GET CONNECTED WITH OPPORTUNITIES

SPS programs emerge from several commitments that the society has made to issues central to helping students transform themselves into contributing members of the professional community. Programs are funded by generous donations of alumni and underwritten by the American Institute of Physics. For information about how you can contribute, see https://donate.aip.org.

SPS Programs: Major Society Initiatives

Commitment to Encouraging Diversity: The Future Faces of Physics

www.spsnational.org/programs/futurefaces
The Future Faces of Physics campaign was launched in 2006 by the SPS National Council to spur SPS and Sigma Pi Sigma to address the issue of underrepresented groups in physics. There are several components:

Statement on Diversity
In October 2009, the SPS National Council adopted the following statement on diversity:

“The Society of Physics Students recognizes that there is a vast untapped intellectual resource in all groups underrepresented in physics. For this reason, the Society of Physics Students is committed to making physics more accessible to everyone. We are committed to providing programs, resources, and opportunities that encourage greater participation in the community of physics from members of all groups.”

Future Faces of Physics Quiz Game
The Future Faces of Physics quiz game is a good way to engage SPS members in fun, informal, and nonthreatening discussions about diversity. This Jeopardy-like game features questions about physics, the physics community, and physics in popular culture. Several versions are available for downloading at www.spsnational.org/programs/futurefaces/jeopardy.

Future Faces of Physics Award (see page 20)

Commitment to Promoting Undergraduate Participation in Research

The need for students to participate in meaningful, hands-on, open-ended research has become an imperative for completing a robust undergraduate education in physics. SPS provides support for this initiative in a variety of ways, for example:

Statement on Undergraduate Research
In 2008, the SPS National Council joined with other professional organizations in support of advocating research for undergraduate students and released the following statement on undergraduate research:

“We advocate that every student majoring in physics and/or astronomy engage in a meaningful undergraduate research experience.”

Summer Research Opportunity Clearinghouse
Beginning in 2015, the summer research opportunity clearinghouse will be housed on SPS Jobs, http://jobs.spsnational.org/. The clearinghouse is the most complete online listing of summer opportunities for students in physics and related fields.

JURP: Journal of Undergraduate Research in Physics
The SPS online journal, JURP, is the only peer-reviewed physics journal devoted solely to the dissemination of work accomplished by undergraduate students and their mentors. JURP is currently on a temporary hiatus while it is restructured. Information about relaunch will be available soon. More information is available at http://www.jurp.org.

SPS Travel Awards and Research Awards (see page 22)

Commitment to Increasing Science Literacy and Public Engagement

SPS chapters have a long history of engaging the public through science outreach, and SPS National has a long history of supporting these activities. At the 2012 Quadrennial Physics Congress of Sigma Pi Sigma, attendees affirmed through a chapter vote that “supporting society outreach and communicating with the public” should be the most important area of service for the two societies. SPS has a number of programs and awards to this end, for example:
Commitment to Creating Opportunities for Career Preparation & Professional Development

The mission of SPS includes helping students transform into contributing members of the physics community. Whether deciding on a major or figuring out what to do after graduating with a bachelor's degree, SPS is committed to providing students with the most up-to-date resources through several avenues:

The Career Pathways Project
The American Institute of Physics, through SPS and the AIP Statistical Research Center, received a grant from the National Science Foundation (NSF) to study how physics departments can better prepare students to enter the science, technology, engineering, and mathematics (STEM) workforce. Several site visits of successful departments have provided insight into best practices for this, which are being disseminated through articles and workshops at Member Societies and SPS Zone meetings.

The Careers Toolbox for Undergraduate Physics Students
www.spsnational.org/careerstoolbox/
The Careers Toolbox for Undergraduate Physics Students, a product of the Career Pathways Project, is a set of eight tools that guide students through exploring their career options and preparing for success in the job search. SPS has hosted several Careers Toolbox workshops around the country and more are planned for 2014-15. The Careers Toolbox materials are also available online.

Physics is For You (PIFY)
This informational brochure is useful for students early in their physics journey. The PIFY starts with a basic overview of the science of physics and then details the many opportunities available to students who study physics. This is a fantastic recruiting tool for chapters and departments. The brochure is sold at cost for use in recruiting and is available on the SPS website.

