

The Coblenz Society

Newsletter

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A Society for Applied Spectroscopy Affiliate
Editors: Katherine Cilwa and Karen Esmonde-White

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EDITOR'S COMMENTS

In our last letter, we reflected on the man behind our name and the man behind the spectrometer. In this issue, I decided to take a trip back to the year it all began. In 1954, the first color TV was twelve inches and sold for \$1000, the first mass polio vaccinations began, and the first TV dinner and electric drip coffee pot were sold. The first Godzilla film debuted, Marilyn Monroe married Joe DiMaggio, the NY Giants won the World Series, and William Golding's *Lord of the Flies* was published. *Brown v Board of Education* declared segregated schools unconstitutional. TV began to focus a little less on idealism and more on reality as Joseph McCarthy was asked, "Have you no sense of decency?" when ABC aired the infamous Army-McCarthy hearings, and after 21 years of broadcast the Lone Ranger aired its final episode. Ellis Island's immigration center closed its doors forever. Turmoil broke loose in Vietnam. Rock n' roll burst to life with Bill Haley and His Comet's "Rock Around the Clock" and promised to either redeem us or send us straight to hell.

Amidst the cacophony of world politics and pop culture not unlike today, I am reminded that with steady focus scientists spent dedicated hours pursuing worthy endeavors. Filtering out these distractions; they created, explored, and propelled us forward. They worked hard, yet all the while, maintained relevancy. In 1954 CERN was founded, the first successful organ transplant occurred, the first nuclear power plant was built, and the first nuclear submarine was launched. The six original SI base units were proposed. The Nobel Prize in physics was shared by Max Born and Walther Bothe, and awarded in Chemistry to Linus Pauling. In the same 1954 issue of *Nature*, Harold Hopkins reported the first low-loss coherent fiber bundle and Abraham van Heel revealed the first glass coated fiber—two advancements that would shape modern fiber optics. Finally, the predecessor of the laser (the maser) was invented, and Perkin Elmer introduced the first commercial IR microscope.

In 1954, the Coblenz Society was formally announced after its conception at the Ohio State University with the objective, "to foster the understanding and application of infrared spectroscopy." Sixty years later, with the tenure of ISMS at The Ohio State University at a close and internet in our back pockets, the objective of the Society holds true even if the conference is surrounded by a few less fanatic buckeyes and donuts (Go Buckeyes!) and its scientists now have a few more distractions. Scientists continue to lock themselves in the lab and work hard. Coblenz Society members will continue to push forward, to invent, to foster the understanding of infrared spectroscopy, and to maintain relevancy through application. We look forward to what another 60 years will bring.

In 2014, we welcome Mary Tecklenburg and Richard Crocombe to the Governing Board, and Luisa Profeta as Secretary. Thank you for your time and efforts! In celebration of our 60th anniversary, and some of the Society's earliest endeavors, our spectral databases are 50% off.

Katherine Cilwa and Karen Esmonde-White (Go Blue!)

PRESIDENT'S MESSAGE

Contributed by Jim Ryzdak

Greetings: This is my first President's report since taking the gavel from Dr. Michael Myrick.

The Coblenz Society remains financially sound. Our Coblenz activities due to the efforts of many of our colleagues who are volunteering their time and effort to the benefit of the vibrational spectroscopy community are growing; we have a membership that is growing; and we have enjoyed good relationships with SAS, FACSS and are active in 4 main conferences: Pittcon, SciX, EAS and the International Symposium on Molecular Spectroscopy (ISMS). ISMS was held at the University of Illinois at Urbana-Champaign for the first time this June. Did you know that the Coblenz Society began at Ohio State at this conference 60 years ago! This conference has a special meaning for us and we hope you joined us! We will have several sessions and activities to celebrate. We are planning the Coblenz Spectroscopy Challenge, a speed mentoring session, a Coblenz Reception on Monday night after the Exhibit opening to name a few.

At Eastern Analytical Symposium, (EAS), we will have an anniversary session and a 60th anniversary reception. Pittcon 2015 will have a session organized by Bruce Chase. The presentation will cover advances over the six decades of spectroscopy.

One of the main expenses of the Society is for awards. We spend \$6,700 each year. This is easily covered via growth in the Coblenz investments, but we have had to fund the Lippincott and Fateley Awards the last few years from our operating expenses as their endowment have been underfunded. In fact, we have used the reinvestment fund from SciX 2013 to fund these this year to allow the endowment for each of these to gain some interest.

