



2016 Annual Report

Overview & Strategy

Unifying Fields: Science Driving Innovation

AIP

American Institute
of Physics

A Message From AIP's CEO

AIP has always been committed to serving its Member Societies and the larger physical science community, and 2016 was no exception. In fact, we redoubled our dedication to this basic mission of the Institute, and in addition to fulfilling our suite of existing programs, benefits and services in 2016, we spent a lot of effort asking: How do we make those things better? We also asked if there were new programs and services we could offer and how to better communicate everything we are doing and offering to our Member Societies. Looking back at the past year, it's remarkable how far we've come.

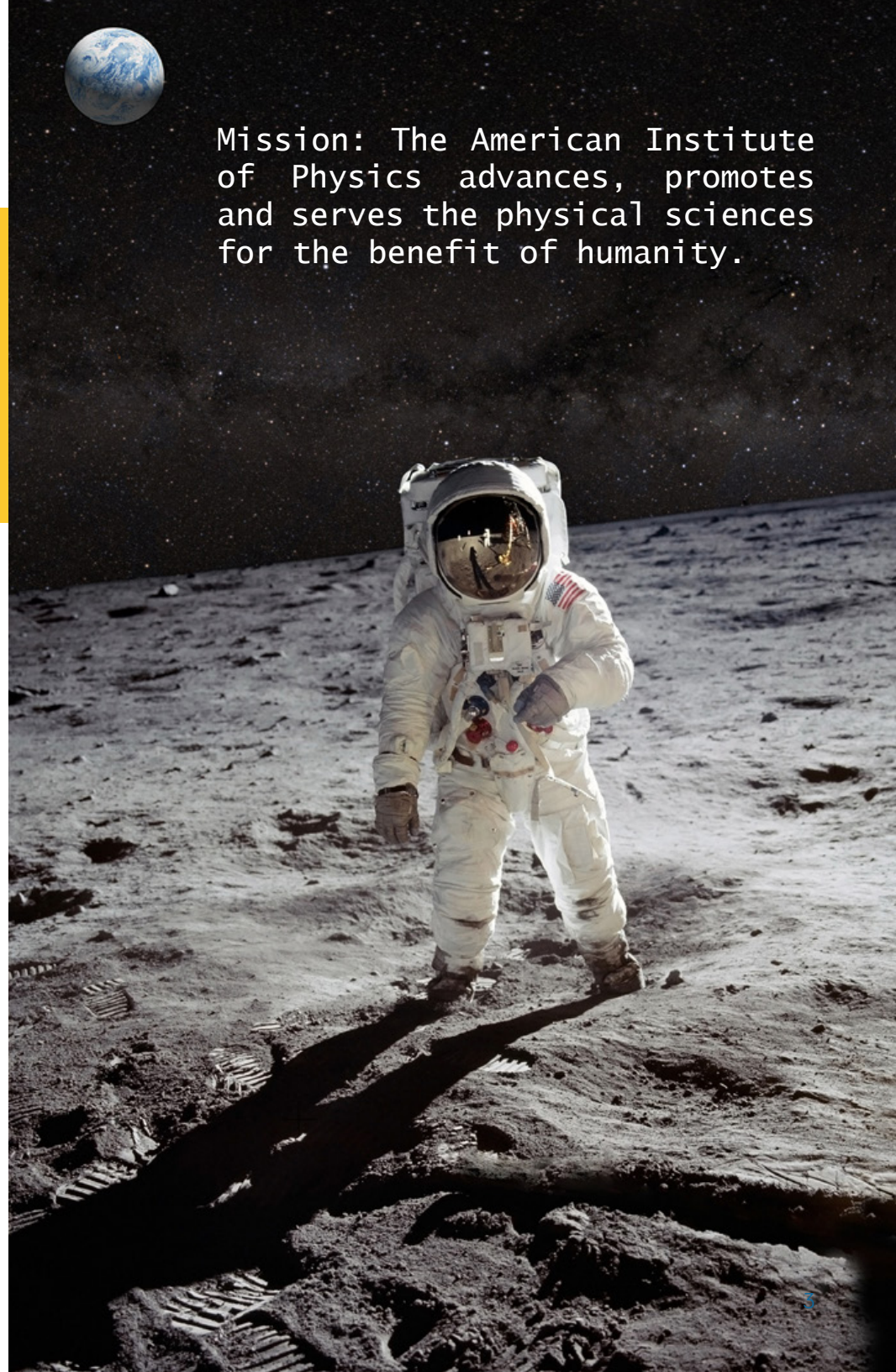


We began the year by launching an effort to create a comprehensive strategic plan, setting overarching goals for the Institute, establishing dozens of specific subgoals for our programs and defining key performance indicators to measure our progress. At the end of the year, we were focused on refining the strategic plan and implementing a business cycle whereby new and existing programs would be tracked through routine measures and in some cases through targeted market research. These programs will be evaluated by AIP leadership and its Board and can be launched, tested, halted or modified as needed, all to better serve our stakeholders.