After Graduation: The SPS Jobs Site and GradSchoolShopper
Whether entering the STEM workforce after the bachelor's degree or seeking advanced educational opportunities, SPS has resources to help guide students through two major partnerships:

- The SPS Jobs Site features job postings that are geared toward physics bachelor's degree recipients. jobs.spsnational.org
- GradSchoolShopper.com is the only online graduate school guide exclusively dedicated to physics, astronomy, and related fields. Visitors to the site can search on several fields (degree program, degree type, geographic location, etc.) and compare and contrast different programs. A print directory of the database, Graduate Programs in Physics, Astronomy, and Related Fields, is published annually by AIP and mailed at no cost to all SPS chapter advisors. www.gradschoolshopper.com

CAREERS USING PHYSICS (CUP)
www.spsnational.org/cup
CUP is a section of the SPS National website where visitors can explore the various career options open to those who study physics through profiles, tips, resources, and articles. Resources developed through the AIP Career Pathways Project are currently being added to CUP.

The SPS Summer Internship Program
www.spsnational.org/programs/internships
Each summer, SPS National offers several (8-12) summer opportunities for SPS members in research, outreach, education, and policy. The internships are based in the Washington, DC, area at the American Institute of Physics and partner organizations. In addition to working with their host organization, interns participate in several educational and professional development activities throughout the summer. These 9.5 week competitive internships are awarded based on academic scholarship, SPS participation, and relevant experience. Students are supported with a generous stipend, paid housing, travel to Washington, DC, and support to present their work at a national physics meeting. The annual application deadline is February 1.

SPS Programs: Scholarships for Outstanding Academic Performance

Applications due February 15
*Note that if an application deadline falls on a weekend or federal holiday, applications are due the following Monday. www.spsnational.org/programs/scholarships

SPS Outreach Awards (see page 22)
The SPS Leadership Scholarship
• Several $2000-$5000 awards may be made each year
• Applicants must be in their junior year of study
• Awarded on the basis of academic performance and leadership in SPS

The Herbert Levy Scholarship
• One $2000 award may be made each year
• Awarded to undergraduate students on the basis of scholarship, SPS participation, and financial need
• Established in the memory of the late Dr. Herbert Levy, by Margaret Sussman Levy

The Future Teacher Scholarship
• One $2000 award may be made each year
• Awarded to undergraduate students on the basis of scholarship, SPS participation, and a stated teaching career objective

The Peggy Dixon Two-Year Scholarship
• One $2000 award may be made each year
• Awarded to undergraduate students on the basis of scholarship, SPS participation, and attendance at a two-year college
• Established in the memory of the late Dr. Peggy Dixon

The Kirsten R. Lorentzen Award
• One $2,000 award is made each year; recipient is also invited to attend a professional physics meeting in the year following receipt of the award
• Awarded to a female student in her sophomore or junior year of study
• Awarded to an exceptionally well-rounded student who excels in her studies as well as outdoor activities, service, sports, music, or other non-academic pursuits or who has overcome significant obstacles
• The Lorentzen Award is an Association for Women in Science (AWIS) Educational Foundation program administered by SPS

In partnership with the Association for Women in Science (AWIS), SPS began administering the Kirsten R. Lorentzen Award in 2014.

SPS Programs:
Awards for Chapters

www.spsnational.org/programs/awards

*Note that if an application deadline falls on a weekend or federal holiday, applications are due the following Monday.

The Future Faces of Physics Award
Applications due October 15
• Several awards of up to $300 may be made each year
• Awarded to chapters for activities that promote physics across cultures

The Marsh W. White Award
Applications due November 15
• Several awards of up to $300 may be made each year
• Awarded to chapters for physics outreach activities to grades K-12 and the general public

SPS Chapter Research Award
Formerly the Sigma Pi Sigma Undergraduate Research Award
Applications due November 15
• Several awards of up to $2000 may be made each year
• Awarded for chapter physics research projects

The Blake Lilly Prize
Applications due April 15
• Several awards may be made each year
• Winners receive the three-volume set of The Feynman Lectures on Physics and a certificate
• Awarded to chapters or individuals that engage in physics outreach activities and submit a report about the activity
• Established in the memory of the late Blake Lilly, by his parents

The SPS Outstanding Chapter Award
Annual chapter reports serve as applications—due June 15
• Several awards may be made in each zone every year
• Winners receive a certificate and national recognition
• Awarded to chapters that demonstrate active involvement on the local, zone, and national levels in keeping with the mission of SPS in their annual chapter report
**SPS Programs: Awards for Individuals**

[www.spsnational.org/programs/awards](http://www.spsnational.org/programs/awards)

*Note that if an application deadline falls on a weekend or federal holiday, applications are due the following Monday.*

