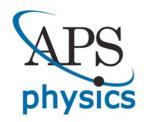


Special Publications Dept.

What we do...

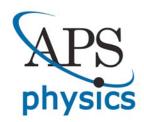


The Special Publications Department provides in-house graphic design, promotional and marketing services for APS. Our creative services are also used by the APS units across the country.

Other major design responsibilities of the department includes:

- Unit promotional posters, flyers and newsletters
- Promotional packets for the March and April meetings
- APS News and Capitol Hill Quarterly newspapers
- APS annual calendar and APS Annual Report
- Icons for APS-related web sites (aps.org; physicscentral.com; etc.)
- Handling the unit officers (paper) elections
- Overseeing the mailing services of the designed projects
- The staff has had opportunities to draw illustrations for APS projects

Special Publications Department



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APS NEWS

December 2006 Volume 15, No. 11

APS www.aps.org/publications/apsnews

This Month in Physics History: Ben Franklin attempts to electrocute a turkey.

Mile-High City Will Host 2007 March Meeting

will be held March 5-9 in Denver, Colorado. It is the largest annual gathering of professional physicists in information as well as the forums on

more than 90 invited sessions and 550 contributed sessions, at which uate student affairs. approximately 7000 papers will be in areas represented by the APS divisions of condensed matter physics, materials physics, polymer physics, ical physics, biological physics, fluid dynamics. Jaser science, computational physics, and atomic, molecular and optical physics.

Also taking part will be the APS

industrial and applied physics, physics The scientific program will feature and society, history of physics, international physics, education, and grad-

Special scheduled events include sented, covering the latest research the annual prize and award presentation, a one-day workshop on professional skills development for women physicists, a panel discusdents lunch with the experts, a physics. sing along, and a high school physics teachers' day on Tuesday, March 6.

In addition to the regular technitopical groups on instrument and cal program, on Sunday, March 4, measurement science, magnetism there will be seven half-day tutorials

The 2007 APS March Meeting and its applications, shock compresson magnetism at the nanoscale, teachsion of condensed matter, statistical ing statistical and thermal physics and nonlinear physics, and quantum with computer-based tutorials, quantum error correction, spintronics, quantum turbulence, graphene, and

The 4th APS Workshop on Opportunities in Biological Physics. organized by the Division of Biological Physics, will be held on Sunday, March 4.

On Saturday, March 3 and Sunday, March 4, the Division of Polymer Physics will host a special shor course on Advances in the Use of Atomic Force Microscopy for Studies of the Physics of Macromolecular





New Management Tackles Difficult Problems at Los Alamos

Ry Fruie Tretkoff

Several months after new man agement took over at Los Alamos as the new contractor LANS, a col-National Laboratory, the lab continlaboration of the University of ues to struggle with security and Technologies, and Washington budget problems and low employ-Until last year, the lab had been

managed by the University of California. Following a series of security and safety problems that led over in June. to a total shutdown of the lab, the

Group International heat out the University of Texas/Lockheed Martin collaboration for the contract. The new management took the lab, as well as hard copies of The new director, nuclear physi-

agement contract out to bid. Last LANL from Lawrence Livermore LOS ALAMOS continued on page 5

December the DOE selected Los National Laboratory where he had Alamos National Security (LANS) been the director since 2002. In a recent security incident, clas-

sified data were found in the home California, Bechtel National, BWX of a former subcontractor during a drug raid by local police. In addi tion to drug paraphernalia, police found computer memory sticks containing classified documents from classified documents. The docu ments had apparently been taker cist Michael Anastasio, came to from the lab by a woman who had

Council Passes Statements on Linear Collider, Careers in Physics

new statements at its November meeting, one in support of the proposed International Linear Collider, and the other an updated statement on careers in physics.

the National Academy of Sciences report Revealing the Hidden Nature Physics (commonly known as News Back Page, July 2006 (both

says, in part, that "within the frame- successful international collaborawork of a balanced national program in the physical sciences that recog- the American Physical Society, connizes the need for advancing the frontiers in both large and small sci- EPP2010: The statement on the collider cited ence, the American Physical Society the findings and recommendations in strongly endorses the chief recommendation of EPP2010:

"The United States should remain globally competitive in elementary Course for Elementary Particle particle physics by playing a leading role in the worldwide effort to EPP2010), released last spring [see aggressively study Terascale and development (recommended in

The statement continues: "To

The APS Council approved two available online). The statement achieve that end in the context of tions on large scientific facilities. sistent with the recommendations in

> through the Department of Energy and the National Science Foundation and Congress, acting through the authorization and appropriations committees, to provide the American share of the 'risk capital' for research the National Academy report) lead-See COUNCIL on page 3



two in the non-PhD category, and one in the PhD category

Apker Award Honors Three Undergrads

On the left is Hugh Churchill of Oberlin College, whose senior thesis, done der the supervision of Stephen Fitzgeraid, was on "Low-temperature infrared ectroscopy of ${\rm H_2}$ in solid ${\rm C_{80}}^{\circ}$. He is now a graduate student at Harvard. In middle is Huanqian Loh of MIT, who, working with James K. Thompson ing abroad on a Watson Fellowship, she will begin graduate school at UC Berkeley in the fall of 2007.

APS Kicks Off Campaign to Support **Education and Outreach Initiatives**

aign may have been close to its end, but on November 3 another important campaign was just research talks, with members joinbeginning: the APS 21st Century Campaign celebrated its kickoff at a special event on the evening before the November 4 Executive Board meeting. APS President ate physics majors. John Hopfield led the program, which included the announcement of a \$3.5 million goal and approximately \$1.8 million having been ings. raised to date. The campaign seeks corporate, foundation and individal gifts. APS programs benefiting

from campaign funding include: Education Coalition)-seeks to prophysics and physical science

· High School Teachers' Days -special events at APS meetings that offer hands-on workshops and ing the teachers for lunch.

