

NEWSLETTER

No. 146

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

February 2008

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 May 1st for the August 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*.

DAVID S. TRIMBLE

PRESIDENT'S MESSAGE

As I write this letter for the upcoming issue of the Newsletter, it is approaching the end of 2007. December is the month when we tend to reflect back on the events of the year past and look forward to the approaching new year.

Looking back at events since our last newsletter, the Society has actively pursued our continuing effort to achieve and maintain a greater presence in the spectroscopy community. The Coblentz Society was involved in a number of activities at the FACSS conference last October in Memphis, Tennessee. FACSS was the venue for the presentation of the Society's first annual Craver Award to Dr. Katherine A. Bakeev of GlaxoSmithKline. 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 Coblentz Society. This award recognizes young professional vibrational spectroscopists for their efforts in the area of *applied* vibrational spectroscopy. The award was recognized at FACSS with a plenary lecture by Dr. Bakeev and a separate award session of invited speakers.

For many years, the Coblentz Society has encouraged young scientists to pursue studies in spectroscopy by recognizing outstanding students with the Coblentz Student Award. This year, three of our 2007 student award winners participated in FACSS and were acknowledged at

the Society for Applied Spectroscopy's Student Poster Session on Sunday night. They are Heather Brooke, University of South Carolina, Brian Loudermilk, University of Georgia, and Bernd Keustner, Institut für Physikalische Chemie, Universität Würzburg. A complete list of our student winners may be found in the August 2007 issue of the Newsletter.

The Coblentz Society also organized eight sessions at the 2007 FACSS conference:

- *Advances in FT-IR Imaging*—Organizer and President, Rohit Bhargava
- *Biovibrational Spectroscopy*—Organizer, Linda Kidder and Max Diem; President, Max Diem
- *Chemometrics Along Spatial and Chemical Dimensions*—Organizer and President, Frederick Koehler
- *Coherent Two-Dimensional Spectroscopy I*—Organizer and President, Wei Zhao
- *Coherent Two-Dimensional Spectroscopy II*—Organizer and President, Wei Zhao
- *NIR Applications in the Pharmaceutical Industry*—Organizer and President, Katherine Bakeev
- *Novel Miniature Spectroscopic Instrumentation*—Or-



Coblentz President Mary Carrabba (right) presents the 1st Annual Craver Award to Dr. Katherine A. Bakeev of Glaxo SmithKline.



Coblentz Officers (right to left) Andy Sommer and Mary Carrabba, Board Member Christine Wehlburg, and an unidentified chromatologist enjoy the Exhibit Opening Reception at FACSS.

ganizers and Presiders, John Chalmers and Richard Crocombe

- *NIR Imaging*—Organizer, Caroline Rodger; Presider, Mike Claybourn

Many thanks to our FACSS (and EAS) program coordinator, Linda Kidder, and all who organized and presided over these sessions for all your hard work.

Speaking of EAS, the Coblentz Society again contributed to the program at this conference, organizing two sessions:

- *Vibrational Spectroscopic Imaging*—Organizer and Presider, David Schiering
- *Laboratory to Process Raman: See the Reaction, Understand the Chemistry, Control the Process*—Organizer and Presider, Ian Lewis

Thanks again to Linda and the session organizers and presiders for helping to maintain the Coblentz presence at these two conferences.

The Coblentz Society also held their traditional, well-attended Monday night reception at EAS. Many thanks go out to the two corporate sponsors of this year's event—Thermo Fisher Scientific and Horiba Jobin Yvon—who helped to make the reception a great success. Your financial sponsorship of the Coblentz event is greatly appreciated!

Last, but certainly not least, 2007 brought the first sale of the Coblentz Society's digital infrared spectral database through our agreement with ACD Labs!

