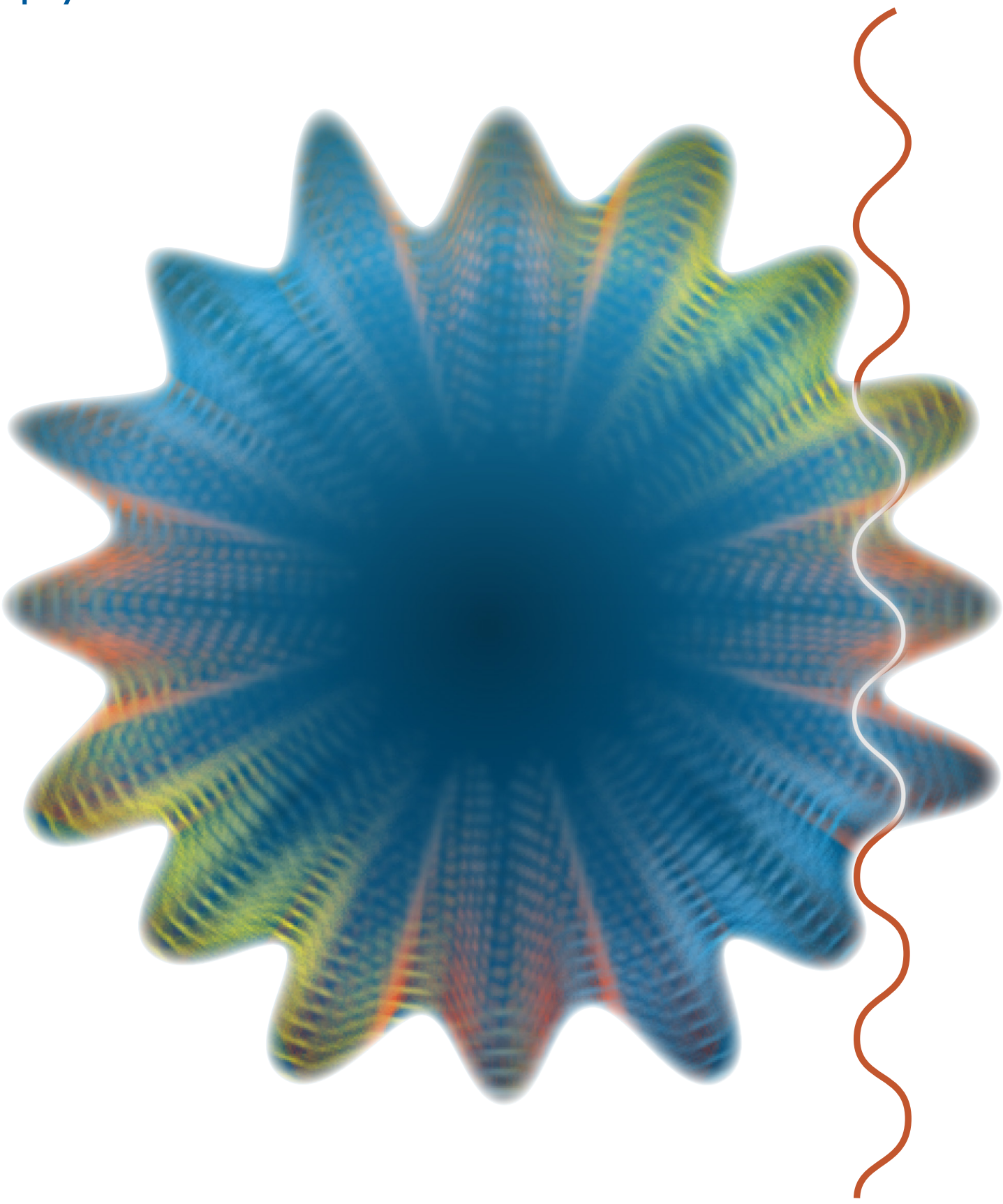
APS physics

AMERICAN PHYSICAL SOCIETY



2013 ANNUAL REPORT

THE AMERICAN PHYSICAL SOCIETY STRIVES TO

Be the leading voice for physics and an authoritative source of physics information for the advancement of physics and the benefit of humanity

Collaborate with national scientific societies for the advancement of science, science education, and the science community

Cooperate with international physics societies to promote physics, to support physicists worldwide, and to foster international collaboration

Have an active, engaged, and diverse membership, and support the activities of its units and members

APS physics™

Cover image: Sine waves. Illustration by Alan Stonebraker.

FROM THE PRESIDENT

This was a good year for physics, the APS, and its members. The Higgs continued to grab headlines, with the awarding of the Nobel Prize to François Englert and Peter Higgs. Their award-winning papers on the Higgs mechanism were published in *Physical Review Letters* (where else?). The DPF organized a "Higgs Fest" on Capitol Hill, attended by 10 members of Congress and several hundred others, to celebrate the Higgs and the U.S. role in discovering it.

In this, the hundredth year of our publishing the *Physical Review*, the APS prepared to add a new journal to the family—*Physical Review Applied*. Our newest journal will publish the highest-quality papers at the intersection of physics and engineering, in areas including materials, surface and interface science; device physics; condensed matter physics and optics.

2013 was a big year for APS global engagement. We had our first overseas Fellows receptions—in London and Tokyo—and the Executive Board held its annual retreat abroad, at the Kavli Royal Society International Centre at Chicheley Hall, just outside London. At the retreat, the Executive Board spent time discussing areas for future collaboration with leaders of the IOP, the DFG, and the EPS.

Close to 20,000 physicists attended APS meetings this year, with the March Meeting attendance topping 9,000. The March Kavli Session featured a talk by Secretary of Energy (and APS member!) Steven Chu on the Promise of Photovoltaics. As President, I had the pleasure of presenting APS Prizes and Awards at the April and March meetings as well as at the DPP meeting in November.