**The Outstanding SPS Chapter Advisor Award**
(The most prestigious award that SPS offers)
Applications due April 15
- One award is made each year to a chapter advisor nominated by his or her students
- Winners receive $5000 to be divided three ways: 60% to the chapter advisor, 20% to the chapter, and 20% to the department
- Awarded to a chapter advisor whose chapter has received an Outstanding Chapter Award within the preceding two years during their tenure as SPS chapter advisor, on the basis of the leadership, student leadership development, support, and encouragement the advisor has provided to the chapter

**SPS Award for Outstanding Undergraduate Research**
Formerly the Outstanding Student Award for Undergraduate Research
Applications due March 15
- Two or more awards may be made each year
- Awarded to individuals on the basis of their research, letters of recommendation, and SPS participation
- Winners received a free trip to attend and present their research at the International Conference of Physics Students (ICPS), usually held in Europe; are encouraged to give a presentation in an SPS research session at a national physics meeting; and receive a $500 honorarium for themselves and a $500 honorarium for their SPS chapter

**The Blake Lilly Prize**
Applications due April 15
- Several awards may be made each year
- Winners receive the three-volume set of *The Feynman Lectures on Physics* and a certificate
- Awarded to chapters or individuals that engage in physics outreach activities and submit a report about the activity
- Established in the memory of the late Blake Lilly, by his parents

**The SPS Travel Award**
Applications are accepted on a rolling basis
- Several $200 awards may be made each year for a variety of meetings
- Awarded to SPS members presenting their research at AIP Member Society national meetings
- Awarded to undergraduates on a first-come first-served basis

**The SPS Reporter Award**
Applications are accepted on a rolling basis
- Several $200 awards may be made each year for a variety of meetings
- Awarded to SPS members reporting on national professional physics meetings for SPS publications
- Awarded to undergraduates on a first-come first-served basis

**Sigma Pi Sigma: Programs & Awards**

Sigma Pi Sigma programs emerge from its mission to honor outstanding scholarship in physics; to encourage interest in physics among students at all levels; to promote an attitude of service of its members toward their fellow students, colleagues, and the public; and to provide a fellowship of persons who have excelled in physics. Programs are funded by generous donations of alumni and underwritten by the American Institute of Physics. To learn how you can contribute, see [https://donate.aip.org](https://donate.aip.org).

**Sigma Pi Sigma Programs:**

**Service to High School Physics Classes**

**Adopt-a-Physicist**
[www.adoptaphysicist.org](http://www.adoptaphysicist.org)

Each Fall, Adopt-a-Physicist connects high school students to real physics graduates, recruited primarily from among the Sigma Pi Sigma membership, who are eager to share their stories as a means of helping students understand the benefits of studying physics and the career opportunities it provides. Working in areas ranging from particle physics research to freelance writing, the participating physicists embody a huge range of careers, backgrounds, interests, and educational levels. Adopt-a-Physicist connects classes with the physicists of their choice through online discussion forums that are active for a set, three-week session.

**Sigma Pi Sigma Programs: Awards**

[www.sigmapisigma.org/awards/](http://www.sigmapisigma.org/awards/)

**Worth Seagondollar Award**
(The most prestigious award offered by Sigma Pi Sigma)
No set award cycle
- Recipients receive a medal and certificate
- Awarded to individuals who have served on the SPS National Council or Executive Committee and demonstrated extraordinary levels of service and commitment to Sigma Pi Sigma and the Society of Physics Students
- Nominations may be submitted by members of Sigma Pi Sigma or the SPS National Council, and selection requires a unanimous vote of the SPS Executive Committee

**Sigma Pi Sigma Outstanding Service Award**
No set award cycle
- Recipients receive a certificate
- Awarded to individuals who have performed meritorious service to the field of physics, to Sigma Pi Sigma, or to a local Sigma Pi Sigma chapter
- Awards can be bestowed by individual chapters and do not need approval from SPS National

**Sigma Pi Sigma Chapter Project Awards**
Applications due December 15
- Several awards of up to $500 may be made each year
- Awarded to Sigma Pi Sigma chapters for funding of chapter inductions and events that aim to engage alumni or expand the recognition of Sigma Pi Sigma within the campus and surrounding community
Applying for SPS Awards & Programs

Online Application System

All applications and proposals for SPS and Sigma Pi Sigma awards and programs, with the exception of the Outstanding Chapter Award, are handled through an online system. Details on how to apply and a link to the online application system are available on the award webpages, http://www.spsnational.org/programs/awards/.