. Minority Scholarshin Program -awards scholarships and provides mentors to undergradu-

· Student Travel Grants-provides physics students with an opportunity to attend APS meet-

· Women and Minority Speakers Program-women and nority speakers volunteer to give talks at high schools, colleges and

· Career and Professional uce more and better prepared Development Liaison Programworks with physics departments CAMPAIGN continued on page 5



Speakers at the Campaign kickoff celebrate the success to date. From left to ight are: Brian Schwartz of the City University of New York: APS Executive Officer Judy Franz: APS President John Hopfield: APS Director of Educatio and Diversity Ted Hodann: and Noah Finkelstein of the University of orado. Schwartz is a former APS Director of Education, and Fir one of the leaders of the PhysTEC program at UC Boulder (see APS News, March 2006, and APS News Back Page, January 2006).



APS Capitol Hill Quarterly

Energy Efficiency Crucial to Achieving Energy Security and Reducing Global Warming, States Leading Physicists Report

American Physical Society Report Says Recovery of Lost Energy From Inefficiencies Is America's Hidden Energy Reserve for 21st Century

Tapping wasted energy from sinesses is equivalent to discovits energy security and reduce glob- map with short-term and longeral warming, an American Physical Society (APS) study panel con- through cost-effective efficiencies cluded in a major report.

The report, Energy Future: Think Efficiency, states that the key to unlocking the efficiency potential is developing policies that will out technology into the marketplace and developing new technologies through applied and basic research buildings by 2020. in the public and private sectors.

The study panel concluded that ncreased energy efficiency, particularly in the transportation and uilding sectors, will help eliminate U.S. reliance on foreign oil and reduce greenhouse gas emissions that contribute to global warming.

APS report offers a practical roadterm solutions for reducing demand that find public and political accep-

2030 and the elimination of energy

It also states that the federal The report credits automakers for

Most recommendations ad- devoting resources to the develinefficient automobiles, homes and dressing high fuel costs focus on opment of hydrogen fuel cell and either increasing the supply of oil plug-in hybrid vehicles, but conering a hidden energy reserve that or finding a substitute fuel, but the cludes that they are not a solution to the nation's short-term energy

> miles per gallon mileage for cars and other light-duty vehicles by from fossil fuels in new residential

government should broaden its research, development and demonstration programs, particularly in the areas of batteries for conver tional hybrid vehicles, plug-in hybrids and battery electric vehicles.

ENERGY = FUTURE

needs because they require significant scientific and engineering breakthroughs in several critical and director emeritus of the Stan-

Capitol Hill, honoring the newest

physicist to enter Congress, Rep-

resentative Bill Foster (D-IL 14th)

Representative Foster, a physicis

formerly with Fermilab and an APS

Fellow, won a special election in

March to fill the seat vacated by for-

Foster (left) joins two other congres-

sional physicists, Representative

Vernon J. Ehlers (R-MI 3rd) (mid-

mer Speaker Dennis Hastert.

The study also calls on Con-"Both Sens. McCain and Obama have outlined plans for improving gress and the White House to increase spending on research and energy efficiency and the importan building technologies, training sci- our energy future. The next leader entists who work on building technologies and supporting associated opportunity to be the first in history national laboratory, university and to lay the necessary groundwork to private-sector research programs reduce energy use among Ameri-Additionally, it recommends that

Among its other key findings address a wide-array of market and recommendations based on the barriers that discourage consumers 12-month study are:

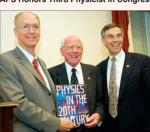
Transportation

•The federal government especially in the highly fragmented should adopt new standards for light-duty vehicles that average 50 miles per gallon leadership from the Congress and or more by 2030.

·Vehicle weight can be significantly reduced through

REPORT continued on page 3

APS Honors Third Physicist in Congress



dle) and Representative Rush Holt (D-NJ 12th) (right), in the House of Representatives. The reception was attended by over 100 scientists and

invited guests

Basic Research Funding in the FY '09 Continuing Resolution Critical to Solving Energy Crisis

er into their pockets to fill up at the pump, fretting about paying for home heating oil and worry-gram responded to the U.S. ening about the devastating effects of global warming. With a Continuing Resolution Bill for Fis- on solar, hydrogen and nuclear cal Year 2009 looming this fall, Congress must not allow energy research funding to languish a so will set our nation further back on a course toward energy independence.

On the Back Page



Last year the U.S. Department of Energy's (DOE) Basic ergy crisis that has gripped the nation with proposals focused

News Analysis

Fiscal Year 2008 levels. To do research. But funding that had ergy problem, and now I won't been promised for the proposals ing the plans on a shelf to col-

> their jobs; grants and fellowships were cut; and facilities operations were scaled back at ational laboratories. The nation's \$160 million contribution

also cut from the budget, damaging America's reputation as a reliable partner for the international fusion energy project.

"I was very excited about doing something to contribute to research that had the possibility of helping with the enwork on that problem," said Jim did not materialize in the Fiscal Freericks, a physics professor Year 2008 Omnibus bill, leav- at Georgetown University, who submitted a proposal to BES to research converting solar ener-Additionally, scientists lost gy into electricity using thermo-

electric materials. Sustainable solutions to our nation's energy woes are withmust be willing to make the ruction of the In- FUNDING continued on page 3

PhysTEC Prepares Future Physics Teachers

Eight years ago, three national physics organizations jointly launched the Physics Teacher Education Coalition (PhysTEC) to help U.S. universities prepare more highly qualified physics teachers and alleviate the nation's critical

lawmakers develop policies that

from adopting investment in ener-

ev-efficient efficient technologies.

"The American people need

the next president on this issue

said Nobel Laureate Burton Rich-

ter, chair of the study committee

building sector.

physics teacher shortages. PhysTEC is a partnership among the American Physical So ciety (APS), the American Association of Physics Teachers (AAPT), and the American Institute of Physics (AIP). Institutions particip in PhysTEC improve their teacher ing future teachers, hiring full-time master teachers from local schools to work with pre-service teachers. developing high-quality courses and early teaching experiences, and mentoring program graduates. The National Science Foundation

(NSF) and APS fund the project. Faculty members at PhysTEC institutions said the project has been instrumental in helping them jump-start their teacher preparation

"PhysTEC has helped us place 20 teachers in Arkansas classrooms over the past six years," said Gay Stewart, a physics professor at the University of Arkansas. "Before the project began, we had graduated one physics teachers in a de cade, and now we're graduating five or more teachers every year.

PhysTEC began with six universities and has expanded to a total of 14 sites, which are chosen through a peer-reviewed solicita tion that considers the applicant's potential to increase the number of teach-

ers who graduate and develop programs that serve as national models. Evidence of physics and education on. In 2006, the project received 45 proposals for four available slots.