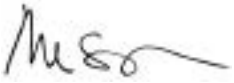
In a year in which Congress achieved very little else, our Washington D.C. Office and APS-member phone calls helped get the Helium Bill—which ensures continuity in the helium supply for researchers, hospital MRI machines, and the semiconductor industry alike—passed. The two-year-budget deal reached in December largely reversed the cuts to science resulting from sequestration and was an important step in the return to "regular order" and a more rational appropriation process.

We are moving forward with our Strategic Plan. The Early Career Task Force led by Brad Conrad reported its recommendations to the Executive Board, and plans are being made for a pilot program of "chapters" (Local Links) to serve early career members. The APS provided infrastructure to the Conferences for Undergraduate Women in Physics (CUWiP). This grassroots effort to encourage more women to study physics has now completed its eighth year, and it has grown to six regional sites within the U.S. that served nearly 900 attendees. The APS welcomed its first Industrial Fellow, Steven Lambert, who will help the APS to attract and better serve members working in industry.

Kate Kirby, our Executive Officer, was appointed to a second five-year term, which begins in July 2014. Joe Serene, our Treasurer/Publisher for the past eight years, will be leaving this post at the end of August 2014. Thanks to his efforts the APS is financially sound and well-placed for the challenges facing scholarly publishing, including Open Access. There are other challenges ahead, including our Corporate Reform initiative and the continuing implementation of our Strategic Plan. I am confident that we will meet them, and I see an even brighter future for the APS.

In closing, it has been an honor and a pleasure to serve as the President of the APS, an organization that does so much for physics and for the nation.

Sincerely yours,



Michael S. Turner
2013 President

APS EDITORIAL OFFICE

Moving up and moving upstairs.

Early in 2013, after 25 years at the helm of *Physical Review Letters* (PRL), Jack Sandweiss indicated his wish to step down. In June, Editor in Chief, Gene Sprouse named Pierre Meystre of the University of Arizona as Jack's successor. Beyond continuing Jack's efforts to reinvigorate PRL's standards, Pierre has undertaken a systematic review of PRL, which was kicked off by engaging a "visiting committee." Among its recommendations is that both authors and referees be required to state explicitly how a paper meets PRL's publication criteria. Also, the committee suggested that PRL take a more active role in helping authors publicize their best research. New initiatives to address these and other issues are already underway.

"Mobile Subscriptions" were introduced in March, enabling readers to access their institutional subscriptions from home, on mobile devices, or while traveling.

In early summer the Executive Board gave approval for a new journal: *Physical Review Applied* (PRApplied). By November, Troy Shinbrot of Rutgers, The State University of New Jersey, was named as its Editor and Julie Kim-Zajonz, formerly of *Physical Review B* (PRB), was selected to be its Managing Editor. A healthy flow of submissions began as soon as the journal opened its doors in early December, and the first published papers are expected in early 2014.

Good news came mid-summer when *Physical Review X* (PRX) received its first Impact Factor: 6.7. Since then the journal's submissions have more than doubled. This small, highly selective, "gold" Open Access journal covering all fields of physics has been in operation since May of 2011.

The 2013 Physics Nobel Prize went to Peter Higgs and François Englert, who were instrumental in developing the theory that helps explain the origin of mass of elementary particles and predicts the existence of the Higgs Boson discovered in 2012. The Laureates' landmark papers appeared in PRL in 1964.

The journals continued to grow and evolve while the expansion of the Editorial Office progressed steadily throughout 2013. Initial occupancy of the new second floor and conference rooms took place in early December. Work started immediately on the first of the two remaining large sections of the building, with project completion expected by early summer 2014.

Avalanche photodiode damaged by a high-power laser beam during a cryptography attack. The dark central spot is a hole blown through the chip [A. Nystad Bugge et al.*, Phys. Rev. Lett.* **112**, *070503 (2014)].*

SCIENTIFIC MEETINGS

The annual March and April meetings in 2013 were very successful, in terms of both program content and attendance.

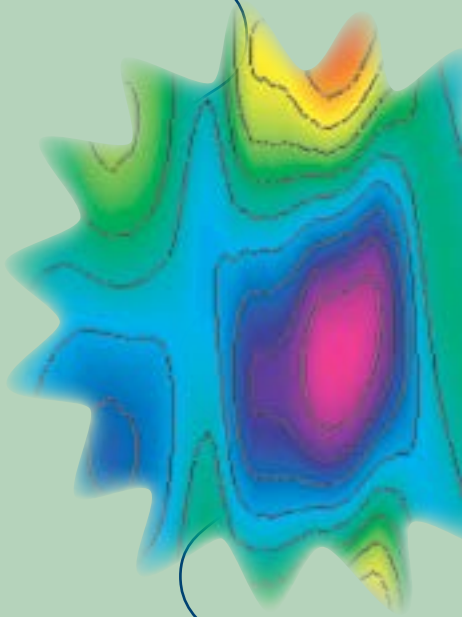
March Meeting: The March Meeting, held in Baltimore, Maryland, attracted 9,223 attendees, including 4,100 students and more than 2,400 international attendees, with more than 8,100 papers being presented in invited, contributed, and poster sessions. More than 950 new members joined during the registration process.

Pre-meeting programs included a Division of Polymer Physics (DPOLY) short course, tutorials, and workshops. Workshops also included professional skills development for women physicists and a career workshop for students. Special sessions during the meeting included the prizes and awards ceremony, an industrial physics forum, the Kavli Foundation Special Session—"Forefront Physics for Real World Problems: Energy, Climate, and the Environment," and a Nobel Prize session. "APS TV" made its debut displaying professional videos of key speakers and March Meeting events, and highlighting university programs (www.websedge.com/videos/aps_tv_2013/).

April Meeting: The April Meeting, held in Denver, Colorado, consisted of approximately 1,000 invited and contributed talks. The April Meeting had 1,310 in attendance, with 366 students and 94 international attendees. Also, 84 attendees signed up as new members.

