

Newsletter

A Society for Applied Spectroscopy Affiliate

No. 157

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October 2013

EDITOR'S COMMENTS

In preparing for this issue's comments, I looked to the historic issues for inspiration. They are a wonderful repository both in terms of society history and important technological advances. On chance, I stumbled on mailing 4 from April 10, 1957, where the purpose of the Society is discussed. Members were actively encouraged to propose and carry out programs of interest, and the executive committee was encouraged to help facilitate member-driven initiatives. "It was the general feeling, however, that there exists, at the present time, a sufficient number of formal societies, publications, etc. that the Coblenz Society should be kept informal as a mechanism through which the members themselves could act, if they so desired."

We often ask members for help and volunteer time so that we can provide excellent technical sessions at conferences or meet new people at the exhibit booth. Indeed, the Coblenz Society is very active through conference support, awards, education, or online networking. But, let's turn the tables. Ask yourself how can Coblenz help *you* accomplish audacious goals. Do you desire to carry out "something big"? The Executive Board and Governing Board are here to serve our members. Can we facilitate open discussion on our LinkedIn page? Can we start a competition to support grant seed money? On the cusp of our 50th anniversary, let's all dream big. Propose an outrageous plan, think outside the "particle in a box". As a member-driven Society, Coblenz prospers because of your dreams and vision and hard work.

Karen and Francis Esmonde-White

PRESIDENT'S MESSAGE

I am very honored to have been elected President of the Coblenz society. I am in the enviable position of inheriting a well functioning organization. Dr. Michael Myrick and Dr. Ian Lewis before him have put a great deal of effort in organizing the Coblenz Society into one with active working committees that are moving forward on science initiatives, sound finances, education, conference participation and awards. I want to thank them and all the volunteers that make the Coblenz society run so well!

I would like to give you a bit of my background that will enable you to get to know me a bit. I have an MS in Analytical Chemistry from Ohio University (go Bobcats!), where I had the pleasure to learn spectroscopy from my advisor Dr. Peter Griffiths. I have applied vibrational spectroscopy to solve problems and gain understanding about materials in the electroplating, polyolefin, consumer products and pharmaceutical industries using infrared and Raman since 1979. I remember that it was a learning experience

to go from grad school to industry and I was fortunate to learn more about IR and Raman interpretation from Lionel Bellamy, Bob Hannah and later instrumentation from others at a couple of the Bowdoin course on Infrared Spectroscopy in the early 80s. In the early 90s, I started a Process Analytical Chemistry group at Colgate-Palmolive and later in 2003 I started a Process Analytical Technology group at GlaxoSmithKline.

I am deeply committed to being active in professional societies and volunteer service. I have been a member of the Coblenz Society since the 90s. I became active as a representative to the FACSS conference from 1998-2007. I was asked in 1999 by the president at that time, Arlene Garrison, to petition EAS on Coblenz behalf to become a sponsor of that conference and did so successfully. I then got more involved with the FACSS conference through organizing the workshops and the employment bureau. Since 1999, I have taught a one-day course with Chris Hassell on Process Analytical Chemistry and it is still intermittently offered. I began organizing PAT technical sessions at FACSS and was elected program chair for the Fort Lauderdale FACSS conference in 2003. I subsequently began coordinating the organization of PAT session at FACSS and in 2007 I was elected governing board chair. Later, I served FACSS as long range planning chairman and then site selection chairman. Currently, I am still the PAT section chair for SciX. I also belong to the ASTM and contribute to the Spectroscopy committees in the E13 committee and the pharmaceutical committees in E55 as they pertain to PAT.

I hope that this bit of background illustrates my involvement and commitment to the vibrational spectroscopy community. I have a strong desire to teach spectroscopy because I believe it is a valuable tool to characterize materials both qualitatively and quantitatively. It is my own experience that vibrational spectroscopy can be extremely valuable in real time monitoring of chemicals and chemical products. I want to see spectroscopy continued acceptance in research, and I am excited about the technological advances and the Society's growth. We see exciting developments in smaller and more compact spectrometers. They are finding their way into mainstream applications and are utilized by many non-spectroscopists like first responders to identify chemical spills and other potentially threatening materials. The Society continues to grow in membership and maintain financial security.