Looking ahead, the Society has plans for a busy 2008. First up is the Pittsburgh Conference in New Orleans, where we will be presenting the Williams–Wright Award and the ABB-sponsored Bomem–Michelson Award. This spring the 2008 Williams–Wright Award is being presented to Dr. Rina Dukor, President and CEO of Biotoools, Inc. Dr. Dukor is being recognized for her work on the application of infrared and Raman vibrational circular dichroism to molecules of biological and pharmaceutical interest. The recipient of the 2008 Bomem–Michelson Award is Professor Geraldine Richmond, Department of

Chemistry at the University of Oregon. Dr. Richmond is being honored for her contributions to the field of molecular spectroscopy through the use, development, and advancement of nonlinear optical methods to study molecular structure and interactions at complex surfaces and interfaces. Speakers for the two award symposia are:

Bomem–Michelson Award Symposium (Wednesday morning):

- Bruce Chase—Planar Array Infrared Spectroscopy: Academia + Industry = Product
- Sharon Neal—Multivariate Spectroscopy of Lipid-Based Soft Materials
- Geri Richmond—Going Nonlinear to Study the Structure and Dynamics of Molecular Assembly at Complex Interfaces
- Ira Levin—Lipid Microdomain Formation: Characterization by Infrared Spectroscopy and Ultrasonic Velocimetry
- Mary Wirth—Protein Microarrays with High Sensitivity

Williams–Wright Award Symposium (Wednesday afternoon):

- Rina Dukor—Reflections on Vibrations of Blockbuster Pharmaceuticals
- Tim Keiderling—Peptide Conformational Studies with Optical Spectroscopy, Global and Local, Using Isotopic Labeling
- Bruce Chase—Industrial Vibrational Spectroscopy: Fun or Functional?
- Sanford Asher—UV Raman Studies of the Electronic Structure Peptide and Proteins: Development of Quantitative Methods for MilliAngstrom Structure Determinations
- Henry Buijs—Greenhouse Gas Measurement in the Atmosphere
- Robin Garrell—Multi-Step and Parallel Reactions in Microdroplet Arrays
- Curtis Marcott—Industrial Applications of Spectral Imaging from 400 to 11,000 nm
- Laurence Nafie—Rina's Magic Recipe: Mix Chirality, Molecular Vibrations, Pharmaceuticals and Lots of Proteins

Many thanks go out to Neil Lewis, 2007 Williams–Wright Award Committee Chair, and Dave Tuschel, 2007 Bomem–Michelson Award Committee Chair, and all the committee members for their efforts in the awards selection process.

Please keep in mind that the Society's annual business meeting will be held Wednesday afternoon after the Williams–Wright Award Symposium. Instead of our traditional wine and cheese reception, however, the Coblentz Society will be joining the Society for Applied Spectroscopy for a reception in honor of SAS's 50th anniversary year. The reception will be held Tuesday, March 4th, at 6:00 p.m. in the Versailles Room at the Hilton. Stop by the Coblentz Booth at Pittcon for more details.

Speaking of the booth, stop by and say hello, check your membership, or buy a T-shirt. Our booth number is 4903 and we're looking forward to seeing you. The Coblentz Society booth is a prominent feature for vibrational spectroscopists and a great meeting place. If you are at



“The King” couldn’t resist the FACSS Exhibit Opening.



The annual Sunday Hands-On-Raman workshop has grown to occupy an entire section of the exhibit hall!

Pittcon and have some spare time, please visit the booth and volunteer for a brief stretch of booth duty with a peer. Sometimes the best way to run into the people you’d like to see is by staying in one place!

The recipient of the 2008 Coblentz Award is Dr. Xiaowei Zhuang of Harvard, for her experimental efforts in single-molecule and single-particle imaging *in vitro* and in live cells. The award will be presented with a plenary lecture at the 63rd Ohio State University International Symposium on Molecular Spectroscopy this June. This prestigious award recognizes young professional spectroscopists for their research efforts in *fundamental* aspects of vibrational spectroscopy.