The April program included a special Kavli Foundation Plenary Session, "Frontiers of Physics, From the Lab to the Cosmos." A special evening session focused on the Application of Physics to Biological and Social Structures, and workshops included a professional skills development workshop and a graduate student career panel.

Unit Meetings: APS units sponsored many other scientific meetings, including meetings of the divisions of Nuclear Physics (DNP), Atomic, Molecular and Optical Physics (DAMOP), Fluid Dynamics (DFD), and Plasma Physics (DPP), as well as a number of meetings sponsored by Topical Groups and Sections.



PRIZES, AWARDS, FELLOWSHIPS

The Society presented prizes and awards to numerous individuals and elected a new group of APS Fellows.

At the March Meeting, the Society presented 21 prizes and awards to a total of 27 individuals. At the April Meeting, 19 prizes and awards were presented to 23 physicists. Many other awards were presented at various unit meetings.

The Society elected 248 new Fellows in 2013, a distinct honor reserved for no more than 0.5% of members each year, recognizing exceptional contributions to the physics enterprise.

In 2013, the Council approved (1) a new Division of Laser Science (DLS) dissertation award; (2) the Richard L. Green Dissertation Award in Experimental Condensed Matter or Materials Physics; and (3) a new fellowship endowed in honor of Stanford R. Ovshinsky for young scientists working on energy sustainability.

Member-led campaigns fully or partially endowed the Herman Feshbach Prize in Theoretical Nuclear Physics, the Davisson-Germer Prize, and the Edward A. Bouchet Award.

Natural noise and external wakefield seeding in a proton-driven plasma accelerator [K. V. Lotov et al., *Phys. Rev. ST Accel. Beams* **16**, *041301 (2013)].*

PUBLIC AFFAIRS

APS helped secure the U.S. helium supply and, having assembled a coalition of professional societies and high-tech industries, worked to launch ScienceCounts.

Gridlock continued unabated in Washington until the closing days of 2013. Prior to the December 18 passage of the Ryan (R-WI) - Murray (D-WA) budget deal, Senate Majority Whip Dick Durbin (D-IL) made that point when he characterized the Helium Stewardship Act of 2013 (H.R. 527) as the "centerpiece" of what Congress had accomplished. The Washington Office played a significant role in drafting that legislation and working with industry and academia, helping lawmakers understand the importance of the issue. Although the bill ultimately passed the Senate and the House overwhelmingly, the outcome was far from certain until APS members, responding to a Washington Office alert, swamped the phone lines of congressional leaders with warnings of impending closures of MRI centers, disruptions of semiconductor manufacturing, and damage to scientific research programs. APS President Michael S. Turner and Penn State physics professor Moses Chan had laid the groundwork for the final push with op-eds in *Politico* and *Roll Call*, two prominent Capitol Hill newspapers.

With Congress bogged down in partisan mire, APS directed more of its public affairs efforts toward the Executive Branch. Collaborating with the American Institute of Physics (AIP) and the American Association of Physics Teachers (AAPT), APS helped inaugurate STEM Ed internship and fellowship programs at the Department of Education. The Washington Office also assisted Seattle Pacific University physicist Stamatis Vokos in placing an op-ed in *The Hill*'s Congress Blog about the need for highly trained physics and physical science teachers. Working with other scientific publishers, APS engaged Executive Branch officials in discussions of proposed Open Access and Open Data policies. As the year drew to a close, agency officials were still working out plans to provide greater public access to scientific research without harming the publishing enterprise and the vital peer-review process.

Maintaining its high level of activity, the APS Panel on Public Affairs (POPA) issued three policy reports: (1) "U.S.-Russian Nuclear Reductions After New START: Summary of a Workshop Exploring Next Steps," (2) "A Technical Review: The Domestic Nuclear Detection Office Transformational and Applied Research Directorate R&D Program," and (3) "Renewing Licenses for the Nation's Nuclear Power Plants." Washington Post writer Stephen Stromberg took positive notice of this last report in an op-ed just as APS began to engage the utility and financial services industries in promoting nuclear power.

Anticipating an advocacy future that will require a greater national and public emphasis, the Washington Office assembled a coalition of professional societies and high-tech industries to launch ScienceCounts, a new nonprofit organization focused on marketing the beneficial impacts of science in everyday life. As 2013 came to a close, ScienceCounts was on the threshold of incorporation, with Michael S. Turner expected to serve as chair of the interim board. To enlist future assistance from the entertainment industry, APS established connections with the Motion Picture Association of America and several denizens of Hollywood.

Even as Public Affairs began to develop outside-the-Beltway strategies, it continued to maintain a strong inside-the-Beltway presence through effective participation and leadership in advocacy coalitions and organization of congressional visits for APS unit leaders and physicists who annually join a multi-society program that brings more than 250 scientists and engineers to Capitol Hill each spring. And in the fall, the Public Affairs staff worked with the Division of Particles and Fields (DPF) to mount an exceptionally well-attended Hill reception celebrating last year's Higgs discovery in advance of the 2013 Nobel Prize.

This past year, *Capitol Hill Quarterly*, a Washington Office publication that reaches all congressional offices, featured opinion pieces by representatives Lamar Smith (R-TX), Eddie Bernice Johnson (D-TX), and Cynthia Lummis (R-WY). The government shutdown forced cancellation of one *Quarterly* issue, but as University of Wisconsin-Madison physics graduate student Kenneth Rudinger noted in his *Milwaukee Journal Sentinel* op-ed, far more significant damage occurred outside the Beltway. Finally, to help keep science on the radar screen inside the Beltway, APS Director of Public Affairs Michael S. Lubell continued as a regular guest columnist for *Roll Call*. He also appeared twice on NPR's *Science Friday*, speaking about long-term detrimental effects of sequestration.