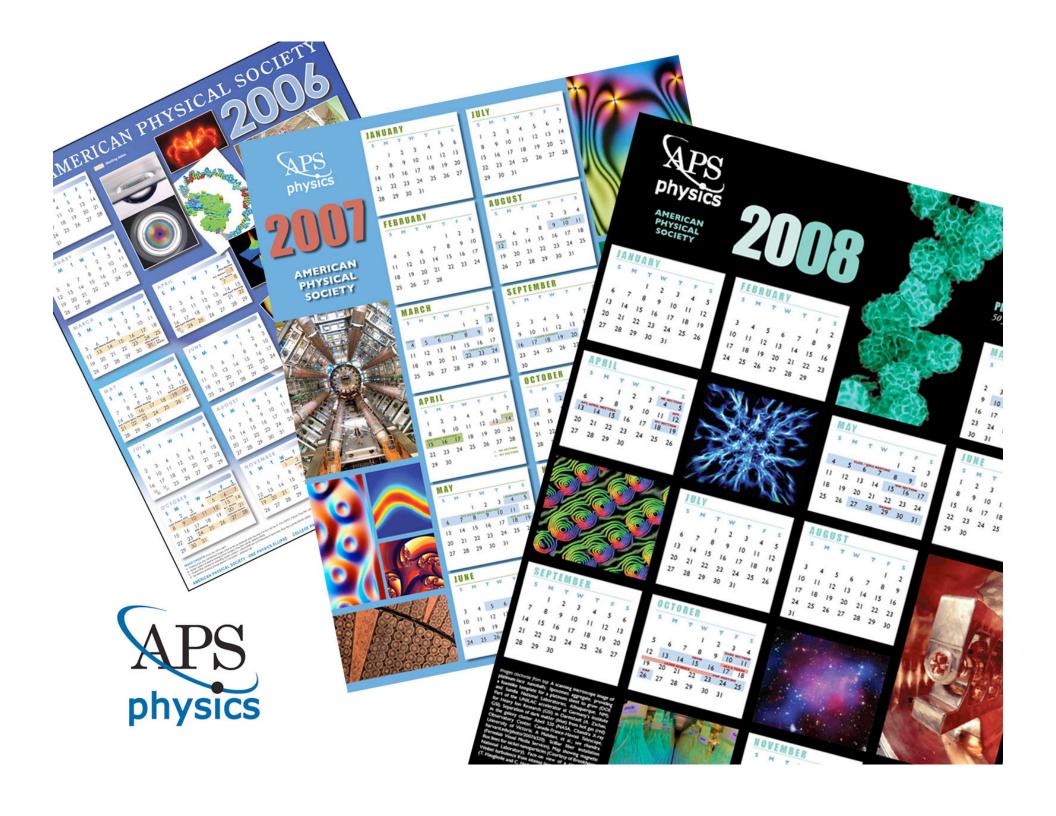
"The physics community is clearly showing broad interest in teacher preparation," said Ted Hodapp, director of education and

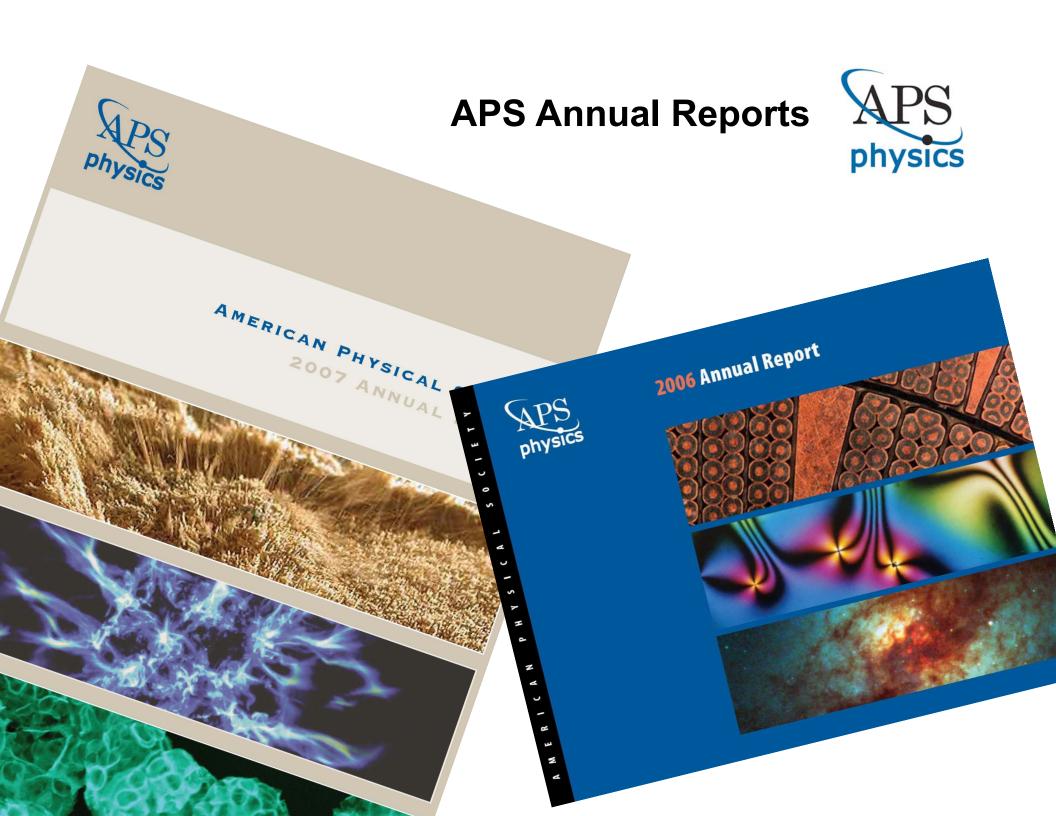
diversity for APS. "If there were funding for 10 times as many institutions to replicate PhysTEC's efforts, major progress could be made toward putting highly qualified teachers in very one of our country's physic classrooms. With today's highly competitive technical workplace the need for physics teachers has

PhysTEC institutions now graduate about three times as many cer tified physics teachers per year as they did before the project's inception, which represents an average increase of about 30 percent per year. By comparison, data from 10 state certification offices show only about a 3 percent increase per year despite federal No Child Left Be hind legislation requiring schools

to hire certified teachers. PHYSTEC continued on page 3

Capitol Hill Quarterly is a publication of the American Physical Society, www.aps.org. APS is a non-partisan, professional society of physicists with more than 46,000 members.





