

Honorary Members

Honorary members are those individuals who have made exceptional contributions to the art and science of spectroscopy in scientific or laboratory research, development of new or innovative instrumentation or equipment, or development of aids, standards, etc., that help spectroscopists practice their craft in a more efficient and accurate manner. They are awarded a lifetime membership and subscription to *Applied Spectroscopy*.

Sandy Asher
Arnold O. Beckman*
Freeman Bentley*
John Bertie
LaVerne S. Birks*
Robert R. Brattain*
Frederick Brech*
I. D'Arcy Brent II*
William R. Brode*
H. Howard. Cary*
John Chalmers
D. Bruce. Chase
Forrest F. Cleveland*
William W. Coblentz*
Norman B. Colthup*
Bryce L. Crawford, Jr.*
John A. Dean*
M. Bonner Denton
Rina Dukor
Velmer A. Fassel*
William G. Fateley*
John R. Ferraro*
Jeanette Graselli-Brown
Peter R. Griffiths
Herbert S. Gutowsky*
Joel Harris
George R. Harrison*
Roland C. Hawes*
Gerhard. Herzberg*
Gary M. Hieftje
Tomas Hirschfeld*
Edwin S. Hodge*
John F. Jackovitz*
Richard Jarrell*
Edwin K. Jaycox*
William I. Kaye*
Wolfgang Kiefer
Gordon F. Kirkbright*
Jack L. Koenig
S. Roy Koirtyohann
Jaan. Laane
Ira W. Levin

Herman A. Liebhafsky*
Richard C. Lord, Jr.*
Alan G. Marshall
William F. Meggers*
Melvin G. Mellon*
Robert E. Michaelis*
Foil A. Miller*
Terry Miller
Larry. Nafie
Kazuo Nakamoto*
Henry H. Nielsen*
Alfred O. Nier*
Isao Noda
Karl Norris
Richard A. Nyquist*
Nicolo Omenetto
Yukihiro Ozaki
Richard Palmer
Earl K. Plyler*
William J. Poehlman*
Theodor C. Rains*
Geraldine Richmond
Harry Rose*
Anton Savitsky*
Alexander Scheeline
Borden F. Scribner*
Heinz W. Siesler
Charlotte M. Sitterly*
Walter Slavin
Frank H. Spedding*
Lester W. Strock*
Mitsuo Tasumi
Richard Van Duynes*
Isiah Warner
G. Vernon Wheeler*
Charles L. Wilkins
E. Bright Wilson*
James D. Winefordner
Ray Woodruff*
Norman Wright*
**deceased*

Emeritus Members

Members who have contributed to spectroscopy and have been members of the Society for Applied Spectroscopy for 15 years, and now have retired from active scientific endeavor.

Glen F. Bailey*
Stephen Bialkowski
H.J. Bollingberg

S. Crouch
William Dennen
Anne R. Donnell*

Edward C. Dunlop
Rudolph Dyck*
Janus Y. Ellenburg
John E. Forrette
Donald M. Frankel
Jacob Fuchs
E.L. Grove*
Bruce E. Hofmann
David Hercules
Ruth A. Kaselis
C.T. Kenner
William E. Koerner
S. Roy Koirtyohann
Bruce M. LaRue
Ira Levin

Marvin Margoshes*
Howard Mark
Leopold May*
Robert McDonald
Rudd A. Meikeljohn
Paul A. Munter
A.T. Myers
Samuel Natelson
Deibert A. Naumer
Delores J. Phillips
Theodore C. Rains*
David W. Steinhaus*

**deceased*

Distinguished Service Award

This award was established to recognize members for continued outstanding service to the Society.

1981 Edwin S. Hodge*
1982 James J. Devlin, S.J.*
1983 Jeanette G. Grasselli-Brown
1984 Alvin Bober
1985 Andrew Rekus*
1986 John R. Ferraro
 G. Vernon Wheeler*
1987 Willam G. Fateley*
 C.L. Grant
1988 Abram Davis*
 I. D'Arcy Brent II*
1989 James E. Paterson*
1990 O. Karmie Galle*
1991 John A. Dean
1992 Genevieve M. Bonini*
 James R. Lindsay*
1993 No Award Given
1994 F. Monte Evens*
 Wilbur Kaye*
1995 Jack E. Katon*
1996 No Award Given
1997 Constance Butler Sobel
1998 Marvin Margoshes
1999 Michael Epstein
 Truman Waugh
2000 James A. Holcombe
 Wolfgang Kiefer
2001 John Jackovitz*
 Nancy J. Miller-Ihli