Supersolid structure and excitation spectrum of soft-core bosons in three dimensions [F. Ancilotto et al., *Phys. Rev. A* **88**, *033618 (2013)].*

PHYSICS EDUCATION

The Physics Teacher Education Coalition (PhysTEC) has nearly 300 institutions in its national network committed to improving the education of future physics teachers.

Promoting and improving the education of future high school physics teachers through the Physics Teacher Education Coalition (PhysTEC) continues to be the signature APS education program. PhysTEC has more than doubled the number of highly qualified physics teachers that graduate from supported sites. The project is led by APS in partnership with the American Association of Physics Teachers (AAPT) and is supported by contributions from the National Science Foundation (NSF), APS members, and private foundations.

In 2013, PhysTEC was one of only 13 projects highlighted in the NSF annual report to Congress, and the only education project. The project now supports an additional five sites, bringing the total to 30 supported sites. Member institutions of PhysTEC grew to nearly 300, and the project supported these universities and colleges through conferences, workshops, networking, and advocacy. The project also conducted a study on sustainability at supported sites, with a full report due in early 2014 (www.PhysTEC.org).

In January 2013, APS, in conjunction with AAPT, held the second Graduate Education Conference, where over 100 participants from 74 different doctorate-granting institutions discussed preparing graduate students for non-academic careers, improving diversity, mentoring, and concerns held by graduate students. A report is due out in early 2014.

APS, working with AAPT, also brought together faculty from across the country to discuss distance education and online learning in a two-day workshop held in tandem with the annual physics department chairs meeting in June. Given the growing interest in online courses and course components, the time seemed ripe to explore this topic with a collection of leaders and innovators in the field. Topics included Massive Open Online Courses (MOOCs), online homework and tutorial systems, electronic textbooks, cheating, and resources for "flipping" the classroom to provide increased time for faculty to model and coach problem-solving skills.

Started in 2006, the Conferences for Undergraduate Women in Physics (CUWiP) have grown in popularity and impact, reaching nearly 900 undergraduate women in 2013. In 2012, the CUWiP leadership asked APS to provide logistical support to this expanding effort, and in 2013 APS helped the organization secure multi-year support from the NSF and the U.S. Department of Energy, centralize registration, organize conference logistics, and set the stage for further development. Overseen by the Committee on the Status of Women in Physics (CSWP), CUWiP allows undergraduate women to present scientific papers, learn about physics careers, network, and gain an introduction to professional life as a physicist (www.WomenInPhysics.org).

Two-dimensional Maxwell-Bloch simulation of quasi-π-pulse amplification in a seeded XUV laser [O. Larroche et al., *Phys. Rev. A* **88**, *033815 (2013)].*

INFORMING THE PUBLIC

Through comics, blogs, hands-on activities, and much more, Public Outreach brought the joy and excitement of physics to over six million people of all ages in 2013. Media Relations increased coverage of cutting-edge physics in the popular media.

Public Outreach: 2013 was a year of milestones for Public Outreach. Visits to our website (www.physicscentral.com) topped one million, our facebook "likes" topped 100,000 in December, and we have a growing following on Twitter. Our most successful blog post attracted over 100,000 hits in the space of a week. Who knew the long-running "pitch drop" experiment could be so exciting?

PhysicsQuest continues to be successful. Thanks to generous member donations we were able to reach 15,000 more students than last year. In the latest edition of the popular "Spectra" comic book series, Spectra tries to stop the quantum creations of Pauli Black, AKA "The Quantum Mechanic." Middle schoolers learn a little about quantum mechanics from the comic book's story and then do hands-on physics activities based on ideas from modern physics. Registration for this year's kits filled up in less than a week.

Comic-Con was again a huge success. Fans from previous years were excited to see the latest edition and waited for autographs. Our comics garnered praise from Boing-Boing.com and Gillian Anderson of "X-Files" fame. In response to a question from our team, Anderson, while on the "X-Files" panel, spoke to the 6,000-person audience about the importance of women in physics as well as the role her character Dana Scully played in inspiring girls to continue in science.

Public Outreach runs many other programs to engage and inspire the general public.

Media Relations: Media Relations efforts focus on increasing coverage of physics research in the popular media, and helping science journalists stay informed about the latest physics news. Vehicles for disseminating physics news include email alerts, embargoed press releases distributed through services such as *EurekAlert!*, and the APS Physics *News Ticker* blog.

Stories promoted through Media Relations efforts appeared in a range of media including *The New York Times*, *Associated Press*, *USA Today*, *BBC News*, *Wired Magazine*, *Fox News*, *Los Angeles Times*, *The Washington Post*, *National Public Radio*, *MSNBC*, *ABC News*, *Nature News and Comment*, *Science Now*, *National Geographic*, *PBS NewsHour*, and *The Economist*.

Naturalness implies intra-generational degeneracy for decoupled squarks and sleptons [H. Baer et al.*, Phys. Rev. D* **89***, 037701 (2014)].*

INCREASING DIVERSITY

In its first year, the APS Bridge Program helped 13 underrepresented minority students follow their dreams of pursuing graduate studies in physics – taking a significant step toward erasing the achievement gap at the doctoral level.

