

NEWSLETTER

No. 145

A Society for Applied Spectroscopy Affiliate
Editor: David S. Trimble

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EDITOR'S COMMENTS

The Coblentz Society continues to grow and expand. This newsletter is your link with the rest of the society. You are welcome to contribute articles and comments for those items or events that you wish to broadcast. The next due date for newsletter submissions is November 1st for the February issue. Regardless of the number of contributions we will always be printing the events and progress of the Society so you can keep in touch with the Board Members and Officers. Newsletter requests can be mailed directly to the newsletter editor as noted in the officer section at the end. Be sure to look for the Coblentz Society Newsletter in every February and August issue of *Applied Spectroscopy*.

Please join me in thanking Kathy Kalasinsky, outgoing Newsletter Editor, for 21 years of dedicated service. She leaves behind some awfully large footprints, which I will do my best to fill.

DAVID S. TRIMBLE

PRESIDENT'S MESSAGE

A great deal has happened in the Coblentz Society since the last newsletter in February. The Pittsburgh Conference has come and gone, and there are many Society activities to report. Following are Coblentz Society highlights for the year through June.

One of the Coblentz Society's primary missions is to support the vibrational spectroscopy community by sponsoring several awards for outstanding achievements. These include the Coblentz Award, presented at the Ohio State Symposium, the Williams–Wright and Bomem–Michelson Awards, presented at Pittcon, and the Lippincott Award, presented at either FACSS or ICAVS. Coblentz Student Awards are also given annually.

The Williams–Wright Award is awarded annually at the Pittsburgh Conference to an industrial spectroscopist who has made significant contributions to vibrational spectroscopy while working in industry. The work may include infrared and/or Raman spectroscopy and instrument development, as well as theory and applications of vibrational spectroscopy. This year at Pittcon, the Williams–Wright Award was presented by Robert Messerschmidt to Mike Carrabba of Hach Homeland Security

Technologies for his outstanding achievements in the field of Raman Spectroscopy. Dr. Carrabba was recognized for his introduction of the use of holographic filters for Raman spectroscopy and development of numerous Raman instruments and techniques.

The Bomem–Michelson Award, which is sponsored by ABB, is dedicated to the memory of Professor A. A. Michelson, developer of the Michelson interferometer. Bomem sponsors the award to honor scientists who have advanced the technique(s) of vibrational, molecular, Raman, or electronic spectroscopy. The Bomem–Michelson Award was presented to David F. Bocian of the Department of Chemistry, University of California, Riverside. Dr. Bocian was honored for his achievements in spectroscopic (vibrational, electronic, magnetic) and electrochemical investigations of tetrapyrrolic systems with applications towards both biological and materials chemistry.

Several other awards of interest to the Coblentz Society were also presented at Pittcon. These include the 2007 Pittcon Heritage Award to David Schwartz, Chairman of Bio-Rad Laboratories, the Pittsburgh Spectroscopy



Woody Barton, Brandye Smith-Goettler, and Jim Rydzak (L to R) work the Coblentz booth at the Pittsburgh Conference in Chicago this past March.



Mike Carrabba (L), Director of Hach Homeland Security Technologies Air Systems Division, is presented the Williams–Wright Award by Bob Messerschmidt, Coblenz Society President, at this year's Pittsburgh Conference.

Award to Professor Robert M. Corn of the University of California, Irvine, the Tomas B. Hirschfeld Award to Dr. Gerard Downey of the Irish Agriculture & Food Development Authority, and the Maurice F. Hasler Award to Dr. D. Bruce Chase of the DuPont Corporate Center for Analytical Sciences. Vibrational spectroscopy is alive and well at the Pittsburgh Conference!

The Coblenz Award was recently presented to Dr. Martin Zanni of the University of Wisconsin, Madison at the OSU International Symposium on Molecular Spectroscopy. Dr. Zanni was recognized for his use of 2D IR spectroscopy to study molecular vibrations in large biomolecular systems. This prestigious award recognizes young professional spectroscopists for their research efforts in *fundamental* aspects of vibrational spectroscopy. Congratulations to all of these outstanding scientists!