My commitment as Society President is to help the field in any way that possible. To do this I need your help! Together, we can continue to define the applications for spectroscopy and communicate the needs of spectroscopists. Each of us can contribute to the Society. This brings me to the efforts of the Coblenz governing board and various committees. We have a robust online presence

through our website and LinkedIn page. If you haven't, please subscribe to the Coblenz Society LinkedIn page where we have many lively discussions! In particular, Ellen Miseo from our Education Committee raised the important question of undergraduate training. How can we, as a society, help improve undergraduate curriculum to include a stronger component of vibrational spectroscopy instrumentation and spectral interpretation? How can we help prepare tomorrow's industry practitioners? In particular, we appreciate the input from our younger members who have recently taken instrumentation courses.

Our outreach and scientific initiatives are making a difference. Coblenz supports the IR Spectroscopy training at Bowdoin College and has recently welcomed 20 new members who recently attended that training. Our Science Team, chaired by Dr. James de Haseth, is undertaking a number of activities. It is working to revise the definitions of the Class I, II, and III spectra, updating them to the FT age. Additionally, there have been discussions to plan a spectroscopy competition. Details are in the planning stage.

Another way we meet our society vision in vibrational spectroscopy education is through sponsoring social events and technical sessions at conferences. Again this year Linda Kidder has organized excellent IR session, 12 in total, at SciX covering topics such as two-dimensional spectroscopy, spectroscopy for lab on a chip, nanoscale imaging, forensics, art and archaeology and other sessions in industrial spectroscopy. The PAT sessions include: pharmaceutical and biopharmaceutical monitoring, real time assurance, data analysis for PAT, two sessions on continuous flow monitoring and a session discussing the state of PAT which will include a panel discussion. Additionally, in the fall at the EAS conference Brandye Smith Goettler is organizing several sessions including, "Spectroscopic Sensing for Biomedical Sensing" and others. I am sure you will learn quite a bit about the spectroscopic techniques being applied in both industry and academia by attending any or all of the sessions that you can at any of the conferences.

We also recognize achievement through our sponsorship of professional awards and the related symposium. I congratulate this year's winners and look forward to their lectures and symposia. At Pittcon 2013, we recognized the Bomem-Michelson award winner, Professor Brooks H. Pate from the University of Virginia. Dr. Pate and his group studies the dynamics of molecules with significant amounts of vibrational energy. The flow of vibrational energy in a molecule, a process known as intramolecular vibrational energy redistribution (IVR), lies at the heart of chemical reactivity. They study the kinetics of energy flow in isolated molecules and molecules in solution. Their group has developed a new type of molecular spectroscopy called dynamic rotational spectroscopy to study isomerization reactions of isolated molecules. The basis of rotational (or microwave) spectroscopy is that the geometry determines the measured rotational frequencies

It was my pleasure to give the Williams-Wright Award at Pittcon 2013 to a long time friend and colleague Dr. John Coates. John is the principal consultant for Coates Consulting LLC, a network consultancy focused on applied and industrial instrumentation, optical spectroscopy, analytical instruments, and sensors for dedicated applications. His main focus in the past 12 years is on instrument miniaturization and spectral sensors. Dr Coates has devised and developed more than 20 different instrument and sensor products for dedicated analyses and has worked with leading companies in major industry sectors (environmental, industrial, aerospace, computer technology and medical). He is a founding member of Sentelligence, a sensor company focused on the automotive industry.

Professor Rohit Bhargava, Professor of Bioengineering at the University of Illinois at Urbana-Champaign has been selected as the recipient of the 2013 Craver Award to be awarded at SciX. Professor Bhargava's research interests have spanned the areas of Instrumen-

tation development and analysis including the development of high definition and ultrasensitive IR imaging systems, and of time-resolved IR imaging. He has also made advancements in the design and fabrication of nanostructures for optical sensing, advancements in chemometrics, high-performance computing and visualization. His work has spanned applications of spectroscopic imaging to solve various problems in composite polymers, cancer histopathology, forensics, molecular diffusion, and seed grains.

The 2013 Lippincott Award recipient is Sunney Xie at Harvard University, for his pioneering contributions to the development of nonlinear vibrational imaging, including coherent anti-Stokes Raman and stimulated Raman scattering microscopy, and its applications to chemistry, biology and medicine.

