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Opportunities for
Student Funding

APS
physics

FINANCIAL OPPORTUNITIES FOR STUDENTS

APS and its Units have worked to create opportunities that help fund student research and travel to meetings. These awards and funding opportunities strive to recognize exceptional young scientists and promote their work and dedication.

Highlighted in this brochure are many of the resources available to students. This information includes programs identified as of September 2010. Please visit the APS website, <http://www.aps.org>, to keep updated on new and upcoming opportunities.

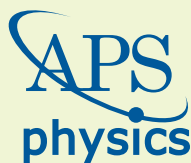
Thank you,



Trish Lettieri

Director of Membership

American Physical Society



APS AWARD

The LeRoy Apker Award is for Undergraduate Physics Achievement. Two awards are presented each year, one to a student from a PhD granting institution and one to a student from a non-PhD granting institution. The award to the recipient(s) consists of \$5,000, an allowance for travel to the meeting of the Society at which the award is being presented, and a certificate citing the work and school of the recipient. Six finalists are selected and they each receive an honorarium of \$2,000 and a certificate as an Apker Award Finalist. Certificates and awards will also be presented to the Physics Departments whose nominees become finalists and recipients. The awards to the nominating Physics Departments will be \$5,000 for the recipients and \$1,000 for the finalists. See <http://www.aps.org/programs/honors/awards/apker.cfm> for eligibility and nomination procedures.

INDIA–U.S. TRAVEL PROGRAM

The Physics Student Visitation Program, funded by the Indo-U.S. Science & Technology Forum (IUSSTF) and APS, allows U.S. and Indian graduate students to apply for travel funds of \$3,000 to pursue opportunities in physics. The travel funds could be used to attend a short-course or summer institute, to work temporarily in a laboratory, or for another opportunity that the student and the host professor believes is worthy of support. The program aims to mostly support graduate student travel to India by U.S. citizens, while enabling some students of Indian citizenship to travel to the United States. Recipients will be selected by a joint APS-IUSSTF Review Committee.

Further details about both programs, including proposal guidelines, are provided at www.aps.org/programs/international/us-india-travel.cfm.



DIVISION OF ASTROPHYSICS

DAP strongly encourages students to participate in DAP sessions, by presenting a talk or a poster at the annual April meeting of the APS, and will award travel grants for outstanding students. Eligible expenses include air fare, car travel, registration and lodging. Awards of up to \$600 are available to students making presentations within sessions directly sponsored by the DAP and up to \$300 for presentations made by DAP students in related sessions. For more information, including application instructions and deadlines, see <http://www.aps.org/units/dap>.

DIVISION OF ATOMIC, MOLECULAR AND OPTICAL PHYSICS

DAMOP, along with other sponsors, provides travel grants to 50 or more undergraduate and graduate students to attend the DAMOP Annual Meeting each year. The travel awards have ranged from \$300 to \$500 per student in recent years. Instructions for applications are currently posted at <http://www.aps.org/units/damop/meetings/student-support.cfm> and are updated each year.

In recognition of undergraduate research and to encourage undergraduate participation in research, DAMOP holds an invited Undergraduate Research Session each year at the Annual Meeting. The DAMOP education committee solicits candidates to be chosen for this session and each student receives travel support to attend the Meeting and a plaque or certificate.

DAMOP also strongly supports excellence in graduate research through the annual Award for Outstanding Doctoral Thesis Research in Atomic, Molecular, or Optical Physics. Typically five finalists are chosen by the DAMOP Thesis Prize committee during the Fall preceding the Annual Meeting. Recipients are given \$500 in travel support to attend the Annual Meeting, and to compete through presentations made at the DAMOP Thesis Prize Session. The winner receives a certificate and an award of \$2500. Additional information may be found by visiting: <http://www.aps.org/units/damop/awards/thesis.cfm>.

DIVISION OF BIOLOGICAL PHYSICS

The Division of Biological Physics will award several travel grants of up to \$400 per student as the first author of contributed papers (talks or posters) in sessions sponsored by DBP at the March Meeting. Applicants will be chosen on the basis of the quality of their work as evidenced by the abstract of the paper, a letter of support from their thesis advisor and the travel distances. The deadline for applications is February 1st. For more information, please visit: <http://www.aps.org/units/dbp/awards/student.cfm>.

DIVISION OF CHEMICAL PHYSICS

The Division of Chemical Physics sponsors travel awards for graduate students who present a paper or a poster at the March or April meetings. Eligible expenses include reduced rate air fare or car travel, registration, economy room and board for the duration of the meeting. Awards can range from \$250 to \$400. As many as twelve awards will be made. For more information please visit: <http://www.aps.org/units/dcp/awards/gsta.cfm>.

