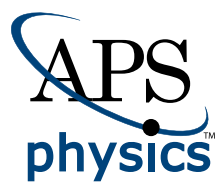
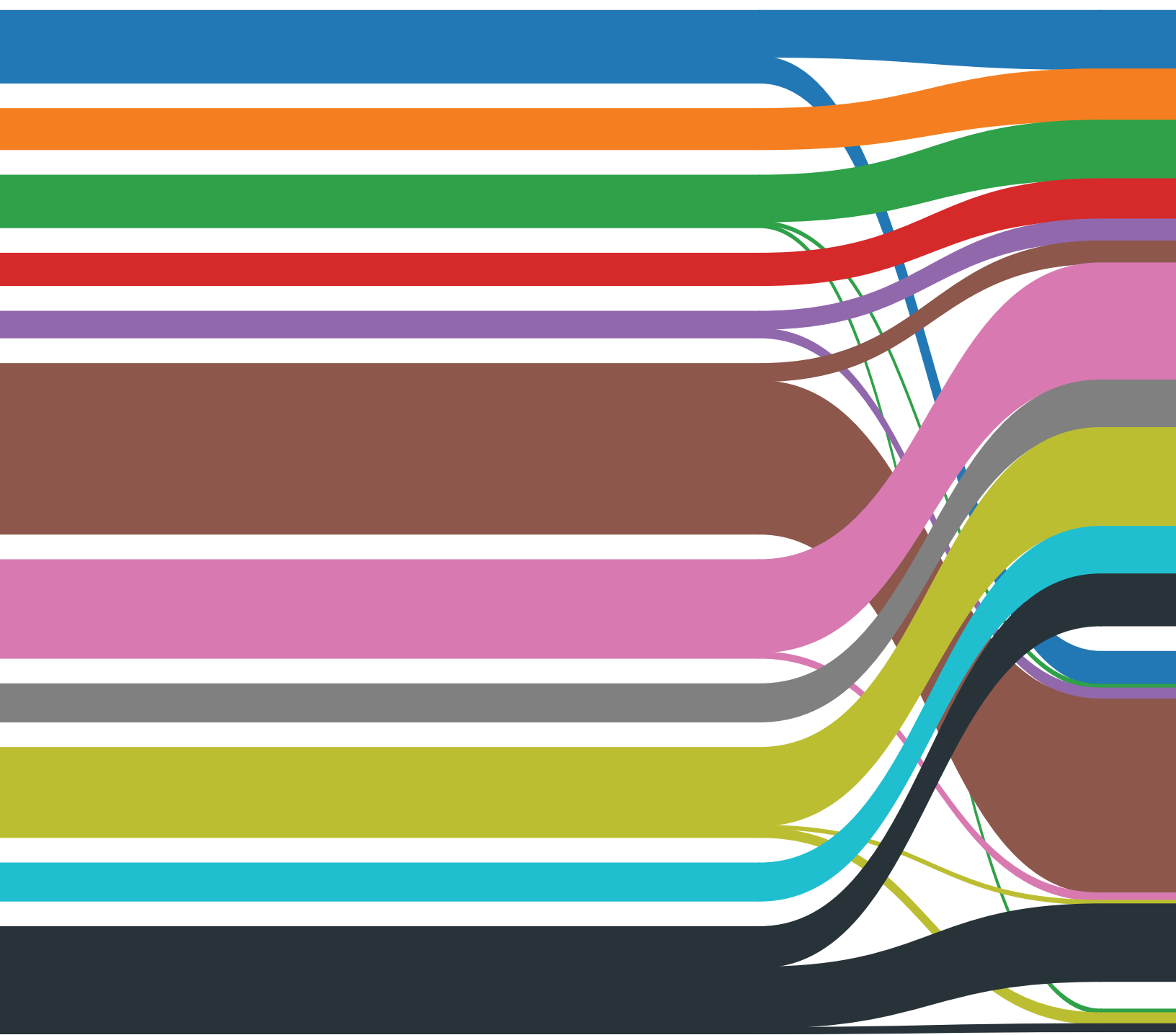
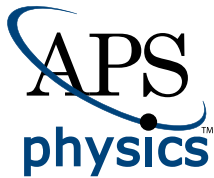


AMERICAN PHYSICAL SOCIETY

ANNUAL REPORT

2018





OUR MISSION

To advance and diffuse the knowledge of physics for the benefit of humanity, promote physics, and serve the broader physics community, we

Provide a welcoming and supportive professional home for an active, engaged, and diverse membership;

Advance scientific discovery and research dissemination;

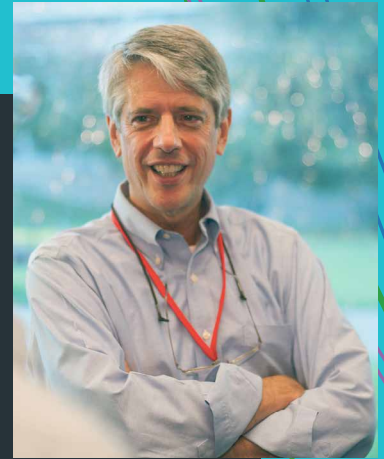
Advocate for physics and physicists, and amplify the voice for science;

Share the excitement of physics and communicate the essential role physics plays in the modern world; and

Promote effective physics education for all.

Cover image from *Configuration model for correlation matrices preserving the node strength* [Naoki Masuda, Sadamori Kojaku, and Yukie Sano, Phys. Rev. E **98**, 012312 (2018)].





