

Awards for XSD staff from:

Compiled September 2013 – R. E. Winans, C. Jacobsen, J. Lang, L. Young

Materials Research Society Awards <http://www.mrs.org/awards/>

Award	Purpose	Eligibility	Deadline
David Turnbull Lectureship	To recognize the career contribution of a scientist to fundamental understanding of the science of materials through experimental and/or theoretical research. In the spirit of the life work of David Turnbull, writing and lecturing also can be factors in the selection process.	All	April 1
Innovation in Materials Characterization	To honor an outstanding advance in materials characterization that notably increases the knowledge of the structure, composition, <i>in situ</i> behavior under outside stimulus, electronic, mechanical, or chemical behavior, or other characterization feature, of materials.	All	Oct 1
Materials Theory Award	Recognizes exceptional advances made by materials theory to the fundamental understanding of the structure and behavior of materials. This award is intended to honor both those who have pioneered the development of a new theoretical approach and those who have used existing approaches to provide significant new insight into materials behavior.	All	April 1
Mid-Career Researcher	Recognizes exceptional achievements in materials research made by mid-career professionals.	Age 40-52	Oct 1
MRS Fellow	Outstanding members whose sustained and distinguished contributions to the advancement of materials research are internationally recognized.	Established career	Oct 1
MRS Medal	Recognizes an exceptional achievement in materials research in the past ten years. The impact of this research on the progress of the relevant materials field will be a primary consideration in making the award.	Last 10 years	April 1
Outstanding Young Investigator	To recognize outstanding, interdisciplinary scientific work in materials research by a young scientist or engineer. The award recipient must also show exceptional promise as a developing leader in the materials area.	Age <36	Oct 1
Von Hippel	To recognize those qualities most prized by materials scientists and engineers—brilliance and originality of intellect, combined with vision that transcends the boundaries of conventional scientific disciplines.	All	April 1

American Crystallographic Association Awards <http://www.amercrystalassn.org/content/pages/main-award-descriptions>

Award	Purpose	Eligibility	Deadline
B. Warren	To recognize an important recent contribution to the physics of solids or liquids using X-ray, neutron, or electron diffraction techniques.	Last 6 years	April 1, 2014 3 Year
M. J. Buerger	To recognize mature scientists who have made contributions of exceptional distinction in areas of interest to the ACA.	Mature	April 1, 2014 3 year
I. Fankuchen	To recognize contributions to crystallographic research by one who is known to be an effective teacher of crystallography.	All	2016 3 year
A. Patterson	To recognize and encourage outstanding research in the structure of matter by diffraction methods, including significant contributions to the methodology of structure determination and/or innovative application of diffraction methods and/or elucidation of biological, chemical, geological or physical phenomena using new structural information.	All	2017 3 year
K. Trueblood	To recognize exceptional achievement in computational or chemical crystallography.	All	2016 3 year
E. A. Wood Science Writing	Persons who have written books or articles that bring science to the attention of a wider audience are eligible..	All	Oct 1 2017 3 year
Margaret C. Etter Early Career	To recognize outstanding achievement and exceptional potential in crystallographic research demonstrated by a scientist at an early stage of their independent career.	<12 years Since PhD	May 1, 2014
Charles E. Supper Instrumentation	To recognize scientists who have made exceptional contributions to crystallographic instrumentation.	All	open
Bau Neutron Diffraction	Recognize exceptional research achievement in neutron diffraction.	All	2016 3 year