By design, any good strategic planning process should never be a finite narrative defined by a beginning, a middle and an end. Strategy has no finite end but rather is a continual process in which a culture—our culture at AIP—constantly seeks to rethink, rework and renew itself as it goes about planning for the future. Nor is strategy about one-way discourse. AIP's leadership has not set out to dictate anything to its Member Societies, our Board, our staff or the larger community. Rather, in 2016 we were in conversation, both cyclic and continuous, on how best to fulfill our mission to advance, promote and serve the physical sciences for the benefit of humanity.

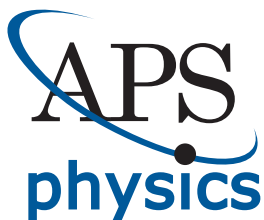
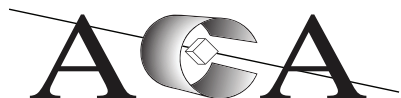
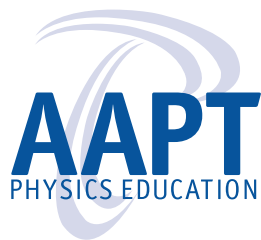
Robert G.W. Brown, PhD
2016 CEO, American Institute of Physics

Mission: The American Institute of Physics advances, promotes and serves the physical sciences for the benefit of humanity.



AIP's Member Societies in 2016

Representing the spectrum of the physical sciences, AIP's Member Societies are the backbone of the Institute. AIP supports them with programs and professional services, benefits for members and competitively priced employee benefits.



Explore AIP Member Society Benefits <https://www.aip.org/member-benefits#>

Listening to Our Member Societies

In 2016 we made a concerted effort to increase our communication efforts to help our societies better understand and utilize our offerings, help us identify unmet needs and improve the Member Society value proposition.

Three New Pilot Projects in 2016

- 1 Government relations** – a significant expansion of offerings.
- 2 Media Services** – \$5,000 free services to Member Societies.
- 3 FYI Science Policy News** – expanded suite of products.



We engaged in market research to better understand customer desires, define our potential for growth, gauge the competition and make evidence-based decisions.

Members of the AIP Board of Directors

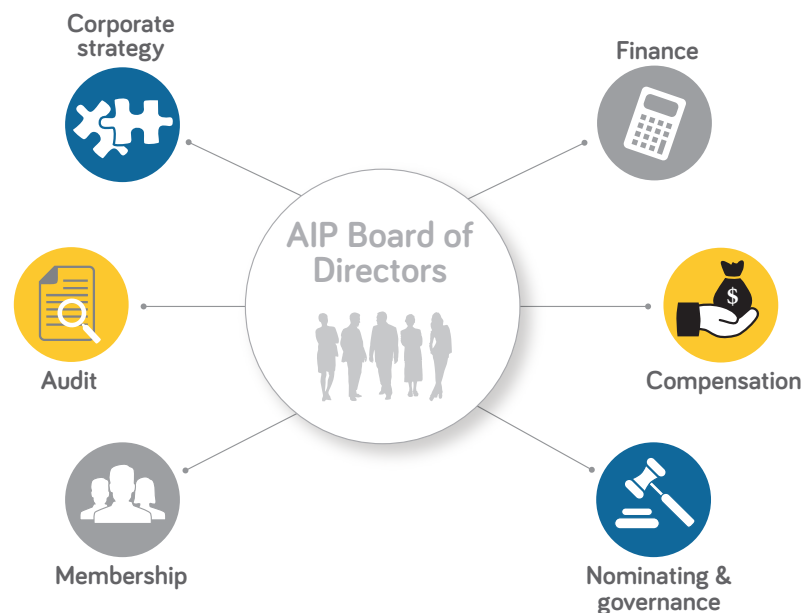
The Board is comprised of the **Chair, AIP CEO, Corporate Secretary,** one **Director** from each Member Society, a **Board-Elected Treasurer** and up to four **At-Large Directors**.