When I began my year as APS President in January 2018, I wanted to make progress in three areas: promoting physics, increasing the impact of APS, and ensuring our Society's future. It is clear that significant impact is largely made only on multi-year timescales and in partnership with staff and volunteers who share common goals. I was fortunate to work with many such dedicated partners at APS, including my predecessor as President, Laura Greene, my successor, David Gross, and our CEO, Kate Kirby.

Through the work of our Publisher and Editor in Chief, APS is responding to the important challenge of opening access to scientific publications. This includes negotiating international agreements and expanding our open access publications. At the same time, we have preserved and articulated our principles, which include the importance of scientific excellence and quality peer-review.

APS's advocacy work, coordinated by our Office of Government Affairs, is increasingly effective. We have mobilized our members from academia, national labs, and industry to voice their concerns on issues threatening science and scientists. APS's reputation is excellent, and our input is valued, so we can meet with all relevant organizations, including the executive and legislative branches of government, funding agencies, and foundations.

During 2018, we undertook a broadly consultative and inclusive process of strategic planning. The *APS Strategic Plan: 2019* was approved and adopted by the APS Council and Board in November. The high-level plan encompasses all of APS and provides important guideposts as we face challenges and opportunities. It was rolled out at the 2019 Leadership Convocation.

Another significant document, developed by the Ethics Subcommittee of the APS Panel on Public Affairs (POPA), is a statement on Ethics Guidelines. This statement is comprehensive, including guidance on the research record, publications, treatment of colleagues and subordinates, and overall professional conduct. It was sent out for member comment last fall and is in the final stages of editing before being put before Council for approval in April 2019.

Going forward, I am confident of the continued intellectual and fiscal integrity of APS, and our ability to contribute to the global scientific enterprise. New challenges include maintaining a welcoming and open environment for international students, scientists, and collaborations, and encouraging societal interest in discovery and innovation. I know we are well prepared to address these.

Thanks to all my colleagues for their support of APS and the opportunity to serve.

A handwritten signature in white ink that reads "Roger W. Falcone". The signature is written in a cursive, flowing style.