American Chemical Society Awards

<http://www.acs.org/content/acs/en/funding-and-awards/awards/national.html>

Award	Purpose	Eligibility	Deadline
Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator	To recognize creative and impactful work by a young investigator in a forefront area of inorganic chemistry, broadly defined.	<10 year From PhD	Nov 1, 2013 For 2015
ACS Award in Polymer Chemistry	The nominees for this award are expected to have demonstrated pioneering research accomplishments in synthetic methods of unique polymeric materials and/or achieved profound discoveries in polymer physical chemistry leading to recognized advancements in our understanding of complex macromolecular behavior.	All	Nov 1
ACS Award in the Chemistry of Materials	Outstanding contributions to the chemistry of materials. Particular emphasis will be placed on research relating to materials of actual or potential technological importance, where a fundamental understanding of the chemistry associated with materials preparation, processing, or use is critical.	All	Nov 1
Arthur W. Adamson Award for Distinguished Service in the Advancement of Surface Chemistry	To recognize distinguished services in the advancement of surface chemistry.	All	Nov 1
Peter Debye Award in Physical Chemistry	Outstanding research of a theoretical or experimental nature in the field of physical chemistry.	All	Nov 1
Irving Langmuir Award in Chemical Physics	To recognize and encourage outstanding interdisciplinary research in chemistry and physics, in the spirit of Irving Langmuir.	All	Nov 1, 2013 For 2014
Gabor A. Somorjai Award for Creative Research in Catalysis	To recognize outstanding theoretical, experimental, or developmental research resulting in the advancement of understanding or application of catalysis.	All	Nov 1
Ahmed Zewail Award in Ultrafast Science and Technology	To recognize outstanding and creative contributions to fundamental discoveries or inventions in ultrafast science & technology in areas of physics, chemistry, biology, or related field	All	Nov 1

Optical Society of America Awards

http://www.osa.org/en-us/awards_and_grants/awards

Award	Purpose	Eligibility	Deadline
Frederic Ives Medal/Jarus W. Quinn Prize	The highest award of the Society, the Ives Medal recognizes overall distinction in optics	All	Oct. 1
Esther Hoffman Beller Medal	Recognizes outstanding contributions to optical science and engineering education	All	Oct. 1
Max Born Award	Recognizes contributions to physical optics	All	Oct. 1
Distinguished Service Award	Recognizes service to the optical community (usually presented in even-numbered years only)	All	Oct. 1
Michael S. Feld Biophotonics Award	Recognizes individuals for their innovative and influential contributions to the field of biophotonics, regardless of their career stage.	All	Oct. 1
Paul F. Forman Engineering Excellence Award	Recognizes team technical achievements in optical engineering	All	July 2
Joseph Fraunhofer Award/Robert M. Burley Prize	Recognizes research accomplishments in the field of optical engineering	All	Oct. 1
The Joseph W. Goodman Book Writing Award	Recognizes authorship of an outstanding book in the field of optics and photonics, published in the last six years, that has contributed significantly to research, teaching, or the optics and photonics industry (co-sponsored with SPIE). (presented in even-numbered years only)	All	Oct. 1
Nick Holonyak Jr. Award	Recognizes an individual or group who has had a significant impact on the global optics and photonics community or has had a significant impact on society as a whole stemming from non-research oriented activities	All	Oct. 1
Edwin H. Land Medal	Recognizes pioneering work empowered by scientific research to create inventions, technologies, and products (co-sponsored with the Society for Imaging Science and Technology)	All	Oct. 1
Sang Soo Lee Award	Recognizes outstanding leadership in founding or growing the optics and photonics community locally	All	Oct. 1
Emmett N. Leith Medal	Recognizes seminal contributions to the field of optical information processing	All	Oct. 1
Ellis R. Lippincott Award	Recognizes contributions to vibrational spectroscopy (co-sponsored with the Coblentz Society and the Society for Applied Spectroscopy)	All	Oct. 1

Adolph Lomb Medal	Recognizes noteworthy contributions made to optics before reaching the age of 35	<35 years old	Oct. 1
C.E.K. Mees Medal	Recognizes interdisciplinary and international contributions (presented in odd-numbered years only)	All	Oct. 1
William F. Meggers Award	Recognizes outstanding work in spectroscopy	All	Oct. 1
David Richardson Medal	Recognizes contributions to optical engineering, primarily in the commercial and industrial sector	All	Oct. 1
Edgar D. Tillyer Award	Recognizes distinguished work in the field of vision (awarded in even-numbered years only)	All	Oct. 1
Charles Hard Townes Award	Recognizes contributions to quantum electronics	All	Oct. 1
John Tyndall Award	Recognizes contributions to fiber optic technology (co-sponsored with the IEEE/Photonics Society). Deadline is August 10	All	August 10
Herbert Walther Award	Recognizes distinguished contributions in quantum optics and atomic physics as well as leadership in the international scientific community (co-sponsored with Deutsche Physikalische Gesellschaft (DPG)).	All	Oct. 1
R. W. Wood Prize	Recognizes an outstanding discovery, scientific or technological achievement or invention	All	Oct. 1