Lippincott challenge: Last fall, during the SciX 2013 conference the Coblenz Society received a challenge; if we could raise \$5,000 in personal or corporate donations for the Lippincott endowment an anonymous donor would match the \$5,000. This became known as the Lippincott Challenge. Well! We exceeded the goal by raising over \$7,500 thanks to fundraising efforts, like our SciX 2013 luncheon sponsored jointly by the Coblenz Society and SAS, contributions by individuals and our corporate sponsors. I would like to thank everyone who contributed and especially some of the corporate sponsors (I apologize beforehand, I may not have the complete list) in alphabetic order (Advantest, Applied Chemometrics, Axiom, Coates Consulting, Kaiser Optical Systems, Mettler-Toledo Autochem. After the challenge was met, Coblenz spoke to the Optical Society of America, and the Society of Applied Spectroscopy, who both agreed to match Coblenz with an additional \$2,500, which will fully fund the Lippincott award. We have added over \$20,000 to the endowment, which brings it to over \$38,000! I would like to especially thank Dr. Michael Myrick whose efforts lead to this matching agreement with SAS and the OSA. The

Lippincott endowment was completely transferred to and will be managed by the OSA Foundation under terms that would preserve its principal. The mechanism for administering the award remains the same.

The Fateley endowment is separate from our main investments, and in 2013 totalled \$13,018. In 2013 our fundraising efforts were able to add an additional \$6,700 to that endowment, bringing that endowment to about \$20,000—still well below the level necessary for it to be self-sustaining. We will continue our efforts to raise funds toward the goal of fully funding the endowment for the Fateley Award. With your help, I believe we can achieve that goal as well.

The Finance Committee has reviewed the Treasurer report and finds our financial affairs to be in order. Our 2013 budget ended with a \$4,884 surplus, of which \$1,050 not used by the Science Team and Education Committee was rolled over into 2014. Additionally, \$4,479 in award expenses was not withdrawn from the endowment fund; this “income” rolls over into 2014 and was voted on to be used in the budget that was approved at the Monday evening board meeting.

The Finance Committee also examined our non-profit status. Due to the significant income from our investment fund in 2013, the Society’s classification as a “publicly-supported” organization and not a “private foundation” for the 2013 tax year remains to be determined. The Society’s attorney will be consulted.

Membership Numbers: Our active membership this year stands at 632, compared to 550 last year. There are over 700 members that are not current with their dues. In an effort to restore their membership to good standing, they have been contacted with the opportunity to pay current dues for this year without the need to pay any back dues. This amnesty opportunity was started in February and runs through the end of March 2015.

Membership dues are our most dependable source of significant income, and some of that is handled by SAS through their membership forms. Although we continue to work productively with SAS, the process of transferring membership dues to us in a timely manner is still not working as well as we would like. The problem is that notification from SAS that members have paid the dues often comes months late. This results in emails to you our members saying that your dues have not been paid. We would like to take this opportunity to apologize for this. Our membership committee met with SAS at SciX 2013, but since then there has been some changes in the SAS office that have complicate the efforts. We are working with SAS to improve the system.

Education Committee: The Education Committee has been active and was able to video record the Craver Award plenary session and will make it available to the Society on the Coblenz website. It has been webcast in conjunction with Spectroscopy. They plan to continue this at SciX 2014. Ellen Miseo, chair of the committee, is going to teach a basic IR course for the new Spec Academy program that is being rolled out by Spectroscopy and will work with them to see if we can make the course easily accessible to our members. We also have received a donation of an additional hard-bound spectral collection from Clara Craver’s daughter. The Board voted to reduce the price of the set to \$250 and make them available to anyone. The education committee will work to market and sell them.

Coblenz Mentoring Program: As you may have seen through Coblenz email, we are establishing a mentoring program. This program is meant to address the needs of graduate students and early career spectroscopists. These needs range from working in industry, academia, or government work and what is involved in those areas; to resume writing and advice for interviews; to discussions of technical issues involved with spectroscopy. The key to this is to have good qualified mentors and to match the variety of needs to the best mentors for the job. This role will be part of the Mentoring Committee’s task.