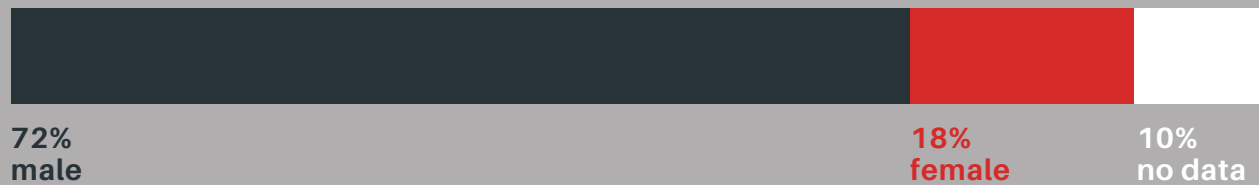
Roger W. Falcone

2018 APS President
University of California, Berkeley

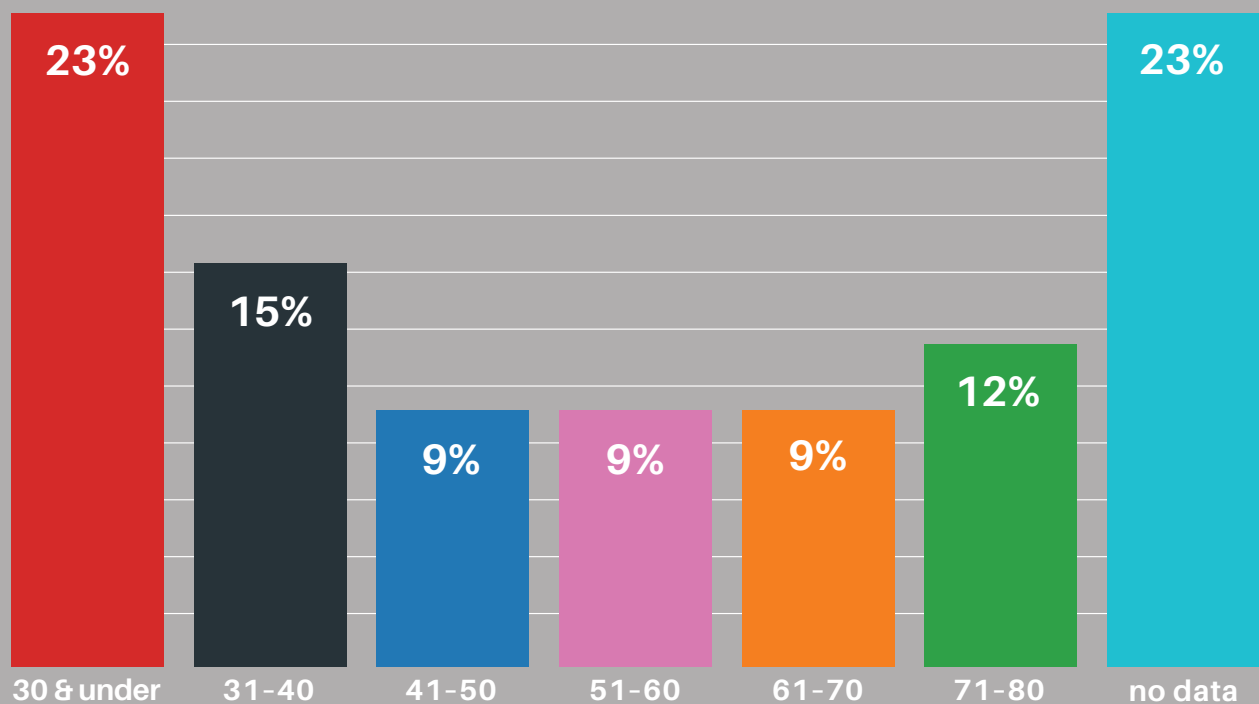
APS MEMBERSHIP IN 2018

NUMBER OF APS MEMBERS

55,158



AGE DISTRIBUTION OF APS MEMBERS

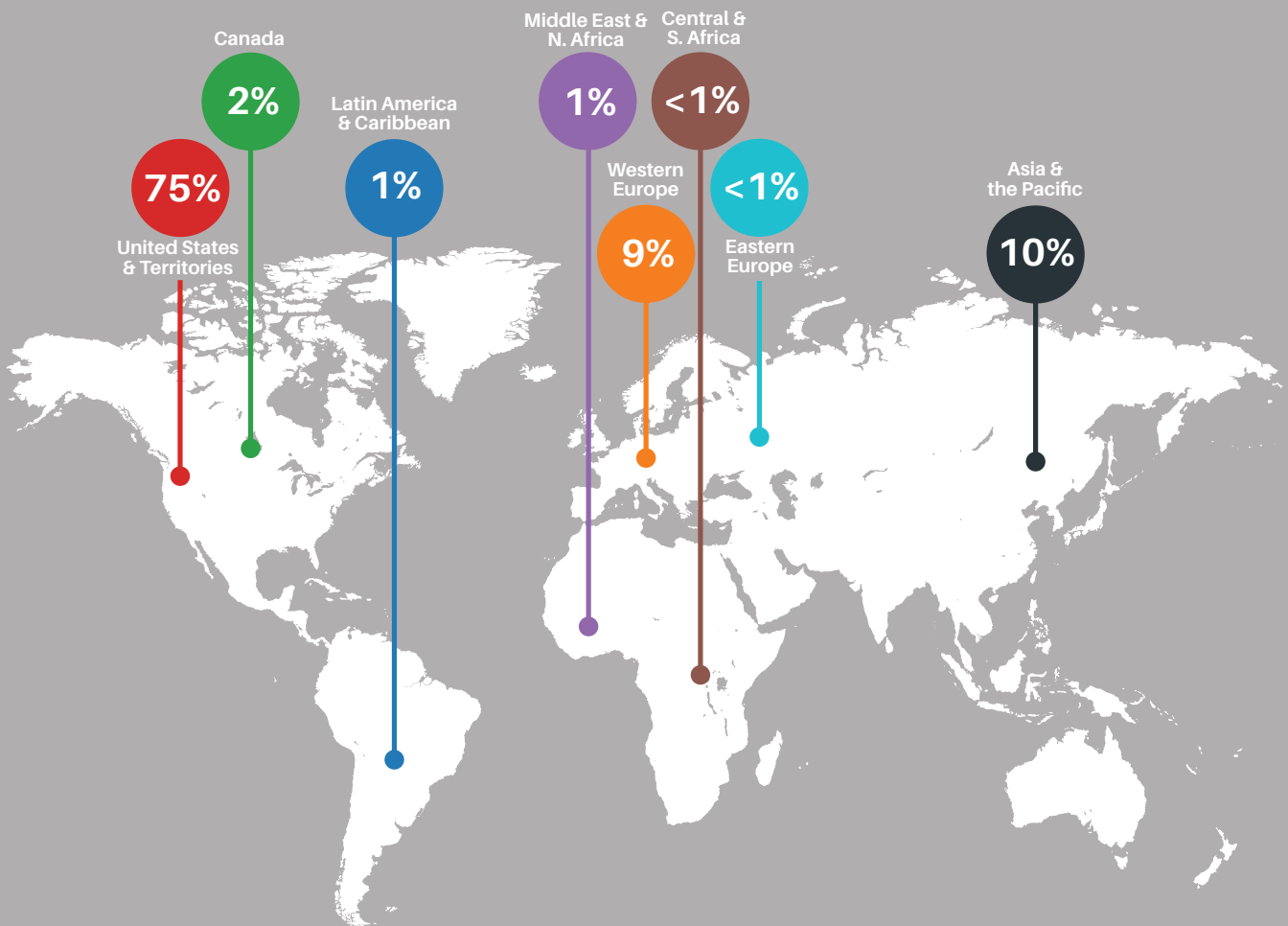




155 APS FELLOWS ELECTED IN 2018

23% female
(109% increase from 2017)
77% male

APS MEMBERS RESIDED IN 106 COUNTRIES



Provide a Welcoming and Supportive Professional Home for an Active, Engaged, and Diverse Membership

STEP UP 4 WOMEN

APS is working with the American Association of Physics Teachers and with researchers studying factors that impact the retention of women in physics to launch STEP UP 4 WOMEN, a program designed to increase the likelihood of women majoring in physics as undergraduates. This multi-year effort will recruit high school physics teachers to adopt practices that have been shown to create inclusive classrooms, benefiting female students. Initial pilot tests conducted in 2018 were positive, and 2019 will see a massive rollout to engage 10,000+ high school teachers.

APS Bridge Program

The APS Bridge Program has continued to focus on the goal of increasing the number of underrepresented ethnic and racial minorities who complete Ph.D.s in physics. At the conclusion of the 2018 Bridge Student Application cycle, the program had placed a total of 195 students in graduate programs. Through focused mentoring, early intervention milestones, and dedicated faculty support, the current 87% retention rate for Bridge students remains above the national average of 60% for doctoral physics programs.

Inclusive Graduate Education Network

In 2018, APS was awarded its largest grant ever, \$10 million over five years from NSF to replicate the highly successful APS Bridge Program in the disciplines of chemistry, materials science, astronomy, and Earth/space science. APS is taking a leadership role in collaboration with five professional societies and education researchers at four institutions to form a national coalition of professional societies, national labs, partners in industry, and universities to erase the disparity between the preparation of underrepresented minorities who complete Ph.D.s.