The Coblenz Society has announced the inauguration of the Craver Award. This award recognizes young professional vibrational spectroscopists for their efforts in the area of *applied* vibrational spectroscopy. The award is named after Clara D. Craver for her pioneering efforts in promoting the practice of infrared vibrational spectroscopy and for her many years of service to the Coblenz Society. The award committee has selected Dr. Katherine A. Bakeev of GlaxoSmithKline as the first recipient of the Craver Award. Dr. Bakeev will be presented with the award at the upcoming FACSS Conference in Memphis, Tennessee, this October. This award will be further recognized at FACSS with a plenary lecture by Dr. Bakeev and a separate award session of invited speakers.

The Society held its annual reception at Pittcon on Tuesday evening at the Hyatt Regency McCormick Place. At the reception, the establishment of the Craver Award was announced, during which André Sommer, the Society Treasurer, paid tribute to Clara and her more than 50 years of contributions to the Coblenz Society. Bob Messerschmidt was acknowledged for his tenure as president. Kathy Kalasinsky was also recognized for more than 21 years of service to the Society. Not only did Kathy serve



Henry Buijs (R) of ABB presents the Bomem–Michelson Award to Distinguished Professor David Bocian of the University of California, Riverside, at the Pittsburgh Conference this past March.

on the board from 1985 to 1989, as the Society's President from 1989 to 1991, and as a key contributor to the database project, but also as the Newsletter Editor from 1986 to 2007—21 years! Thank you, Kathy, for all your many contributions. Don Pivonka and Dave Himmelsbach rolled off the Board this year at Pittcon and were thanked for their four years of service. And last, but not least, David Trimble was introduced as our new Newsletter Editor. Thank you, David, for graciously agreeing to take over this position so Kathy can step down for a well-deserved rest.

I would also like to announce the Society's election results for this year. Congratulations go out to Clara Craver, Scott Little, Brian Marquardt, and Michael Myrick as the newest Coblenz Society Board Members. They join Ian Lewis, Christine Wehlburg, Mark Druy, and Richard Larsen on the Society's governing board.

In closing, I thank all of our members for their continuing support of the Society. Those of you who have contributed financially in excess of your annual dues and those of you who have contributed by volunteering many hours of your time are what keep the Coblenz Society thriving. We are grateful for all your support.

MARY W. CARRABBA
PRESIDENT



Kathy Kalasinsky (L) receives a well-deserved award of appreciation from incoming Coblenz President Mary Carrabba for her 21 years of service as the Editor of the Coblenz Society Newsletter.

KATHERINE A. BAKEEV RECEIVES THE FIRST CRAVER AWARD

The Coblenz Society is pleased to announce that Dr. Katherine A. Bakeev of GlaxoSmithKline Plc is the recipient of the 2007 Craver Award. In 2006, the Society created this award to recognize young professional spectroscopists that have made significant contributions in applied vibrational spectroscopy. The award is named in recognition of Clara D. Craver for her pioneering efforts in promoting the practice of infrared vibrational spectroscopy and her many years of service to the Coblenz Society. The Craver Award is the complement of the Society's prestigious Coblenz Award that recognizes young spectroscopists for efforts in fundamental aspects of vibrational spectroscopy. Dr. Bakeev is recognized for her efforts in, and promotion of, near infrared (NIR) spectroscopy and chemometrics to create greater sophistication in process analytical methods and to obtain improved process understanding.

At GSK, Dr. Bakeev is a Principal Scientist and member of the Process Analytical Technology and Chemometrics Group within the Strategic Technologies unit. The scope of her work includes developing methods for process analysis from lab to manufacturing scale. She was previously a product specialist with Foss NIRSystems, Silver Spring, MD. In that role, she supported applications of NIR for the pharmaceutical and chemical markets in the Eastern U.S. Her education is in polymer science and engineering, with a B.S. from Case Western Reserve University (1987) and a Ph.D. from the University of Massachusetts at Amherst (1993). Prior to graduate studies, she received a Rotary Foundation Scholarship to spend a year in the laboratory of Prof. Paul Rempp at the Institut Charles Sadron in Strasbourg, France. She also holds a Masters in Technology Management from Stevens Institute of Technology (2001). Dr. Bakeev has published several papers and given numerous presentations on the use of NIR spectroscopy. She has taught courses on Process Analytical Spectroscopy at the Eastern Analytical Symposium and the International Diffuse Reflectance Conference. She is the editor of the book

Process Analytical Technology: Spectroscopic Tools and Implementation Strategies for the Chemical and Pharmaceutical Industries. Dr. Bakeev is the current president of the Council for Near Infrared Spectroscopy and a member of The Coblenz Society, the Society for Applied Spectroscopy, and the American Chemical Society. She also actively participates in ASTM committees on Pharmaceutical Applications of PAT and E13 for Molecular Spectroscopy and Separation Science.

