

NEWSLETTER

No. 137

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

August 2003

EDITOR'S COMMENTS

The Coblenz 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 "Coblenz Society Newsletter" in every February and August issue of *Applied Spectroscopy*.

KATHY KALASINSKY

PRESIDENT'S MESSAGE

This past year the Society made tremendous strides with its mission and achieved its goals of greater presence in the spectroscopic community and greater value for its membership! The motivating force that permitted the Society to achieve its recent successes is the concerted, voluntary efforts of numerous members as officers, board members, committee participants and chairpersons, and donors! A brief list of some of these activities is summarized as follows:

- Established the Vibrational Spectroscopy Technical Affiliate with the Society for Applied Spectroscopy
- Society is a full-sponsor organization with the Eastern Analytical Symposium
- Society membership nearly doubled and approaches 900 members
- Society leveraged its sponsorship of 6 student bur-saries for ICAV-II through donor matching funds
- Society completed its CRADA with NIST; digitized spectra may be viewed in the NIST WebBook
- Society participated in four venues for professional scientists: PittCon, Molecular Spectroscopy Symposium, FACSS, and EAS, with organized sessions and symposia
- Society sponsored or co-sponsored receptions at PittCon, 57th MSS (The Beer Bash at the MSS picnic continues as a Coblenz Society tradition!),

FACSS (co-sponsored with SAS), and EAS (under-written by a corporate donor)

- Society's 2003 award recipients: Neil Overall received the 2003 Williams–Wright Award, Peter Griffiths received the 2003 Bomem–Michelson Award, and Andrea Callegari received the 2003 Coblenz Award
- Society's new board members are Don Pivonca of AstraZeneca and David Himmelsbach of USDA
- Contributions to the Society's Endowment Fund grew both in number and amount of donations
- The board voted and the Society *still* maintains its membership at \$10!

Reflecting on these successes has also afforded the opportunity to consider the challenges that the Society faces, and there are several. The greatest challenge is for the Society to improve its cash flow to maintain its momentum as a force in Vibrational Spectroscopy. Simply put, the Society's endowment fund creates earnings from in-



The Bomem–Michelson Award Symposium at the Pittsburgh Conference in Orlando featured (from left to right) Bruce Chase (speaker, Dupont Inc), Don Kuehl (speaker, Thermo Galactic), Bill Fateley (speaker, PlainSightSystems), Peter Griffiths (awardee, University of Idaho), Connie Paralusz (award session chairman), Henry Buijs (award presenter, ABB Bomem), and John Hellgeth (Coblenz Society President). (Missing from photo: Jim deHaseth, speaker, University of Georgia.)

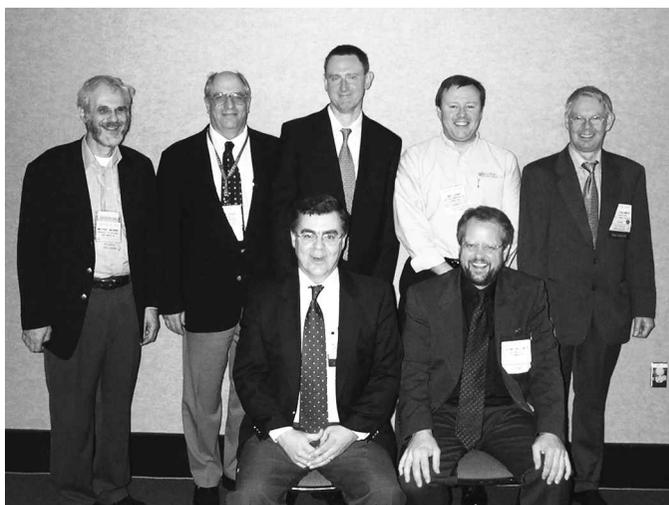


Henry Buijs (R) of ABB Bomem presents the Bomem-Michelson Award check to Peter Griffiths (L), of the University of Idaho, in Orlando at the Pittsburgh Conference this past March.