2018 Bridge Program/National Mentoring Community Conference

In November 2018, the APS Bridge Program and the National Mentoring Community held a joint conference at Stanford University and Google HQ in Palo Alto, California. The conference, which was attended by 219 registrants, including 76 students served by the Bridge Program and National Mentoring Community, focused on topics such as strengthening mentoring relationships, building firm foundations for successful student experiences, and providing learning and networking opportunities related to diversity in graduate and undergraduate physics education.





Report from the Task Force on Expanding International Engagement

In 2018, the APS Task Force on Expanding International Engagement presented its [report](#), recommendations, and implementation plan to the APS Council of Representatives. The Task Force, composed of 12 APS members living or working around the world with a broad range of research interests and leadership experiences, sought to understand the priorities of all APS members worldwide. In doing so, and by partnering with scientific societies and all of the Society's stakeholders, the Task Force identified ways for APS to better serve its international members and physicists across the globe.

The Task Force's primary recommendation was for APS to deepen its international engagement across the full range of Society activities. The Task Force report will serve as a useful guide towards expanding APS services for members and the entire international physics community.



APS Job Fairs

APS held on-site recruitment events in 2018 at the APS March Meeting and the APS Division of Plasma Physics (DPP) Meeting, drawing nearly 300 job seekers. These annual events provide an opportunity for employers to connect with physics talent and for physics job seekers to learn about job opportunities in academia, national labs, and industry. Special efforts have been made in recent years to engage with more industry employers; the 2018 events saw nearly 50% of employer participation from the industrial sector and over 146 positions advertised.

Opposite page: Undergraduate students celebrate science at the Future of Physics Days event. *Top Left:* Awards at the Bridge Program/National Mentoring Community Conference. *Top Right:* Panel discussion at the Bridge Program/National Mentoring Community Conference.

Advance Scientific Discovery and Research Dissemination



Journal Anniversaries

APS celebrated the 125th anniversary of the *Physical Review* in 2018. Commemorative activities included parties at all APS meetings, papers highlighted weekly on social media, and updates from each journal were published in *APS News*. In addition, *Physical Review Letters* commemorated 60 years with special talks at key meetings in China and Japan. *Physical Review E* celebrated 25 years by featuring milestone articles on its website spanning all major subject areas of the journal. *Physics*, APS's online magazine, celebrated its 10-year anniversary with a "[Where Are They Now?](#)" collection examining what's become of research it covered in the past decade. *Physical Review Materials* marked its first year with a celebration at the Fall Materials Research Society Meeting.

Sociedade Brasileira de Física

APS partnered with the Sociedade Brasileira de Física (SBF) for the SBF-APS São Paulo School of Advanced Science on Experimental Neutrino Physics, held in Campinas, São Paulo, Brazil. This was one of the largest events organized by APS for young physicists outside the United States. The school brought together 100 Ph.D. students from over 10 countries for two weeks of lectures, research discussions, and networking with international peers.

APS Medal for Exceptional Achievement in Research

The 2018 awarding of the APS Medal for Exceptional Achievement in Research was presented to Eugene N. Parker, University of Chicago (retired), in recognition of his contributions to space physics, plasma physics, solar physics, and astrophysics. (The \$50,000 prize and prestigious medal recognizes achievements of researchers from across all fields of physics.) In addition to the Medal, APS bestowed more than 50 other prizes and awards in 2018.

Physics Next Workshops

Two [Physics Next](#) workshops took place in 2018: one on the physics of living matter and the other on machine learning. These three-day gatherings brought small groups of leading scientists together for open and informal discussions and to exchange information needed to help assess the promise and challenges of these emerging fields.

Outstanding Referees for 2018

APS selected 147 Outstanding Referees who demonstrated exceptional work in the assessment of manuscripts submitted to the *Physical Review* journals. Instituted in 2008, the Outstanding Referee program recognizes active referees for their invaluable work for APS journals each year. The selections for 2018 were made based on 30 years of records of over 67,000 referees who have been called upon to review manuscripts.

First Irwin Oppenheim Award Winners

APS congratulated Jordan M. Horowitz and Todd R. Gingrich as the recipients of the first Irwin Oppenheim award for best paper by early career scientists published in *Physical Review E*. Their article, "Proof of the Finite-Time Thermodynamic Uncertainty Relation for Steady-State Currents," was selected for its significance, rigor, and broad impact in the area of nonequilibrium thermodynamics.

Millie Dresselhaus: Her Living Scientific Legacy

Physical Review Applied published a “[Collection in Memory of Mildred S. Dresselhaus](#)” to document the continuing impact of her science. Papers in this collection were published online throughout 2018, beginning on February 20, the anniversary of her death, and ending on November 11, her birthday.

Reviews of Modern Physics Published Inaugural APS Medal Prize Paper

The 2016 APS Medal for Exceptional Achievement in Research was awarded to Edward Witten. In conjunction with this award, he was invited to contribute to *Reviews of Modern Physics*. The [original notes](#) contain concise explanations of some key results in the axiomatic and algebraic approaches to quantum field theory, which are relevant to quantum entanglement. They serve to place the connection between quantum field theory and quantum information theory on a precise and rigorous footing.

Physics Expanded

Physics—a free, online magazine offering highlights of top papers in the *Physical Review* journals—continues to raise awareness about research that advances technology, improves understanding of the laws of nature, or simply inspires curiosity. The publication expanded this year by complementing its usual highlights with regular interviews with physicists, articles about the influence of physics on the arts, and news features, such as a story about the physics of life. *Physics* helps spread the word about exciting results by sharing its articles in a weekly newsletter, and through Twitter and Facebook. The publication also provides a weekly “tip sheet” of press-friendly stories to more than 300 journalists.