COBLENZ SOCIETY STUDENT AWARDS

The Coblenz Society would like to recognize those outstanding students who have been selected to receive the Coblenz Student Award for excellence in vibrational spectroscopy: Abdulaziz Al-Saadi, Texas A&M University, advisor Dr. Jaan Laane; Adam Steeves, Massachusetts Institute of Technology, advisor Professor Bob Field; Audrey Eigner, University of Wisconsin–Eau Claire, advisor Dr. James A. Phillips; Arthur McClelland, University of Michigan, advisor Professor Zhan Chen; Bernd Kuestner, Universitat Wurzburg, advisor Professor Sebastian Schluucker; Bheemraj Ramoo, Towson University, advisor Professor Nordulf W. G. Debye; Brian Loudermilk, University of Georgia, advisor Professor James A. de Haseth; Christopher Fox, University of Utah, advisor Professor Joel M. Harris; Heather Brooke, University of South Carolina, advisor Professor Michael Myrick; James P. R. Day, Durham University, advisor Professor Colin D. Bain; Kristin Lammers, Rutgers University, advisor Professor Georgia A. Arbuckle-Keil; and Robynne Kirkpatrick, Oregon State University, advisor Professor Joseph W. Nibler.

COBLENZ AT FACSS

FACSS this year will be held at the Memphis Cook Convention Center in Memphis, Tennessee. The meeting runs from October 14th to the 18th, and includes a Networking Event on Wednesday night at Graceland—the home of the King of Rock 'n' Roll himself.

For additional information please see the FACSS web site (<http://facss.org>) or contact the national office at (505) 820-1648.

The strong technical program is anchored by a variety of Coblenz sessions, including The Craver Award Plenary Lecture and Symposium, topics within NIR and MIR spectroscopy, including Coherent Two-Dimensional Spectroscopy, NIR and MIR imaging, and Novel Instrumentation.

Plan to be there in time to kick off the meeting with the Welcome Mixer on Sunday evening and to support the SAS Student Poster Session, which occurs during this event. The perennially crowd-pleasing Raman and SAS mixers will be held on Tuesday night for the spectroscopy community to gather and enjoy.

Looking forward to seeing you there!

LINDA KIDDER

COBLENZ AT EAS

The 2007 Eastern Analytical Symposium will feature lots of Spectroscopy as well as the other staples of EAS (see website for details, www.eas.org). The conference

will again be held in the Garden State Convention Center, Somerset, New Jersey, this year from November 11–15.

The sessions organized by Coblenz include a half-day session on Raman Spectroscopy organized by Neal Lewis and two half-day sessions on Vibrational Imaging titled “Vibrational Spectrometric Imaging” and “Vibrational Imaging from Nano- to Macro-”.

Other sessions of interest include “NIR for PAT”, “Spectroscopy for Heritage Conservation”, “Spectroscopy in the Pharmaceutical Industry”, and several sessions on Chemometrics.

Please make plans to attend the EAS Coblenz reception on Monday evening at 6 PM. This always is a nice time to relax, have some food and drink, and catch up with colleagues.

We look forward to seeing you at the EAS 2007!