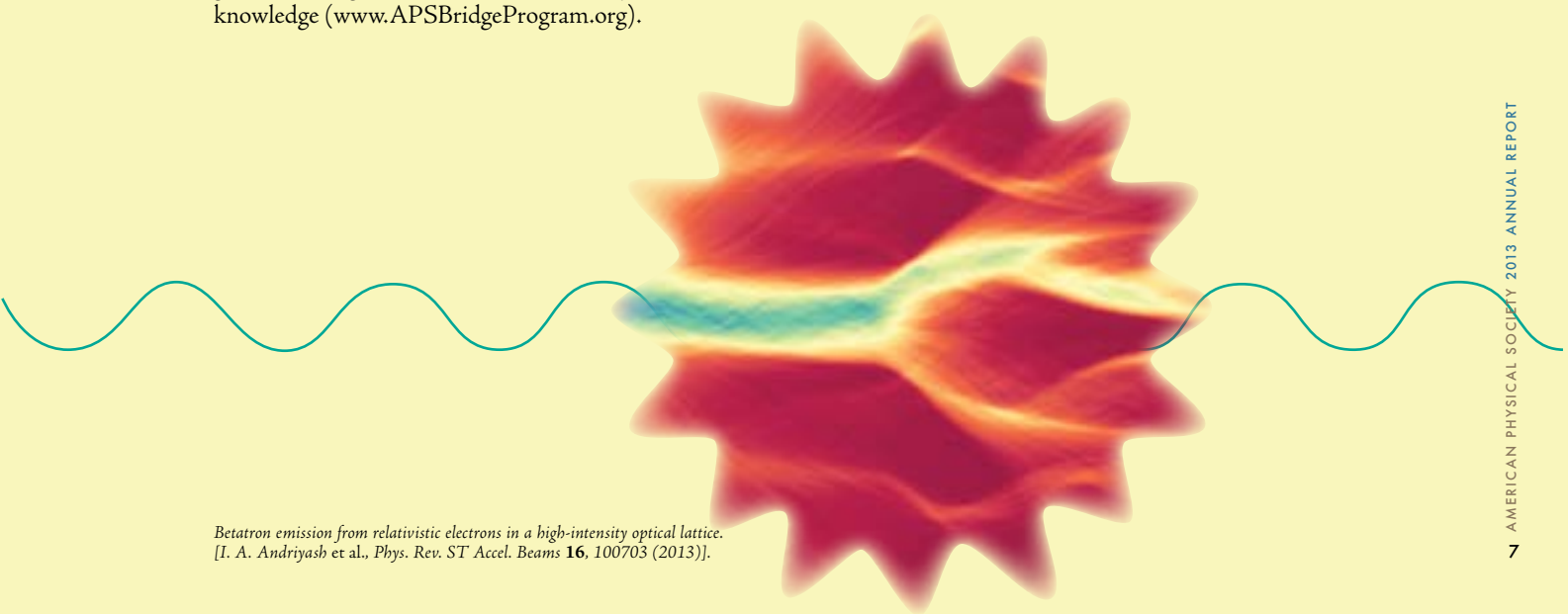
The APS Bridge Program is a national effort to increase the number of underrepresented minority students who receive doctoral degrees in physics. In its first year of funding, the program selected two sites, Ohio State University and University of South Florida, to develop programs that incorporate advanced coursework, research, and mentoring to help students prepare competitive applications to physics doctoral programs. The Bridge Program placed seven students at Bridge Sites and an additional six students in graduate programs at other universities, surpassing the original goal of four students, and is closely monitoring the progress of all these students. The program will add additional Bridge Sites that will accept students in the fall of 2014.

In June, the Bridge Program hosted a gathering that highlighted issues vital to developing and sustaining programs that support the success of underrepresented minority students in graduate physics programs. Topics included mentoring, "non-cognitive" measures for admissions, interventions to combat "stereotype threat," and logistics of establishing bridge programs. The 2014 Bridge Program conference will focus on the role of the master's degree in helping students advance their physics knowledge (www.APSBridgeProgram.org).

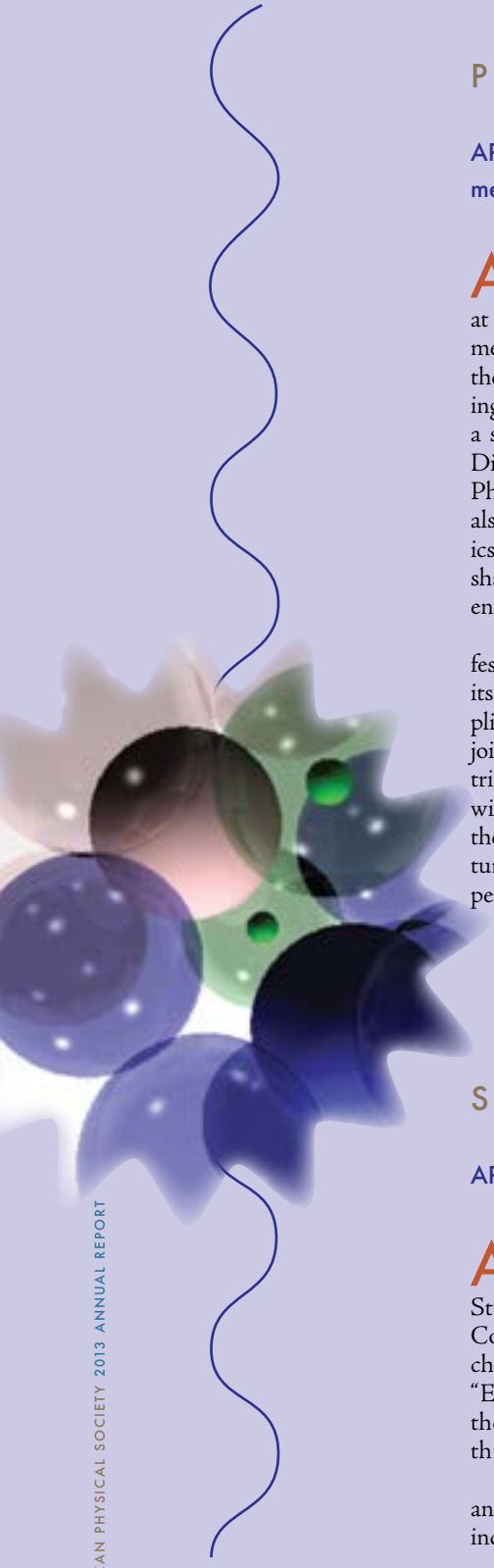
Thanks to private donations, the APS has been able to continue its successful Minority Scholarship Program for undergraduate physics majors. In 2013, 40 minority students received scholarships through this program, and 17 additional students received honorable mentions—a new program distinction (www.MinoritiesInPhysics.org).