David Surman, Chair	American Crystallographic Association
Robert G.W. Brown, Chief Executive Officer	Charles Carter
Judith Flippen-Anderson, Corporate Secretary	American Meteorological Society
	Dian Seidel
Acoustical Society of America	American Physical Society
Judy R. Dubno	Kate Kirby
American Association of Physicists in Medicine	AVS - The Science & Technology Society
J. Daniel Bourland	Rudolf Ludeke
American Association of Physics Teachers	The Optical Society
Beth Cunningham	Michael D. Duncan, Treasurer
American Astronomical Society	The Society of Rheology
David J. Helfand	Faith Morrison
	Member At Large
	John Kent

(Board as of December 2016)

Key Committees of the Board

The Board provides **active strategic leadership** of the Institute and is devoted to ensuring that AIP maintains a high value proposition for the Member Societies. It also helps AIP keep pace with the fast-changing needs of the global science community, especially in the areas of communication, education and outreach.



Members of the AIP Publishing Board of Managers

Greg Tananbaum, Acting Chair	A. Jeffrey Giacomini
John Haynes, Chief Executive Officer	Marsha Lester
Robert G.W. Brown	James Lynch
David Campbell	Ivan Petrov
Beth Cunningham	John Regazzi
Judith Flippen-Anderson	Alan Singleton

(Board as of December 2016)

Consolidated Financial Overview *(In the Thousands)*

	2016	2015	2014
Investments	\$144,376	\$136,794	\$140,231
Total assets	\$204,996	\$196,956	\$200,086
Unrestricted net assets	\$150,271	\$141,895	\$141,193
Annual investment return	7.2%	-1.2%	4.1%
Total revenue	\$67,643	\$67,756	\$68,312
AIP Publishing, net	\$15,719	\$14,951	\$11,756
AIP programs, net	(\$9,801)	(\$10,836)	(\$9,627)
Net operating revenue	\$5,918	\$4,115	\$2,129

As a federation of physical science societies, AIP offers programs, products and services that

- » Advance and distribute the knowledge of the physical sciences and its applications;
- » Enhance and cultivate the physical sciences disciplines;
- » Enable and foster collaborative efforts among stakeholders in the physical sciences; and
- » Promote the physical sciences to the public, leaders, government officials, agencies and the media.

Our Flagship Magazine

PHYSICS TODAY

February 2016 • volume 69, number 2

A publication of the American Institute of Physics

AIP publishes *Physics Today*, the most influential magazine in the physical sciences. 2016 saw a new design for the print magazine and a new platform for the website.



Mt. Paektu under study

Diffraction-unlimited
ultrasound

Spinning rings and
spinning spheres

Francis Ronalds's
electrostatic telegraph

Serving the Workforce

Through our **Career Resources** and in conjunction with our Member Society partners, AIP is committed to supporting the physical science community by offering tips and tools for job seekers at every career level and listing job opportunities. While most opportunities are in academia, other employers include Google, Janis Research, Lawrence Berkeley and Sandia National Laboratories.

Career Network Jobs, by the Numbers

3,300 searchable
jobs listed

3% increase over 2015

9,700 active job seekers

~50% of job seekers
have PhDs

1,200 people registered
for three Career Network on-
line seminars on Outstanding
Oral Presentations, Women
in **STEM** and Preparing a
Winning Poster



Discover AIP's Career Resources at <https://www.aip.org/career-resources>

Society of Physics Students

Perhaps the biggest program highlight of the year was the **2016 Quadrennial Congress of Sigma Pi Sigma**.



**phys
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2016 Quadrennial Physics Congress



With the **2016 Quadrennial Congress of Sigma Pi Sigma**, we far surpassed our goal for attendance and achieved the maximum capacity of 1,200 attendees. To the best of our knowledge, it was the largest single gathering of undergraduate physics and astronomy majors in the world, ever.



Breaking News & Science Policy Analysis

AIP supports the physical sciences and serves the public good by providing cutting-edge news products and science policy analysis, informing and helping the community to achieve national science policy objectives. Some of our activities:

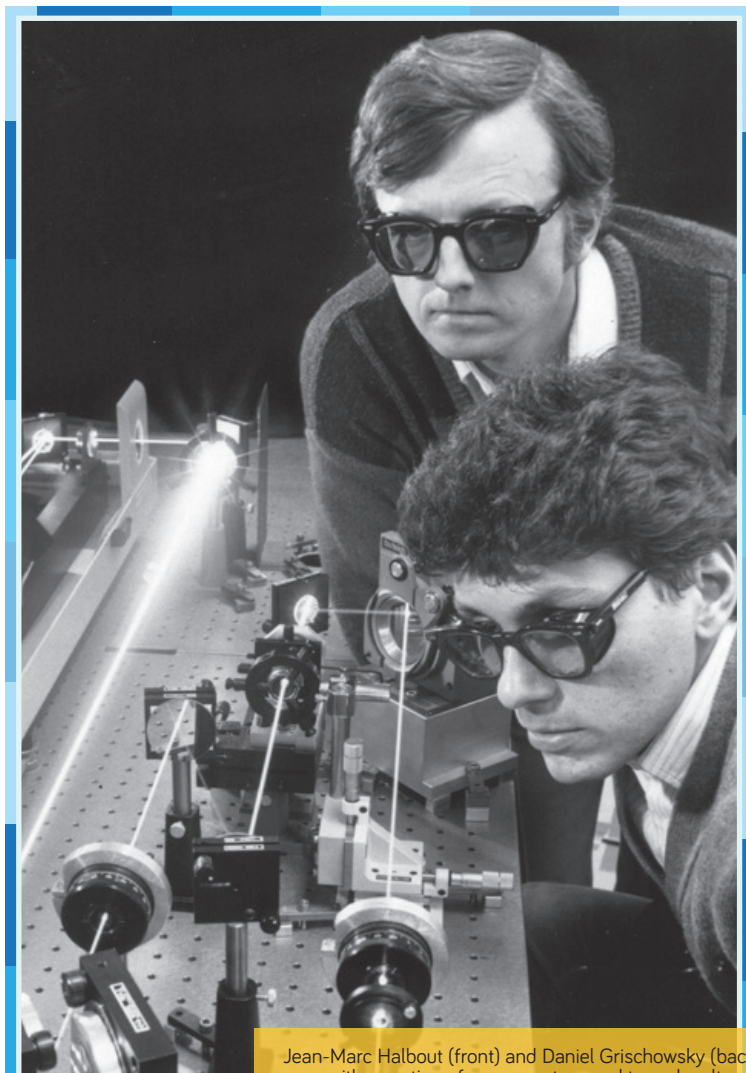
- » **Government Fellowships** – one-year placements for PhD scientists at the U.S. Department of State and in a Congressional office;
- » **Media Services** – press releases, press conferences, webcasts and promotional videos custom tailored for our Member Societies;
- » **FYI** – an authoritative news and resource center for federal science policy, with a focus on the physical sciences; and
- » **Inside Science** – our general-audience nonprofit science journalism venture, with video and written story formats.



FYI and Government Relations <https://www.aip.org/policy>
News and Media Services <https://www.aip.org/science-news>

Serving the Community

The American Institute of Physics is committed to the preservation of the physical sciences for future generations, the success of physics students both educationally and professionally, and the promotion of a more scientifically literate society.



Jean-Marc Halbout (front) and Daniel Grischowsky (back) seen with a portion of an apparatus used to make ultra-short pulses. Credit: IBM, courtesy AIP Emilio Segrè Visual Archives.

Message From the Chair


When the American Institute of Physics first opened its doors in Manhattan in the early 1930s, it comprised five scientific societies with a combined 4,000 members between them. Suffering through the financial throes of the Great Depression, the Societies had come together out of necessity, forming a federation, pooling their publishing resources and forever changing the communities of the physical sciences.

For decades, oversight of AIP fell to two separate bodies: a Board of Governors composed of representatives from AIP's Member Societies and a smaller Executive Committee drawn from the same. Over the years, as AIP grew, our Board expanded as well. AIP now has 10 Member Societies with a collective 120,000 members. By the beginning of this decade the Board had grown to more than 40 governors. So, seven years ago, we embarked on a deliberate, directed restructuring of our governance including a wholesale revision of AIP's bylaws that allowed us to dissolve the old Board and reseat a new 15 member Board of Directors. This evolution into a smaller, more agile body was a huge step forward, but our purpose has not changed. Now, more than ever, we aim to provide active strategic leadership of AIP.

These are exciting times at the Institute. We have evolved new strategic goals and initiatives, a renewed focus on business and revenue and a reinvigorated effort to serve the Member Societies. On the Board we are looking forward to the future. We are expecting great strides in the coming years as we look to grow the federation, add new societies, increase the impact of programs like the Niels Bohr Library & Archives and aim to make the Institute the premiere resource for the physical sciences community.



David Surman, PhD
Chair, AIP Board of Directors



AIP is a 501(c)(3) membership corporation of physical science societies with an annual budget exceeding \$25M and serving a combined membership of approximately 120,000 scientists, engineers and students. AIP is managed by a Board of Directors.

AIP owns AIP Publishing LLC, a subsidiary with an annual budget exceeding \$50M. The wholly owned subsidiary is governed by a Board of Managers, which is distinct from AIP's governing body, the AIP Board of Directors.

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The American Center for Physics building in College Park, Maryland, which opened in 1993, is home to the American Institute of Physics. Photo by J.Bardi/AIP