2002 Douglas L. Shrader
2003 David Coleman
 Patricia Coleman
2004 Kathryn Kalasinsky
2005 Rina K. Dolor
2006 Joseph Caruso*
2007 Laurance A. Nafie
2008 Peter Griffiths
 Deborah Bradshaw
2009 Paul Farnsworth
 Joel Harris
2010 Alex Scheeline
2011 Michael Carrabba
2012 David Butcher
2013 Bruce Chase
2014 Curt Marcott
2015 Gloria Story
2016 James de Haseth
2017 Geoffrey Coleman
 Brian Perry
2018 Ian Lewis
 Diane Parry
2019 Michael Blades
 Deborah Peru
2020 Mary Kate Donais
 Paul N. Bourassa

**deceased*

William J. Pohlman Award

Named in honor of the first president of the Society and one of its founders, this award is granted annually to the Regional Section whose activities are judged as most outstanding.

1975 Virginia-Carolina
1976 New England
1977 No Award Given
1978 Rocky Mountain
1979 Chicago
1980 Baltimore-Washington
1981 New England
1982 Cincinnati
1983 Milwaukee
1984 Baltimore-Washington
1985 Pittsburgh
1986 Baltimore-Washington
1987 Cincinnati
1988 Ohio Valley
1989 No Award Given
1990 Southern California
1991 Chicago
1992 Houston
1993 Chicago
1994 Chicago
1995 Chicago
1996 Chicago
1997 Chicago
1998 Chicago
1999 Cincinnati
2000 New York
2001 Chicago
2002 New England
2003 Cleveland
2004 Cleveland
2005 Cleveland
2006 Cleveland
2007 New York
2008 Cleveland
2009 Cleveland
2010 New England
New York
2011 Cleveland
2012 Cleveland
2012 New York
2013 New York
2014 Pittsburgh
2015 New York
2016 Cleveland
2017 Cleveland
2018 Cleveland
2019 New York
2020 University of Puerto Rico Mayaguez

Journal Award/William F. Meggers Award

Since 1960, a single article has been selected each year from the Journal for citation as the most outstanding. This award was initiated through courtesy of SPEX Industries, Inc. The award included a cash honorarium. In 1968, the name of the Journal Award was changed in order to commemorate the outstanding spectroscopist William F. Meggers. In 1978, the sponsorship of the Meggers Award was transferred from SPEX Industries to the Spectroscopy Society of Pittsburgh. In 1991, the award was turned over to the Leco Corporation. The following are the recipients of these awards. *Note that the year listed references the year the paper appeared in the journal and not the year the award was given.*