The Committee on the Status of Women in Physics (CSWP) Climate for Women in Physics Site Visit program experienced a surge in requests for visits. Owing to its successes, two professional societies, the American Astronomical Society (AAS) and the American Philosophical Association (APA), both began similar site visit programs.

As part of the Strategic Plan, a Diversity Working Group, composed of APS staff, was established by Executive Officer Kate Kirby. This group is charged with looking at diversity issues concerning members, staff, and Society leadership. Initial activities include a diversity census of prizes, awards, and fellowships, membership units, meetings, and publications.



Betatron emission from relativistic electrons in a high-intensity optical lattice. [I. A. Andriyash et al.*, Phys. Rev. ST Accel. Beams* **16**, *100703 (2013)].*



PHYSICS CAREERS

APS continued to increase career and professional development opportunities for members.

APS expanded its career-related activities by hosting industry-focused sessions at the Southeast Section and Texas Section meetings. APS also hosted Job Fairs at both the Division of Plasma Physics (DPP) Meeting and the March Meeting, and provided a special session on careers in physics at the Division of Atomic, Molecular and Optical Physics (DAMOP) meeting in Quebec. APS also continued to support its online Physics Jobs Center (careers.aps.org), which is a shared database that includes hundreds of science and technology jobs.

The APS Committee on Careers and Professional Development (CCPD) implemented its new Distinguished Lectureship on the Applications of Physics (DLAP) award, which is jointly sponsored with the Forum on Industrial and Applied Physics (FIAP). The first winner of the award was selected and, during the 2014-2015 academic year, will present lectures at universities and other venues about personal professional development in industrial and other non-academic career paths (www.aps.org/careers/lectureship/). CCPD augmented the careers website (www.aps.org/careers/) with new physicists' profiles, employment statistics, and links to webinars.

APS hosted two very popular webinars, focusing on how to plan a job search and then identify and apply for jobs in both academia and the private sector. APS also worked with the Forum on International Physics (FIP) to produce a special webinar broadcast, targeted to central Asian APS members, focusing on strategies for commercializing research.

APS also produced *Physics InSight*, a free recruiting resource suitable for hallway displays at universities, high schools, and middle schools. This customizable slideshow provides information on the wide variety of career paths available to those with a degree in physics. *Physics InSight* now reaches over 300 physics departments worldwide, and is updated several times each semester with physicists' profiles, interesting physics, and career facts (www.aps.org/careers/insight/).

SOCIETY MEMBERSHIP

APS membership up over 50,000!

APS had 50,578 members in 2013, an increase of over 900 since 2012. The Student cohort grew by over 1,000. The Committee on Membership approved changing the name "Junior" membership to "Early Career" membership, and extending their eligibility for half-priced dues from three years to five years.

As part of implementing the Strategic Plan, an Early Career Task Force was formed that included early career physicists and members working in both academia and the industrial sector. In April the Task Force presented its recommendations to the Executive Board. The main recommendations, several of which have already been implemented, included the creation of local networking groups, improvements to APS meetings, and increased efforts to promote physics as a career.

Membership remained strong in all divisions, topical groups, forums, and sections. Over 63% of members belong to at least one unit.

Detailed characterization of rattlers in exactly isostatic, strictly jammed sphere packings [S. Atkinson et al., *Phys. Rev. E* **88**, *062208 (2013)].*

INTERNATIONAL AFFAIRS

The Society strengthened international partnerships to serve physicists worldwide.

APS is interested in strengthening its partnerships with other physical societies around the world. At its June retreat, the Executive Board met with leaders from the European Physical Society (EPS), the Institute of Physics (IOP), and the German Physical Society (DPG) and discussed new opportunities for collaboration. APS also partnered with EPS, IOP, and DPG in supporting the SESAME Travel Award Program that provides training opportunities for scientists in the Middle East. The SESAME project—the synchrotron light source in Amman, Jordan—brings together physicists from Arab countries and Israel for international scientific collaboration.

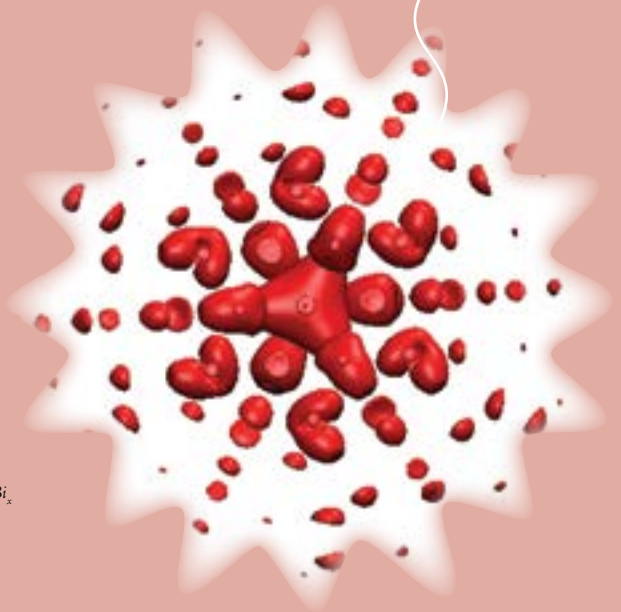
This past year, APS continued its partnerships with the Indo-U.S. Science and Technology Forum (IUSSTF) and the Sociedade Brasileira de Física (SBF) to offer the Brazil & India Physics Student and Professor Exchange Programs. These Physics Student Exchange Programs offered graduate students opportunities to attend a short-course or summer institute in another country, or work overseas with a professor in their field of study. The Professorship/Lectureship Exchange Programs funded physicists wishing to teach a short course or deliver a lecture series in the other country.