Unit Newsletters



FALL 2006



A Division of the American Physical Society

RECIPIENTS OF PRIZES AND AWARDS

Each year the APS Division of Fluid Dynamics recognizes outstanding individuals with several awards: the Fluid Dynamics Prize, The François Frenkiel Award, and the Andreas Acrivos Dissertation Award.

2006 FLUID DYNAMICS PRIZE

1 Recipients of Prizes and Awards

3 Prize, Award, and Fel-4 DFD Elections 59th

lowship Nominations for

IN THIS ISSUE

5 Upcoming DFD Meetings

6 Otto Laporte Lecture

7 Previous Recipients

7 Some Upcoming Meetings 8 Guidelines for Minisymposia at the

APS/DFD Annual 8 APS/DFD 2006

Leadership and Contact

Tom Lundgren of the University of Minnesota is the recipient of the 2006 Fluid Dynamics Prize, which is awarded for outstanding contributions to fundamental fluid dynamics research. The citation reads: "For his insightful and outstanding theoretical contributions to numerous areas of fluid mechanics, most notably in the fields of turbulence and vortex dynamics." Professor Lundgren will present the 2006 Otto Laporte Lecture at the 2006 Division of Fluid Dynamics Meeting in Tampa,

The Fluid Dynamics Prize was established in 1979 with support from the Office of Naval Research. In 2004 the Executive Committee of the Division voted to combine the Otto Laporte Award with the Fluid Dynamics Prize so that the Division of Fluid Dynamics would have a single major prize -- the Fluid Dynamics Prize. The prize was endowed by the Division of Fluid Dynamics, friends of Otto Laporte and the American Institute of Physics journal: Physics of Fluids.

The lecture given by the Fluid Dynamics Prize recipient is called the Otto Laporte Lecture. Prior to 2004, the Otto Laporte lecture and the Fluid Dynamics Prize were distinct awards. A list of the Otto Laporte Award recipients and lecturers, and a list of Fluid Dynamics Prize recipients are given later in this Newsletter.

2006 FRANCOIS FRENKIEL

J. Skotheim and L. Mahadevan are the recipients of the 2006 François Frenkiel Award, which recognizes significant contributions to fluid mechanics that have been published in Physics of Fluids during the preceding year by young investigators. The award paper is titled: "Soft lubrication: the elastohydrodynamics of conforming and non-conforming contacts." [Phys Fluids 17, 092101 (2005)]. The citation reads: For a thorough study of lubrication between soft surfaces, asking the question of optimal geometry and materials to maximize

2006 ANDREAS ACRIVOS DISSERTATION AWARD

Eric Lauga, of MIT is the recipient of the 2006 Andreas Acrivos Dissertation Award for his thesis entitled "Slip, Swim, Mix, Pack: Fluid Mechanics at the Micron Scale." The award recognizes an exceptional young scientist for original, outstanding doctoral thesis work in fluid dynamics done in the United States. Dr. Lauga completed his doctoral thesis work at Harvard University under the direction of Michael Brenner and Howard Stone.

2006 APS/DFD FELLOWS

The Fellowship Committee of DFD is pleased to announce the election of the following APS

Sivaramakrishnan Balachandar, UIUC Roger Bonnecaze, UT, Austin Garry Brown, Princeton Tom Corke, Notre Dame Ed Law Princeton Jacques Magnaudet, IMF Toulouse, France Bernard Matkowsky, Northwestern Godfrey Mungal, Stanford

Vol. 27, No. 1

Gazette

The Newsletter of the Committee on the Status of Women in Physics of the American Physical Society

Guest Editorial

Balancing Career and Family: Suggestions

> Take a Studen to Lunch!

Special Events Women in Physics

Non-traditional Careers

MGM Award

25 Women Named APS Fellows

Careers Corner

Ask the Physics Mentor

Katherine Weimer Award 12

Thank you Nina Byers!

Rlewett Scholarshin

Forms 15-19

GUEST EDITORIAL: When Life Intervenes, One University Steps Up to Help

By Bernice Durand, University of Wisconsin-Madison



Bernice Durand

he's making good progress toward tenure Wham! Her young child is diagnosed with cancer. The child's oncologist says the prognosis is good with immediate and repeated chemotherapy. Her big grant renewal proposal is due in

He's enjoying mid-career national prominence. Wham! He has a heart at-

tack. His cardiologist says he needs bypass surgery - soon! His big grant renewal proposal is due in two months. A lot of people's livelihoods and careers depend on those grants

Health and family crises are often career crises, and they can be ruinous. Overnight your career can be in serious jeopardy. Although men and women experience these kinds of events, for women they may tend to occur earlier in the career (e.g., prior to the tenure

decision) when it is more difficult to recover from a setback. At the University of Wisconsin-Madison (UW-Madison), we are privileged to have Vilas Life Cycle Professorships, as a safety net against such crises (1). These grants, limited to \$30,000 (not to be used for the salary of the recipient), are available to UW-Madison tenure-track and tenured faculty and permanent principle investigators (PI's), regardless of discipline or gender, who "are at critical junctures in their professional careers and whose research productivity has been directly affected by personal life events (e.g., illness of a dependent, parent, spouse/partner, or oneself, complications from childbirth; combination of major life events)" (1).