DIVISION OF COMPUTATIONAL PHYSICS

The purpose of the award is to recognize doctoral thesis research of outstanding quality and achievement in computational physics and to encourage effective written and oral presentation of research results. The award consists of \$1,500 and a certificate to be presented at an awards ceremony at the Division of Computational Physics annual meeting and an additional allowance of up to \$1000 to travel to the meeting. The recipient will be invited to present his or her work in an appropriate session of the meeting. The award will be presented annually and the deadline for applications is November 1st.

DIVISION OF FLUID DYNAMICS

The Andreas Acrivos Dissertation Award in Fluid Dynamics annually provides recognition to exceptional young scientists who have performed original doctoral thesis work of outstanding scientific quality and achievement in the area of fluid dynamics. The annual award consists of \$1,000, a certificate citing the accomplishments of the recipient, and an allowance of up to \$1,500 for travel to attend the annual meeting of the Division of Fluid Dynamics at which the award will be presented.

DFD and APS, together with other institutions, offer numerous travel grants to a number of potential participants in the Division's Annual Meeting. Preference is given to undergraduate and graduate students giving a presentation at the meeting, and to applicants who have partial funds to support their travel costs but for whom such a subsidy would permit their attendance at the meeting. Please visit: <http://www.aps.org/units/dfd/index.cfm> for more information.

DIVISION OF LASER SCIENCE

The DLS offers Student Travel Grants to help offset the expenses of graduate students who are members of DLS and who present papers at either the CLEO/QELS meeting in May or the Frontiers in Optics/Laser Science meeting in October. Awards are made for up to \$500. The student needs to complete an application, have a recommendation form completed by his/her faculty advisor, and attach confirmation that the paper has been accepted to the conference. Deadlines are generally about 2 months before the meeting. For more information please visit: <http://www.aps.org/units/dls/student.cfm>.

DLS also sponsors the Symposium on Undergraduate Research, held jointly with the Frontiers in Optics/Laser Science meeting in October. This symposium showcases research done by undergraduates. Some support is available to offset student expenses. For more information, see: <http://www.aps.org/units/dls/meetings/symposium/index.cfm>.

DIVISION OF MATERIAL PHYSICS

The Iris Ovshinsky Student Travel Awards have been established to assist the career of student researchers. It is anticipated that there will be ten \$500 awards each year to enable students to participate in the APS March Meeting sessions which are sponsored by the Division of Materials Physics. Students interested in being considered for an award should visit <http://www.aps.org/units/dmp/newsletters/summer2010.cfm>. Submissions are due by January.

DIVISION OF NUCLEAR PHYSICS

To recognize a recent Ph. D. in Nuclear Physics, this award consists of \$2,500, plus an allowance for travel to the annual April Meeting of APS, at which the award will be presented and a talk will be given in a DNP invited paper session. Nominations are open to any person who has received a PhD degree in experimental or theoretical nuclear physics from a North American university within the two-year period preceding the nomination deadline of July 1st. For more information please visit: <http://www.aps.org/programs/honors/dissertation/nuclear.cfm>.

DNP also provides a limited number of \$200 student travel awards plus complimentary registration to encourage graduate students to participate in the APS's April Meeting. Students must submit an abstract and present a talk at the meeting plus provide a statement of support from their thesis or research advisor. Selection is based upon merit and need.

In addition, DNP sponsors the Conference Experience for Undergraduates (CEU) program along with the National Science Foundation's Physics Division and the Department of Energy's Office of Nuclear Physics. Travel and lodging grants are awarded to undergraduate students to attend the DNP fall meeting and to present posters detailing their research in the field of nuclear physics. Grants are awarded to the top applicants who have demonstrated excellence and experience in the field of nuclear physics research. For more information please visit: <http://physics.westmont.edu/ceu/>.



DIVISION OF PARTICLES AND FIELDS

To provide recognition to exceptional young scientists who have performed original doctoral thesis work of outstanding scientific quality and achievement in the area of experimental particle physics. The annual award consists of \$1,500, a certificate citing the accomplishments of the recipient, and an allowance of up to \$1,000 for travel to attend the annual meeting of the Division of Particles and Fields (DPF) at which the award will be presented. Please visit:

<http://www.aps.org/programs/honors/dissertation/tanaka.cfm>.

DIVISION OF PHYSICS OF BEAMS

This annual award recognizes doctoral thesis research of outstanding quality and achievement in beam physics and engineering. The annual award consists of \$2,500 and a certificate to be presented at an awards ceremony at the Division of Physics of Beams Annual Meeting, and an additional allowance of up to \$500 for travel to the meeting. The recipient will be invited to present the work as an invited talk in an appropriate session of the meeting. For more information, please visit:

<http://www.aps.org/programs/honors/dissertation/beamphysics.cfm>.