The Society partnered with the Canadian Association of Physicists (CAP) and the Sociedad Mexicana de Física (SMF) for the biennial Canadian-American-Mexican Physics Graduate Student Conference (CAM). CAM2013 was held in Waterloo, Canada and promoted student research, international networking and career development, and encouraged collaborations among North America's physics graduate students.

In partnership with IOP and the Abdus Salam International Centre for Theoretical Physics (ICTP), the Society continued to co-sponsor workshops designed for physicists and engineers from developing countries who are interested in learning entrepreneurial skills. This past year, two such workshops were held in both Durban, South Africa and Chiapas, Mexico.

APS also partnered with other organizations in the AAAS Science and Human Rights Coalition, a network of U.S. professional societies providing strengthened connections between the scientific and human rights communities.

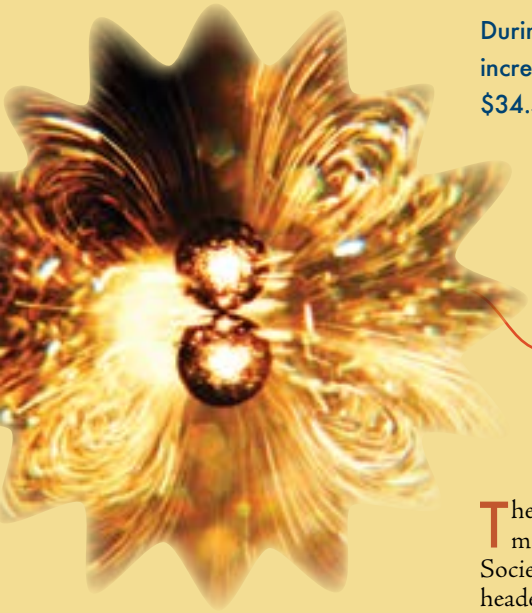
APS continues to bring international physicists to speak at its meetings through both the Marshak and Beller Lectureships, which support distinguished physicists from developed and developing countries, respectively. The Society continued its commitment to physicists from developing countries through its International Travel Grant Award Program (ITGAP), which supports their travel to visit collaborators in developed countries.



Valence band-edge partial-charge-density around a Bi atom in a dilute $GaAs_{1-x}Bi_x$ alloy. [V. Virkkala et al.*, Phys. Rev. B* **88**, *235201 (2013)].*

FINANCES

December 31, 2013



During the fiscal year 2013, the total assets of the American Physical Society increased from $149.2M to $168.0M, while the Society's liabilities decreased to $34.5M from $39.6M the previous year.

The tables and charts in this section summarize the financial operations of the Society as of December 31, 2013. The table headed Financial Position shows the final financial position of the Society for 2013 and 2012. The table headed Statement of Activities shows the financial activities of the various components of the Society for the 2013 and 2012 fiscal years. The distribution of operating revenues and expenses across the components of the Society is also displayed graphically in the accompanying figures.

Net assets at the end of fiscal year 2013 were $133.5M, compared with $109.6M at the end of 2012. These include $12.7M in restricted net assets, which are funds for prizes and awards and for the programs of the current capital campaign. The restricted net assets increased from $12.2M at the end of 2012. The unrestricted net assets include the Society's operating accounts (cash and cash equivalents), totaling $13.6M at the end of 2013, and its investments in equities and fixed-income issues. These investments were $132.6 at 12/31/13 and $119.8M at 12/31/12.

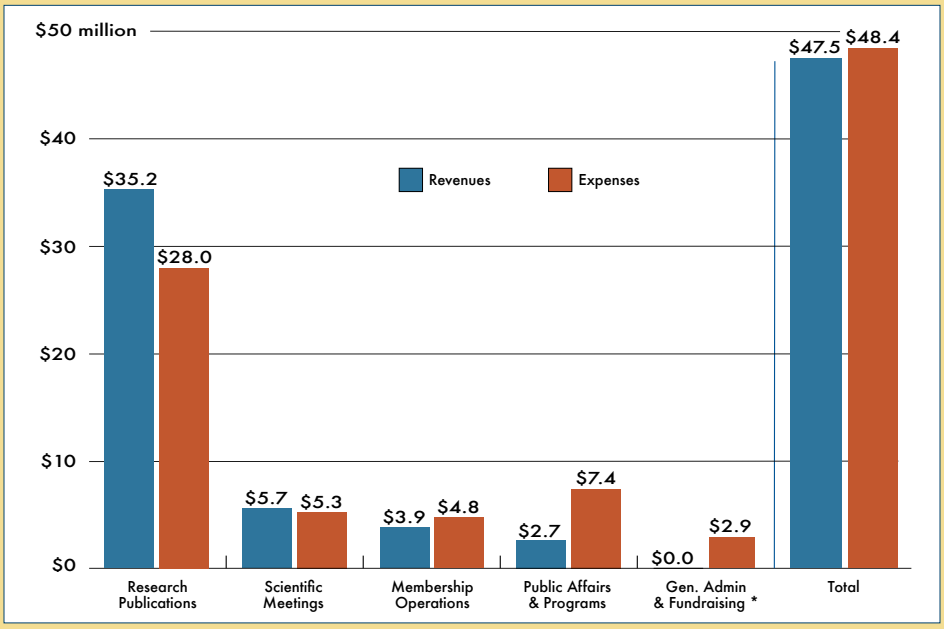
Business Continuity Plans (BCPs) are in place for the College Park, Washington D.C., and Ridge offices. The BCPs provide action plans in the event of a disruption of normal operations by natural or manmade events. The BCPs include contact names, checklists of orderly procedures, and plans for off-site operations if necessary. The BCPs are updated annually and a report on their status is made to the Audit Committee.