American Physical Society Awards

<http://www.aps.org/programs/honors/prizes/>

Award	Purpose	Eligibility	Deadline
Davission-Germer Prize in Atomic or Surface Physics	To recognize and encourage outstanding work in atomic physics (even years) or surface physics (odd years).	All	July 1
Fluid Dynamics Prize	To recognize and encourage outstanding achievement in fluid dynamics research.	All	July 1
George E. Valley, Jr. Prize	To recognize one individual in the early stages of his or her career for an outstanding scientific contribution to physics that is deemed to have significant potential for a dramatic impact on the field.	<5 years past Ph.D.	July 1 Even Years
I.I. Rabi Prize in Atomic, Molecular and Optical Physics	To recognize and encourage outstanding research in Atomic, Molecular and Optical Physics by investigators who have held a Ph. D. for 10 years or less.	< 10 years past Ph.D.	July 1 Odd Years
Oliver E. Buckley Condensed Matter Prize	To recognize and encourage outstanding theoretical or experimental contributions to condensed matter physics.	All	July 1
Herbert P. Broida Prize	To recognize and enhance outstanding experimental advancements in the fields of atomic and molecular spectroscopy or chemical physics.	All	July 1
Irving Langmuir Prize in Chemical Physics	To recognize and encourage outstanding interdisciplinary research in chemistry and physics, in the spirit of Irving Langmuir.	All	July 1
James C. McGroddy Prize for New Materials	To recognize and encourage outstanding achievement in the science and application of new materials.	All	July 1
Max Delbruck Prize in Biological Physics	To recognize and encourage outstanding achievement in biological physics research.	All	July 1
Polymer Physics Prize	To recognize outstanding accomplishment and excellence of contributions in polymer physics research.	All	July 1
Robert R. Wilson Prize for	To recognize and encourage outstanding achievement in the physics of	All	July 1

Achievement in the Physics of Particle Accelerators	particle accelerators.		
Edward A. Bouchet Award	To promote the participation of under-represented minorities in physics by identifying and recognizing a distinguished minority physicist who has made significant contributions to physics research.	Black, Hispanic, or Native American	July 1
John H. Dillon Medal	To recognize outstanding research accomplishments by young polymer physicists who have demonstrated exceptional research promise early in their careers.	<12 years past Ph.D.	July 1
Maria Goeppert Mayer Award	To recognize and enhance outstanding achievement by a woman physicist in the early years of her career, and to provide opportunities for her to present these achievements to others through public lectures	Woman <10 years after Ph.D.	July 1
Joseph F. Keithley Award For Advances in Measurement Science	To recognize physicists who have been instrumental in the development of measurement techniques or equipment that have impact on the physics community by providing better measurements.	All	July 1
M. Hildred Blewett Fellowship	Grant to enable women to return to physics research careers after having had to interrupt those careers.	US and Canadian Citizens	June 1
Fellow of American Physical Society	The criterion for election is exceptional contributions to the physics enterprise; e.g., outstanding physics research, important applications of physics, leadership in or service to physics, or significant contributions to physics education.	APS members	Varies by Unit Most: March 1

