

NEWSLETTER

No. 142

A Society for Applied Spectroscopy Affiliate
Editor: K. S. Kalasinsky

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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 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*.

KATHY KALASINSKY

PRESIDENT'S MESSAGE

I am happy to report that the Coblentz Society, in its fifty-second year of life, is fit and healthy. And as I approach a similar (but not THAT similar!) age, I am reminded of the importance of health monitoring, for both people and for scientific societies. Yes, our society is now in its fifties. Old enough to be receiving junk mail from the AARP. Old enough to grunt when getting up from a chair. Old enough to complain about loud music and fast drivers. But, we have our health. Through active involvement of innumerable volunteers, the Society is as strong as ever. Our membership stands at 827 members, counted before the recent membership drive, which is expected to net a few dozen more. Our endowment fund is strong and stably invested. It helps us perform our many activities while keeping membership dues low.

With age also comes experience. Yes, we are an "experienced" society. If you are a practitioner in the field of vibrational spectroscopy, chances are we have some experience that you can use. The fruit of this experience



Andy Sommer (Immediate Past President of the Coblentz Society) conducts business at one of the Coblentz general meetings as President before he moves to the Treasurer position. Thanks, Andy, for all your hard work, past and future, on behalf of the Society.



Bob Messerschmidt (new President of the Coblentz Society) talks with Dave Haaland (a Past President of the Coblentz Society) before he takes office.

will be given freely, but it is not “free.” I am not talking about the annual dues, which, by the way, have been described as the best deal in science. I am talking about giving back your own experience to others through more active involvement with the society. If you would like to serve on a committee, work at the booth, help plan a meeting, or be an officer, we would love to have your involvement. The Coblenz Society is THE professional society dedicated solely to the promotion and application of vibrational spectroscopy. Created in 1954, the Society is one of the oldest American spectroscopic organizations and operates exclusively with voluntary participation of its membership.

When you read this message, the 2006 Pittsburgh Conference will be around the corner, but as I write it, the OSU International Symposium on Molecular Spectroscopy, ICAVS, FACSS, and EAS meetings have recently concluded. Coblenz was actively involved in all of these meetings. Let me briefly review our activities at each of them:

At the Ohio State meeting, past-president Andy Sommer presented the 2005 Coblenz Award to Dr. Sergey Nizkorodov of the Department of Chemistry, University of California, Irvine. This year marked the 60th Anniversary of the Symposium, and the Society took part in the celebration. It was at this meeting that the Coblenz Society was organized some 51 years ago.

The Society held several events at the FACSS meeting. We held a board of managers meeting, held twice yearly at FACSS and PITTCON. At the meeting, two new board members were installed, rounding out the slate of eight board members. The new managers, elected by vote of the membership, are Mark Druy and Richard Larsen. Their terms run through March, 2009. They join existing managers Mary Carrabba, Jerry Workman, Don Pivonka, Dave Himmelsbach, Christine Wehlburg, and Ian Lewis. Congratulations to Mark and Richard. In addition to his role as board member, Jerry Workman has agreed to take over the chair of the student awards committee from me. Thank you, Jerry. Speaking of student awards, one student award was given in 2005. The recipient was Keith Gaylord, a student of Dr. Joan Shields at Long Island University. Congratulations to Keith, who received a certificate and a copy of the *Deskbook of Infrared Spectra*. Rina Dukor reported on the success of the recent 3rd International Conference on Advanced Vibrational Spectroscopy (ICAVS). Coblenz was a major supporter of ICAVS, having provided \$10,000 in seed money. Also, at FACSS, Coblenz yeoman John Hellgeth presented the Ellis R. Lippincott Award to Professor Jaan Laane of Texas A&M University. Coblenz was the principal sponsor of the Lippincott Award this year, an honor that rotates between Coblenz, the Society for Applied Spectroscopy (SAS), and the Optical Society of America (OSA). The Eastern Analytical Symposium brought additional Coblenz activities, including workshops, sponsored symposia, and a reception.