The 2013 Coblenz Student award winners this year are Rachel Masyuko, University of Notre Dame, Tao Liang, University of Georgia, Tomasz Wrobel, Jagiellonian University, and Sarah E. Holton, University of Illinois at Urbana-Champaign. These student awardees were recognized at the Annual Members Meeting at Pittcon and are invited to present posters at the Sunday night Student poster session at SciX. The Fateley student award winner, Tomasz Wrobel, is also invited to present a poster at SciX.

In closing, I want to remind everyone that as a volunteer organization it takes the efforts of many people to accomplish what has been reported here. I want to thank those committee members, managers, officers, and other volunteers for your continued excellence and efforts. I would like to encourage members who have an interest in furthering the field of vibrational spectroscopy to talk to members of the board and myself. Please offer your help, but if that is difficult, please offer your ideas and suggestions to us so that we can continue to develop and improve the field of vibrational spectroscopy for new spectroscopists and practitioners in years to come.

Jim Rydzak
Coblenz Society President

COBLENTZ TREASURER REPORT

Contributed by treasurer Mary Carrabba

The financial health of the Society continues to improve with our endowment standing at historic highs. At present our endowment is at an all-time high of about \$450,000, having grown at a compounded rate of 7 % over the last several years. Although at the time of this report final accounting for 2012 is not complete, income and expenditures are in line with the budgeted amounts. A finalized accounting for 2012 will be available by the general membership meeting at Pittcon. The budget for fiscal year 2013 was approved by the Board of Managers at the Fall SciX meeting and an abbreviated version is presented below. A complete version may be requested from the treasurer by any Society member.

The finance committee noted that a majority of the Society's funds have come from temporary sources such as royalties on the digitized database of spectra and FACSS/SciX surpluses. The committee decided to sell Coblenz Deskbooks at a reduced rate to accredited academic institutions and academic researchers.

Expenses	(in dollars)
Booth expenses (Pittcon, Ohio State University International Symposium on Molecular Spectroscopy, FACSS/SciX, Eastern Analytical Symposium)	1,650
Awards and Endowments	6,835
Pittcon (including reception)	4,900
OSU (including reception)	1,150
SciX	1,800

EAS (including reception)	3,650
New booth merchandise (shirts, etc.)	1,050
Educational and Science Team activities	1,050
General operating expenses (taxes, legal fees, insurance, registrations, shipping, etc.)	7,806
<i>Total expenses</i>	29,891
Income	(in dollars)
Member dues	4,380
Book sales and IR collection revenue	5,100
Sponsors and donations	7,700
Merchandise sales	600
Pittcon	3,500
FACSS/SciX	2,475
EAS	1,000
Anticipated endowment disbursement	6,085
<i>Total Income</i>	30,840
Budget Total (Surplus)	949

COBLENTZ SOCIETY MEMBERSHIP REPORT

Contributed by Mark Druy

Our active membership is at 550, which is an increase of 100 over last year, but down from 600 in 2010. The board adopted a proposal to use a new software program to handle membership that would enable easier handling of the database and enable simpler online membership renewal. We have completed the migration of our membership database to an online service. The online membership service enables you to renew your commitment to The Coblenz Society with an easy online payment. In addition, the service will remind you when your annual membership dues need to be paid. Over the course of the next few months, we will be migrating our e-newsletter format to this service as well.

If you get a dues notice from the membership system and you have recently renewed your membership through SAS, please don't hesitate to get in touch with our Membership Chair, Mark Druy, (mark.druy@coblenz.org) so that he can modify your membership renewal date.

PITTCON 2013

The 2013 Williams-Wright was awarded to Dr. John Coates (Coates Consulting, LLC) by the chair of the Williams-Wright award committee, Shawn Mehrens (Pfizer), and Jim Ryzdak (GSK), the current president of the Coblenz Society, during a special awards symposium at Pittcon in March. The symposium was focused on the advancement of the miniaturization of vibrational spectroscopy through the years, and included speakers Richard Crocombe (Thermo-Fisher Scientific), Petros Kotidis (Block Engineering), Jason Eichenholz (Open Photonics, Inc.) and Heinz Wilhelm Siesler (University of Duisburg-Essen). The speakers shared their personal and professional interactions with John during the time they've each known him, as well as provided interesting talks about technologies that seem impossible to even the seasoned spectroscopist. Congratulations again to John on being the recipient of such a distinguished award!