Where did the Life Cycle grants come from? From 2002 to 2006, we had one of the first NSF five-year ADVANCE Institutional Transformation grants (2). The grant was named WISELI (3), for Women in Science and Engineering Leadership Institute. The two PI's and Co-Directors were Molly Carnes (4) and Jo

continued on page 10

Balancing Career and Family: Suggestions

By Andrea Liu, University of Pennsylvania

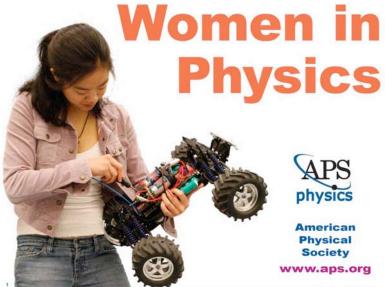
At the 2007 APS March Meeting, CSWP spon-sored a panel discussion on the topic, "Women in academic science: balancing career and family." The panel members were Susan Coppersmith (University of Wisconsin, Madison), Marija Drndic (University of Pennsylvania), Ka Yee Lee (University of Chicago), Nadya Mason (University of Illinois, Urbana-Champaign), and Katharina Vollmayr-Lee (Bucknell College). The panel was chaired by Andrea Liu (University

The challenge of balancing career with family is listed by many women as the primary reason for leaving academic science. The panel discussion had three aims. One aim was to provide the audience with an "existence proof" by gathering several women faculty

members who have young children as well as highly successful scientific careers. The second aim was to collect practical strategies for balancing career and family from the panelists. The final aim was to compile a list of recommendations for departments, academic institutions, funding agencies and professional societies. Several female graduate students in the audience commented that they came from departments with no women faculty and that it was inspiring merely to see the panelists gathered together as a group.

Each panelist presented a list of recommendations that she felt would make a real and immediate difference to women academic scientists. As several panelists pointed out, many of the recommendations

continued on page 2





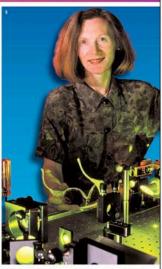
American **Physical** Society

www.aps.org



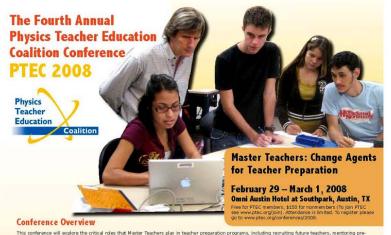






University, thereking the alignment of a detector. I Nadya Mason employs a distance religiorator to measure electron transport in samples at temperatures as low as 10 mK. Is Margaret Names has invented new controlled events to date — Isating only a milliorith of a second. She and her students use these fast bursts of light to generate laser light beams of x-rays, which spen up new windows into the narrow

American Physical Society - One Physics Ellipse - College Park, MD 20740



This conference will explore the critical roles that Master Teachers play in teacher preparation programs, including recruiting future teachers, mentoring preservice and in-service teachers, co-teaching courses, and building bridges with local school districts. Conference sessions will also focus on the use of assessment in teacher preparation, including focus such as evaluation of teacher quality, implementation and interpretation of conceptual exams, and uses of formative assessment. The conference program features seven sessions of four concurrent 90-limiture work health will actively engage participants in order to model an effective learning environment. The program includes considerable time to enable participants and presentants to network and share ideas informally.

- (University of Towas at Austral)

 Learning Assistants (LAS): Re-imagining TA's as future pre-college physics

 teachers: Laner Seeley, Hunter Clore (Seattle Pacific University)

 **The Student-Contresed Activities of Large Remolines for Large Remol
- Assessing coherent student understanding in introductory physics courses
 Priscilla Laws (Dickinson College)
- Making the case: the role of data in supporting educational innovations. Steven Pollock, Noah Finkelstein (University of Colorado at Boulder)

Plenary Speakers

. Tom Luce, Chief Executive Officer of the National Math and Science Teacher Initiative to replicate the UTeach program, former U.S. Assistant Secretary of Education for Planning, Evaluation and Policy Development

There is a contributed poster session. The deadline for title and abstract is February 13.

Pre- and Post-Conference Workshops

UTeach Curriculum and Courses

Thursday, February 28, 11:00 a.m. to 4:00 p.m.

Uteach is the program to prepare secondary mathematics and science teachers at the model of the program of the

Interactions in Physical Science

Robert Poel, Western Michigan University

Sunday, March 2, 8:00 a.m. to 3:00 p.m. Interactions is a NSF supported, standards-based, guided inquiry physical science cur-nculum that was build not nesearch on the standing and learning of science. In workshop, particularly standing and science, in the workshop, particularly standing standing and science in the workshop particularly experience several activities, and work through party of the accompanying professional development activities, and support dough grant yet the middle-school learning standing science and science and

- The development of UTeach by Master Teachers. Mary Walker, Lynn Kirby
 (University of Texas at Austin)
 How do you know if they're getting it: Writing assessment items that reveal student understanding. Sean Smith (Horizon Research)

 - Are you really teaching if no one is learning? How interactive lecturing can be used to measure and improve student learning. Ed Prather (University of Arizona)

Julie Luft, Professor of Science Education, Arizona State University-Tempe, Principal Investigator on Exploring the Development of Beginning Second-ary Science Teachers in Various Induction Programs, former Associate Ed-tor of the Journal of Research in Science Teaching

About PTEC

The Physics Teacher Education Coalition (PTEC) is a national network of institutions committed to improving the education of future physics and physical science teachers. The Coalition has nearly 90 members and organizes ers. The Coaltion has nearly 00 members and organizes an annual national conference, topical and regional worst-choise, and an orifine collection of resources for beacher and the conference of the conference

For more information about PTEC 2008, please visit the conference website: www.ptec.org/conferences/2008 or contact:

> Gabe Popkin (301) 209-3251 popkin@aps.org

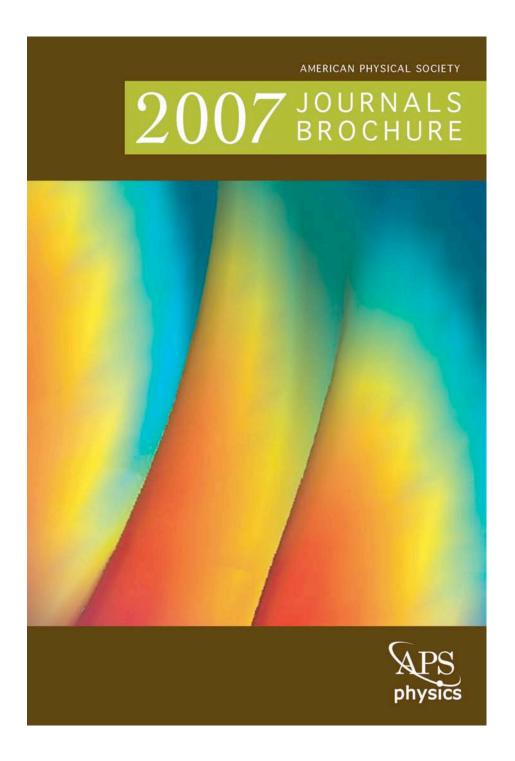


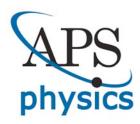












POLYMERIC & ORGANIC MATERIALS COMPLEX STRUCTURED MATERIALS ARTIFICIALLY STRUCTURED MATERIALS SURFACE, INTERFACES & THIN FILMS