Opposite Page: Visitor to *Physical Review* Journals booth at the March Meeting 2018. *Right:* Joan Feynman (Richard Feynman’s Astrophysicist sister) at the April Meeting 2018.

PhySH Made Publicly Available

[PhySH](#), APS’s fully open, high-quality classification scheme, was made publicly available under a Creative Commons CC0 license. PhySH groups concepts into a flexible hierarchy that organizes content by topics. At its core, PhySH concepts are grouped into both facets and disciplines. Facets are broad groupings of concepts organized according to the general role they serve, while disciplines are specialties within physics used to narrow the list of concepts.

Annual Meetings

The March Meeting 2018 in Los Angeles had the largest attendance in APS history with 11,315 physicists from across the globe and remains the largest single physics meeting in the world.

The April Meeting 2018 was held in Columbus, Ohio, with meeting attendance just over 1,500. The meeting’s theme was “A Feynman Century” and Joan Feynman (Richard Feynman’s Astrophysicist sister) spoke at the Kavli Foundation Keynote Plenary Session.



Advocate for Physics and Physicists, and Amplify the Voice for Science



APS Bridge Program students during a meeting on Capitol Hill to discuss the positive impact the program has had on their lives. Shown left to right: Dylan Smith; former U.S. Rep. Barbara Comstock (VA-10th); Michelle Lollie; and Brian Zamarripa Roman.

Grassroots Advocacy

The APS Office of Government Affairs (OGA) facilitated more than 4,000 APS member contacts with Congress—through op-eds in key states and districts, emails, meetings, and phone calls—to advance the interests of the physics community. Notably, OGA collected more than 1,300 signatures on a petition that successfully opposed legislation that would have decreased the quality and accessibility of student loans. Students delivered the petition in-state to key senators.

Fighting for Federal Research Funding

In an ongoing effort to achieve sustained and robust support for federal science agencies, APS worked with members, and coordinated with other science organizations, to advocate for increased funding through member op-eds and meetings with congressional offices. As a result, key science agencies saw increases from fiscal year 2018 to 2019. Additionally, the President signed the National Quantum Initiative Act into law, which authorizes \$1.2 billion over the next five years for new quantum information science research programs at NSF, NIST and DOE.

Reforming Visas and Immigration

Alerted by members, APS conducted a [survey](#) of physics graduate programs that showed an alarming 12% decline in international applications from 2017 to 2018. APS responded by urging Congress to make the F-1 visa “dual intent”—giving international students the opportunity to simultaneously study and apply for citizenship in the United States.



Supporting STEM Education

U.S. Representative Joaquin Castro (TX-20th) and former U.S. Representative Barbara Comstock (VA-10th) co-sponsored a bipartisan resolution recognizing the importance of the [APS Bridge Program](#) in helping underrepresented minorities in STEM earn Ph.D.s in physics. The resolution followed the visit of several Bridge students who met directly with members of Congress and shared their compelling stories about how their lives were changed by the [APS Bridge Program](#).

Combating Climate Change

APS released its full [greenhouse gas emissions \(GHG\) report](#), becoming the first scientific organization to broadly assess its GHG emissions and publicly post the results. Based on the report's recommendations, APS took steps to help its members mitigate its GHG emissions by offering them opportunities to donate to an environmental organization of their choice when registering for APS meetings. APS unveiled the pilot campaign in November by providing Division of Fluid Dynamics (DFD) members the ability to mitigate the effect of their travel.

Minimizing Risks of Proliferation

Commissioned by the APS Panel on Public Affairs, the report, ["Neutrons for the Nation,"](#) was released, urging the Trump Administration to begin an effort to design and build a new low-enriched uranium-fueled research reactor for neutron research and development in order to maintain U.S. leadership. That goal has now been publicly embraced by the National Institute of Standards and Technology (NIST).

Advocating for Physicists Abroad

Through its Committee on International Freedom of Scientists (CIFS), APS advocated for the human rights of scientists around the world. APS leaders wrote letters of support for cases involving political prisoners in the Middle East, as well as for scientists seeking asylum in the United States. Likewise, APS continues to participate in the American Association for the Advancement of Science (AAAS) Science and Human Rights Coalition, a network of scientific associations and societies that facilitates communication and cooperation on human rights within the scientific community.

Share the Excitement of Physics and Communicate the Essential Role Physics Plays in the Modern World

Brazil and India Physics Student Exchange Program

The United States and APS host many graduate students from India and Brazil, but few U.S. students have the opportunity to experience Indian or Brazilian science, culture, and people through exchange programs. Consequently, in partnership with the Indo-U.S. Science and Technology Forum (IUSSTF) and the Sociedade Brasileira de Física (SBF), APS offered the Brazil & India Physics Student Exchange Programs. These exchange programs enabled 14 graduate students to work in India or Brazil with a professor in their field of study, for a month to a full semester.



Industrial Physics Is a Technology Engine for the U.S. Economy

Approximately 12.6% of the U.S. GDP can be attributed to the practice of industrial physics as described in a [report](#) issued by the APS Industrial Physics Advisory Board. Labor statistics, industrial output, and other U.S. government data were analyzed by experienced economists to highlight impacts of industrial physics including employment, economic output, patents, and R&D investment.