Join us as we celebrate our 60th anniversary: Finally, we are celebrating a historical year for Coblenz, our 60th Anniversary! We have plans to celebrate at the 4 conference that we attend. Please make it a point to join us at as many of these as you can!

Acknowledgements: I would like to end with thanks to all the Coblenz board members, committee, members and volunteers who help make Coblenz a society that we can be proud of; that fosters spectroscopy, education, and help for the members. I thank you all and applaud your efforts!

COBLENTZ TREASURER REPORT (APRIL 2014)

Contributed by Mary Carrabba

The financial health of the Society continues to improve with the economy: our endowment remains at a historic high. The budget for fiscal year 2014 was finalized and approved by the Board of Managers at the Spring 2014 Pittcon Board meeting and is presented below in an abbreviated format. It is planned to make up the budget deficit shown with endowment withdrawals (postponed in each of the last three fiscal years) and/or deferment of website improvements (these comprise \$5,000 of the budgeted 2014 operating expenses). The deficit has already been greatly reduced by Pittcon expenses coming in at less than half of the budgeted amount. At the time of this report, it is too early in the year to present any meaningful numbers, but current amounts as of the end of April are shown. As always, any Society member may request a complete financial statement from the treasurer.

2014 FINANCES:

Expenses	Budget (in dollars)	Actual (in dollars)
Booth expenses (Pittcon, Ohio State University International Symposium on Molecular Spectroscopy, FACSS/SciX, Eastern Analytical Symposium)	600	85
Awards and Endowments	9,905	4,000
Pittcon (including luncheon)	6,400	2,812
OSU (including reception)	1,250	0
SciX (including 60th anniversary reception)	9,300	0
EAS (including reception)	3,650	0
ICORS and IDRC meeting support	1,000	0
New booth merchandise (shirts, etc.)	825	0
Educational and Science Team activities	1,150	0
General operating expenses (taxes, legal fees, insurance, registrations, shipping, etc.)	13,556	415
<i>Total expenses</i>	<i>47,636</i>	<i>7,312</i>
Income	(in dollars)	(in dollars)
Member dues	7,000	1,190
Book sales and IR collection revenue	5,100	0
Sponsors and donations	11,700	3,050
Merchandise sales	800	95
FACSS/SciX	9,475	0
Anticipated endowment disbursement	5,585	0
<i>Total Income</i>	<i>39,660</i>	<i>4,335</i>
Budget Total (Deficit)	(7,976)	

2014 CRAVER AWARD

Professor Lynne Taylor of Purdue University, Department of Industrial and Physical Pharmacy, is the 2014 Craver Award recipient. Professor Taylor’s research interests center on improving the quality and delivery of drugs and other bioactive substances. She has used in situ Raman spectroscopy extensively to investigate phase transformations in pharmaceutical materials including probing crystallization, polymorph conversion and anhydrate-to-hydrate transformation, in powders, solutions and suspensions as well as during processing operations. Her research with infrared spectroscopy has focussed on improving solubility enhancing formulations by understanding the role of



drug-polymer intermolecular interactions in modifying the crystallization behaviour of amorphous solids. Her recent foray into nanoIR spectroscopy and imaging is providing new insights into microstructure in drug-polymer blends. This award is presented to her in recognition of her pioneering work in pharmaceutical molecular studies using Raman spectroscopy in both industrial and academic settings.

PITTCON 2014 REVIEW

At Pittcon, we held our Annual Member Meeting and presented the 2014 Williams–Wright award to John Coates. We thank Richard Crocombe for providing photos from Annual Member Meeting. We are pleased to share related events from Pittcon, including the Society for Applied Spectroscopy session “Women in Spectroscopy”. The session was organized and presided by Coblenz members Ellen Miseo and Gloria Story. Leading women from academia, industry, government, and entrepreneur fields provided insight into their personal and professional lives.

2014 WILLIAMS-WRIGHT AWARD



Speakers in the session: Peter Griffiths, Warren Vidrine, John Coates, Michael Doyle, Richard Cramer, John Coates, Gerald Auth

2014 BOMEM-MICHELSON AWARDEE

Contributed by Nancy Rochette



Ian R. Lewis from Kaiser Optical Systems, Inc.; Takeshi Hasegawa from Kyoto University; Laurence A. Nafie from Syracuse University; Yukihiro

Ozaki from Kwansai Gakuin University, the 2014 ABB sponsored Bomem-Michelson Awardee; Heinz W. Siesler from University of Duisburg-Essen; Dr. Henry Buijs from ABB Analytical.

