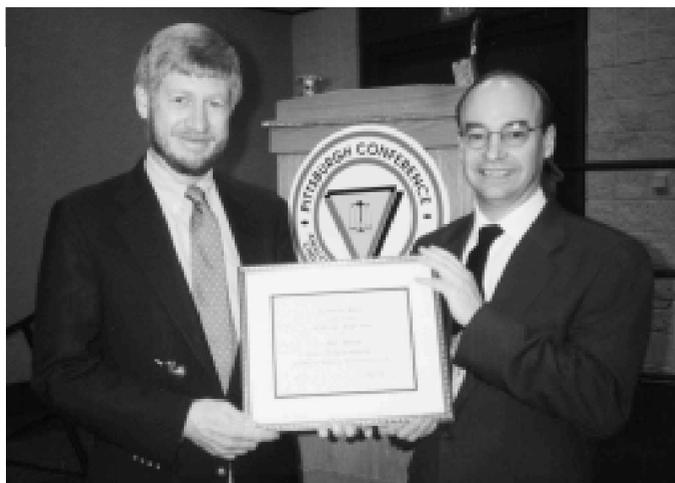


NEWSLETTER

No. 129

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

August 1999



Dave Haaland, Coblentz Society President (L) presents the Williams-Wright Award to Don Kuehl of Galactic Industries Corp. at the Pittsburgh Conference in Orlando this past March.

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 request 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

At the Annual meeting of the Coblentz Society in Orlando I passed along the gavel to your new president, Dave Haaland. It seems trite to say that it has been a busy and productive two years. In addition to the normal business of the Society, the two years have seen an im-

provement in the Society endowment. The increased value of the endowment is due to several factors. First, the Society board and officers are all very thrifty volunteers. The board meets in conjunction with other major conferences in order to minimize expenses. Second, the Finance Committee is to be commended for their investment strategy. Finally, the Society has received donations in response to the president's message and the revised dues form. It appears that the Society will soon be able to report that all costs of our awards are covered by the investment income.

The Society has maintained stable dues over the last several years, despite increased costs in many categories. Newsletter mailings, the Wine and Cheese reception, booth expenses at FACSS and Pittcon, and other costs have all increased significantly. The board hopes to maintain a stable dues structure by continued frugality, income from various projects, and donations to the endowment.

The Coblentz Society continues its mission to support the practice of vibrational spectroscopy. Awards, affordable data bases, and targeted conferences are all tools to achieve the objective of the society. Through cooperation with other groups, such as FACSS and the Pittsburgh Conference, we have found cost-effective means of accomplishing our goals. New opportunities are on the horizon though partnerships already established with NIST



The Williams-Wright Award Symposium at the Pittsburgh Conference in Chicago featured (left to right) Mike Fuller (speaker, Nicolet, Inc.), Mike Morris (speaker, University of Michigan), Dave Haaland (Coblentz Society President, Sandia National Laboratories), Don Kuehl (awardee, Galactic Industries Corp.), and James Duckworth (speaker, Galactic Industries Corp.)

and in discussions with the Chemical Heritage Foundation and others. The membership has proved to be an incredible source for volunteer effort, as board members and as members of award committees, organizational support committees, and spectral review committees, to mention only a few.

The many active members of the Society serve as volunteers and often incur significant personal expenses. The level of commitment to the mission and goals of the Society is tremendous. We maintain an endowment to ensure perpetual support of awards. I believe that the Coblentz Society can secure a permanent role in the broader future of vibrational spectroscopy by an expansion of that endowment.

There are at least three ways to contribute to the endowment. First, with your annual check for membership, consider an additional contribution directed to the endowment. The board and officers feel that it is critical to maintain low annual dues to encourage participation in the Society. A second means of giving is through lump sum gifts in cash or stocks, bonds, or real estate. In many cases such gifts avoid capital gains tax on such items that have appreciated value. A third opportunity exists in remembering the Society through your will. Consult your accountant or attorney for further information about tax-deductible gifts and bequests. The Society treasurer, Bruce Chase, and I are also available to answer questions.