SPS & Sigma Pi Sigma: Award and Scholarship Deadlines

Note that if an application deadline falls on a weekend or federal holiday, applications are due the following Monday. SPS Travel Award and Reporter Award applications are accepted on a rolling basis.

See the SPS website for details http://www.spsnational.org/programs/awards.

October 15
Proposal Deadline: Future Faces of Physics Award

November 15
Proposal Deadline: Marsh W. White Award
Proposal Deadline: SPS Chapter Research Award

December 15
Application Deadline: Sigma Pi Sigma Chapter Project Award

December 31
Final Report Deadline: 2013-14 SPS Chapter Research Award Recipients

February 1
Application Deadline: SPS Summer Internships

February 15
Application Deadline: SPS Scholarships

March 15
Application Deadline: SPS Award for Outstanding Undergraduate Research

April 15
Nomination Deadline: Outstanding SPS Chapter Advisor
Application Deadline: Blake Lilly Prize

May 31
Final Report Deadline: Future Faces of Physics Award Recipients
Final Report Deadline: ΣΠΣ Chapter Project Award Recipients
Interim Report Deadline: SPS Chapter Research Award Recipients

June 15
Chapter Report Deadline (for consideration of Outstanding Chapter Award)

Advertise these opportunities in your department.
Flyers for each award are provided online at http://www.spsnational.org/governance/handbook.
Please print these and post them in student areas.
SPS Scholarships, Awards & Programs: 2013-14 Recipients

The 2014 SPS Scholarship Recipients

**Outstanding Leadership Scholarship**
Christian Bayens, University of North Alabama
Katrina Hanson, University of Wisconsin River Falls
Ashley Lindow, Grove City College

**Leadership Scholarship**
Meredith Gold, Brigham Young University
Nicole Johnson, Coe College
Christina Kreisch, Washington University in St. Louis
Sean McLaughlin, University of Illinois
Khadijih N. Mitchell, New Mexico State University
Prajwal Niraula, Saint Peter’s University
Kelby Peterson, Utah State University
Ben Pound, Utah State University
Richard Prince, University of Tennessee Knoxville

**Herbert Levy Scholarship**
Lauren Dallachiesa, Grove City College

**Future Teacher Scholarship**
Jerika Newitt, Brigham Young University

**Peggy Dixon Two-Year Scholarship**
Aaron Blasband, Collin Community College

**Kirsten R. Lorentzen Award Scholarship (AWIS)**
Angela Ludwigsen, University of Wisconsin River Falls

The SPS Award Recipients

**2013 Outstanding SPS Chapter Advisor**
Sharon Rosell, Central Washington University

**SPS Award for Outstanding Undergraduate Research**
Helen Meskhide, Elon University
Zoey Warecki, Towson University

Future Faces of Physics Award
Adelphi University
Cleveland State University
Colorado School of Mines
Drexel University
Indiana Wesleyan University
University of Michigan–Ann Arbor
Morehouse College
Sonoma State University
University of Southern Mississippi
University of Texas at San Antonio

Marsh W. White Award
Cleveland State University
Drexel University
Idaho State University
Ithaca College
New Mexico State University
Rhodes College
Sewanee: The University of the South
Sonoma State University
Texas State University
The College at Brockport, State University of New York
Towson University
Tuskegee University
United States Air Force Academy
University of Central Arkansas
University of Maryland–College Park
University of Southern Mississippi
University of Wisconsin Platteville

SPS Chapter Research Award
Goucher College
Kettering University
Saint Peter’s University
Sonoma State University
Tuskegee University
University of North Alabama

Blake Lilly Prize
College of Wooster
Rhodes College
University of Central Arkansas
2012-13 Outstanding SPS Chapters

Zone 1
Gordon College
Wesleyan University

Zone 2
Adelphi University
Ithaca College
Rensselaer Polytechnic Institute
St. John's University
Cornell University

Zone 3
Drexel University
Juniata College
Moravian College

Zone 4
College of William and Mary
Northern Virginia Community College
Randolph College
Towson University
University of Richmond

Zone 5
Davidson College
Guilford College
University of North Carolina Asheville

Zone 6
Florida International University
Auburn University

Zone 7
Cleveland State University
Greve City College
University of Michigan

Zone 8
Austin Peay State University
University of Louisville
University of Tennessee

Zone 9
Carthage College
Indiana Wesleyan University
Michigan Technological University
University of Wisconsin - La Crosse
University of Wisconsin River Falls

Zone 10
Henderson State University
Rhodes College
University of Southern Mississippi