2013 LIPPINCOTT AWARD PRESENTATION

Contributed by Richard Crocombe

The 2013 Lippincott Award was presented to Prof. Sunney Xie (Harvard University) at a joint meeting of North Eastern Section, Optical Society of America (OSA) and the New England Section, Society for Applied Spectroscopy (SAS) on Wednesday, March 12. The meeting was hosted and sponsored by Thermo Fisher Scientific at their Portable Analytical Instruments Center of Excellence in Tewksbury, MA.

The Award was presented by Phil Malyak (OSA), Mary Kate Donais (SAS) and Ellen Miseo (The Coblenz Society). The talk was entitled “Label Free Vibrational Imaging for Biology and Medicine”. Stimulated Raman scattering microscopy is a label-free and noninvasive imaging technique that uses vibration spectroscopy as the contrast mechanism. Significant advances in sensitivity, selectivity, robustness and cost reduction have been made recently, allowing many biomedical applications.

Link to meeting announcement: <http://nesosa.org/meetings/138-march-12-2014-sunney-xie>.



From L to R: Prof. Xie, Phil Malyak (OSA), Mary Kate Donais (SAS) and Ellen Miseo (Coblenz). Mary Kate Donais (Saint Anselm College) is the immediate Past President of SAS.

EAS 2014 PREVIEW

Coblenz Society will be continuing our 60th anniversary celebration at the Eastern Analytical Symposium, held in Somerset, New Jersey, November 17-19, 2014. We will be sponsoring three technical sessions on: “Coblenz 60th Anniversary Session Development of Vibrational Micro Spectroscopy and Imaging”, “Pharmaceutical and Biopharmaceutical Applications of Near-Infrared Spectroscopy”, and “Chemometric and Spectroscopic Applications in Forensics”. Thank you to Jim Rydzak and Brandye Smith-Goettler for organizing these sessions! We also will have an exhibit booth and a special members reception Monday evening, November 17, 2014, in the DoubleTree Mirabel Room from 6:00 to 8:00 PM. Please join us!

COBLENZ MENTORING PROGRAM

Contributed by Anne Lemon

The Coblenz Society Mentoring Program, initiated in early 2014, aims to help cultivate relationships between early career and veteran spectroscopists. Topics for guidance and shared knowledge can range from technical discussions to advice about career development. You can get involved either as a mentor or a mentee.

In person:

At the SciX conference in Reno, Nevada, there was an opportunity for prospective mentors and mentees to interact in person during a “Speed Mentoring” event, hosted by the Coblenz Society. At this fun event, participants had the opportunity to potentially form a mentor/mentee relationship and expand your professional network.

Virtual aided matching:

For those who would like to participate in the Coblenz Society Mentoring Program but could not attend the SciX conference and the Coblenz Society “Speed Mentoring” event, we have a process in place to help find a suitable mentor or mentee.

There is a questionnaire available at this link: <https://www.surveymonkey.com/s/JRCWKN5>

The matching committee is composed of Jim Rydzak, Anne Lemon, Gloria Story and Fran Adar. We will review the questionnaires and try to find the best match based on areas of interest. We realize this process does not take into account personality compatibility, which is very important to the mentor/mentee relationship. Therefore, we ask the virtually matched pair to keep this in mind throughout introductory interactions. Additional matches will be available upon request. As this is a new program, it is very valuable to share feedback. We have a mentorship forum on the Coblenz Society Membership webpage to have discussions that will benefit the community. Please feel free to email mentoring@coblenz.org with questions or to provide additional feedback.

EXCERPTS FROM SPECTROSCOPY MAGAZINE

For the past few years, we have enjoyed providing items published in *Spectroscopy* that we believe are of interest to readers. These interviews are part of a series with winners of awards presented at SciX 2014. For more, see the *Spectroscopy* magazine home page (www.spectroscopyonline.com). We thank Laura Bush for her ongoing support of this endeavor.