PhysicsQuest and Spectra

2018 saw the 13th year of the APS PhysicsQuest program and the [10th issue](#) of *Spectra: The Original Laser Superhero* comic book. PhysicsQuest delivers a hands-on physics experience to middle school classrooms around the country, reaching 12% of middle schools in 2018. Students in these 20,000 classrooms learned about energy transformation through four hands-on activities. Kits contain all required materials, a student guide, a teacher guide, and a comic book—*Spectra's Energetic Escape*. Registration for the free kits filled up in a week.

The associated *Spectra* comic book uses the activities as part of a story featuring Spectra and her gang. This year they were put through the ringer by Nolen R. Gibbs (N.R.G.) as they tried to win tickets to see the latest boyband, the Free Radicals. The comics, which teach physics without using explicit pedagogy, are distributed both through the kits and through comic book conventions across the country.

Left: Conference for Undergraduate Women in Physics (CUWiP) at the University of Kansas. Students wave to the other participants as part of the plenary simulcast to all twelve sites. In 2018, the plenary speaker was Professor Patricia Burchat, who holds the Gabilan Professorship in the Physics Department at Stanford University. *Right:* CUWiP at Iowa State University. © Massimo Marengo



Eight Outreach Mini Grants Awarded

The Outreach Mini Grant program gives grants of up to \$10,000 to APS members interested in starting their own physics outreach programs. Eight grants were awarded in 2018. The 2017 awardees produced exciting results: [LabEscape](#), a physics-based escape room, is now traveling the country to lock people up and see if they

can use physics to escape. [Kirchoff's Revenge](#), an online game, is in production and can be previewed online. "Far from Equilibrium," a program combining modern dance and physics, has put on many shows to rave reviews.

Promote Effective Physics Education for All

Effective Practices in Physics Education

In 2018, APS was awarded more than \$2 million from NSF to complete the work on a guide that will provide resources for physics departments looking to improve their programs or prepare for external review. The guide, [Effective Practices for Physics Programs \(EP3\)](#), taps the collective wisdom of more than 150 individuals spanning all areas of undergraduate physics education. Through this guide, the task force behind this effort is providing an introduction to current research in education, combined with community knowledge, to help faculty members tackle common problems and improve physics department programs.

Workshops Abroad

In partnership with the Institute of Physics (IOP) and the Abdus Salam International Centre for Theoretical Physics (ICTP), APS co-sponsored “Entrepreneurship Workshops for Physicists and Engineers” for low-to-middle income countries at the ICTP in Trieste, Italy and in Sao Paulo, Brazil. Each workshop included approximately 60 participants and focused on developing entrepreneurial skills.



APS PIPELINE Program

The [APS PIPELINE](#) program, an NSF-funded effort which supports innovation and entrepreneurship education within physics, hosted a workshop for department chairs in June. Attendees learned a variety of physics innovation and entrepreneurship (PIE) approaches spanning four skill areas identified in the [Joint Task Force for Undergraduate Physics Programs Report](#) as essential for career preparation of undergraduate physics majors: communication skills, workforce relevant skills, and scientific and technical skills. Each attendee developed plans to implement three PIE approaches at their home institution over the coming academic year.

Get the Facts Out: Changing the Conversation Around STEM Teacher Recruitment

The nation needs more secondary math and science teachers, and research shows that nearly half of STEM majors have an interest in becoming a teacher, but may be discouraged by misperceptions about teaching as a career. APS, along with other STEM professional societies, has just begun an NSF-funded project to [Get the Facts Out](#) about STEM teaching, with the aim of recruiting more candidates to the profession. APS is helping to develop a toolkit for physics departments to promote positive and accurate messaging about the teaching profession.

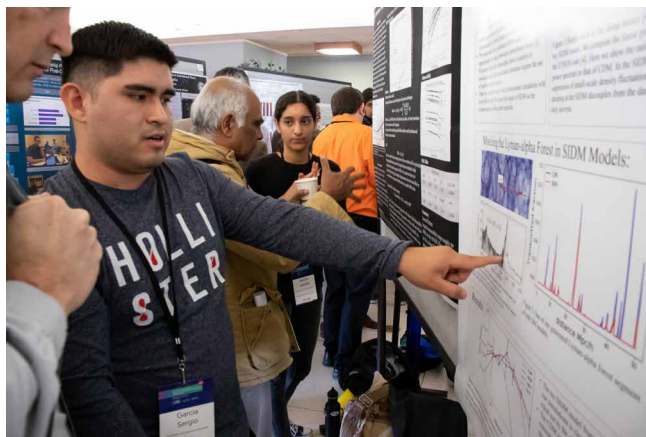
This effort will leverage and extend the work of the [Physics Teacher Education Coalition \(PhysTEC\)](#), a project of APS and the American Association of Physics Teachers (AAPT) to improve the preparation of future physics teachers. Get the Facts Out is a partnership of APS, AAPT, the Colorado School of Mines, the American Chemical Society, and the Mathematical Association of America.

Opposite page: APS Bridge Program student Keanna Jardine. *Right:* Student presenter at APS Bridge Program/National Mentoring Community Conference.

PhysTEC Thriving Programs Report

The [Physics Teacher Education Coalition \(PhysTEC\)](#) recently conducted a study of thriving physics teacher education programs, chosen for their ability to frequently graduate five or more physics teachers per year. The study identified common practices of these successful programs to create the [Physics Teacher Education Program Analysis \(PTEPA\)](#) rubric. The rubric evaluates the strength of physics teacher preparation programs and provides instruction on how to implement effective practices that will strengthen physics departments.

In fall 2018, APS began hosting webinars that aim to introduce the study and guide physics departments through the rubric in hopes of engaging the PhysTEC community and the broader physics education community in activities that encourage improvement within their programs.