vestments to provide for its operation. Our treasurer, Bruce Chase, has skillfully maintained the endowment fund level in the face of some very challenging investment market behavior. Given the recent market history, it is very unlikely that we will see in the near term future the earnings potential we experienced in the 1990s. Hence, the Society must develop other sources of income. Traditional means of income such as dues (and dues increases), donations, T-shirt sales, and conference income, while possible income sources, have limited potential to sustain growth. There is one other source of income that could yield real value to the Society . . . our intellectual property, the digitized spectral database. This past year, the Society put a great deal of effort into grooming its 10 500 digitized spectra. What the Society requires now are volunteers from its membership with experience in product development, marketing, and management to bring this database to the spectroscopic marketplace. I challenge those Society members having this experience to come forward and make this product and this potential income stream a reality. The opportunity is before us and we must capitalize it.

With its recent growth, the Society faces yet an additional challenge . . . the need for volunteers to sustain the Society's operations. The Society continues to be successful for one reason: individual members asking what they can do for the Society and then stepping up to the plate and doing it. There are numerous committees and programs that need your assistance and talents. The best way to get involved is to contact Andy Sommer, Society President, or any of the officers, board members, or committee chairpersons or myself. Working with your peers strengthens this organization greatly and truly is the best way to support the science we practice.

Writing this message is the final act a Society President does at the completion of his term. In closing, I wish to welcome David Himmelsbach and Don Pivonca as new



The Williams-Wright Award Symposium at the Pittsburgh Conference in Orlando featured (left to right, back row) Mike Morris (speaker, University of Michigan), Bruce Chase (speaker, Dupont Inc), Neil Everall (awardee, Imperial Chemical Industries), Neil Lewis (speaker, Spectral Dimensions, Inc), John Chalmers (speaker, University of Nottingham), and (left to right, front row) Hector Casal (Williams-Wright Award Chairman), and John Hellgeth (Coblentz Society President).

members to the Coblentz Society board, to thank Bob Messerschmidt and Andy Sommer for their four years of service on this board, to thank those who have graciously donated their time and efforts in service to the Society this past year, and to wish Andy Sommer the greatest success as he takes office as Society President. As Past President, I look forward to assisting him in the next two years. Onward to the Coblentz Society Fifty Year Celebration in 2004!

JOHN HELLGETH

INCOMING PRESIDENT'S MESSAGE

Next year, the Coblentz Society will be celebrating its 50th anniversary. As with most milestones, it presents an opportunity for reflection and re-evaluation in light of the changes in the field and changes in the academic and industrial work place. To put things into perspective, keep in mind that next year coincides with the 99th anniversary of the publication of William Weber Coblentz's first major work on the infrared spectra of organic molecules. At that time, Coblentz's view was that the field of vibrational spectroscopy was mature and there was little to be gained by its further study. To say that molecular spectroscopy has changed since then, especially over the past few years, would be a severe understatement. Fortunately for us, the field of vibrational spectroscopy keeps reinventing itself and is becoming even more multidisciplinary.

In light of these statements I feel it is important for the Society to reflect upon both its accomplishments and weaknesses. We must do so with respect to the Society's mission, "Fostering the development, dissemination of information and education in vibrational spectroscopy", and we must ensure that it meets the needs of today's multidisciplinary scientists who are employed in an ever-changing workplace. I feel that the largest asset of the society is the collective knowledge and contributions of



John Hellgeth, Coblenz Society President (R), presents the Williams-Wright Award to Neil Everall of Imperial Chemical Industries at the Pittsburgh Conference in Orlando this past March.

its members. In order for the society to grow and survive it is important for this knowledge to be transferred to new scientists practicing the technique. As the new President I would like to continue the efforts of past presidents and focus on means to attract new scientists to the field and transfer to them the collective knowledge of the society.