As evidenced by the preceding events, one of the Coblentz Society’s primary missions is to bestow recognition upon professionals for excellence in the advancement of vibrational spectroscopy. These include:

- The Coblentz Award, in recognition of achievements by young professional spectroscopists for research efforts in fundamental aspects of vibrational spectroscopy, presented at the Ohio State Symposium
- The Craver Award, in recognition of achievements by young professional spectroscopists for research efforts in applied aspects of vibrational spectroscopy, presented at FACSS
- The Williams–Wright Award, in recognition of industrial spectroscopists, presented at Pittcon
- The Bomem–Michelson Award (sponsored by ABB Bomem), in recognition of continued advancement in vibrational, molecular, Raman, or electronic spectroscopy, presented at Pittcon
- The Lippincott Award (in conjunction with SAS and OSA), in recognition of significant contributions to vibrational spectroscopy as judged by their influence on other scientists, presented at either FACSS or ICAVS
- Coblentz Student Awards are also given annually

Nominations for these awards are a continual effort. The Coblentz Society urges all vibrational spectroscopists to submit nominations of those deserving these recognitions for the 2009 awards. Nominations should be sent to the appropriate award committee chairs, whose ad-

resses may be found at the Coblentz Society website (www.coblentz.org) or elsewhere in this newsletter.

The Coblentz Society website at www.coblentz.org is our primary means of disseminating information to our members. Please visit the site and let us know if we have overlooked anything or if updates are needed. We are currently investigating online membership registration, dues payment, and a shift to electronic voting in order to streamline some of our administrative processes. Stay tuned for details. Any other suggestions regarding the website are welcome.

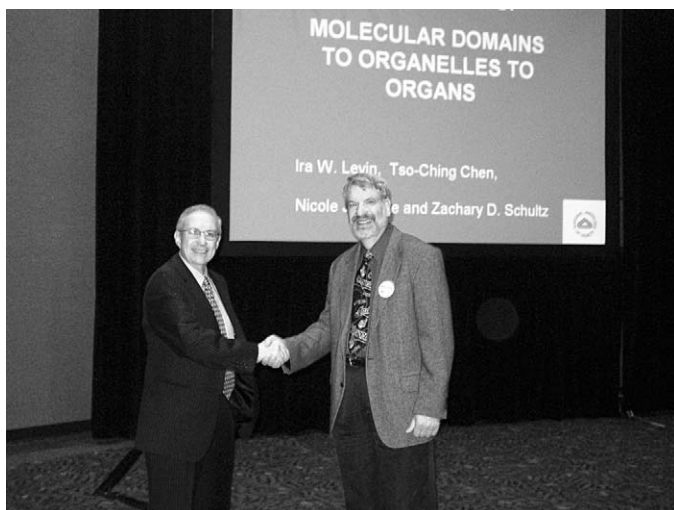
In closing, should you have any suggestions or concerns regarding the Society, please share them with me or the Board. The Coblentz Society is a 100% volunteer effort. The best way to support your Society is to work with your peers to build up and strengthen the organization. There are always openings on committees that could use your support. Please don’t hesitate to volunteer. The biggest asset the Society has is its members. Through your collective knowledge, support, and dedication to the field, the Coblentz Society continues to thrive. Thank you all for your efforts and I look forward to seeing you at the Pittsburgh Conference in March.

MARY W. CARRABBA
PRESIDENT

‘TOMORROW’S ANALYTICAL SCIENCE TODAY’: THE FACSS 2008 CONFERENCE IN RENO

Once again, Coblentz participates in a valuable role with the planning of the FACSS 2008 meeting. Linda Kidder did an excellent job last year and will be coordinating the Coblentz organized sessions again this year. Of particular note, the Coblentz Society’s Craver Award Plenary Lecture and award session will honor a young investigator working in Applied Vibrational Spectroscopy.

The organizing committee of the **FACSS 2008 Conference** invites you to join us in **Reno, Nevada, from September 28th to October 2nd** for the Federation’s



FACSS Governing Board Chair Jim Rydzak (right) welcomes Plenary Speaker Ira Levin of the National Institutes of Health.

35th annual meeting. The Federation has a proud tradition of bringing together leading scientists across many disciplines for scientific exchange. This is accomplished through a world-class technical program, exhibition, and a variety of informal networking opportunities. The diverse technical program includes plenary and award speakers, oral and poster presentations in Atomic Spectroscopy, Mass Spectrometry, IR, NIR, THz, and Raman Spectroscopies, Nanotechnology, Bioanalytical, Pharmaceuticals, Chemometrics, Imaging, Forensics, Separations and Process Analysis, and other key scientific areas. This year, the Wednesday evening networking event will be open to ALL the conference attendees. It will be an exciting event not to be missed!