Finances

DECEMBER 31, 2018

During the fiscal year 2018, the total assets of the American Physical Society increased from \$213.1M to \$214.3M, while the Society's liabilities increased to \$35.0M from \$32.5M the previous year.

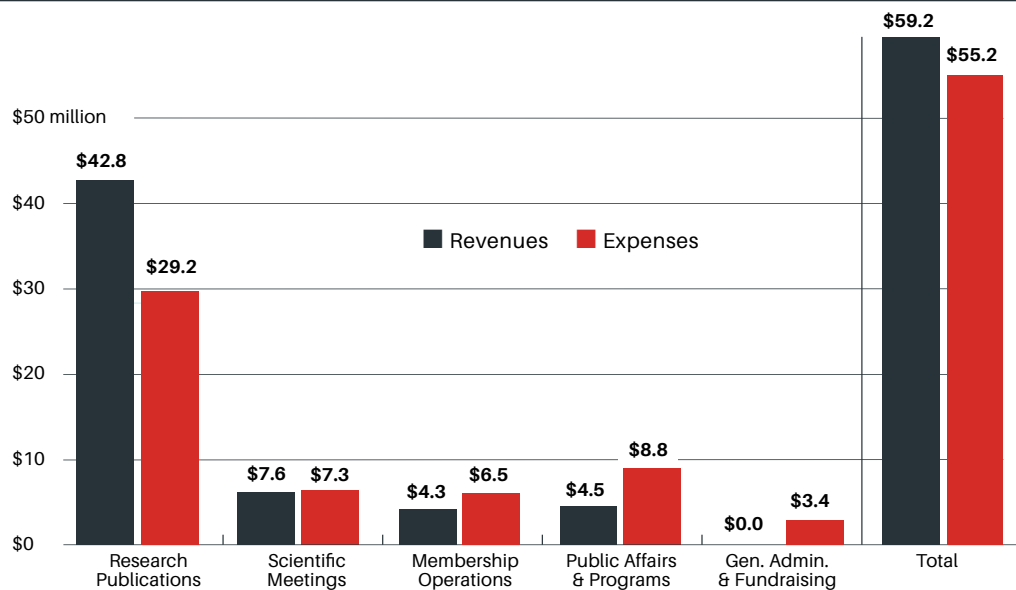
The tables and charts in this section summarize the financial operations of the Society as of December 31, 2018. The table headed Statement of Financial Position shows the final financial position of the Society for 2018 and 2017. The table headed Statement of Activities shows the financial activities of the various components of the Society for the 2018 and 2017 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 2018 were \$179.3M, compared with \$180.6M at the end of 2017. These include \$17.1M in net assets with donor restrictions, which are funds for prizes and awards and other programs. The net assets with donor restrictions increased by \$0.6M. Board designated funds increased from \$4.5M to \$6.5M primarily due to additional funds committed to support technology initiatives. Undesignated net assets without donor restrictions decreased by \$3.8M.

Cash and equivalents equaled \$24.4M at the end of 2018 while investments (held primarily in equities and fixed income issues) were valued at \$164.5M at the end of 2018.

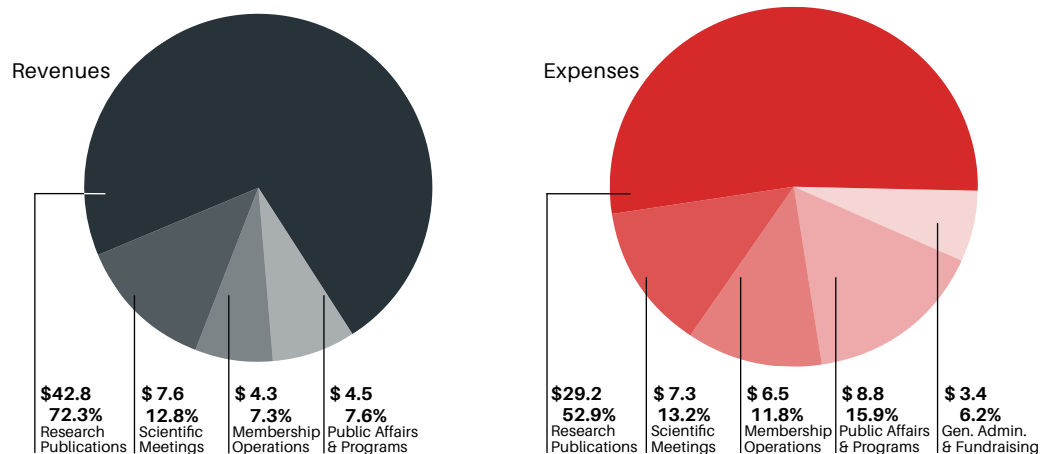
OPERATING REVENUE AND EXPENSES

(in \$M)



STATEMENT OF ACTIVITIES

(in \$M)



STATEMENT OF FINANCIAL POSITION

DECEMBER 31, 2018 AND 2017

	2018	2017
ASSETS		
Cash and cash equivalents	\$ 24,377,124	\$ 15,598,836
Investments, at fair value	164,503,016	173,319,702
Accounts receivable, net of allowance for doubtful accounts of \$56,500 in 2018 and 2017	1,773,693	1,143,011
Pledges receivable, net	434,809	803,290
Prepaid expenses and other assets	987,033	792,372
Equity interest in American Center for Physics	4,584,866	3,312,990
Land, building and equipment, net	17,131,560	17,559,020
Beneficial interest in perpetual trust	549,734	578,068
Total assets	\$ 214,341,835	\$ 213,107,289
LIABILITIES AND NET ASSETS		
Liabilities		
Accounts payable and accrued expenses	\$ 5,796,810	\$ 4,215,107
Deferred revenues:		
Publications	13,705,458	10,087,861
Membership dues	2,904,997	2,838,900
Other	707,286	615,879
Liability for post-retirement medical benefits	11,889,485	14,751,926
Total liabilities	35,004,036	32,509,673
Net assets		
Without donor restrictions		
Undesignated	155,753,936	159,566,385
Designated by Board	6,489,642	4,541,252
With donor restrictions		
Purpose restrictions	4,603,591	4,093,444
Perpetual by nature	12,490,630	12,396,535
Total net assets	179,337,799	180,597,616
Total liabilities and net assets	\$ 214,341,835	\$ 213,107,289