Two magnetically suspended bismuth spheres vibrating freely in a liquid containing finely crushed bismuth. The streaks are due to horizontal streaming flow of the highly reflective metal grains. [H. A. Pacheco-Martinez et al.*, Phys. Rev. Lett.* **110***, 154501 (2013)].*

FINANCES

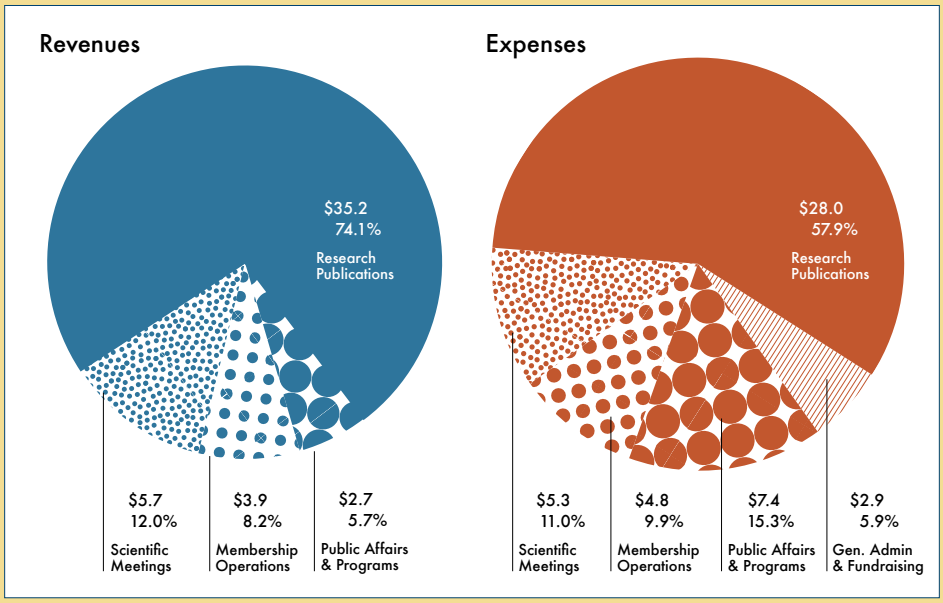
December 31, 2013

OPERATING REVENUE & EXPENSES (IN $ M)



*Contributions are reflected in program revenue.

STATEMENT OF ACTIVITIES (IN $ M)



FINANCIAL POSITION
December 31, 2013 and 2012

	2013	2012
ASSETS		
Cash and cash equivalents	$ 13,621,286	$ 14,170,750
Investments, at fair value	132,628,997	119,792,126
Accounts receivable, net of allowance for doubtful accounts of $38,000 in 2013 and $24,000 in 2012	1,030,717	901,041
Pledges receivable, net	208,132	407,914
Prepaid expenses and other assets	1,473,051	897,179
Equity interest in American Center for Physics	2,792,354	2,457,100
Land, building and equipment, net	15,685,803	10,083,254
Beneficial interest in perpetual trust	536,173	513,488
Total assets	**$ 167,976,513**	**$ 149,222,852**
LIABILITIES AND NET ASSETS		
Liabilities		
Accounts payable and accrued expenses	$ 3,775,239	$ 4,792,233
Deferred revenues:		
Publications	12,500,703	14,022,759
Membership dues	2,872,840	2,890,574
Other	553,571	140,124
Liability for post-retirement medical benefits	14,808,900	17,787,201
Total liabilities	**34,511,253**	**39,632,891**
Commitments and contingencies		
Net assets		
Unrestricted	120,786,008	97,430,097
Temporarily restricted	10,297,786	9,837,234
Permanently restricted	2,381,466	2,322,630
Total net assets	**133,465,260**	**109,589,961**
Total liabilities and net assets	**$ 167,976,513**	**$ 149,222,852**

STATEMENT OF ACTIVITIES

December 31, 2013 and 2012

	2013	2012
CHANGE IN UNRESTRICTED NET ASSETS		
Revenues		
Research publications	$ 35,234,563	$ 34,826,857
Scientific meetings	5,703,605	5,024,312
Membership operations	3,928,069	3,909,243
Public affairs and programs	2,099,210	1,794,759
Net assets released from restrictions	584,284	563,854
	47,549,731	46,119,025
Expenses		
Program services		
Research publications	27,975,818	28,132,876
Scientific meetings	5,300,146	4,816,383
Membership operations	4,812,395	4,232,289
Public affairs and programs	6,898,090	6,472,747
Prizes and related costs	584,284	563,854
Total program services	45,570,733	44,218,149
Supporting services		
Fundraising	587,583	514,657
General and administrative	2,271,096	2,194,378
Total supporting services	2,858,679	2,709,035
Total expenses	48,429,412	46,927,184
Loss from operations	(879,681)	(808,159)
Non-operating activities		
Income from investments	1,843,171	2,249,360
Net unrealized gain on investments	11,696,130	8,453,513
Net realized gain on investments	5,873,378	1,505,889
Equity interest in American Center for Physics	335,254	319,909
Change in post-retirement medical benefits other than net periodic post-retirement medical benefit cost	4,487,659	(1,692,108)
	24,235,592	10,836,563
Change in unrestricted net assets	**23,355,911**	**10,028,404**
CHANGE IN TEMPORARILY RESTRICTED NET ASSETS		
Contributions	417,079	690,143
Income from investments	627,757	595,572
Net assets released from restrictions	(584,284)	(563,854)
Change in temporarily restricted net assets	**460,552**	**721,861**
CHANGE IN PERMANENTLY RESTRICTED NET ASSETS		
Contributions	36,151	109,720
Gain on beneficial interest in perpetual trust	22,685	29,346
Change in permanently restricted net assets	**58,836**	**139,066**
Change in net assets	**$ 23,875,299**	**$ 10,889,331**

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APS is extremely grateful for gifts received throughout the year from its members and other individuals, corporations, national and international labs, governmental agencies, and institutions. Since membership dues cover only the cost of member services, APS depends to a great extent on external contributions in order to carry out its various initiatives in Education & Diversity, Public Outreach, International and Public Affairs.

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