DAVID TRIMBLE

CALL FOR NOMINATIONS FOR THE COBLENTZ SOCIETY'S AWARDS

The Coblenz Society requests nominations for the prestigious awards it supports:

COBLENTZ AWARD. The Coblenz Award is presented annually to an outstanding young molecular spectroscopist under the age of 36. The candidate must be under the age of 36 on January 1 of the year of the award. Previous recipients of this award are: John Overend (1964), William Fateley/Robert Snyder (1965), Edwin Becker (1966), Peter Krueger (1967), Jon Hougen (1968), James Durig (1969), Guiseppi Zerbi (1970), Clive Perry (1971), George Leroi (1972), C. Bradley Moore (1973), C.K.N. Patel (1974), Bernard J. Bulkin (1975), Geoffrey Ozin/George Thomas, Jr. (1976), Peter Griffiths (1977), Lester Andrews (1978), Lionel Carreira (1979), Richard Van Duyne (1980), Laurence Nafie (1981), Christopher Patterson (1982), Dave Cameron (1983), Steve Leone (1984), John Rabolt/Graham Fleming (1985), Joel Harris (1986), Alan Campion (1987), Keith Nelson (1988), Geri Richmond (1989), Hai-Lung Dai (1990), Paul Bohn (1991), Tom Rizzo (1992), Peter Felker (1993), Paul Alivisatos (1994), David J. Rakestraw (1995), Xiaoliang Sunney Xie (1996), Mounji Bawendi (1997), Pat Treado (1998), Brooks Pate (1999), Martin Gruebele (2000), Stacey Bent (2001), Andrei Tokmakoff (2002), Andrea Callegari (2003), Sergey Nizkorodov (2005), Michael Strano (2006), and Dr. Martin Zanni (2007).

The award carries with it a \$2,000 prize plus a \$500 travel allowance. Files of candidates will be kept active until the date of age eligibility is exceeded. Annual updates of files of candidates are encouraged.

Nominations, which should include a detailed description of the nominee's accomplishments, a curriculum vitae, and as many supporting letters as possible, must be submitted to the award chairman, [Dr. Andy Sommer, Department of Chemistry and Biochemistry, Miami University, Oxford, OH 45056; phone (513) 529-2874; fax (513) 529-7284; e-mail sommeraj@muohio.edu] on or before September 1st.

CRAVER AWARD. The Craver Award recognizes young molecular spectroscopists who have made signif-



Bob Messerschmidt (President), Clara Craver, Mary Carrabba (President Elect), and Andy Sommer (Treasurer) (L to R) celebrate the announcement of the Society's newest honor, the Craver Award.

icant contributions in applied vibrational spectroscopy. The candidate must be under the age of 45 on January 1st of the year of the award. The work may include any aspect of infrared (NIR, MIR, or Far), and/or THz, and/or Raman spectroscopy in applied vibrational spectroscopy. The nominees may come from an academic, government lab, or industrial background. This award is presented annually at the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) Conference. The award carries with it a \$2,000 honorarium, a plaque, and a \$500 travel allowance. At the FACSS Conference, the recipient will present The Craver Award Plenary Lecture on current and future aspects in their research area of interest. Further, a separate half-day award symposium with six invited presentations in honor of the award recipient also occurs at the same conference.

Nominations must include a detailed description of the nominee's accomplishments, a curriculum vitae or resume, and a minimum of three supporting letters. Nominations close on July 31st of each year prior to the award year. Files of candidates will be kept active until the age of eligibility is exceeded. Annual updates of candidate files are encouraged and will be solicited from the nomination source by the Award's committee chair. Nomination packages should be sent to the Chairman of the Craver Award Selection Committee [John W. Hellgeth, Ph.D., Hewlett-Packard Company, 1000 NE Circle Blvd., MS 713A, Corvallis, OR 97330; phone (541) 715-1716;

fax (541) 715-0568; e-mail: john.w.hellgeth@hp.com] on or before July 31st.

WILLIAMS–WRIGHT AWARD. This award is presented annually at the Pittsburgh Conference to an industrial spectroscopist who has made significant contributions to vibrational spectroscopy while working in industry. The work may include infrared and/or Raman spectroscopy and instrumental development, as well as theory and applications of vibrational spectroscopy. Government labs are not considered industry in this definition. No restrictions are placed on the selection of the Awardee because of age, sex, or nationality, but the Awardee must still be working at the time the award is presented. The nominating document should clearly state the significance of the contribution made by the nominee, e.g., the introduction of novel methods, techniques, or theories; innovative work in the field of vibrational spectroscopy; significant improvement on existing methods, theory, or techniques; or important impact on the field of vibrational spectroscopy arising from the volume of contributions in a specific area. The nomination should include a resume of the nominee's career and highlight accomplishments and any publications and talks. Seconding letters to the nomination are useful, but not necessary. Files on nominees will be kept active for three years, after which the candidate must either be renominated with an updated file or the file will be closed.