- 1960 W.K. Baer and E.S. Hodge for "The Spectrochemical Analysis of Solutions: A Comparison of Five Techniques."
- 1961 T. Lee for "The Spectrographic Determination of Uranium 235."
- 1962 L.R. Pitwell for "Equations for Working Curves in Emission Spectroscopy."
- 1963 L.R. Leipziger for "Some New Upper Limits of Isotopic Abundance by Mass Spectrometry."
- 1964 W.G. Schrenk and R.W. Johnson for "Mechanisms of Interactions of Alkali and Alkaline Earth Elements in Flame Photometry."
- 1965 J.B. Irenopvich, A.G. MacDearmid, and E.R. Nixon for "Infrared and Raman Spectra of Some Pentamethyldisilanyl Compounds."
- 1966 B.J. Mitchell and N.F. Hooper for "Digital Computer Calculations and Correction of Matrix Effect in X-Ray Spectroscopy."
- 1967 Michael L. Parsons and James D. Winefordner for "Optimization of the Critical Instrumental Parameters for Achieving Maximum Sensitivity and Precision in Flame Spectrometric Methods of Analysis."
- 1968 Harry J. Rose and Frank Cuttitta for "X-Ray Fluorescence Analysis of Individual Rare Earths and Complex Minerals."
- 1969 J.P. Walters for "Historical Advances in Spark Emission Spectroscopy."
- 1970 C.D. Allemand for "Depolarization Ratio Measurement in Raman Spectrometry."
- 1971 C.R. Brundle for "Some Recent Advances in Photoelectron Spectroscopy."
- 1972 M.S. Wang for "Impurity Determination in Group III-V Compounds."
- 1973 V.F. Hanson for "Quantitative Elemental Analysis of Art Objects by Energy-Dispersion X-Ray Fluorescence Spectroscopy."
- 1974 John R. Ferraro and Louis J. Basile for "Spectroscopy at High Pressures: Status Report and Update of Instrumental Techniques."
- 1975 M.L. Parsons, R.J. Lovett, and D.L. Welch for "On the Importance of Spectral Interferences in Atomic Absorption Spectroscopy."
- 1976 Bernard Keisch and Robert C. Callahan for "Sulfur Isotope Ratio in Ultramarine Blue: Application to Art Forgery Detection."
- 1977 Thomas Hirschfeld for a series of brief, but original and illuminating, papers.
- 1978 C.A. Van Dijk, C. Th. J. Alkemade, and P.J. Zeegers for "Pulsed Laser Mode Competition with a Na-Colored Intracavity Flame."
- 1979 John P. Walters and Alexander Scheeline for "Investigation of Bipolar Oscillatory Spark Discharge."
- 1980 John C. Wright for "Double Resonance Excitation in the Condensed Phase: An Alternative to Infrared, Raman, and Fluorescence Spectroscopy."
- 1981 C. Th. J. Alkemade for "Single-Atom Detection."
- 1982 G. Mamantov, A.A. Garrison, and E.L. Wehry for "Analytical Applications of Matrix Isolation Fourier Transform Infrared Spectroscopy."
- 1983 S. B. Smith and G.M. Hieftje for "A New Background Correction Method for Atomic Absorption Spectrometry."
- 1984 N. Sheppard and J. Erkelens for "Vibrational Spectra Absorbed on Surfaces: Forms of Vibrations and Selection Rules for Regular Arrays of Absorbed Species."
- 1985 E.A. Stubbley and G. Horlick for "A Windowed Slew-scanning Fourier Transform Spectrometer for Inductively Coupled Plasma Emission Spectrometry."
- 1986 T. Hirschfeld and B. Chase for "FT-Raman Spectroscopy: Development and Justification."
- 1987 David C. Tilotta, Robert D. Freeman, and William G. Fateley for "Hadamard Transform Visible Raman Spectrometry."
- 1988 David Lubman, Ho Ming Pang, and Chung Hang Sin for "Pulsed High-Pressure Liquid Injection of

Biological Molecules into Supersonic Beam/Mass Spectrometry with Resonant Two-Photon Ionization Detection."

1989 Marek Urban for "A Novel Approach to Photoacoustic FT-IR Spectroscopy: Rheo-Photoacoustic Measurements."

1990 Isao Noda for "Two-Dimensional Infrared (2D IR) Spectroscopy: Theory and Applications."

1991 Alexander Scheeline, Cheryl A. Bye, Duane L. Miller, Steven W. Rynders, and R. Calvin Owen, Jr. for "Design and Characterization of an Echelle Spectrometer for Fundamental and Applied Emission Spectrochemical Analysis."

1992 P.J. Treado, I.W. Levin, and E.N. Lewis for "Near-Infrared Acousto-optic Filtered Spectroscopic Microscopy: A Solid-State Approach to Chemical Imaging."

1993 J. Lin and C.W. Brown for "Universal Approach for Determination of Physical and Chemical Properties of Water by Near-IR Spectroscopy."

1994 Patrick J. Treado, Ira W. Levin, and E. Neil Lewis for "Indium Antimonide (InSb) Focal Plane Array (FPA) Detection for Near-Infrared Imaging Microscopy."

1995 Steven E. Hobbs and Gary M. Hieftje for "Scintillator-Based Nanosecond Light Sources for Time-Resolved Fluorimetry."

1996 T. Rick Fletcher, Matt Rekow, Dwayne Rogge and David Sammeth for "Vaporization of Nonvolatile and Matrix-Isolated Molecules Using a Novel Laser Vaporization Technique."

1997 Michel Pérolet and Anne Nabet for "Two-Dimensional FT-IR Spectroscopy: A Powerful Method to Study the Secondary Structure of Proteins Using H-D Exchange."

