EDITOR'S COMMENTS

With the Society’s Fall 2018 election, we have leadership changes to announce. We thank Richard Crocombe and Mary Tecklenburg for their four years of service on the Board of Managers. We additionally thank Richard for his leadership of the Finance Committee during this time. We are now pleased to welcome Nancy Jestel (SABIC) and Peter Larkin (Cytec Industries) to the Board—congratulations! Luisa Profeta was also elected to a second term as the Society’s secretary. Thank you, Luisa, for continuing to serve in this role. Additionally, we are pleased to announce that Ellen Miseo has been elected by the Board of Managers to follow in Brandye Smith-Goettler’s footsteps as our new President-Elect. Ellen will take over the leadership of the Society in October of this year.

As announced in our last issues, the newsletter needs a new editor or editors. If you have an interest in writing about Society events, or cajoling others into service, please contact the Society’s office. It’s a great way to help the Society and add some writing credits to your CV. In addition to seeking volunteers for our Newsletter, we ask anyone with interest in supporting the Society through volunteer work please contact Mark Druy (mark.druy@coblentz.org). You can help with our website management, serve on award committees, organize a local Society event, or make your own suggestions.

Mary Carabba

PRESIDENT’S MESSAGE

Dear Esteemed Coblentz Society Members,

On behalf of the Coblentz Society, I hope this message finds you well and successful in your vibrational spectroscopy endeavors. Let me begin by extending a sincere thank you for your service to the Coblentz Society. Through your membership and service, we can bestow prestigious awards to students, academics, and industrialists, organize quality and representative spectroscopy-focused sessions at conferences, provide networking opportunities, and deliver resources for the advancement of vibrational spectroscopy.

The activities of the Coblentz Society in the second half of 2018 included, but are not limited to the following: In partnership with the Society of Applied Spectroscopy, we hosted a successful speed mentoring session at SciX. Furthermore, at SciX, the Coblentz Student Awards and the William G. Fateley Award were presented and we held our annual members’ meeting that included an excellent breakfast. I would like to pause to congratulate our award winners, to acknowledge Curt Marcott, our Coblentz SciX Program chairperson, and to thank our Coblentz Society members that organized vibrational spectroscopy sessions, assisted with the speed mentoring, and helped with our booth. At the Eastern Analytical Symposium (EAS), we organized four sessions and held a well-attended and lively members’ reception. Additionally, we have elected new board members and officers.

I am pleased to welcome Nancy Jestel and Peter Larkin to the governing board, to thank Luisa Profeta for her past service and upcoming service as Secretary, and to thank Ellen Miseo for her acceptance of the nomination of President and to congratulate her on being elected by the governing board. Ellen has begun her role as President-Elect and will transition to President at the Society’s governing board meeting at the SciX conference in the fall of 2019. I am delighted to have such great and enthusiastic scientists leading the future of our Society.

I would like to thank Mary Tecklenburg and Richard Crocombe for their tremendous service as Coblentz governing board members. I am sad to see their terms end, but I am confident that they will continue to drive the Society’s objectives. I want to recognize and thank Ellen Miseo and Fred Haibach for their “Spectroscopists Helping Spectroscopists” efforts. What a thoughtful and beneficial program!

Lastly, I would like to note that your suggestions of how to better the Society are always welcomed. You matter to the Society and I encourage you to get involved to determine the direction of our organization, to encourage the visibility, recognition, and community of quality vibrational spectroscopy, and lastly, to have fun! Please let me know if you are interested in volunteering for the Society.

Mary Carabba, Office Manager

COBLENZ MEMBERSHIP REPORT

Good news! Our paid membership (at the time of this writing) stands at 443 scientists. This is up 67 from January 2018! In addition to the “recurring” renewal option we introduced last year on our website, the Society now offers a “Lifetime” membership. Welcome to our new lifetime members Luisa Profeta, Xiaoyun (Shawn) Chen, Edul Chikhliwala, and Steven Skorich. Thank you for your commitment to your Society.

Of course, you can still pay your dues through the Society for Applied Spectroscopy (SAS). Renewals made through SAS should show up in your Coblentz account within one month. Anyone wishing to...
join the Society as a new member may do so by submitting an application at the Coblentz website (www.coblentz.org/Membership), selecting the Coblentz Society when completing your SAS application, or by contacting the Society office (mary.carraabba@coblenztz.org). As always, we welcome suggestions for honorary memberships in the Society from all members.