Finally, I would like to recognize the outgoing President for his accomplishments and stewardship of the society. During John Hellgeth's tenure as the Society President, he has accelerated the production of the Coblenz data base and increased the exposure of the society through participation at professional meetings. Noteworthy in this area have been increased participation at FACSS and EAS through sponsored symposia and receptions. The Coblenz Society is now a full sponsor at the EAS meeting. Receptions held at these meetings have increased the visibility of the society to students while at the same time they have provided the students with access to leaders in the field. John also increased efforts to bolster the membership, which currently numbers over 800.

John has done a tremendous job over the last several years and I would ask that you help me in acknowledging his efforts.

ANDRÉ J. SOMMER

FACSS 2003 WORKSHOP PROGRAM

Bioanalytical

Biological Infrared and Raman Spectroscopy
The Genome to the Proteome to the Physiome: What's Next
Trace Metal Analysis in Biomedical Applications

Pharmaceutical

FDA Guidelines and Expectations for Validation of Pat Methods
LC/MS: Introduction to Principles and Applications

Of Manufacturing Interest

Industrial Applications for Raman Analyzers
Industrial Problem Solving Using Thermal Analysis

Instrumental Analysis of Polymers
Process Analytical Chemistry: Out of the Lab and into the Pipe
Professional Analytical Chemists in Industry: A Short Course for Undergraduate Students
'Standards' and Best Practice in UV-Visible Spectrometry

Chemometrics and Applied Mathematics

Attack the Variance: Statistical Design Strategies for Analytical Method Development
Chemometrics without Equations (or Hardly Any)—Hands On
Chemometrics in Analytical Chemistry and Spectroscopy
Intermediate Chemometrics—Hands On
Spreadsheets for Scientists

Vibrational and Imaging Spectroscopy

Analytical Raman Spectroscopy
Chemical Identification via Diamond ATR Infrared Spectrometry
FT-IR Sample Handling and Accessories
Infrared Imaging
Modern Near-Infrared Analysis (I)
Modern Near-Infrared Analysis (II)
Molecular Microspectroscopy

Elemental Methods

ICP-AES Operating Parameters and Optimization of Analytical Performance
Inductively Coupled Plasma-Mass Spectrometry
Introduction to Inductively Coupled Plasma-Atomic Emission Spectrometry
Instrumental Methods for Elemental Analysis—It's Not Just ICP
Preparing Our Laboratory for Trace Metals Determination (Is Your Lab Ready for ICP-MS)
Recent Advances in Atomic Spectroscopy

The Business of Science

Technical Writing for Scientists and Managers
Getting Your Office Organized

For more information, visit the FACSS web site at <http://facss.org/facss/workshops.index.php>.

CALL FOR NOMINATIONS FOR THE COBLENTZ SOCIETY'S AWARDS

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

Coblenz 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



Coblentz members Rachael Barbour and Dave Trimble enjoy themselves at the Coblentz Wine & Cheese reception held at the Pittsburgh Conference in Orlando.

(1995), Xiaoliang Sunney Xie (1996), Mounji Bawendi (1997), Pat Treado (1998), Brooks Pate (1999), Martin Gruebele (2000), Stacey Bent (2001), Andrei Tokmakoff (2002), and Andrea Callegari (2003).

The award carries with it a \$2000 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. Patricia L. Lang, Dept. of Chemistry, Ball State University, Muncie, IN 47306; phone (765)285-5516; e-mail pll原因@bsu.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), and Neil Everall (2003).

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. Hector Casal, DHC Analysis, Inc., 3645 Warrensville Center Rd., #325, Cleveland, OH 44122; phone (216)295-0755; fax (216)295-1887; e-mail casal@dhcanalysis.com) before March 1st.

Bomem–Michelson Award. This award is dedicated to the memory of Professor A. E. Michelson, developer of the Michelson interferometer. Bomem, Inc. sponsors the award to honor scientists who have advanced the technique(s) of vibrational, molecular, Raman, or electronic spectroscopy. Contributions may be theoretical or 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 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 Coblentz 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), and Peter Griffiths (2003).