1998 Katrin Kneipp for "Single-Molecule Detection of a Cyanine Dye in Silver Colloidal Solution Using Near-Infrared Surface-Enhanced Raman Scattering."

1999 Jack L. Koenig, Rohit Bhargava, and Travis Ribar for "Towards Faster FT-IR Imaging by Reducing Noise."

2000 Laurence A. Nafie for "Dual Polarization Modulation: A Real-Time, Spectral-Multiplex Separation of Circular Dichroism from Linear Birefringence Spectral Intensities"

2001 Neil Overall, Thomas Hahn, Pavel Matousek, Anthony W. Parker, and Michael Towrie for APicosecond Time-Resolved Raman Spectroscopy of Solids: Capabilities and Limitations for Fluorescence Rejection and the Influence of the Diffuse Reflectance.@

2002 Ira Levin, Scott Huffman, and Rohit Bhargava for AGeneralized Implementation of Rapid-Scan Fourier Transform Infrared Spectroscopic Imaging.@

2003 Boris Mizaikoff, Marcus Janotta, and Abraham Katzir for ASol-Gel-Coated Mid-Infrared Fiber-Optic Sensors.@

2004 Hiro-O Hamaguchi and Hirotsgo Hiramatsu for ADevelopment of Infrared Electroabsorption Spectroscopy and Its Application to Molecular Structural Studies.@

2005 Pavel Matousek, Ian Clark, Edward Draper, Michael Morris, Allen Goodship, Neil Overall, Mike Towrie, William Finney, and Anthony Parker for ASubsurface Probing in Diffusely Scattering Media Using Spatially Offset Raman Spectroscopy.@

2006 Ryan D. Pensack, Bozena B. Michniak, David J. Moore, and Richard Mendelsohn for AInfrared Kinetic/Structural Studies of Barrier Reformation in Intact Stratum Corneum Following Thermal Perturbation.@

2007 Taka-Aki Ishibashi and Toshiki Maeda AInfrared Kinetic/Structural Studies of Barrier Reformation in Intact Stratum Corneum Following Thermal Perturbation@

2008 Christian Pellerin, Robert Prud'homme, Yongri Liang, and Damien Mauran for "A New Method for the Time-Resolved Analysis of Structure and Orientation: Polarization Modulation Infrared Structural Absorbance Spectroscopy

2009 Patrick Cutler, Paul Gemperline, David Haaland, and Erik Andries for "Methods for Kinetic Modeling of Temporally Resolved Hyperspectral Confocal Fluorescence Images@

and

Patrick Cutler, Paul Gemperline, and David Haaland for ASystematic Method for the Kinetic Modeling of Temporally Resolved Hyperspectral Microscope Images of Fluorescently Labeled

2010 Kent A. Meyer, Kin C. Ng, Zhanjun Gu, Zhengwei Pan, Robert Shaw, and William B. Whitten for "Combined pertureless Near-Field Optical Second-Harmonic Generation/Atomic Force Microscopy Imaging and Nanoscale Limit of Detection@

2011 S. Michael Angel, Nathaniel R. Gomer, Christopher M. Gordon, Paul Lucey, Shiv K. Sharma, and J. Chance Carter for ARaman Spectroscopy Using a Spatial Heterodyne Spectrometer: Proof of Concept@

2012 Paul Pudney, Eleanor Bonnist, Peter Caspers, Jean-Philippe Gorce, Chris Marriot, Gerwin Puppels, Scott

Singleton, and Martin van der Wolf for AA New in Vivo Raman Probe for Enhanced Applicability to the Body

2013 Rohit Bhargava, Rohith Reddy, Michael Walsh, Matthew Schulmerich, and P. Scott Carney for AHigh-Definition Spectroscopic Imaging

2014 Eric Brauns for "Mid-Infrared Diffuse Reflection on Ultrafast Time Scales"

2015 J.A. Calladine, R. Horvath, A.J. Davies, A. Wriglesworth, X.-Z. Sun, M.W. George. A Probing Organometallic Reactions by Time-Resolved Infrared Spectroscopy in Solution and in the Solid State Using Quantum Cascade Lasers

2016 Naoto Nagai, Yuta Kijima, and Makoto Okawara for "Infrared Response of Sub-Micron-Scale Structures of Polyoxymethylene: Surface Polaritons in Polymers Applied Spectroscopy"