I want to take this opportunity to remind our members that the NIST/Coblenz Cooperative Research and Development Agreement (CRADA) has resulted in the availability of 10 500 spectra in a digitized format being available on the NIST website. Please check it out at webbook.nist.gov. Here is a quick tutorial, so you can see



Dave Trimble (Coblenz Delegate to the EAS and FACSS Governing Boards) talks with John Hellgeth (Past President of the Coblenz Society) in the Coblenz Booth. The Coblenz Booth is always a popular place to meet colleagues.

just how cool this really is: Go to the URL, webbook.nist.gov. Select “Molecular weight” as the type of physical property based search. Enter “18” under molecular weight value and hit return. Click on choice #5, “Water.” Under “other data available” click “IR Spectrum.” Choose the liquid water spectrum and voila! I am sure many of you will find this very useful. Please make sure to honor all the copyrights, as indicated on the site.

We are looking forward to a great 2006 PITTCON! As usual, the Coblenz Society will hold its annual meeting there in conjunction with the Williams–Wright Award symposium. In addition to the Williams–Wright Award, the Society will also present the ABB Bomem-sponsored Bomem–Michelson Award. This award is dedicated to the memory of Professor A. E. 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.

In conclusion, I would like to thank all of the Coblenz leadership for their tireless efforts, all on a volunteer basis, and to reiterate my call for new active members. Help us continue supporting and expanding the vibrational spectroscopy community by giving some of your time and knowledge. With your help, the Coblenz Society will remain healthy and happy for decades to come!

ROBERT G. MESSERSCHMIDT
PRESIDENT

COBLENTZ AT EAS

The Eastern Analytical Symposium was again held Monday, November 14 through Thursday, November 17, at the Garden State Convention Center and the Doubletree Hotel in Sommerville, New Jersey. Coblenz did manage to get the booth there thanks to efforts by Curt Marcott (thanks Curt). Four half-day sessions were organized by the Coblenz Society. They included:

Monday AM and PM:

Recent Advances in Chemical Imaging I & II, organized by Linda Kidder of the Coblenz Society



Jim Rydzak (Coblentz Delegate to the FACSS and EAS Governing Boards) at the FACSSS conference. Smiling as usual.

Tuesday AM and PM:

Raman Spectroscopy: Designing Quality into your Process using Raman Spectroscopy

Raman Spectroscopy: A Rapidly Emerging tool in BioTechnology

Many other sessions have been organized by Coblentz members.

Our Monday evening Coblentz reception was again another success. Good food, drink, and a quiet atmosphere to talk with other spectroscopists defined the evening. It was a nice way to wind down the first day of the conference. You should plan on attending next year's reception. Special thanks go to Dave Himmelsback, who became the alternate Coblentz Representative to the board and did a lot of the booth duty. He was helped by Ian Lewis, Katherine Bakeev, and yours truly.

For more info on the EAS, go to the web site <http://www.eas.org>.

Hope to see you at the Coblentz wine and cheese at PITTCON!

JIM RYDZAK

COBLENTZ AT FACSS

The 32nd FACSS conference was held October 9–13, 2005, in Quebec City, Canada. Quebec City, three years short of its 400th birthday, is the only walled city in North America and was a great venue for the conference. Six hundred and eighty-two papers and posters were presented at the conference. A number of sessions were organized by Coblentz members.

Monday:

- Lippincott Award Symposium awarded to Jaan Laane, of Texas A&M, organized by John Hellgeth
- Infrared Imaging, organized by Christine Wehlberg (speakers: David Newnham, Caroline Rodgers, Brian Cullum, Cyril Petibois, and Carrie Lendon)



(Left to right) Jim Rydzak, Barry Streusand, and Dave Haaland sign up a new Coblentz member at the Coblentz Booth. It's always a happy time when we bring in new members.

Tuesday:

- Chemometrics in Vibrational Spectroscopy, by Howard Mark
- Open Raman session, by Ian Lewis
- Chemometrics in Hyperspectral Imaging, by David Haaland
- Charles Mann Award presented to Michael Pelletier, also organized by Michael Pelletier
- NIR in Process Analytical, by Katherine Bakeev

Wednesday:

- Intelligent Applications of Raman Microscopy, by Andrew Whitley
- Multiway Methods, by Karl Booksh
- Raman Microscopy II, by Ian Lewis
- PAT in Pharma II, by Jim Rydzak

Thursday:

- A Spectrum of Applications of NIR Spectroscopy, by Katherine Bakeev
- SPR I, by Karl Booksh
- Advances in NIR Instrumentation, by David Himmelsbach
- SPR II, by Karl Booksh

Join us for the 33rd conference, which will be held at the Disney Contemporary Resort, Lake Buena Vista, Florida, September 24–28, 2006.