2013 OHIO STATE UNIVERSITY SYMPOSIUM ON MOLECULAR SPECTROSCOPY

Coblenz Society is a proud sponsor of the OSU symposium and we honor our Coblenz awardee at this symposium. This year, we recognized Dr. Nathalie Picqué as 2013 Coblenz award recipient. She is a senior research scientist with the Centre National de la Recherche Scientifique (CNRS, France). Dr. Picqué's group is pioneering novel applications of laser frequency combs to molecular spectroscopy. Recent experiments in Picqué's team have demonstrated that



At Pittcon 2013, the Coblenz Society awarded the Williams-Wright award to Dr. John Coates during a special the award symposium. Shown from left to right: Shawn Mehrens, John Coates, Richard Crocombe, Jason Eichenholz, Jim Ryzdak, and Petros Kotidis. Heinz Wilhelm Siesler is absent from the picture.



Micky Myrick (l) and Jon Scaffidi (r) manned the Coblenz Society booth at the Ohio State Symposium on Molecular Spectroscopy. The Society also awarded Nathalie Picqué the Coblenz Award for her research in the application of novel laser frequency combs to molecular spectroscopy.

frequency combs are dramatically improving the resolution and recording speed of Fourier spectrometers for broad spectral bandwidth linear absorption spectroscopy.

We also have the Coblentz booth up, collecting new members and offering Coblentz gear. Our past president, Dr. Michael Myrick, also attended the Molecular Spectroscopy Conference and reports some exciting news. The conference will be moving next year to Illinois! At a recent meeting, we discussed how the Coblentz Society can support the conference and we are pleased to maintain our strong support for the conference in 2014. However, will we need to import donuts from Columbus for the conference?

EXCERPTS FROM *SPECTROSCOPY* MAGAZINE

At FACSS 2011, we had the opportunity to talk with Laura Bush from *Spectroscopy* magazine and we talked about the possibility of publishing excerpts of the Coblentz Newsletter in *Spectroscopy*. After a discussion with Micky Myrick we decided that publishing a short overview of the Coblentz Newsletter in *Spectroscopy* would be beneficial to the Society. In turn, we will point members to items published in *Spectroscopy* that we believe are of interest to readers.

Enjoy!

Karen and Francis Esmonde-White

SPECTROSCOPY SciX AWARD PODCAST SERIES

Rohit Bhargava of the University of Illinois at Urbana-Champaign and Volker Deckert of Jena University in Germany are two of the scientists interviewed in this year's podcast series produced by *Spectroscopy* magazine in collaboration with the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS). The podcast series highlights the awards granted at the federation's annual North American conference, SciX, and follows on a successful series of interviews conducted in 2012.

Bhargava Interview: Vibrational Spectroscopic Imaging: Theory, Application, and Advances. Rohit Bhargava, the winner of the 2012 FACSS/SciX Innovation Award, explains new research into the theory of vibrational spectroscopic imaging that can lead to the development of instruments with new capability for both IR and Raman imaging, for use in various fields, including disease diagnosis.

Deckert Interview: Nanometer-Scale Studies Using Tip Enhanced Raman Spectroscopy. Volker Deckert, the winner of the 2013 Charles Mann Award, is advancing the use of tip enhanced Raman spectroscopy (TERS) to push the lateral resolution of vibrational spectroscopy well below the Abbe limit, to achieve single-molecule sensitivity. Because the tip can be moved with sub-nanometer precision, structural information with unmatched spatial resolution can be achieved without the need of specific labels.

The new interviews are posted on the *Spectroscopy* magazine website, at www.spectroscopyonline.com/podcasts. Interviews from the 2012 series can be found at the same location.

Special Issue on Raman Published by *Spectroscopy*. *Spectroscopy* magazine has published a new special issue on Raman spectroscopy.

Topics covered include:

- the discrimination of bacterial growth media using portable Raman spectroscopy
- the advantages of 1064 nm portable Raman for identifying counterfeit pharmaceuticals
- how to choose from among classical or transmission Raman, SERS, or TERS, for a given application
- polymorph identification and analysis using ultralow frequency Raman spectroscopy.

For open access to the articles, visit <http://bit.ly/Raman2013>.

COBLENTZ LinkedIn GROUP

If you have not already joined, we encourage all members to join the Coblentz LinkedIn group! It is a vibrant, useful tool where members can share professional news, articles of interest, or ask questions. We also solicit nominations for Coblentz-sponsored awards and encourage members to submit items for the Newsletter. We hope to see you online!