Karen Esmonde-White and Katherine Cilwa

The Craver Award: Lynn Taylor on Improving Drug Formulations with Raman and IR Spectroscopy. The physicochemical properties of drugs are often very diverse and challenging to analyze. Spectroscopy recently spoke with Dr. Lynne Taylor of the Department of Industrial and Physical Pharmacy at Purdue University, and the 2014 Coblenz Society Craver Award winner, about her on-going research using Raman and IR spectroscopy to study drugs and drug excipients—and the interactions of the two. Here, she discusses the various avenues of her research, including crystallization and drug-rich nanodroplets. <http://bit.ly/1w6bwHq>

The Charles Mann Award: Richard Van Duyne on Fundamental Research and Practical Applications of TERS and SERS Surface-enhanced Raman spectroscopy (SERS) enhances the Raman signal using molecules adsorbed on rough metal surfaces. This interview with 2014 Charles Mann Award winner Richard P. Van Duyne of Northwestern University discusses his group’s work with tip-enhanced Raman spectroscopy, single-molecule SERS, a SERS system for glucose analysis, and SERS as a method for analyzing colorants in artworks. <http://bit.ly/U5uGRu>

COBLENTZ LINKEDIN GROUP

If you have not already joined, we encourage all members to join the Coblenz 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 Coblenz-sponsored awards and encourage members to submit items for the Newsletter. We hope to see you online!

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

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. Coblenz 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 Coblenz Society’s website (www.coblenz.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, Karen Esmonde-White and Katherine Cilwa

BOMEM–MICHELSON AWARD

This award is dedicated to the memory of Professor A.E. Michelson, developer of the Michelson interferometer. ABB sponsors the award to honor scientists who have advanced the technique(s) of vibrational, molecular, Raman, or electronic spectroscopy. Contributions may be theoretical, experimental, or both. The recipient must be actively working and may be associated with the academic, industrial, government, or private sector. The awardee must be at least 37 years of age. The award consists of a crystal symbol of the Bomem–Michelson award and an honorarium. In order to ensure that the award is based on an independent evaluation of the candidate’s achievements, the selection is made by a committee chosen by the Coblenz Society. The 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: 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), Joel Harris (2012), and Brooks Pate (2013). Yukihiro Ozaki is the 2014 awardee.

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

COBLENTZ AWARD

The Coblenz Award is normally presented annually to an outstanding young molecular spectroscopist under the age of 40. The new age requirement for the Coblenz Award is that a candidate must be under the age of 40 on January 1 of the year of the award.

Previous recipients of this award: John Overend (1964), William Fateley/Robert Snyder (1965), Edwin Becker (1966), Peter Krueger (1967), Jon Hogen (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), Mounqi 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), Nathalie Picqué (2013) and Peng Cheng (2014) are the most recent awardees.

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

COBLENTZ STUDENT AWARD

The Coblenz Society has for many years encouraged young scientists to pursue studies in spectroscopy by seeking nominations of outstanding students for the Coblenz 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, Prof. 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 Coblenz 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 Coblenz web site at: www.coblenz.org/awards/coblenz-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, 2014. 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), Rohit Bhargava (2013), and Lynne Taylor (2014). The award carries a \$1,000 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 is also 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 Coblenz web site at: www.coblenz.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 Coblenz Society and the Society for Applied Spectroscopy. Winners of the Coblenz 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 \$1,000 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 was Tomasz Wrobel.

Detailed nomination instructions including deadlines are available on the Coblenz web site at: www.coblenz.org/awards/william-g-fateley-student-award. Note that the Fateley Student awardee is selected from the top three candidates who receive the Coblenz Student Awards, requiring that the students be nominated for the Coblenz 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 Coblenz 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 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 1 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 renominated with an updated file or the file will be closed. Nominations for the Ellis R. Lippincott Award are accepted from January 1 through October 1, 2014.

Previous recipients include: Richard G. Lord (1976), Lionel Belamy (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), Sanford 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), Keith Nelson (2012) Xiaoliang (Sunney) Xie (2013).

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), John Coates (2013). The 2014 awardee is Mike Doyle.

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

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
JPMorgan 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 Coblenz web site (<http://www.coblenz.org/payments>). We also welcome suggestions for Honorary memberships in the Society.

Board Meeting. The Coblenz Society Board of Managers will hold its semi-annual meeting at the 2015 Pittcon conference. Please consult the Coblenz 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, Coblenz Society President (see address at end of newsletter), prior to the conference.

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