Previous recipients of the Williams–Wright Award are: Norman Wright (1978), Norman Colthup (1979), Jeanette Grasselli (1980), Paul Wilks/James Harrick (1981), Robert Hannah (1982), Harry Willis (1983), Robert Jakobsen (1984), Clara D. Craver/Richard A. Nyquist (1985), Abe Savitzky/Joseph J. Barret (1986), A. Lee Smith (1987), Darwin L. Wood (1988), D. Bruce Chase (1989), John F. Rabolt (1990), Robert J. Obremski (1991), Timothy Harris (1992), Curtis Marcott (1993), John M. Chalmers (1994), Michael R. Philpott (1995), Bob Messerschmidt (1996), Michael J. Pelletier (1997), Henry Buijs (1998), Don Kuehl (1999), John Reffner (2000), Raul Curbelo (2001), Isao Noda (2002), Neil Everall (2003), Neil Lewis (2004), Fran Adar (2005), Harry Owen (2006), and Michael Carrabba (2007).

This award includes a \$2,000 cash prize plus \$500 toward travel expenses to the Pittsburgh Conference. Nominations should be sent to the Chairman of the Williams–Wright Award Selection Committee [Dr. Andy Sommer, Department of Chemistry and Biochemistry, Miami University, Oxford, OH 45056; phone (513) 529-2874; fax (513) 529-7284; e-mail sommeraj@muohio.edu] before June 1st.

BOMEM–MICHELSON AWARD. This award is dedicated to the memory of Professor A.E. Michelson, developer of the Michelson interferometer. ABB sponsors the award to honor scientists who have advanced the technique(s) of vibrational, molecular, Raman, or electronic spectroscopy. Contributions may be theoretical, experimental, or both. The recipient must be actively working and may be associated with the academic, industrial, government, or private sector. The Awardee must be at least 37 years of age. The award consists of a crystal symbol of the Bomem–Michelson award and an honorarium. In order to ensure that the award is based on an

independent evaluation of the candidate's achievements, the selection is made by a committee chosen by the Coblenz Society. The presentation will be made at the Pittsburgh Conference.

Previous recipients of the Bomem–Michelson Award are: Thomas G. Spiro (1987), Carl Linberger (1988), Richard J. Saykally (1989), William Klemperer (1990), Alan Pine (1991), Jyrki Kauppinen (1992), Jack L. Koenig (1993), Herbert L. Strauss (1994), Terry Miller (1995), Ira Levin (1996), William H. Woodruff (1997), Bruce Chase (1998), Sandy Asher (1999), John F. Rabolt (2000), Larry Nafie (2001), Dan Neumark (2002), Peter Griffiths (2003), Dave Haaland (2004), Paul Bohn (2005), Robert W. Field (2006), and David Bocian (2007).

The nomination should include a resume of the candidates' career as well as the special research achievements that make the candidate an eligible nominee for the ABB sponsored Bomem–Michelson Award. Files on nominees will be kept active for three years, after which the candidate must either be renominated with an updated file or the file will be closed. The nominating letter and supporting letters should be sent to: Dr. Dave Tuschel, ChemImage Corp., 7301 Penn Ave., Pittsburgh, PA 15208; phone (412) 241-7335 and fax (412) 241-7311; e-mail tuschel@chemimage.com. Nominations will close June 1st.

ELLIS R. LIPPINCOTT AWARD. The purpose of the Ellis R. Lippincott Award is to honor Dr. Lippincott's memory by the recognition of significant contributions and notable achievements in the field of vibrational spectroscopy. The medal is sponsored jointly by the Coblenz Society, Optical Society of America, and the Society for Applied Spectroscopy. It is awarded annually at an appropriate scientific meeting. The award consists of the medal and travel allowances to the meeting. The awardee will present an address related to contributions for which he/she is being honored. In addition, there may be a symposium of talks by invited speakers.

Recipients of the medal must have made significant contributions to vibrational spectroscopy as judged by their influence on other scientists. Because innovation was a hallmark of the work of Ellis R. Lippincott, this quality in the contributions of the candidates will be carefully appraised. The contributions may be theoretical, experimental, or both, and may have been made in the course of applied as well as basic research.