<http://www.linkedin.com/groups?gid=1831157>

Your editors, Karen and Francis Esmonde-White

CALL FOR NOMINATIONS FOR COBLENTZ SOCIETY AWARDS

In the spirit of rewarding excellence, we would like to take this opportunity to encourage you to nominate qualified candidates for the Society's awards. Coblentz honors individuals at all ages and experience levels, ranging from student awards to honorary memberships. Nomination information, requirements for each of the Society's awards, and online nomination forms can be found on the Coblentz Society's website (www.coblentz.org). The awards are a great way to recognize scientific achievements or service to the society. We encourage all members to take a look at the awards and consider nominating your fellow spectroscopist!

Your editors, Francis and Karen Esmonde-White

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 Coblentz Society. The award is presented each year at the Pittsburgh Conference. The ABB sponsored Bomem-Michelson Award Symposium is held in honor of the awardee and immediately follows the presentation.

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), Sanford 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), Geraldine Richmond (2008), Martin Quack (2009), Richard Van Duyne (2010), Isao Noda (2011) and Joel Harris (2012).

Detailed nomination instructions including deadlines are available on the Coblentz web site at www.coblentz.org/awards/the-bomem-michelson-award.

Coblentz Award. The Coblentz Award is normally presented annually to an outstanding young molecular spectroscopist under the age of 40. The new age requirement for the Coblentz award is that a candidate must be under the age of 40 on January 1 of the year of the award. The Award is presented and the Coblentz Award Lecture is delivered each June at the Ohio State University International Symposium on Molecular Spectroscopy. The link for the OSU symposium is: molspect.mps.ohio-state.edu/symposium/.

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), Xiaowei Zhuang (2008), Benjamin McCall (2009), and Timothy Schmidt (2010). No award was presented in 2011. Greg Engel (2012) and Nathalie Picqué (2013) are the most recent awardees.

Detailed nomination instructions including deadlines are available on the Coblentz web site at www.coblentz.org/awards/the-coblentz-award.

Coblentz Student Award. The Coblentz Society has for many years encouraged young scientists to pursue studies in spectroscopy by seeking nominations of outstanding students for the Coblentz Student Awards. The awardees receive a copy of the Society's Deskbook, a certificate, and a year's membership in the Society. Their names and the names of their faculty advisors will appear in the Society's Newsletter published in *Applied Spectroscopy*.

The awardees for 2010 were: Ram Bhatta, Department of Chemistry, University of Akron, Professor David S. Perry; Praveenkumar Boopalachandran, Department of Chemistry, Texas A&M University, Prof. Jaan Laane; Bryon Herbert, Department of Chemistry and Biochemistry, University of Delaware, Professor Karl S. Booksh; Yuliya Luzinova, Department of Chemistry and Biochemistry, Georgia Institute of Technology, Professor Boris Mizaikoff; and Hajime Okajima, Department of Chemistry, the University of Tokyo, Professor Hiro-o Hamaguchi.

The awardees for 2011 were: Rohith Reddy, Univ. of Illinois at Urbana-Champaign, Professor Rohit Bhargava; Nathaniel R. Gomer, Univ. of South Carolina, Professor S. Michael Angel; Esther J. Ocola, Texas A&M University, Professor Jaan Laane; Savitha S. Panikar, University of Missouri-Kansas City, Professor James Durig; Megan R. Pearl, University of South Carolina, Professor Michael Myrick.

The 2012 class of awardees are: Eduardo Berrios-University of Illinois at Urbana-Champaign, Prof. Martin Gruebele, Marleen Kerssens-Biophotonics Research Unit at Gloucestershire Hospitals, Prof. Nick Stone and Prof. Pavel Matousek, Rajesh Marampudi-Cleveland State University, Jonathan Schaefer-University of Utah, Joel Harris, Andreas Wilk-University of Ulm, Prof. Boris Mizaikoff and Xiaohua (Sarah) Zhou-University of Missouri Kansas City, Prof. James Durig. Xiaohua was also awarded the 2012 Fateley Award.

The 2013 Coblentz Student award winners are Rachel Masyuko, University of Notre Dame; Tao Liang, University of Georgia; Tomasz Wrobel, Jagiellonian University; and Sarah E. Holton, University of Illinois at Urbana-Champaign. Tomasz was also awarded the 2013 Fateley student award.

Detailed nomination instructions including deadlines are available on the Coblentz web site at www.coblentz.org/awards/coblentz-student-awards.