The Grand Sierra Resort provides an excellent venue for the meeting. The Resort's conference facilities have extensive meeting and exhibit space located in a separate wing away from the distractions of the casino and hotel. The Grand Sierra Resort provides many options for fine and casual dining, bars and lounges, and entertainment, including a bowling alley, movie theater, shopping, and, of course, a casino. Newly renovated rooms have been reserved at an excellent conference rate of \$109/night. The Reno-Tahoe location is ideal for the outdoor enthusiast or for those who just want to enjoy the beauty of the Sierra Nevada mountains.

The FACSS Conference is an international meeting that covers the whole of analytical chemistry with an emphasis on emerging technology. This conference is established as the National Meeting for the Society for Applied Spectroscopy (SAS). This year's conference will be special as SAS will celebrate its 50th Anniversary! Our other sponsoring organizations include the American Chemical Society, Analytical Division; American Society for Mass Spectrometry; ANACHEM; Analysis Division of the Instrument Society of America; the Coblenz Society; and the Royal Society of Chemistry. Each society brings their own special skills and insight into organizing focused technical symposia. Come join your society to listen, exchange, and learn at the FACSS 2008 meeting.

Conference details and abstract submission can be found on the website at www.facss.org. We look forward to seeing you at FACSS 2008 in Reno!

Reno has an international airport that is conveniently accessed from many locations. If you choose to drive, here are some approximate distances to Reno. From:

Los Angeles	468 miles
Las Vegas	449 miles
Salt Lake City	520 miles
Sacramento	132 miles
San Francisco	218 miles

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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), Martin Zanni (2007), and Xiaowei Zhuang (2008).

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.

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), Michael Carrabba (2007), and Rina Dukor (2008).

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. Karl Booksh, University of Delaware, Department of Chemistry and Biochemistry, Newark, DE 19707; phone (302)831–2561; e-mail: kbooksh@udel.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), David Bocian (2007), and Geraldine Richmond (2008).

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. Mary Carrabba (acting chair), Southern Oregon University, Department of Chemistry, 1250 Siskiyou Blvd., Ashland, OR 97520; phone (541)261–9800; fax (541)552–6415; e-mail: carrabbam@sou.edu. 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 Delhaye (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.

CLARA CRAVER AWARD. The Craver Award is presented annually to an outstanding young molecular spectroscopist whose efforts are in the area of applied analytical 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 analytical vibrational spectroscopy. The nominees may come from an academic, government lab, or industrial background.

Previous recipients of the award are: Katherine A. Bakeev (2007).

The award carries with it a \$2000 honorarium, a plaque, plus a \$500 travel allowance. 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.

The awardee will also be offered a 25-minute plenary lecture to the assembled FACSS Conference, at which the award will be presented. Further, a separate half-day award symposium honoring the award recipient and highlighting the interests of the awardee will also occur 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 31. Nominations should be submitted to: Mark Druy, Physical Sciences, Inc., 20 New England Business Center, Andover, MA 01810, or by e-mail: druy@psicorp.com.

SOCIETY ANNOUNCEMENTS

Membership. Anyone wishing to join the Society may do so by sending \$10 to Dr. Mark Druy, Coblenz Society Membership Chairman, Physical Sciences, Inc., 20 New England Business Center, Andover, MA 01810.

Board Meeting. The Coblenz Society Board will hold its semi-annual meeting on Monday evening, March 3rd, in association with the 59th Pittsburgh Conference in New Orleans, Louisiana. Any article of business that you want the Board members to consider needs to be sent in writing to Mary Carrabba, Coblenz Society President (see address at end of newsletter), prior to the conference.

Annual Meeting. The Annual Meeting of the Society will also be held at the Pittsburgh Conference Wednesday afternoon following the Williams–Wright Award Symposium. Please see the conference Final Program for exact time and location. Remember—this is the time when topics of interest to the entire membership are discussed.

SAS Celebrates 50 Years!!! The Coblenz Society will be holding its annual Pittcon reception jointly with SAS in recognition of the 50th anniversary of the Society for Applied Spectroscopy. Please join us Tuesday evening at 6:00 in the Versailles Room at the New Orleans Hilton.

COBLENTZ SOCIETY BOARD

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