No restriction is placed on the citizenship or national origin of candidates. A candidate need not be a member of any of the sponsoring societies. The award will not be made posthumously unless an awardee should die after the procedure of selection has been completed.

Previous recipients include: Richard G. Lord (1976), Lionel Bellamy (1977), Bryce Crawford, Jr. (1978), E. Bright Wilson (1979), George C. Pimentel (1980), Ian Mills (1981), Michel Delhay (1982), John Overend (1983), Jon T. Hougen (1984), Ira W. Levin (1985), Wolfgang Kaiser (1986), C. Bradley Moore (1987), Andreas C. Albrecht (1988), Marilyn E. Jacox (1989), Robert W. Fields (1990), Richard J. Saykally (1992), John F. Rabolt (1993), Herbert L. Strauss (1994), Giacinto Scoles (1995), Giuseppe Zerbi (1996), Robin Hochstrasser

(1997), Takeshi Oka (1998), Mitsuo Tasumi (1999), Donald Levy (2000), Lester Andrews (2001), Sandford Asher (2002), Shaul Mukamel (2003), Richard Mathies (2004), Jaan Laane (2005), Hai-Lung Dai (2006), and Jonathan Tennyson (2007).

Nominations should contain the name and affiliation of the nominee and sufficient background information to justify the nomination. A nominator is expected to believe sufficiently strongly in the quality of the work of his or her candidate to provide evidence for that belief. No restriction is placed on who may nominate, and all nominations received by the committee prior to October 1 in any given year will be considered for the award to be presented in the following year. Files on nominees are kept active for three years, after which the candidate must be renominated with an updated file or the file will be closed. Nominations should be submitted to: Chairman, Lippincott Award Selection Committee, % Optical Society of America, 2010 Massachusetts Ave., N.W., Washington, D.C. 20036; phone (202) 416-1420; fax (202) 416-6134.

SOCIETY ANNOUNCEMENTS

Membership. Anyone wishing to join the Society may do so by sending \$10 to Dr. Richard Larsen, Coblentz Society Membership Chairman, 6807 Gravel Branch Rd., Hurlock, MD 21643-3747.

Board Meeting. The Coblentz Society Board will hold its semi-annual meeting the third week in October at the FACSS Conference at the Memphis Cook Convention Center in Memphis, Tennessee. Any article of business that you want the Board members to consider needs to be sent in writing to Mary Carrabba, Coblentz Society President (see address at end of newsletter), prior to the conference.

Board Members. Two new board members are elected by the Society each year. Please send nominations for the term 2008–2012 to Coblentz Society President, Mary Carrabba (see address at end of newsletter) by October 1st.

Honorary Members. The Society is awarding honorary memberships in the Society to people who have made outstanding contributions to the field of Spectroscopy. Send your nomination for 2008 to Mary Carrabba, Coblentz Society President (see address at end of newsletter) prior to September 1st.

COBLENTZ SOCIETY BOARD

<u>Name</u>	<u>Term Expires</u>	<u>Telephone</u>
Ian Lewis Kaiser Optical Systems, Inc. 371 Parkland Plaza Ann Arbor, MI 48103	2008	(734)214-3624
Christine Wehlburg Sensors Systems Eng., Lead MITRE Corporation MS T630 7515 Colshire Drive MacLean, VA 22102-7508	2008	(703)883-6081

Mark Drury Physical Sciences, Inc. 20 New England Business Center Andover, MA 01810	2009	(978)738-8195
Richard Larsen 6807 Gravel Branch Rd. Hurlock, MD 21643-3747	2009	(410)822-1220
Brian J. Marquardt University of Washington– CPAC 135 Chemistry Library Seattle, WA 98195	2010	(206)543-6054
Michael L. Myrick University of South Carolina Department of Chemistry 631 Sumter St Columbia, SC 29208	2010	(803)777-5264
Clara Craver Goose Creek Lake Highway P. O. Box 265 French Village, MO 63036-0265	2011	(573)358-2589
**Nov–Apr: 500 Park Blvd South #72 Venice, FL 34285		(941)485-0820
Scott C. Little 6350 Pheasant Lane Verona, WI 53593	2011	(608)845-7955

COBLENTZ SOCIETY OFFICERS

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