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 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. Concetta Paralusz, 1365 Carlisle Road, North Brunswick, NJ 08902; phone: (732)828-9136; fax: (732)828-9136. 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, the 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 or 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), and Sandford Asher (2002).

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, c/o 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, Coblenz Society Membership Chairman, 3 Waterview Drive, Lakewood, NJ 08701.

Board Meeting. The Coblenz Society Board will hold its semi-annual meeting the third week in October at the FACSS Conference in Fort Lauderdale, FL. Any article of business that you want the Board members to consider needs to be sent in writing to Dr. Andy Sommer, Coblenz



John Hellgeth (L), Coblenz Society President, Neil Everall, Williams-Wright awardee, and Mike Pelletier, Coblenz board member, enjoy the reception held for Coblenz award winners after the Williams-Wright symposium at the Pittsburgh Conference in Orlando.

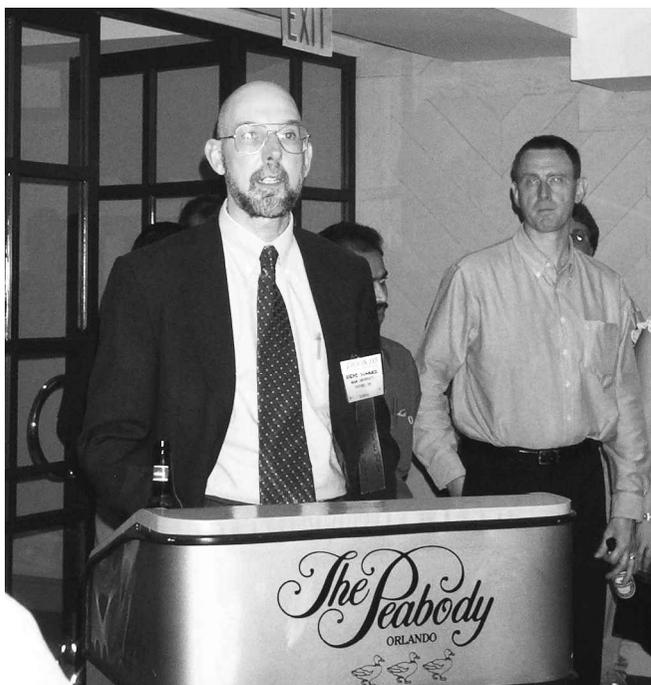
Society President (see address at end of newsletter), prior to the conference.

Board Members. Two new board members are elected by the Society each year. Please send nominations for the term 2004-2007 to Coblenz Society President, Dr. Andy Sommer (see address at end of newsletter), by September 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 2003 to Dr. Andy Sommer, Coblenz 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> |
|--|---------------------|------------------|
| Neil Lewis Spectral Dimensions, Inc. 3416 Olandwood Court Olney, MD 20832 | 2004 | (301)260-0290 |
| Mike Pelletier Jet Propulsion Laboratory Ms 300-123 4800 Oak Grove Drive Pasadena, CA 91109-8099 | 2004 | (818)393-7385 |
| Becky Dittmar 3M Company 3M Center Bldg 201-BS-07 Maplewood, MN 55144 | 2005 | (651)737-7701 |
| Jim Rydzak Glaxo SmithKline 709 Swedeland Road MailStop UW2940 King of Prussia, PA 10406 | 2005 | (610)270-5242 |



Andy Sommer, incoming Coblentz Society President, thanks the outgoing Coblentz President, John Hellgeth, for all his service to the Society during his term in office during the Coblentz Wine & Cheese reception held at the Pittsburgh Conference in Orlando.



Two Past Presidents of the Coblentz Society, Kathy Kalasinsky and Dave Haaland, discuss business at the Coblentz reception held at the Pittsburgh Conference in Orlando.

Mary Carrabba 2006 (541)715-5521
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 Corvalli, OR 97330

Jerry Workman 2006 (781)672-5677
 Argose Incorporated
 230 Second Avenue
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Don Pivonka 2007 (302)886-8392
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