American Vacuum Society Awards

<http://www.avs.org/About/Awards-Recognition>

Award	Purpose	Eligibility	Deadline
Medard W. Welch Award	To recognize and encourage outstanding research in the fields of interest to AVS.	All	March 31
Gaede-Langmuir Award	To recognize and encourage outstanding discoveries and inventions in the sciences and technologies of interest to AVS.	All	March 31 Odd Years
Albert Nerkin Award	To recognize outstanding contributions to the solution of technological problems in areas of interest to AVS.	All	March 31
Peter Mark Memorial Award	The nominee must be a young scientist or engineer who has contributed outstanding theoretical or experimental work, at least part of which must have been published in an AVS Journal.	<36 years old	March 31
AVS - Biomaterial Interfaces Division Early Career award	The AVS Biomaterial Interfaces Division (BID) is calling for applications for the Early Career Researchers (ECR) Award. Funds invited talk at AVS meeting.	<10 years past Ph.D.	March 31
AVS - Electronic Materials & Processing Division Post-Doc Award	Electronic Materials & Processing Division (EMPD) cash award for postdoctoral fellows who will be presenting papers at AVS EMPD Symposium.	Post-Docs	March 31
AVS - Magnetic Interfaces and Nanostructures Division	Magnetic Interfaces and Nanostructures Division MIND Postdoctoral Award recognizes outstanding contributions to the areas of interest of MIND. Winner receives a \$1000 cash prize invitation to present paper at AVS MIND International Symposium.	Post-Docs	March 31
AVS - Nanotechnology Recognition Award	The Nanotechnology Recognition Award recognizes members of NSTD for outstanding scientific and technical contributions in the science of nanometer-scale structures, technology transfer involving nanometer-scale structures, and/or the promotion and dissemination of knowledge and development in these areas.	Member of AVS	March 31
AVS - Thin Film Division Paul H. Holloway Young Investigator Award	Recognizes an outstanding young scientist or engineer who has contributed exceptional theoretical and experimental work in an area important to the Thin Film Division of AVS.	<7 years past Ph.D.	March 31
AVS – Divisional Student awards	Each division of the AVS has Awards for graduate students, which provides a travel funds to attend and present results at the annual AVS meeting	Graduate students	March 31
Fellow of the AVS	This membership level designated "Fellow of the Society" is to recognize	AVS	March 31

	members who have made sustained and outstanding technical contributions in areas of interest to AVS.physics, leadership in or service to physics, or significant contributions to physics education.	members	
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Microscopy Society of America Awards

<http://www.microscopy.org/awards/past.cfm>

Award	Purpose	Eligibility	Deadline
Distinguished Scientist Award	These Awards annually recognize a preeminent senior scientist from each of the Biological and Physical Sciences who has a long-standing record of achievement during his or her career in the field of microscopy or microanalysis.	All	
Burton Medal	The Burton Medal was initiated to honor annually the distinguished contributions to the field of microscopy and microanalysis by a scientist who is less than 40 years of age on January 1st of the award year (i.e., the awardee to be honored at M&M 2013 cannot have been born earlier than 1974).	<40 years old	
Outstanding Technologist Awards	These Awards annually honor a technologist from each of the Biological and Physical Sciences who has made significant contributions, such as the development of new techniques that have contributed to the advancement of microscopy and microanalysis.	All	
Morton D. Maser Distinguished Service Award	This Award recognizes outstanding volunteer service to the Society as exemplified by Mort Maser, who served the Society for many years with great dedication. This award is made annually to honor an MSA member who has provided significant volunteer service to the Society over a sustained period of time.	All	
The Albert Crewe Award	The Albert Crewe Award was initiated to recognize annually the distinguished contributions to the field of microscopy and microanalysis in the physical sciences of a postdoctoral fellow of not more than 6 years' standing since doctoral graduation.	All	
The George Palade Award	The George Palade Award was initiated to recognize annually the distinguished contributions to the field of microscopy and microanalysis in the life sciences of a postdoctoral fellow of not more than 6 years' standing since doctoral graduation.	<6 years post PhD	

SPIE Awards

<http://spie.org/x2958.xml>

Award	Purpose	Eligibility	Deadline
Gold Medal of the Society	The Gold Medal of the Society is the highest honor the Society bestows. Beginning in 1977, it has been awarded annually in recognition of outstanding engineering or scientific accomplishments in optics, electro-optics, or photographic technologies or applications. The recipient(s) shall have made an exceptional contribution to the advancement of relevant technology. Honorarium \$10,000	All	Oct. 1
Britton Chance Biomedical Optics Award	The Britton Chance Biomedical Optics Award is presented annually in recognition of outstanding lifetime contributions to the field of biomedical optics through the development of innovative, high impact technologies. The award particularly honors pioneering contributions to optical methods and devices that have facilitated advancements in biology or medicine. Honorarium of \$2,000 presented annually.	All	Oct. 1
Biophotonics Technology Innovator Award	The Biophotonics Technology Innovator Award is presented annually for extraordinary achievements in biophotonics technology development that show strong promise or potential impact in Biology, Medicine, and Biomedical Optics. The award targets achievements that span disciplines and may include elements of basic research, technology development, and clinical translation. Honorarium of \$2,000 presented annually	All	Oct. 1
A.E. Conrady Award	The A. E. Conrady Award is given annually in recognition of exceptional contributions in design, construction, and testing of optical systems and instrumentation. The recognition of this award is based on developments of new equipment, techniques, and applications for designing, testing, analyzing, and/or evaluating optical systems, components, and theories. Honorarium \$2,000, sponsored by Synopsys Inc	All	Oct. 1
Harold E. Edgerton Award	The Harold E. Edgerton Award is presented annually for outstanding contributions to optical or photonic techniques in the application and understanding of high speed physical phenomena. The development of new technologies and the new application of existing technologies shall be considered in the determination of the award. Honorarium \$2,000.	All	Oct. 1