> PHYSICS & SOCIETY CHEMICAL PHYSICS BIOLOGICAL PHYSICS

HISTORY & PHYSICS

METALS

FLUIDS

EDUCATION

INSULATORS & DIELECTRICS

COMPUTATIONAL PHYSICS

SUPERCONDUCTIVITY

ATOMIC & MOLECULAR PHYSICS

INTERNATIONAL PHYSICS

INSTRUMENTATION & MEASUREMENT STATISTICAL & NONLINEAR PHYSICS

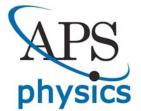
INDUSTRIAL & APPLIED PHYSICS PHASE TRANSITIONS &

STRONGLY CORRELATED SYSTEMS QUANTUM INFORMATION, **CONCEPTS & COMPUTATION**

ABSTRACT DEADLINE: NOVEMBER 27, 2007

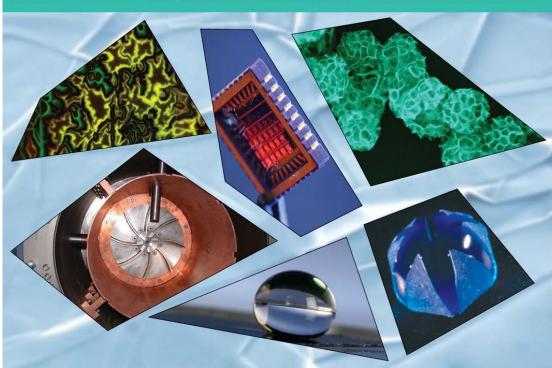






EETING

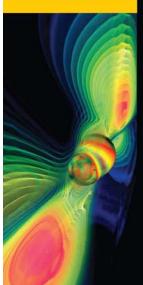
MARCH 10-14 NEW ORLEANS CONVENTION CENTER WWW.APS.ORG/MEET/MARO8

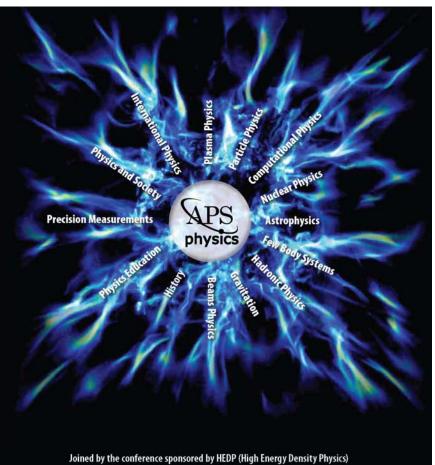


April Meeting

AMERICAN PHYSICAL SOCIETY

APRIL 12-15, 2008 ST. LOUIS, MISSOURI





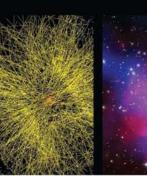
Joined by the conference sponsored by HEDP (High Energy Density Physics) and HEDLA (High Energy Density Laboratory Astrophysics).

The program will include plenary and invited sessions, oral and poster presentations.

www.aps.org/meet/APR08

Abstract Deadline: January 11, 2008

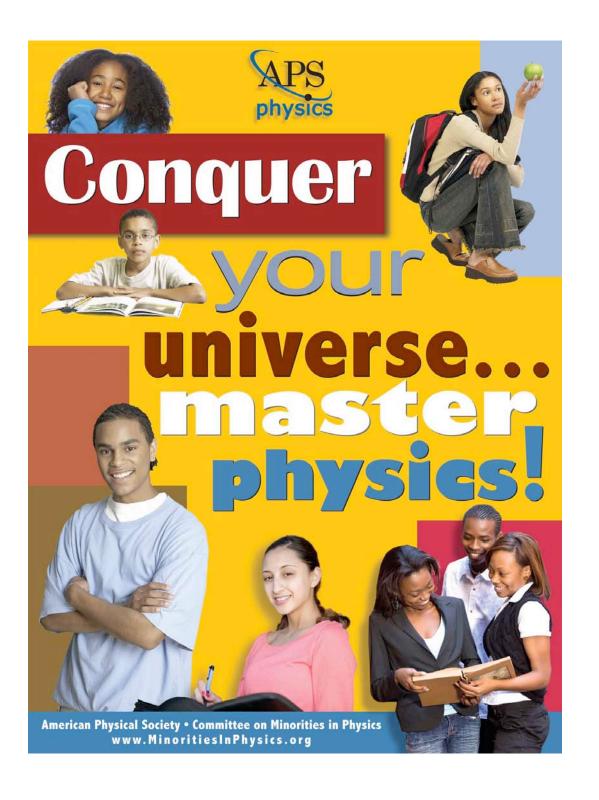




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Notatia Res. Chair - 1281.
Steve Salan - Statford Ubercuity
May Tim Chair - Goals - 1881
Steve Salan - Statford Ubercuity
May Tim Chair - Georgia India
Richard Casten - Vide Ubercuity
Berick Super - Formida
Steve Holmes - Formida
Mantana Bhattacharjae - Ubercuity of Heer Hampshie
Wagner Polyano - Habercuity of Jone
Eric Hossels - Vind Ubercuity
Gunt Saland Ubercuity
Gunt Saland - Habercuity of Jone
Sarand Gundy - Habercuity
Sarand Gundy - Habercuit







Energy Future: Think Efficiency Report







American Physical Society

One Physics Ellipse College Park, MD 20740-3844 www.aps.org

Arlene F. Modeste Knowles Outreach Programs Administrator Education and Diversity

phone: (301) 209-3232 (301) 209-0865 Eamil: knowles@aps.org Date here

Address line 2 Address line 2 City, State/Province and Postal Code Address line 2 Email address.com