Zone 11
Coe College
University of Northern Iowa

Zone 12
University of Missouri Kansas City
East Central University

Zone 13
Abilene Christian University
Angelo State University
Tarleton State University
Texas Tech University
University of Texas at San Antonio

Zone 14
Colorado Mesa University
Colorado School of Mines

Zone 15
Utah State University
Brigham Young University

Zone 16
Honorable Mention: Embry-Riddle Aeronautic University, New Mexico State University

Zone 17
Central Washington University
Green River Community College
Washington State

Zone 18
California State University, Long Beach
California State University, Stanislaus
Hartnell College

The 2014 SPS Summer Interns

Nick Durofchalk, Lebanon Valley College
Ashley Finger, Davidson College
Caleb Heath, University of Arkansas
Kearns Louis-Jean, Xavier University of Louisiana
Simon Patane, Vassar College
Benjamin Perez, Coe College
Kelby Peterson, Utah State University
Benjamin Preis, Tufts University
Kirsten Randle, University of Massachusetts–Amherst
Mark Sellers, Rhodes College
Stephen Skolnick, Indiana University
Jacob Zalkind, Shippensburg University

SPS Travel Award Recipients

**American Association of Physics Teachers Winter Meeting (January 2014)**
- Ashley Finger, Davidson College
- Jacob Brooks, High Point University
- Kevin Sanders, High Point University
- Tim Slesinger, Randolph College

**223rd Meeting of the American Astronomical Society (January 2014)**
- Laura D. Vega, University of Texas at San Antonio
- Rachel Salmon, University of Scranton
- Ramon Sharma, University of Washington, Seattle

**American Physical Society March Meeting (March 2014)**
- Colleen Mahoney, Ithaca College
- Hannah E Shuman, Cleveland State University
- Jamie Stephens, Colorado Mesa University
- Janna Mino, Cleveland State University
- Jeffrey Porzio, Ithaca College
- Jennifer Verniero, American University
- Orlando Lopez, St. John's University
- Ryan Daniels, Lawrence Technological University

**American Physical Society April Meeting (April 2014)**
- Riley Mayes, Loyola University New Orleans
- Yvonne Ng, University of Texas at Arlington

**American Association of Physics Teachers Summer Meeting (July 2014)**
- Patrick Kelley, Purdue University

2013-14 SPS SOCK (Science Outreach Catalyst Kit) Recipients

Abilene Christian University
Christopher Newport University
Cleveland State University
College of William and Mary
Elon University
Georgia Institute Of Tech
Grove City College
John Carroll University
Kettering University
Lebanon Valley College
New Mexico State University
Radford University
Saint Peter’s University
University of Alaska Anchorage
University of Central Arkansas
University of North Alabama
University of North Carolina at Charlotte
University of Tennessee, Knoxville
University of Wisconsin-River Falls
Washington University in St. Louis

SPS Reporter Award Recipients

**166th Meeting of the Acoustical Society of America (December 2013)**
- Catherine Miller, Rhodes College
- Morgan Smathers, Rhodes College

**Conferences for Undergraduate Women in Physics (January 2014)**
- Caroline Williams, Northeastern Illinois University
- Kathryn Hasz, Oberlin College
- Kayla Bollinger, California State University, Long Beach
- Marie Blatnik, Cleveland State University
- Rebecca Bissell, Virginia Commonwealth University

**223rd Meeting of the American Astronomical Society (January 2014)**
- Caroline Roberts, Sewanee: The University of the South
- Kevin Gima, Prince George Community College
- Sara Frederick, University of Rochester

American Physical Society March Meeting (March 2014)
- Ashley Tucker, St. John's University
- Zoey Warecki, Towson University

**American Physical Society April Meeting (April 2014)**
- William (John) Duhe, Loyola University of New Orleans
  The SPS chapter of St. Mary’s College of Maryland

**Gordon Research Conference, The Complex Intersection of Biology and Physics (June 2014)**
- Mallory Tackett, University of Missouri – Kansas City

**American Association of Physics Teachers Summer Meeting (July 2014)**
- Patrick Kelley, Purdue University

2013-14 Recipients of Sigma Pi Sigma Awards and Honors

**Sigma Pi Sigma Chapter Project Award**
- Adelphi University
- Davidson College
- St. Johns University
- United States Air Force Academy
- Utah State University

**Sigma Pi Sigma Outstanding Service Award**
- John P. G. Shepherd, University of Wisconsin-River Falls (Emeritus)
  Recognized by the University of Wisconsin-River Falls ΣΠΣ Chapter
- Mario Affatigato, Coe College
  Recognized by the Coe College ΣΠΣ Chapter