Other News in Summary:

- The board met at FACSS in Austin, and the Spring 1999 board meeting was held Monday evening, March 8, in Orlando, in conjunction with the Pittsburgh Conference.
- The 1999 Coblentz Award was presented in June at the Ohio Symposium. The winner is Brooks Pate, and John Hellgeth chaired the selection committee.
- The 1999 Bomem–Michelson Award was presented Wednesday afternoon, March 10, to Sandy Asher of the University of Pittsburgh. Nancy Ferris, who arranged the award symposium, chaired the committee.
- The Williams–Wright Award for 1999 was awarded to Don Kuehl of Galactic Industries Corp. Dave Haaland presided over the award symposium on Tuesday morning, March 9, at Pittcon.

Thanks to the four candidates who graciously agreed to stand for the board election. Tom Niemczyk, Bob Messerschmidt, Jim Rydzak, and Andy Sommer were all excellent candidates. I am pleased to announce that Bob Messerschmidt and Andy Sommer were selected to serve on the decision-making body of the Coblentz Society and began their four-year terms on the board immediately after the annual meeting of the Society on Tuesday, March 9.

Thanks to the two board members who complete their four-year terms. Fran Adar of Instruments SA and Terry Gustafson of Ohio State have served the Coblentz Society since 1995 and are continuing their involvement through committee work.

Thanks to the continuing board, officers, and committee members who spend many hours on business of the Society. In particular, I want to express appreciation to Kathy Kalasinsky for the newsletter; John Hellgeth, who

maintains membership records; and Bruce Chase, who manages the finances. Visibility of the Society is critical, and the many members who have helped to staff the booth at FACSS and Pittcon are greatly appreciated. The Booth Committee—Rachael, Jim Rydzak, and Barry Streusand—deserve special thanks.

Thanks to all of you for your support and for giving me the opportunity to serve as your president. Welcome to Dave Haaland, who began his two-year term as president on March 9.

ARLENE GARRISON

IN-COMING PRESIDENT'S MESSAGE

At the end of the 1999 Pittsburgh Conference, I took over the Coblentz president's office after Arlene Garrison's two successful years as president. In accepting the board's nomination for president, I gave considerable thought to what value I might be able to add to the Coblentz Society. One of my primary duties will be to oversee the smooth running of the Society in its efforts to promote vibrational spectroscopy. In addition, I am responsible for directing efforts to increase the membership and visibility of the Coblentz Society. There are a few projects in the works I would like to see accomplished within my two-year tenure that I believe would make significant contributions towards making the Coblentz Society a more vital entity in promoting vibrational spectroscopy.

Several years ago, the Coblentz Society entered into a cooperative research and development agreement (CRADA) with the National Institutes of Standards and Technology (NIST) to provide a digital infrared spectral library. NIST has generated approximately 8500 digitized gas-phase IR spectra and has also digitized nearly 10 000 Coblentz IR spectra. The Coblentz Society has agreed to validate the quality of these spectra, and the combined IR digitized libraries should become available by the end of this calendar year. One of my primary goals will be to see the successful conclusion of the CRADA. Of course, to achieve this goal, I will lean heavily on the help of many volunteers from the Coblentz Society. In particular, Kathy Kalasinsky is the primary Coblentz representative and will continue to play the primary role in completing the project. Kathy will be asking Coblentz members for help in qualifying the newly digitized spectra and soliciting donated digitized spectra to further increase the size of this Coblentz/NIST spectral library. The successful completion of the project will require Coblentz membership involvement, and I believe our organization is up to the challenge. Get a preview of the NIST portion of the IR data by visiting their Web site at <http://webbook.nist.gov/chemistry/vib-ser.htm>

Another goal I have involves the Coblentz Society's new Web address, <http://www.coblentz.org>. Galactic Industries, Inc. continues to sponsor the Coblentz home page. Michelle McDonald of Galactic Industries has recently improved the Web pages and has brought the site nearly up to date. It is my goal as president to transform the Coblentz Web pages into the site of first choice for vibrational spectroscopists; [coblentz.org](http://www.coblentz.org) should be the primary site for obtaining information related to vibrational spectroscopy including information about the Cob-

lantz Society, conferences, journals, software, training, instrumentation, and accessory manufacturers. We will be upgrading the information on the site starting this summer. Members who know of useful Web sites in their work as vibrational spectroscopists need to contact me so that they can be added during the site upgrades.

The Coblenz Society is always looking for more ways to promote the field of vibrational spectroscopy. Please help support your society and your field of scientific expertise by encouraging your collaborators and colleagues who are not currently members of the Coblenz Society to join the Society. The \$10/year dues are minimal but are maximized through conference sponsorships and awards honoring scientists and students in our field. Through increased membership and visibility, we will be more successful at promoting our field of vibrational spectroscopy. I look forward to the next two years working for the Society and with the many members who volunteer so much of their time in pursuing the goals of the Coblenz Society.