2017 S. M. Angel, P.D. Barnett, N. Lamsal, K. C. Paul, and K. A. Strange for five related papers on the topic of spatial Heterodyne Spectroscopy applied for Raman and Laser Induced Breakdown Spectroscopy. These include P.D. Barnett, N. Lamsal, and S. M. Angel, "Standoff Laser-Induced Breakdown Spectroscopy (LIBS) Using a Miniature Wide Field of View Spatial Heterodyne Spectrometer with Sub-Microsteradian Collection Optics" and P.D. Barnett and S. M. Angel, "Miniature Spatial Heterodyne Raman Spectrometer with a Cell Phone Camera Detector" and K. A. Strange, K. C. Paul, and S. M. Angel, "Transmission Raman Measurements Using a Spatial Heterodyne Raman Spectrometer (SHRS)" and P.D. Barnett, K. A. Strange, and S. M. Angel, "Improving Spectral Results Using Row-by-Row Fourier Transform of Spatial Heterodyne Raman Spectrometer Interferogram" and N. Lamsal and S. M. Angel, "Performance Assessment of a Plate Beam Splitter for Deep-Ultraviolet Raman Measurements with a Spatial Heterodyne Raman Spectrometer"

2018 Timothy J. Johnson, Tanya L. Myers, Russell G. Tonkyn, Tyler O. Danby, Matthew S. Taubman, Bruce E. Bernacki, Jerome C. Birnbaum, Steven W. Sharpe for "Accurate Measurement of the Optical Constants n and k for a Series of 57 Inorganic and Organic Liquids for Optical Modeling and Detection"

2019 Pavel Matousek, Kay Sowoidnich, Michael Towrie, Martin Maiwald, and Bernd Sumpf for "Shifted Excitation Raman Difference Spectroscopy with Charge-Shifting Charge-Coupled Device (CCD) Lock-In Detection"

Ellis R. Lippincott Award

The Ellis R. Lippincott Award is given annually to a worthy recipient in vibrational spectroscopy. The award is sponsored jointly by the Society for Applied Spectroscopy, the Coblentz Society, and the Optical Society of America. An engraved medal is presented to each year's award recipient.

1976 Richard Lord (SAS)	2000 Donald Levy (OSA)
1977 Lionel J. Bellamy (Coblentz)	2001 Lester Andrews (SAS)
1978 Bryce L. Crawford (OSA)	2002 Sanford A. Asher (Coblentz)
1979 E. Bright Wilson (SAS)	2003 Shaul Mukamel (OSA)
1980 George C. Pimentel (Coblentz)	2004 Richard A. Mathies (SAS)
1981 Ian M. Mills (OSA)	2005 Jaan Laane (Coblentz)
1982 Michael Delhays (SAS)	2006 Hai-Lung Dai (OSA)
1983 John Overend (Coblentz)	2007 Jonathan Tennyson (SAS)
1984 Jon Hougen (OSA)	2008 Richard Palmer Van Duyne (Coblentz)
1985 Ira W. Levin (SAS)	2009 Michael D. Fayer (OSA)
1986 Wolfgang Kaiser (Coblentz)	2010 Martin Moskovits (SAS)
1987 C. Bradley Moore (OSA)	2011 Isao Noda (Coblentz)
1988 Andreas Albrecht (SAS)	2012 Keith Nelson (OSA)
1989 Marilyn Jacox (Coblentz)	2013 Xiaoliang Sunney Xie (SAS)
1990 Robert W. Field (OSA)	2014 Andrei Tokmakoff (Coblentz)
1991 No Award Given	2015 Dana D. Dlott (OSA)
1992 Richard Saykally (SAS)	2016 Thomas Elsaesser (SAS)
1993 John Rabolt (Coblentz)	2017 Roberto D. Merlin (Coblentz)
1994 Herbert L. Strauss (OSA)	2018 Peter Hamm (OSA)
1995 Giocinto Scoles (SAS)	2019 Ji-Xin Cheng (SAS)
1996 Giuseppe Zerbi (Coblentz)	2020 Volker Deckert (Coblentz)
1997 Robin Hochstrasser (OSA)	
1998 Takeshi Oka (SAS)	
1999 Mitsuo Tasumi (Coblentz)	

Barbara Stull Graduate Student Award

This award is presented annually to an outstanding student in the field of spectroscopy. It was renamed the McPherson Student Award in 1990 and the Graduate Student Award in 1993. In 2009, the award was renamed the Barbara Stull Graduate Student Award in posthumous honor of her longtime service to the Society office.