DIVISION OF POLYMER PHYSICS

The Padden Award is given yearly to graduate students for “Excellence in Polymer Physics Research.” To be considered for this award the student must be a member of DPOLY and must be working toward the Ph.D. degree. Details of the qualifications for the award and the deadlines are listed on the web site:

<http://units.aps.org/units/dpoly/prizes/padden.cfm>.

The Dillon Medal annually recognizes outstanding research accomplishments by young polymer physicists who have demonstrated exceptional research promise early in their

careers. Recognition consists of \$2,000, up to \$1,000 allowance for travel to the meeting of the Society at which the award is being presented, a bronze medallion, and a certificate citing the accomplishments of the recipient. For rules and eligibility, visit: <http://www.aps.org/programs/honors/awards/dillon.cfm>.

TOPICAL GROUP ON INSTRUMENT AND MEASUREMENT SCIENCE

The GIMS topical subgroup offers student travel support of up to \$300 for student presenters at March meeting sessions that are sponsored by GIMS. For information regarding deadlines and contact information, please visit: <http://www.aps.org/units/gims/>.

TOPICAL GROUP ON GRAVITATION

The APS Topical Group on Gravitation offers \$300 travel awards to students making presentations in the March APS Meeting. GGR also presents a \$200 award to the best talk presented by a student in each of the regional Gravity Meetings; there are Eastern, Pacific, Gulf Coast, and Midwest Gravity Meetings every year. For more information, please visit: <http://www.aps.org/units/ggr/awards/student.cfm>.

TOPICAL GROUP ON MAGNETISM

GMAG will present up to three dissertation awards at the March Meeting. These awards will recognize students who have conducted outstanding research leading to their dissertation and will consist of an invited talk in an appropriate session at the March APS Meeting, a \$500 prize to the student, and up to \$250 toward his/her travel expenses to the March meeting. The student must be in the final year before graduating with a Ph.D., and both the student and the advisor must be current members of GMAG. Applications are due by September 1st. Please visit: <http://www.aps.org/units/gmag/newsletters/upload/february10.pdf> for more information.

*Left: Scanning force microscope image of Coulomb-blockade diamonds in a quantum dot (A. Pioda et al., Phys. Rev. Lett. **93**, 216801 (2004)).*

TOPICAL GROUP ON PRECISION MEASUREMENT AND FUNDAMENTAL CONSTANTS

Each year, GPMFC provides partial travel support to several graduate students, post-docs, and recently graduated physicists to present contributed papers in the area of precision measurement and fundamental constants. For more information, please visit:

<http://www.aps.org/units/gpmfc/meetings/travel.cfm>.

TOPICAL GROUP ON QUANTUM INFORMATION

GQI will award two “Best Student Paper” prizes at APS March meetings—one for theoretical work, and one for experimental. The awards, each consisting of a \$500 cash prize, will be sponsored by Perimeter Institute for Theoretical Physics in Waterloo, Canada, and the Institute for Quantum Computing at the University of Waterloo. All undergraduate and graduate students who are both first author and presenters of an oral or poster presentation are eligible. Please visit: <http://www.aps.org/units/gqi/awards/index.cfm> for more information.

TOPICAL GROUP ON SHOCK COMPRESSION

GSCCM provides travel grants for students to attend their biannual meetings. Typically, \$600-1000 is awarded to each awardee, plus the cost of the conference registration. Deadlines for application are typically early in the year of the conference. Please visit:

<http://www.shockphysics.org/> for additional information.

TOPICAL GROUP ON STATISTICAL AND NONLINEAR PHYSICS

The GSNP Graduate Student Award is for best contributed talk at the March meeting by a graduate student in the area of Statistical and Nonlinear Physics. Students presenting their talks are nominated by their advisors. Five finalists will present their talk in a special session at the March meeting to a three member committee, who will review the nomination material and select a winner. The winner will receive a \$1,000 award and each of the other four finalists will receive \$300 awards. In addition, March meeting expenses up to \$500 will be covered for each finalist.

The Gallery of Images Award, which is held at the March meeting, consists of either posters or videos which must be submitted by the indicated deadline to the GSNP Secretary/Treasurer. The committee will select the best three entries and an overall winner from each category (poster or video). The images will be published with a brief commentary in a special issue of Chaos. The winners from each category will receive \$500.

FORUM ON GRADUATE STUDENT AFFAIRS

The FGSA is committed to increasing the participation of graduate students and other young researchers in scientific conferences and workshops, and has funds available to help cover the cost of travel to such scholarly meetings. We invite applications for travel grants up to \$500 for travel within the US, and \$800 for international travel. Awards are limited to one trip per calendar year per person, and the recipient must be a member of the APS and the FGSA. For more information, please visit:

<http://www.aps.org/units/fgsa/activities/travelgrants.cfm>.