DAVID HAALAND

RESIDENTIAL COURSE AND SEMINAR: SPECTROSCOPIC USES OF THE INTERNET

There was a two-day residential course on "*Interpretation of Vibrational Spectra*" in Pontypridd, U.K., jointly organized by the University of Glamorgan and the Infrared and Raman Discussion Group (IRDG) 13–14 April 1999 at which the principal speakers were Dr. Clara Craver (Craver Consultants, Inc., Missouri), Professor Bill Fateley (Kansas State University), and Professor Pat Hendra (University of Southampton), backed by seminars and tutorials led by Dr. Derek Steele (Royal Holloway College), Geoff Dent (Zeneca Ltd.), and David Cunliffe-Jones (recently at Kodak Ltd.), as well as representatives of BioRad, Bruker, Nicolet, Perkin-Elmer, and Renishaw.

The course was followed by a meeting of the IRDG commencing with lectures from Professor Ian Mills FRS, University of Reading, on "*Normal Modes and Local Modes of Vibration in Polyatomic Molecules*" and Professor Bill Fateley on "*Real-Time Spectroscopy: Chemical Mapping*."

The afternoon was devoted to a seminar on "*Spectroscopic Uses of the Internet*". Professor Bill George, University of Glamorgan, reviewed a number of Web sites. Examples were discussed for better use of the Internet and E-mail for transfer of standard files of spectra, molecular models, and files associated with *ab initio* calculations. This discussion was illustrated with data from recent publications showing that hydrogen-bonded forms of alcohols could exist in chiral forms and with unusual symmetry properties. Professor Pat Hendra described the opportunities for publishing on the Internet and the likely move away from traditional library-based journals. Electronic-based journals are seen to lead to more rapid publication at lower cost, providing opportunities for multimedia material and accessibility, in principle, to a much larger readership. Dr. Clara Craver described experiences in the U.S.A. of Internet-based searches of spectra of unknown compounds against electronically stored libraries of spectra and demonstrated searches and manipulation of spectra from the NIST Web site together with the use

of the Web site of the Coblenz Society. Other members displayed and discussed relevant Web sites including many of the following.

Specialist Spectroscopic Groups

The Infrared and Raman Discussion Group: <http://www.itc.glam.ac.uk/irdg/irdg.htm>

The Coblenz Society: <http://www.coblenz.org>

Many other specialist spectroscopy groups exist and are linked to learned societies or instrumental user groups. The IRDG and Coblenz are independent and reflect the character of the U.K. and North American communities for vibrational spectroscopy, respectively. The Web page of the former has existed for three years and provides an Internet and E-mail information and registration service for forthcoming meetings. It has also archived or presented information on the 11 previous meetings in this time including details of prize-winning student presentations from the third and fourth Martin-Willis Award meetings held at Glaxo-Wellcome and University of Leeds. The Coblenz Society provides a number of services to its members and has published 128 newsletters since its formation in 1954. It normally has an AGM at the annual Pittcon Meeting at which major award presentations and addresses are given. It serves as a sponsor of a number of other meetings including the annual autumn conference of the Federation of Analytical Chemistry and Spectroscopic Societies (FACSS).

Spectroscopic Instrument Manufacturers

Bio-Rad: <http://www.bio-rad.com>

Bruker: <http://www.bruker.com>

Nicolet: <http://www.nicolet.co.uk>

Perkin-Elmer: <http://www.perkin-elmer.com>

Renishaw: <http://www.renishaw.com>

All major instrument manufacturers provide a range of commercial and technical information on their products and provide support to their user communities. The Web pages listed include companies supplying infrared and Raman spectrometers. These companies supply many other type instruments, and many other companies market many different spectrometers world wide.

National Learned and Professional Societies

The Royal Society of Chemistry: <http://www.rsc.org>

The American Chemical Society: <http://www.acs.org>

The Optical Society of America: <http://www.osa.org>

The Society for Applied Spectroscopy: <http://s-a-s.org>

Many national learned societies and professional bodies exist including prestigious academies such as the Royal Society, which supports science generally at the highest level. The Royal Society of Chemistry Web pages provide information on products, services, and activities including links to university departments providing courses and research in chemistry, physics, and other science in the U.K. The American Chemical Society, the Optical Society of America, and the Society for Applied Spectroscopy are also active in terms of meetings, specialist subgroups, and the publication of books and journals associated with spectroscopy. Many journals are published both as normal text copy and also in on-line

electronic form requiring institutional paid subscription. The ACS supports the Chemical Abstract Service with some 14 million abstracts and covers some 18 million substances. The Society for Applied Spectroscopy supports the journal *Applied Spectroscopy*, which can also be purchased on-line in electronic form.