1977 Harvey S. Gold
1978 Gregory Johnson
1979 William J. Ray
1980 Katherine M. Stika
1981 Kevin J. Mulligan
1982 Robert Weinberger
1983 Thomas A. Anderson
1984 Stephen Scypinski
1985 Greg Verdine
1986 Shi-Kit Chan
1987 Bryant R. LaFreniere
1988 Jonathan V. Sweedler
1989 William T. Weisler
1990 Robert Lingle, Jr.
1991 Eric Munson
1992 Cheryl A. Bye
1993 Christopher J. Frank
1994 Wade R. Thompson
1995 Whe-Yi Chiang
1996 Jeffery Kinzer
1997 Paul Edmiston
1998 Stone Donghui Shi
1999 Gary A. Baker
2000 Christopher D. Zangmeister
2001 Christine Hughey
2002 Jan Kubelka
2003 Dev Chidambaram
2004 Juris Meija
2005 Kaveh Jorabchi
2006 George Chan and Philipp Kukura
2007 Gary Dobbs
2008 Sean Burrows and Christina Young
2009 Larissa Fenn and Arindam Gangulyy
2010 Karolin Kroening and Olivier Bolduc
2011 Rui Liiu and Rohith Reddy
2012 Ruchira Chatterjee and Nathaniel Gomer
2013 Marie Richard-Lacroix and Andrew Schwartz
2014 Erin Boyle and Elise Dennis
2015 Jay Kitt
2016 Mustafa Unal
2017 David Bryce
2018 Felix Lussier and Marcie Wiggins
2018 Santosh Paidi and Saumya Tiwari
2020 Ewelina Mistek-Morabito

Lester W. Strock Award

The Lester W. Strock Award is given by the New England Section in recognition of a selected publication of substantive research in/or application of analytical atomic spectrochemistry in the fields of earth science, life sciences, or stellar and cosmic sciences.

1980 John P. Walters	1999 D. Bruce Chase
1981 David M. Hercules	2000 Max Diem
1982 Charles Wilkins	John Olesik
1983 M. Barber, R.S. Bardoli, R. D. Sedgwick, A.N. Tyler	2002 Julian Tyson
1984 Gary M. Hieftje, Stanley B. Smith, Jr.	2003 Ramon Barnes
1985 C.R. Blakley, M.L. Vestal	2004 James D. Winefordner
1986 Robert S. Houk, Velmer A. Fassell, Gerald D. Flesch, Harry J. Svec, Alan L. Gray, and Charles E. Taylor	2005 Richard Russo
1987 Richard Sacks, J.M. Goldberg, R.J. Collins, S.Y. Suh	2006 Paul Farnsworth
1988 Thomas C. O'Haver	2007 Detlef Günther
1989 Gary Horlick, Martha A. Vaughn, S.H. Tan	2008 Annemie Bogaerts
1990 Edward S. Yeung	2009 Nicolo Omenetto
1991 M. Bonner Denton	2010 Kay Niemax
1992 G. Hieftje	2011 David Hahn
1993 Willard W. Harrison	2012 Ralph Sturgeon
1994 Richard F. Browner, Guangxuan Zhu	2013 Richard Russo
1995 Michael D. Morris	2014 Stephen Ray
1996 Richard A. Keller	2015 R. Kenneth Marcus
1997 Therese M. Cotton	2016 R. Arvidson
1998 Sandford Asher	2017 Frank Vanhaecke
	2018 Javier Laserna
	2019 S. Michael Angel
	2020 Heidi Goenaga-Infante

SAS/NASLIBS Award

This award is given to the author(s) of the outstanding LIBS paper appearing in *Applied Spectroscopy*. It is awarded at the Society for Applied Spectroscopy award ceremony held at the fall meeting following the calendar year of publication and shall consist of a plaque. This award is selected by a committee and no outside nominations are accepted.