FORUM ON PHYSICS & SOCIETY

The Forum on Physics and Society (FPS) is proud to announce the Student Fellowships in Physics and Society. The Fellowships are open to undergraduate or graduate students in physics who will be awarded up to \$4,000 each to support a project that applies physics to a societal issue. For more information, please visit: <http://www.aps.org/units/fps/awards/student-fellowship.cfm>.

FORUM ON HISTORY OF PHYSICS

FHP offers \$600 awards for partial travel support to graduate or undergraduate students who have submitted abstracts for contributed FHP sessions at the March or April meetings. The awards are given to honor distinguished physicists no longer alive. For more information, please visit: <http://www.aps.org/units/fhp/awards/student/index.cfm>.

CALIFORNIA-NEVADA SECTION

The California-Nevada Section subsidizes travel for students to the section's annual meeting. The student must submit an abstract to the meeting and indicate when registering for the meeting whether he/she would like to be considered for either shared hotel rooms or travel reimbursements. Typically such requests must be received about one month before the meeting. For more information, please visit: <http://www.aps.org/units/cal/index.cfm>.

FOUR CORNERS SECTION

The Four Corners Section provides travel grants for undergraduate and graduate students who attend its annual fall meeting. Cash prizes are also given out at the meeting for outstanding student papers. Please visit:

<http://www.aps.org/units/4cs/> for further information.

NEW ENGLAND SECTION

The New England Section strongly encourages the active participation of students (undergraduates and graduates) in its meetings. Student attendees may be reimbursed up to \$100 for registration fees, abstract publication fees, banquet tickets, hotels, meals, and travel to and from the meeting. For more information, please visit: <http://www.physics.ccsu.edu/aps-nes/>.

NEW YORK STATE SECTION

The New York State Section has an extensive program for student support to attend Symposiums. Each student can apply for (up to) \$100, for travel, rooms, meals and other expenses. Cash prizes for poster competition and Outreach grants twice a year which are generally awarded for activities for students are also available. More information can be found by visiting:

<http://aps.org/units/nyss/meetings/student.cfm>.

NORTHWEST SECTION

To enable undergraduate students to participate in the annual meeting, the Northwest Section offers a limited number of travel awards of up to \$200 each year. Priority is usually given to students presenting a poster or a contributed paper. The information can be found online at:

<http://www.aps.org/units/nws/meetings/student-travel-award.cfm>.

OHIO-REGION SECTION

The Ohio-Region Section offers funding awards for students who plan to present either a poster or an oral presentation at one of the Section's meetings. Students may be awarded up to \$100 to assist with expenses related to attendance. For each meeting, students must contact the local host organizing committee to apply for the award. Please see: <http://www.aps.org/units/osaps/meetings/index.cfm> to find contact information.

PRAIRIE SECTION

The Prairie Section is in the process of developing funding opportunities for students. Please see: <http://www.aps.org/units/psaps/index.cfm> for the most current information.

SOUTHEASTERN SECTION

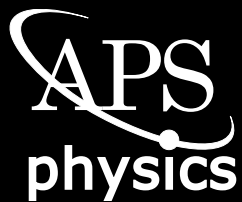
Undergraduate and graduate students who are first author on research papers in a SESAPS session are eligible for modest travel grants. The total amount available will be \$4,500, with the maximum grant being \$250 to a single individual. Please visit: <http://www.aps.org/units/sesaps/meetings/travel-grants.cfm> for further information.

TEXAS SECTION

The Robert S. Hyer Research Award of the Texas Section will be presented each year jointly to two recipients. The first recipient must have been a student when the research was performed. The second recipient will be the student's research advisor. The only criterion is excellence, including potential impact in the relevant scientific community. The research must be in physics or a physics-related subject, and it must have been presented at a Texas APS meeting within the past two years by either the student or the advisor, both of whom must have been section members at the time. Each recipient will receive a plaque, and the student recipient additionally will receive \$500. Awards will be presented at the Fall meeting. For more information, visit: <http://www.aps.org/units/tsaps/awards/hyer/index.cfm>.

The Texas Section has sponsored awards for outstanding presentations by both undergraduate and graduate students. The awards are for a presentation in a regular APS oral session or an APS poster session at the Fall Texas Section Meeting. For more information visit: <http://www.aps.org/units/tsaps/awards/student/index.cfm>. Students are also eligible for an additional travel grant, typically of \$150 per winner.

FOR THE LATEST INFORMATION, PLEASE VISIT
[HTTP://WWW.APS.ORG/UNITS](http://www.aps.org/units)
FOR A COMPLETE LISTING OF ALL APS UNITS.



FOR MORE INFORMATION PLEASE CONTACT:

American Physical Society
One Physics Ellipse
College Park, MD 20740
Phone: 301-209-3280
Fax: 301-209-0867
email: membership@aps.org
www.aps.org

APS Units
www.aps.org/units