Electronic-Only Free or Paid Spectroscopic-Related Journals

The Internet Journal of Vibrational Spectroscopy:

<http://www.ijvs.com>

PhysChemComm:

<http://www.rsc.org/journals/current/e-only/e-only.htm>

The Internet Journal of Vibrational Spectroscopy has provided four volumes to date since 1998 together with a range of information, advice on publishing practice, and opportunities provided by the new vehicle. The journal is available free through sponsorship by Perkin-Elmer. The RSC has published *PhysChemComm* as an electronic Internet-based journal since 1998 and is available by paid subscription.

Free Spectroscopic-Related Publications

Spectroscopy Europe:

<http://www.spectroscopyeurope.com>

Spectroscopy Europe carries topical articles and, as a controlled subscription periodical, has production costs covered by advertisers. The Web page includes opportunity to recall information from previous issues and serves to avoid the necessity to otherwise store and index previous issues. This does not mean it may be more lightly thrown away than other candidates for the skip!

Selected Commercial Publishers of Spectroscopic Material

Elsevier: <http://www.Elsevier.com>

Wiley-VCH: <http://www.interscience.wiley.com>

These, and other publishers with listed Web sites, produce many books of interest to spectroscopists together with journals such as *Spectrochimica Acta*, *Journal of Molecular Structure*, *Vibrational Spectroscopy*, and *Journal of Raman Spectroscopy*. Much information on books and journals is retrievable from the publishers' Web sites including full reference details of publications which have appeared or are shortly to appear.

Spectroscopic Instrument Accessories

Clairret: <http://www.clairret.co.uk>

Specac: <http://www.specac.co.uk>

Initially only instrument companies provided accessories for their spectrometers. The development of companies such as RIIC in the U.K. in the 1950s and later led to the parallel provision and growth in noninstrument-specific sample-mounting accessories with high sensitivity and performance. Accessories are often provided by smaller companies often driven initially by a single user with specialist expertise and modest work-shop facilities.

Spectroscopic and Molecular Modeling Software

Adept Scientific: <http://www.adeptscience.co.uk>

Galactic: <http://www.galactic.com>

Oxford Molecular: <http://www.oxmol.co.uk>

CambridgeSoft: <http://www.camsoft.com>

Software development has followed the same pattern as sample accessory development with the growth of universally applicable software in parallel with instrumental software for carrying out a range of spectroscopic manipulations and library searches for spectra which may be imported to a PC or other computer using a universal file transfer protocol such as JCAMP.DX. There have been a number of movements to link spectroscopic software with molecular modeling software in order to relate spectral and molecular features.

Spectroscopic Data and Spectral Libraries

Sadtler: <http://www.sadtler.com>

NIST: <http://www.webbook.nist.gov/chemistry>

Sadtler and NIST are respective commercial and U.S. Government-based organizations that provide collections of spectra against which unknown spectra may be searched subject to a subscription charge. NIST also permits searching by compound name or structure and from a large data base and displays infrared gas spectra and other spectral and physical properties. The infrared gas spectra may be manipulated by scale expansion and other parameter changes.

National Organizations

Engineering and Physical Science Research Council (EPSRC): <http://www.epsrc.ac.uk>

Central Laboratory of the Research Councils (CLRC): <http://www.cclrc.ac.uk>

Spallation Neutron Source for Molecular Spectroscopy: <http://www.isis.rl.ac.uk>

EPSRC and the CLRC are representative of many U.K. and other national facilities. The former allows identification of research support of individual scientist by region, university, or subject area. The latter provides facilities such as the Spallation Neutron Source for which the Web site lists applications to molecular spectroscopy.