STATEMENT OF ACTIVITIES

DECEMBER 31, 2018 AND 2017

	2018	2017
NET ASSETS WITHOUT DONOR RESTRICTIONS		
Revenues		
Research publications	\$ 42,822,902	\$ 41,391,898
Scientific meetings	7,571,853	7,220,886
Membership operations	4,275,877	4,283,381
Public affairs and programs	3,679,603	2,273,516
Net assets released from restrictions	1,022,465	1,039,305
	59,372,700	56,208,986
Expenses		
Program services		
Research publications	29,216,719	30,366,594
Scientific meetings	7,340,651	7,015,478
Membership operations	6,489,003	6,333,460
Public affairs and programs	8,110,468	6,931,258
Prizes and related costs	616,962	769,583
Total program services	51,773,803	51,416,373
Supporting services		
General and administrative	2,558,835	2,670,479
Fundraising	883,777	773,132
Total supporting services	3,442,612	3,443,611
Total expenses	55,216,415	54,859,984
Income from operations	4,156,285	1,349,002
Non-operating activities		
Income from investments	4,080,162	3,407,477
Net unrealized gain (loss) on investments	(15,749,243)	17,580,115
Net realized gain on investments	2,310,754	2,915,368
Equity interest in American Center for Physics	1,271,876	(71,649)
Change in post-retirement medical benefits other than net periodic post-retirement medical benefit cost	2,066,107	8,321,569
	(6,020,344)	32,152,880
Change in net assets without donor restrictions	(1,864,059)	33,501,882
NET ASSETS WITH DONOR RESTRICTIONS		
Contributions	816,742	1,671,819
Income from investments	838,299	762,683
(Loss) gain on beneficial interest in perpetual trust	(28,334)	19,452
Net assets released from restrictions	(1,022,465)	(1,039,305)
Change in net assets with donor restrictions	604,242	1,414,649
Change in net assets	\$ (1,259,817)	\$ 34,916,531

APS Philanthropic Partners

APS is grateful for gifts and pledges received in support of its mission to advance and diffuse the knowledge of physics for the benefit of our scientific community and society at large. Since membership dues cover the cost of member services only, APS depends in large part on contributions in order to provide vital programs in the areas of Education and Diversity, Public Engagement, Government Affairs, International Affairs, Honors, and the Matching Membership Program.

Through our Leadership Circle, we are honored to recognize donors whose giving to APS totals \$100,000 or more over the past ten years.

APS LEGACY CIRCLE

The APS Legacy Circle recognizes donors who support the Society's mission through planned giving. By including APS in their estate plans, these forward-thinking individuals create an enduring legacy that will benefit researchers, educators, students, and the general public.

We sincerely thank the following members and friends for helping to sustain a bright future for the scientific community. Those in **bold** are bequests that have been realized.

Anonymous (1)	Theodore W. Hodapp
Charlotte Anderson	Jay Jones
Jean Dickey Apker	Beatrice Lilienfeld
Robert Bachrach	John J. Rehr
Bert Brown	Robert Stanek
Esther Hoffman Beller	Aleksandar Svager
M. Hildred Blewett	David Sward
Mary and Rudolph Chope	George O. Zimmerman and Isa Kaftal Zimmerman

LEADERSHIP CIRCLE

DONORS WHOSE GIVING TOTALS \$100,000 AND ABOVE OVER THE PAST TEN YEARS

Anonymous (1)	Frances Hellman and Warren Breslau
Jay Jones	Rosa Ovshinsky
Charlotte Marie Anderson	Jonathan F. Reichert and Barbara Wolff-Reichert
David Braslau	Family of J.J. and Noriko Sakurai
Mr. and Mrs. Kenton R. Brown	Kip Thorne and Rainer Weiss
Family of Richard L. Greene	

AIP Publishing, <i>The Journal of Chemical Physics</i>	KEK, High Energy Accelerator Research Organization
Argonne National Laboratory	Lilienfeld Trust
Brookhaven National Laboratory	Los Alamos National Laboratory
CERN	M Squared Lasers
Deutsches Elektronen-Synchrotron	Oak Ridge National Laboratory
Dow Consumer Solutions	Research Corporation for Science Advancement
Eucalyptus Foundation	Richard Lounsbery Foundation
Fermi National Accelerator Laboratory	Sandia National Laboratories
Gordon and Betty Moore Foundation	SLAC National Accelerator Laboratory
HTC-VIA Group	Thorlabs, Inc.
IBM	TOPTICA Photonics, Inc.
The Kavli Foundation	

APS 2018 Donors

Names in Green: Made annual contributions over the last ten years totaling \$10,000 or more

Names in Blue: Made annual contributions over the last ten years totaling \$2,500 or more

\$100,000 and above

Anonymous (1)

Richard Lounsbery Foundation

\$10,000 to \$99,999

Anonymous (1)

Andreas Acrivos

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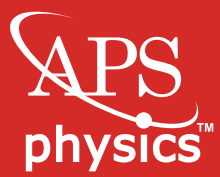
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