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Sincerely,

Signature



Arlene F. Modeste Knowles

Outreach Programs Administrator Education and Outreach Department

> Email: knowles@aps.org Phone: (301) 209-3232 Fax: (301) 209-0865

www.aps.org

AMERICAN PHYSICAL SOCIETY

One Physics Ellipse . College Park, MD 20740-3844

Thank you note to APS members for their donations



Help the Outreach Programs of the APS with Your Annual Voluntary Contribution

APS outreach programs benefit from the annual voluntary contributions included with Dear APS Member: membership renewals. These contributions are important, as your membership dues only cover the cost of member services, and the Society's publications and meetings are budgeted to pay for themselves. Therefore, in order for the Society to continue to support and expand our programs in the areas of science education, international cooperation, and science policy and public information, we must rely to part on the generosity of our members. Examples of activities that benefit from your support are:

- PhysTEC Program seeks to expand the pool of wetl-educated K-12 physics teachers.
- High School Teachers' Days offers professional development for high school teachers through research talks, hands-on workshops, and the opportunity to interact with leading
- Physics Central Website brings the excitement and importance of physics to the public at large through in-depth stories, profiles of physicists, artistic visuals and educational
- Minority Scholarship Program seeks to increase the number of historically under-represented minorities in physics through financial and mentor support.
- Women & Minority Speakers Programs provides opportunities for physicists to visit high school and universities to serve as role models to students.
- International Collaborations fosters scientific dialog and exchanges in addition to activities on behalf of human rights and freedom of physicists worldwide.
- Public Affairs Fellowship Programs promotes public understanding and appreciation of science on Capital Hill and with the public at large.

Please consider providing a voluntary contribution in addition to your dues payment. Gifts can be designated to select program areas or unrestricted to benefit the programs of greatest need. We are very appreciative of gifts of all sizes and are pleased to provide special recognition for gifts of \$100 or more, with your permission, by including your name in the APS Annual Report.

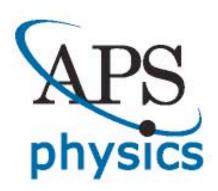
Thank you in advance for your positive consideration of this request. Your support will help ensure the success of the Society's education and outreach efforts into the future.

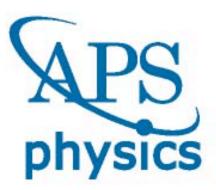
APS Treasurer

For more information, please feel free to contact our Development Office: Darlene Logan, Director of Development, 301-209-3224, logan@aps.org



Various logo designs







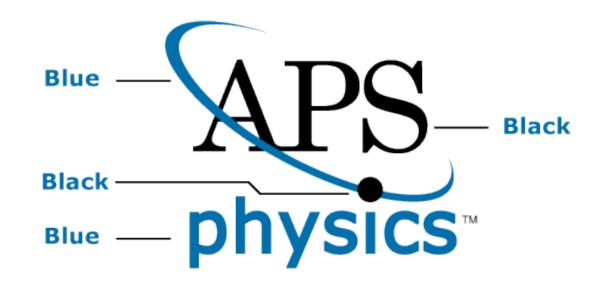


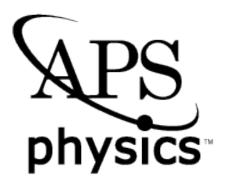


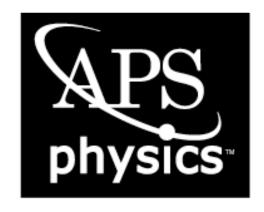


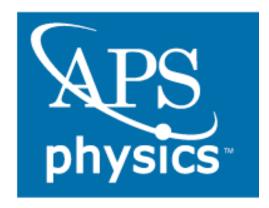


Proper presentation of APS logo







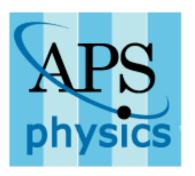


APS preferred typeface: New Century Schoolbook Alternative typeface: Times New Roman

Unacceptable presentations of the logo

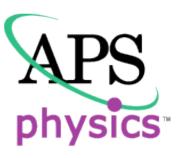
Different colors or backgrounds







Incorporated with other text

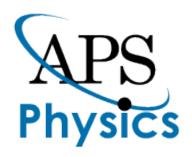


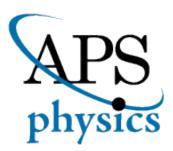






Capitalized "P" or wrong font

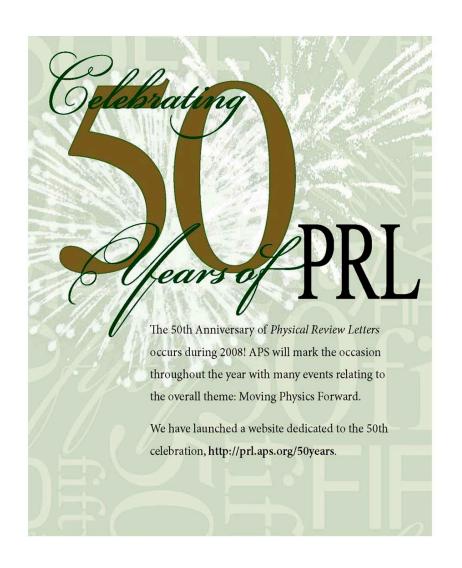


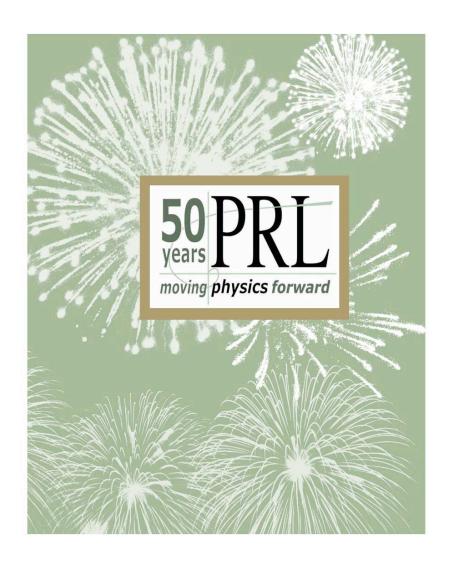


Without the "APS" acronym or word "physics"