Computational Hardware and Software

Columbus EPSRC Computer Service:

<http://www.hpc.rl.ac.uk/columbus/tech.htm>

UK Computational Chemistry Working Party (CCWP): <http://www.ccwp.ac.uk>

Gaussian Inc.: <http://www.gaussian.com>

The Columbus computational hardware described is maintained by the CLRC and provides support including that managed by the CCWP, which describes a range of software the most popular of which is the "Gaussian" package. The software described permits *ab initio* and molecular modeling types of calculations to be carried out. The Web sites associated with these facilities include information on a wide range of computational opportunities and software relevant to spectroscopy.

Personal Web Sites

Robert Lancashire UWI Mona:

<http://wwwchem.uwimona.edu.jm.1104/software.jcampdx.htm>

Paul Lahti, University of Massachusetts:

<http://www.chem.umass.edu/-nermmw/Spectra>

Bob McDonald, JCAMP:

<http://www.members.aol.com/rmcjdjcamp>

Warren Vidrine, Vidrine Consulting:

<http://www.vidrine.com/vidrine/stuff.htm>

Dr. Robert Lancashire and Dr. Paul Lahti have collaborated on a range of educationally valuable Web-based demonstrations including interpreting spectra by relating bands to animated molecular vibrations on Web sites based on their respective university campuses. These may require Unzip and specialized plug-ins described on their Web pages. Bob McDonald has also developed a personal Web site following his pioneering work co-authored with Paul Wilks on the JCAMP.DX file transfer protocol. The Web page describes opportunities to extend the protocol to other spectroscopic techniques co-ordinated by an IUPAC working party chaired by Dr. Tony Davies. Warren Vidrine has also provided a group of links on IR optical materials tables and infrared correlation charts.

The meeting was deemed highly successful and was kindly sponsored by BioRad, Bruker, Nicolet, Perkin-Elmer, Renishaw, and the S. E. Wales Section of the Royal Society of Chemistry. Over 40 attended, but others were prevented by unseasonal heavy snow which almost left visiting scientists stranded in the Welsh mountains!

BILL GEORGE

COBLENTZ/NIST IR DATA BASE

The Coblenz Society and the National Institute of Standards and Technology (NIST) have joined efforts to produce a much needed digital infrared data base for spectral searching and identification. The Coblenz Society has long been noted for its high-quality evaluated infrared reference data and for the recommended standards for infrared data productions. NIST has long had the reputation of producing the highly circulated mass spectral data base and is now entering a joint effort to likewise produce an infrared data base. This new joint effort is initiated under a Cooperative Research and Development Agreement (CRADA) pursuant to 15 U.S.C. section 3710a. Under this agreement NIST and Coblenz will produce a digital infrared data base for distribution through NIST as the *Coblenz/NIST IR Data Base*.

The initial product from NIST is targeted for a fall 1999 release and will contain approximately 20 000 spectra. Approximately half of the spectra are from the NIST/EPA library and half are spectra from digitized Coblenz reference data. Initially the IR data base will include both gas-phase and solid-phase spectra but will be broken down into subsets by phase and compound class once the data base is sufficiently large to warrant such an approach. Specialty subsets of IR data much like the existing Coblenz reference volumes are on-line for production. The existing 10 000 spectra volume series of Coblenz data are also on-line for inclusion in the Coblenz/NIST IR data base. Updates of the data base are scheduled to be produced periodically.

NIST will be providing additional data measurements and data base compilation for distribution including software developments for data handling. The Coblenz Society will be spearheading data solicitation and data evaluation. Any individuals or organizations that have pro-

duced IR reference data sets are encouraged to participate in this effort. The Coblenz Society will be collecting data sets and evaluating them for inclusion into the Coblenz/NIST IR data base. Contributors may retain the copyright for donated spectra or assign the copyright to NIST or the Coblenz Society.

If you are interested in this data base or contributing data to this national/international effort, please contact either Kathy Kalasinsky (301/319-0055) or Clara Craver (573/358-2589) for further information.

COBLENTZ STUDENT AWARDS, 1998

The Coblenz Society congratulates its student award winners for their work in the field of vibrational spectroscopy. Graduate and undergraduate students are indicated by G and U.

RICHARD A. DEVERSE, Department of Chemistry, Kansas State University (Prof. Robert M. Hammaker), *Hadamard transform spectrometry and imaging*. (G)

JEFFREY SCOTT GRELL, Department of Chemistry, University of California, Berkeley (Prof. Herbert L. Strauss), *Synthesis of isotopic species for IR hole-burning spectroscopy*. (U)

EUNAH LEE, Department of Chemistry, Syracuse University (Prof. Laurence A. Nafie), *Vibrational Raman optical activity*. (G)

MATTHEW P. NELSON, Department of Chemistry and Biochemistry, University of South Carolina (Prof. Michael L. Myrick), *Optical computing for predictive spectroscopy; fiber-optic imaging arrays*. (G)

NICOLAE VULPANOVICI, Department of Chemistry, Oregon State University (Prof. Joseph W. Nibler), *Coherent Raman study of surface properties of clusters formed in free-jet expansions*. (G)

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 Champion (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), and Brooks Pate (1999).