Craver Award. The Craver Award is presented annually to recognize young spectroscopists for efforts in applied analytical vibrational spectroscopy. Nominations for the Craver Award are being accepted through August 30, 2013. Candidates must be under the age of 45 on January 1 of the year of the award. The candidate's 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 backgrounds. Nominations for the 2013 Craver Award must include a detailed description of the nominee's accomplishments, a curriculum vitae or resume, and minimum of three supporting letters. Nominations close on August 30, 2012. Files of candidates will be kept active for three years or 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.

Previous recipients of the award are: Katherine A. Bakeev (2007), John Conboy (2008), Takeshi Hasegawa (2009), Boris Mizaikoff (2010), Michael W. George (2011), Duncan Graham (2012), and Rohit Bhargava (2013). The award carries a \$1000 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 during the SciX meeting, 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. Detailed nomination instructions including deadlines are available on the Coblentz web site at www.coblentz.org/awards/the-craver-award.

William G. Fateley Student Award. In 2010, a new student award in the name of William G. Fateley was created by the family and former group members of Bill Fateley, in conjunction with the Coblentz Society and the Society for Applied Spectroscopy. Winners of the Coblentz Student Award receive a copy of the Society's Deskbook, a certificate, and a year's membership in the Society. Their names and the names of their faculty advisors will appear in the Society's Newsletter published in *Applied Spectroscopy*. Winners of the William G. Fateley Student Award also receive a \$1000 prize and are asked to speak in the Student Awards Session at FACSS or another appropriate location.

Previous awardees are: Ali Eftekhari-Bafrooei (2010), Rohith Reddy (2011), and Xiaohua (Sarah) Zhou (2012). The 2013 awardee is Tomasz Wrobel.

Detailed nomination instructions including deadlines are available on the Coblentz web site at www.coblentz.org/awards/william-g-fateley-student-award. Note that the Fateley student awardee is selected from the top three candidates who receive the Coblentz student awards, requiring that the students be nominated for the Coblentz student award prior to consideration for the Fateley student award.

Ellis R. Lippincott Award. The Ellis R. Lippincott Award is presented annually to an outstanding vibrational spectroscopist. It is co-sponsored by the Coblentz Society, the Society for Applied Spectroscopy, and the Optical Society of America. The award is presented in memory of Professor Ellis R. Lippincott to scientists who have made significant contributions to vibrational spectroscopy as judged by their influence on other scientists. 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 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.

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 of that belief. No restriction is placed on who may nominate, and all nominations received by the committee prior to October 1st in any year will be considered for the award to be presented in the fall of the following year. Files of nominees will be kept active for three years, after which the nominee must be re-nominated with an updated file or the file will be closed. Nominations for the Ellis R. Lippincott Award are accepted from January 1st through October 1st, 2013.

Previous recipients include: Richard G. Lord (1976), Lionel Bellamy (1977), Bryce Crawford, Jr. (1978), E. Bright Wilson (1979), George C. Pimentel (1980), Ian Mills (1981), Michel Delhay (1982), John Overend (1983), Jon T. Hougen (1984), Ira W. Levin (1985), Wolfgang Kaiser (1986), C. Bradley Moore (1987), Andreas C. Albrecht (1988), Marilyn E. Jacox (1989), Robert W. Fields (1990), Richard J. Saykally (1992), John F. Rabolt (1993), Herbert L. Strauss (1994), Giacinto Scoles (1995), Giuseppe Zerbi (1996), Robin Hochstrasser (1997), Takeshi Oka (1998), Mitsuo Tasumi (1999), Donald Levy (2000), Lester Andrews (2001), Sandford Asher (2002), Shaul Mukamel (2003), Richard Mathies (2004), Jaan Laane (2005), Hai-Lung Dai (2006), Jonathan Tennyson (2007), Richard Van Duyne (2008), Michael Fayer (2009), Martin Moskovits (2010), Isao Noda (2011) and Keith Nelson (2012). The 2013 awardee is Prof. Xiaoliang Sunney Xie.

Detailed nomination instructions including deadlines are available on the Coblenz web site at www.coblenz.org/awards/the-lippincott-award.

Williams-Wright Award. This award is presented annually at the Pittsburgh Conference to an industrial spectroscopist who has made significant contribution to vibrational spectroscopy while working in industry. The Williams-Wright Award Symposium is held in honor of the awardee and immediately follows the presentation. 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 award consists of a framed certificate 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.