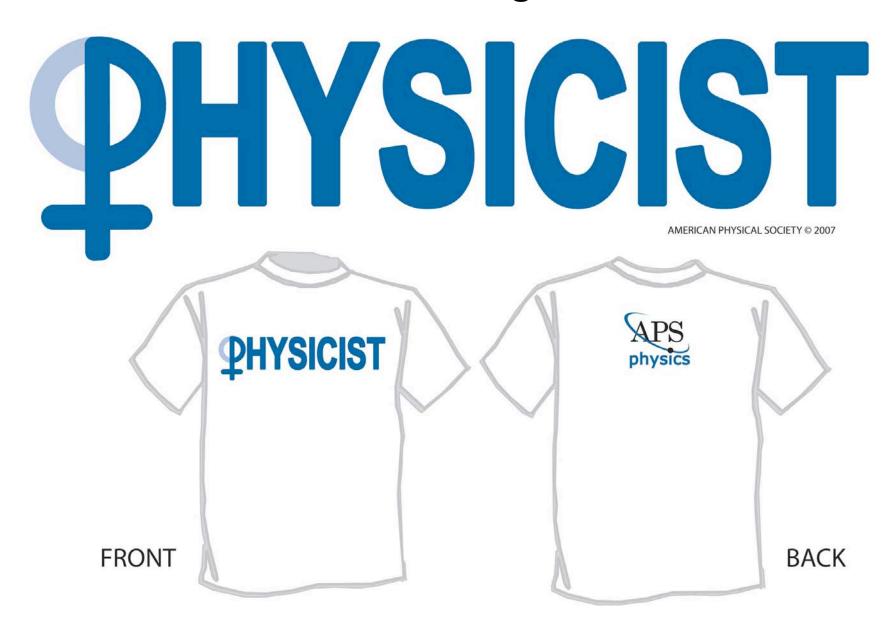


Promotional pieces Celebrating 50 Years of PRL

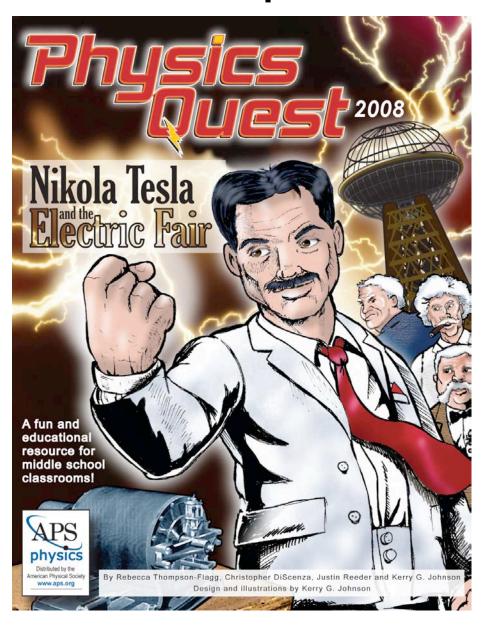




T-shirt designs

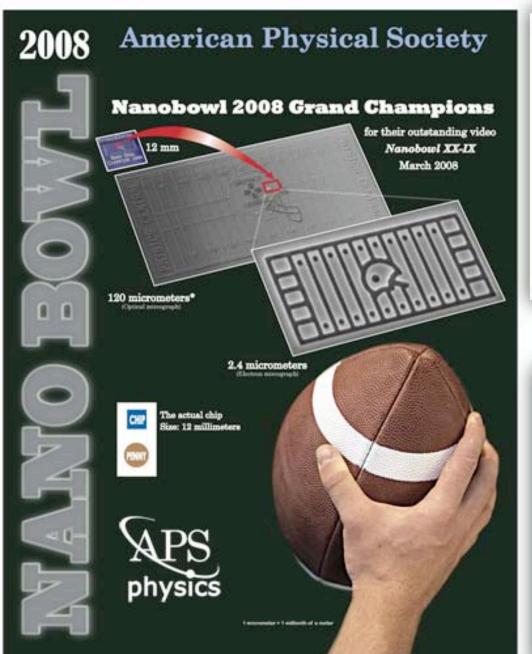


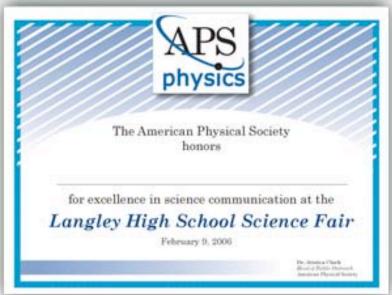
Outreach department

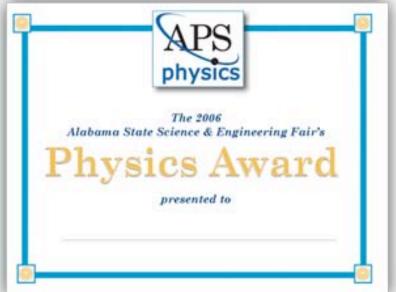


3-feet by 12-feet vinyl banner

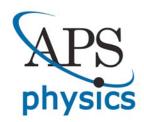








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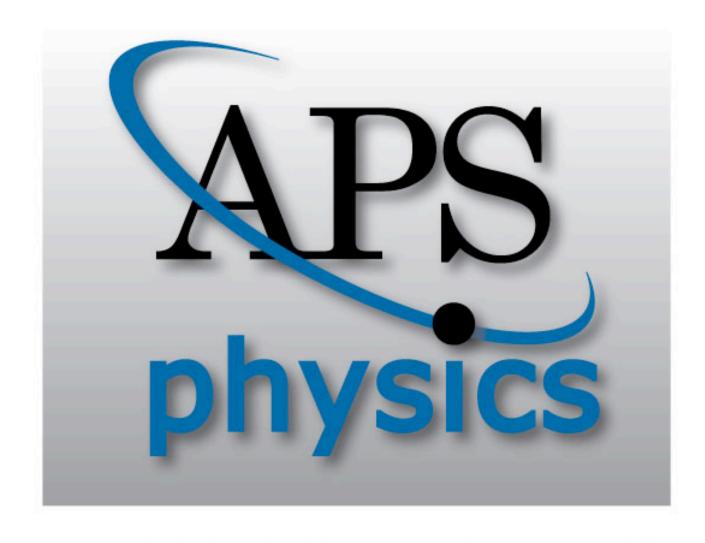
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