For more information check the website at www.FACSS.org.

JIM RYDZAK and DAVID TRIMBLE,
Coblentz Representatives to
FACSS

CALL FOR NOMINATIONS FOR THE COBLENTZ SOCIETY'S AWARDS

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

COBLENTZ AWARD. The Coblentz 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 Duynes (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), and Sergey Nizkorodov (2005).

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. Curt Marcott, Proctor & Gamble Co., Miami Valley Labs Box 538707, Cincinnati, OH 45253-8707; phone (513) 627-2806; fax (513) 627-0655; e-mail: marcott.ca@pg.com] 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), and Harry Owen (2006).

This award includes a \$2000 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. Don Pivonka, AstraZeneca Pharmaceuticals, NLW-3047, 1800 Concord Pike, Wilmington, DE 19850; phone (302) 886-8392; fax (302) 886-5382; e-mail: don.pivonka@astrazeneca.com] before March 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), and Robert W. Field (2006).

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. Christine Wehlburg, MITRE Corp., MS T630, 7515 Colshire Drive, McLean, VA 22102-7508; phone (703) 883-6081 and fax (703)-883-6989; e-mail: cwehlburg@mitre.org. Nominations will close March 31st.

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 the contributions for



Two Coblentz Past Presidents, Dave Haaland (L) and John Hellgeth (R) enjoy a good discussion about the Coblentz T-Shirts. See how well John's Coblentz T-shirt goes with his business suit.

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), and Jaan Laane (2005).

Nominations should contain the name and affiliation of the nominee and sufficient background information to



Coblentz Board Member, Christine Wehlberg (R), stands with the speakers of the Imaging session she organized at the FACSS conference in Canada. Note the "Canada" T-shirts they all have. (Only a brief change from the Coblentz T-shirt.)

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 Richard Larsen, Coblentz Society Membership Chairman, 6807 Gravel Branch Road, Hurllock, MD 21643.

Board Meeting. The Coblentz Society Board will hold its semi-annual meeting Monday evening, March 13th, at the Pittsburgh Conference in Orlando, Florida. Any article of business that you want the Board members to consider needs to be sent in writing to Bob Messerschmidt, Coblentz Society President, (see address at end of newsletter), prior to the conference.

Annual Meeting. The annual meeting of the Coblentz membership will be held at the Pittsburgh Conference in Orlando. Check your program for the time and place. Be sure to attend, since the general business of the Society will be conducted.

Wine & Cheese. The Coblentz Society wine and cheese reception will be held after the general business meeting at the Pittsburgh Conference in Orlando. Stop by the Coblentz Booth for time and place announcement for the reception.

COBLENTZ SOCIETY BOARD

<u>Name</u>	<u>Term Expires</u>	<u>Telephone</u>
Mary Carrabba 508 Gold Terrace Rogue River, OR 97537	2006	(541)582-2399
Jerry Workman 299 Cypress Street Brookline, MA 02445	2006	(617)879-0783
David Himmelsbach USDA/Russell Research Center 950 College Station Road Athens, GA 30605	2007	(706)546-3233
Don Pivonka AstraZeneca Pharmaceuti- cals NLW—3047 1800 Concord Pike Wilmington, DE 19850	2007	(302)886-8392
Ian Lewis Kaiser Optical Systems, Inc. 371 Parkland Plaza Ann Arbor, MI 48103	2008	(301)496-6844
Christine Wehlburg Sensors Systems Eng., Lead MITRE Corporation MS T630 7515 Colshire Drive MacLean, VA 22102-7508	2008	(703)883-6081

Mark Druy 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

COBLENTZ SOCIETY OFFICERS

President: Bob Messerschmidt Fovioptics, Inc. 3333 Bowers Ave., #190 Santa Clara, CA 95054	(408)480-5941
Secretary: David Schiering Smiths Detection 21 Commerce Drive Danbury, CT 06810-4131	(203)207-9724
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