Previous recipients of the Williams-Wright Award are: Norman Wright (1978), Norman Colthup (1979), Jeannette 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), Rina Dukor (2008), Jerome J. Workman (2009), Patrick Treado (2010), Howard Mark (2011), Richard Crocombe (2012). The 2013 awardee is John Coates.

Detailed nomination instructions including deadlines are available on the Coblenz web site at www.coblenz.org/awards/the-williams-wright-award.

BENEFIT LUNCHEON FOR FATELEY AND LIPPINCOTT ENDOWMENTS

The endowments supporting the Lippincott and Fateley awards are underfunded and we need your help so that we can continue to

recognize both young scientists and established researchers. Last year at SciX 2012, we co-sponsored a fundraising luncheon with SAS with the goal of supporting the endowments. It was a very enjoyable lunch, which included presentations from Dr. Peter Griffiths and Dr. Bruce Chase who reminisced about Dr. Ellis Lippincott and Dr. Bill Fateley. Their stories helped us all to get to know these two renowned spectroscopists better. An article in Spectroscopy's February 2013 issue contains these stories: <http://www.spectroscopyonline.com/spectroscopy/Articles/Bill-Fateley-and-Ellis-Lippincott-Remembering-the-ArticleStandard/Article/detail/805306>

We are planning another luncheon this year at SciX 2013 in Milwaukee. Details to be sent out by email in August. You can also directly donate to the Society via our website to contribute to the Fateley award endowment at: <http://www.coblenz.org/awards/william-g-fateley-student-award> and directly contribute to the Lippincott award endowment at: www.osa-foundation.org/contribute.

WILLIAM G. FATELEY STUDENT AWARD: A SPECIAL CALL FOR CONTRIBUTIONS

The family and former group members of William G. Fateley, in conjunction with the Coblenz Society and the Society for Applied Spectroscopy, created an endowment supporting a student award in his honor in 2010.

A lasting component of Bill's legacy was his encouragement for students to attend professional conferences and meet their peers. He made it a goal to introduce young scientists to the "people" in the field and to get them personally involved. Fostering this interaction was important to Bill; perhaps as much as it was for the science. His efforts included sending his students to many international conferences. If need be, he even went as far as to bring the social interaction center (disguised as a mobile spectroscopy lab) directly to the conference. Bill's commitment to encouraging students to attend conferences, meet and interact with their colleagues and contribute to the field of spectroscopy, has produced a whole new generation of spectroscopists. These actions have enriched the groups and societies that Bill championed so strongly and this is the legacy that we hope to continue with the establishment of this award.

The inaugural award was presented during the two special sessions at FACSS 2010 honoring Bill Fateley. These sessions consisted of a mixture of presentations from Bill's colleagues and former group members. The William G. Fateley Student Award is being administered by the Coblenz Society. The Society is currently accepting contributions to the initial endowment of the Fateley award. Please consider contributing to the formation of this award, and continuing the positive impact Bill Fateley had on the spectroscopic community.

Due to his worldwide impact on the field of spectroscopy, tax-deductible donations to the award fund are encouraged from all of "Wild" Bill's friends, colleagues and professional societies. Funds may be sent to:

The Coblenz Society / The William G. Fateley Award,
acct: 469576552
JP Morgan Chase Bank
243 E Main Street
Ashland, OR 97520

For those who prefer to send a check, please mark it as a contribution to the William G. Fateley Award and send it to the treasurer of the Coblenz Society.

SOCIETY ANNOUNCEMENTS

Membership. Anyone wishing to join the Society may do so by submitting an application at the Coblenz web site (www.coblenz.org/Membership) or by contacting Dr. Mark Druy, Coblenz Society Membership Chairman, Physical Sciences, Inc., 20 New England Business Center, Andover, MA 01810. Phone: (978) 738-8195, Fax:

(978) 689-3232, e-mail: druy@psicorp.com. Dues can also be paid online at the Coblentz web site (<http://www.coblentz.org/payments>). We also welcome suggestions for honorary memberships in the Society.

Board Meeting. The Coblentz Society Board of Managers will hold its semi-annual meeting at the 2014 PittCon conference. Please consult the Coblentz LinkedIn site for further information. Any article of business that you want the Board members to consider must be sent in writing to Jim Ryzdak, Coblentz Society President (see address at end of newsletter), prior to the conference.

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