Dennis Gabor Award	The Dennis Gabor Award is presented annually in recognition of outstanding accomplishments in diffractive wavefront technologies, especially those which further the development of holography and metrology applications. Honorarium \$2,000.	All	Oct. 1
George W. Goddard Award	The George W. Goddard Award is given annually in recognition of exceptional achievement in optical or photonic instrumentation for aerospace, atmospheric science, or astronomy. The award is for the invention and development of a new technique, photonic instrumentation, instrument, or system. Honorarium \$2,000.	All	Oct. 1
Rudolf Kingslake Medal and Prize	The Rudolf Kingslake Medal is awarded annually in recognition of the most noteworthy original paper to appear in the Society's official journal, Optical Engineering, on the theoretical or experimental aspects of optical engineering. All papers published in the journal are automatically eligible for consideration for this award. (Nominations are not required.) Honorarium \$2,000.	All	Oct. 1
G. G. Stokes Award	The G. G. Stokes Award is given annually for exceptional contribution to the field of optical polarization. The award may be presented for a specific achievement, development, or invention of significant importance to optical science and society, or may be given for lifetime achievement. Honorarium \$2,000.	All	Oct. 1
Chandra S. Vikram Award in Optical Metrology	The Chandra S. Vikram Award in Optical Metrology is given annually for exceptional contribution to the field of optical metrology. The award may be presented for a specific achievement, development, or invention of significant importance to optical metrology, or may be given for lifetime achievement. Honorarium \$2,000.	All	Oct. 1
Frits Zernike Award for Microlithography	The Frits Zernike Award for Microlithography is given annually for outstanding accomplishments in microlithographic technology, especially those furthering the development of semiconductor lithographic imaging solutions. Honorarium \$2,000, sponsored by ASML and Cymer.	All	Oct. 1
Early Career Achievement Award	SPIE Early Career Achievement Award is given annually to an early career professional in recognition of significant and innovative technical contributions to any of the engineering or scientific fields of interest to SPIE. The award will be presented at an SPIE Conference devoted to the early career professional's field. Honorarium \$2,000.	<7 years post PhD	Oct. 1

SPIE Educator Award	The Educator Award is given annually in recognition of outstanding contributions to optics education by an SPIE instructor or an educator in the field. Honorarium \$2,000.	All	Oct. 1
SPIE Technology Achievement Award	The SPIE Technology Achievement Award is given annually to recognize outstanding technical accomplishment in optics, electro-optics, photonic engineering, or imaging. The recipient(s) shall have contributed significantly to the advancement of one or more of these areas with specific demonstration(s) or application(s). Honorarium \$2,000.	All	Oct. 1
President's Award	The President's Award, a discretionary award plaque, may be given to an individual who, in the opinion of the President and the Board of Directors, has rendered a unique and meritorious service of outstanding benefit to the Society.	All	Oct. 1
Directors' Award	The Directors' Award, a service award certificate, may be given to an individual who, in the opinion of the Board of Directors, has rendered a significant service of outstanding benefit to the Society.	All	Oct. 1

**UCHICAGO ARGONNE, LLC BOARD OF GOVERNORS AWARDS
AT ARGONNE NATIONAL LABORATORY**

Distinguished Performance	A specific outstanding achievement or a distinguished record of such achievements by an employee of the Laboratory in the areas of basic and applied science and engineering. Awards will be given annually if, in the opinion of the Awards Committee, the accomplishments of the nominees are sufficiently outstanding to be deserving of this special recognition. Up to four per year, at the discretion of the Awards Committee. Medal plus \$3,500	All	Jan 10
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