vanoost@kfa-juelich.de.

6th International Workshop on Plasma Edge Theory in Fusion Devices,

15-17 September 1997, Exeter College, Oxford, United Kingdom. Contact: G.C. Vlases, phone: +1235-46-4552, fax: +1235-46-4905, email: george.vlases@jet.uk.

In Conjunction With

Atomic Processes in Low Temperature Edge Plasmas,

18 September 1997, Exeter College, Oxford, United Kingdom. Contact: S. Krasheninnikov, phone: 617-253-8449, fax: 617-253-5805, email: annam@psfc.mit.edu.

3rd International Workshop on Electrical Probes in Magnetized Plasmas,

22-25 September 1997, Berlin, Germany. Contact: Marlies Blaschke, phone: +49-30-20366-103, fax: +49-30-20366-111, email: probe.workshop@ipp-garching.mpg.de, website: <http://www.ipp.mpg.de/BB/workshop/workshop.html>.

8th International Symposium on Laser-Aided Plasma Diagnostics,

22-26 September 1997, Doorwerth, Netherlands. Contact: L. van Veenendaal, phone: +31-30-6096-733, fax: +31-30-6031-204, email: lapd@rijnh.nl, website: http://www.rijnh.nl/PHYSICS/WORKSHOPS/LAPD_8.html.

11th International Stellarator Conference and 8th International Toki Conference on Plasma Physics and Controlled Nuclear Fusion (ITC-8),

29 September-3 October 1997, Toki-city, Japan. Contact: S. Sudo, phone: +81-52-789-4273, fax: +81-52-789-4203, email: itc8@nifs.ac.jp, website: <http://infosrv.nifs.ac.jp:80/~itc8/>.

50th Annual Gaseous Electronics Conference,

6-9 October 1997, Madison, Wisconsin. Contact: Thad G. Walker, phone: 608-262-4093, fax: 608-265-2334, email: wlaker@umnuc.physics.wisc.edu, website: <http://www.aps.org/meet/gec97/>.

44th National American Vacuum Society Symposium,

20-24 October 1997, San Jose, California. Contact: AVS, phone: 212-248-0200, fax: 212-248-0245, email: avsnyc@vacuum.org, website: <http://www.vacuum.org/call/cfp.html>.

Visit the Pittsburgh web site
<http://www.pittsburgh.net/visiting/visiting.html>