- 2018 Patrick D. Barnett, Nirmal Lamsal, S. Michael Angel for "Standoff Laser-Induced Breakdown Spectroscopy (LIBS) Using a Miniature Wide Field of View Spatial Heterodyne Spectrometer with Sub-Microradian Collection Optics" *Applied Spectroscopy*, Vol. 71, 4
- 2019 Ammon Williams, Supathorn Phongikaroon for "Laser-Induced Breakdown Spectroscopy (LIBS) Measurement of Uranium in Molten Salt" *Applied Spectroscopy*, Vol. 72, 7
- 2020 Anupam K. Misra, Tayro E. Acosta-Maeda, John N. Porter, Genesis Berlanga, Dalton Muchow, Shiv K. Sharma, and Brian Chee for "A Two Components Approach for Long Range Remote Raman and Laser-Induced Breakdown (LIBS) Spectroscopy Using Low Laser Pulse Energy" *Applied Spectroscopy*, Vol. 73, 3

SAS Atomic Technical Section Atomic Student Award

This award will be given to up to 4 students (undergraduate or graduate) who are SAS members and who have excelled in the area of Atomic Spectroscopy.

- 2019 Carlos Abad, Joseph Lesniewski, Htoo Paing, Ingo Strenge
- 2020 Asaf Harel, Marcel Macke, Anika Retzmann, Kelsey Williams

Fellows Award

This award is established to recognize individual members for their outstanding service to the field of spectroscopy. Fellows must continue to be members in good standing of the Society in order to maintain Fellow status. All Honorary Members of the Society shall be granted Fellowship automatically.

Fran Adar	Michael W. George
Michael Angel	Roy Goodacre
Mark A. Arnold	Kathleen M. Gough
Ricardo Aroca	Duncan Graham
Sanford A. Asher	Jeanette G. Grasselli-Brown
Colin Bain	Peter R. Griffiths
Katherine Bakeev	Detlef Günther
Matthew Baker	David Haaland
Ramon M. Barnes	David Hahn
Franklin E. (Woody) Barton	Peter Harrington
John E. Bertie	Joel M. Harris
Rohit Bhargava	Takeshi Hasegawa
Michael W. Blades	D. Christian Hassell
Paul Bohn	David M. Hercules
Karl Booksh	Gary M. Hieftje
Paul N. Bourassa	James A. Holcombe
Deborah K. Bradshaw	Robert S. Houk
Frank V. Bright	Christian Huck
Jose A. Broekaert	John Jackovitz*
David J. Butcher	Young Mee Jung
Mike Carrabba	Kathy Kalasinsky
J. Chance Carter	Sergei Kazarian
Joe Caruso*	Tim Keiderling
John M. Chalmers	Linda KidderYarlott
D. Bruce Chase	Wolfgang Kiefer
Bryce L. Crawford, Jr.*	Jack L. Koenig
David Cremers	S. Roy Koirtyohann
Richard Crocombe	J. Laane
Stanley R. Crouch	Barry Lavine
James A. de Haseth	Igor Lednev
Volker Deckert	Bernhard Lendl
M. Bonner Denton	Ira W. Levin
Max Diem	E. Neil Lewis
Richard Dluhy	Ian R. Lewis
Mary Kate Donais	Fred E. Lytle
Rina Dukor	Curtis Marcott
Cecil R. Dybowski	R. Kenneth Marcus
Neil J. Everall	Marvin Margoshes*
Paul Farnsworth	Alan G. Marshall
Karen Faulds	Pavel Matousek
John R. Ferraro*	Linda McGown
Joseph Gardella	David McCurdy
Robin L. Garrell	Foil A. Miller*

Terry Miller
Nancy J. Miller-Ihli
Ellen Miseo
Boris Mizaikoff
Michael D. Morris
Oliver Mullins
Michael (Micky) Myrick
Laurence A. Nafie
Kay Niemax
Isao Noda
Karl Norris
John W. Olesik
Nicolò Omenetto
Yukihiro Ozaki
Richard Palmer
Diane Parry
Michael J. Pelletier
Don Pivonka
Jürgen Popp
Paul Pudney
John Rabolt
Theodore C. Rains*
John Reffner
Geraldine Richmond
Richard E. Russo
Jim Rydzak
Alexander Scheeline
David Schiering
Shiv Sharma
Heinz Siesler
Walter Slavin
Steven Soper
Nick Stone
Mitsuo Tasumi
Patrick Treado
Richard Van Duyne*
Frank Vanhaecke
Isiah Warner
Charles L. Wilkins
James D. Winefordner
Lawrence Ziegler
*deceased