Henry Buijs (L) of Bomem Hartmann & Braun presents the Bomem–Michelson Award to Sandy Asher (R) of the University of Pittsburgh, in Orlando at the Pittsburgh Conference this past March.

The award carries with it a \$1,000 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. John Hellgeth, 1330 Zephyr Court, Cumming, GA 30133; phone: (770)-205-0607; e-mail: jhellgeth@aol.com] on or before July 1, 1999.

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 the accomplishments as well as 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 Bomem–Michelson Award Symposium at the Pittsburgh Conference in Orlando featured (left to right) Lawrence Ziegler (speaker, Boston University), Paul Champion (speaker, Northeastern University), Sandy Asher (awardee, University of Pittsburgh), Nancy Ferris (symposium chairman, Eastman Kodak Co.), Henry Buijs (award presenter, Bomem Hartmann & Braun), and Larry Nafie (speaker, Syracuse University).

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), and Don Kuehl (1999).

This award includes a \$1000 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. Bruce Chase, CR&D 328/163, Experimental Station, E.I. du Pont, Wilmington, DE 19880-0328; phone: (302)695-4434; fax: (302)655-5819; e-mail: chase@esvax.dnet.dupont.com] before February 1, 2000.

Bomem–Michelson Award. This award is dedicated to the memory of Professor A. E. Michelson, developer of the Michelson interferometer. Bomem, Hartman & Braun 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 Coblenz Society. The presentation will be made at the Pittsburgh Conference.

Previous recipients of the Bomem–Michelson Award



Many spectroscopists enjoy the Coblenz Society Wine and Cheese Reception after the Williams–Wright Symposium every year at the Pittsburgh Conference and look forward to the informal discussions that take place. From left to right: Richard Palmer, Richard Crocombe, and Rina Dukor.

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), and Sandy Asher (1999).

The nomination should include a resume of the candidate's career as well as the special research achievements that make the candidate an eligible nominee for the Bomem–Mihelson 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. John Coates, 12 North Branch Road, Newton, CT 06470; phone and fax: (203)426-8495. Nominations will close March 31, 2000.

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.



Coblenz members enjoy discussions after the Williams–Wright Symposium at the Pittsburgh Conference in New Orleans this past March (left to right) Don Kuehl and his wife, Dave Haaland, and Peter Griffiths.

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), and Mitsuo Tasumi (1999).

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. John Hellgeth, Coblenz Society Membership Chairman, 1330 Zephyr Court, Cumming, GA 30041.

Board Meeting. The Coblenz Society Board will hold its semi-annual meeting the fourth week in October at the FACSS Conference in Vancouver, Canada. Any article of business that you want the board members to consider needs to be sent in writing to Dr. David Haaland, Coblenz 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 1999–2003 to Coblenz Society President, Dr. David

Haaland (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 1999 to Dr. David Haaland, Coblenz Society President (see address at end of newsletter), prior to September 1st.

COBLENTZ SOCIETY OFFICERS

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COBLENTZ SOCIETY BOARD

<u>Name</u>	<u>Term Expires</u>	<u>Telephone</u>
Dr. Nancy Klymko IBM Corp. Hudson Valley Research Park Route 52 Hopewell Jct. NY 12533	2000	(914)894-5752
Professor M. D. Morris Department of Chemistry The University of Michigan 930 N. University Avenue Ann Arbor, MI 48109-1055	2000	(313)764-7360
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Dr. John Hellgeth 1330 Zephyr Court Cumming, GA 30133	2002	(770)205-0607
Dr. Richard McCreery Ohio State University 100 West 18th Ave. Columbus, OH 43210	2002	(614)292-2021
Dr. Robert Messerschmidt Spectra-Tech, Inc. 2 Research Drive Shelton, CT 06484	2003	(203)926-8998
Dr. Andy Sommer Miami University Department of Chemistry Hughes Hall Oxford, OH 45056	2003	(513)529-2874