**TREASURER’S REPORT**

Ian R. Lewis

The Society’s financial position remains strong. We have a ladder of CDs valued at $120,000 (with yields from 2.00 to 2.75%), which mature over a 30-month period, as well as holding approximately $22,000 in our bank accounts. The investment account includes mutual funds as well as the CD with the breakdown at the end of December approximately $600,000 in the mutual funds and $120,000 in CDs. The total value of the CDs and the maturity dates were chosen so that the Society could operate for two to three years without needing to tap into our mutual funds (providing some immunity from stock market decline during that time) and assuming no income (so a very conservative approach). In January, the investments have seen their value decline during that time) and assuming no income (so a very conservative approach). In January, the investments have seen their value decline during that time.

As we look into the future over a 30-month period, as well as holding approximately $22,000 in our bank accounts. The investment account includes mutual funds (providing some immunity from stock market decline during that time) and assuming no income (so a very conservative approach). In January, the investments have seen their value decline during that time) and assuming no income (so a very conservative approach).

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### 2018 Finances

<table>
<thead>
<tr>
<th>Expenses</th>
<th>2018 Budget (in dollars)</th>
<th>2018 Actual (in dollars)</th>
<th>2019 Budget (in dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Awards</td>
<td>11,375</td>
<td>6,946</td>
<td>21,040</td>
</tr>
<tr>
<td>Pittcon</td>
<td>950</td>
<td>127</td>
<td>350</td>
</tr>
<tr>
<td>ISMS (including reception)</td>
<td>950</td>
<td>500</td>
<td>750</td>
</tr>
<tr>
<td>SciX (including membership breakfast)</td>
<td>4,200</td>
<td>1,846</td>
<td>2,950</td>
</tr>
<tr>
<td>EAS (including reception)</td>
<td>2,650</td>
<td>2,397</td>
<td>3,000</td>
</tr>
<tr>
<td>ICTRVS, IR Courses, Spring SciX</td>
<td>6,250</td>
<td>750</td>
<td>5,250</td>
</tr>
<tr>
<td>New booth merchandise (shirts, etc.)</td>
<td>300</td>
<td>2,228</td>
<td>300</td>
</tr>
<tr>
<td>Educational Committee activities</td>
<td>400</td>
<td>0</td>
<td>400</td>
</tr>
<tr>
<td>General operating expenses (taxes, legal fees, insurance, office management, registrations, shipping, etc.)</td>
<td>17,150</td>
<td>14,689</td>
<td>19,014</td>
</tr>
<tr>
<td><strong>Total expenses</strong></td>
<td>44,725</td>
<td>29,641</td>
<td>52,904</td>
</tr>
<tr>
<td><strong>Income</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Member dues</td>
<td>7,000</td>
<td>8,853</td>
<td>7,000</td>
</tr>
<tr>
<td>Book sales and IR collection revenue</td>
<td>5,200</td>
<td>5,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Sponsors and donations</td>
<td>200</td>
<td>2,333</td>
<td>2,500</td>
</tr>
<tr>
<td>Merchandise sales</td>
<td>600</td>
<td>787</td>
<td>600</td>
</tr>
<tr>
<td>FACSS/SciX Dispersal Fund</td>
<td>426</td>
<td>426</td>
<td>0</td>
</tr>
<tr>
<td>Conference support (Pittcon and EAS)</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Anticipated endowment disbursement</td>
<td>8,920</td>
<td>5,097</td>
<td>5,000</td>
</tr>
<tr>
<td>Misc.</td>
<td>100</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td>25,076</td>
<td>27,226</td>
<td>26,225</td>
</tr>
<tr>
<td><strong>Budget Total</strong></td>
<td>(19,649)</td>
<td>(2,540)</td>
<td>(27,079)</td>
</tr>
</tbody>
</table>

In the attached table you can see that the Society approximately broke even for the year with a loss of $2,540 versus a budgeted loss of almost $20,000. The budget for 2019 is also negative to the tune of $27,000. This loss is driven by the Board approving an increase in the award expenses to maintain them at a competitive level as well as creating some travel awards for young scientists and scientists requiring support to conferences based on family obligations (to help defray the cost of child-care, etc.), an increase in funds set-aside to support conferences who are aligned with the Society’s purpose, and an increase in operating expenses. Given the strong financial position of the Society, the Board is prepared to operate the Society at a loss for several years (if necessary) to promote the Society’s purpose.

On behalf of the Finance Committee I would like to acknowledge the contribution of Richard Crocombe as chair of the committee. Richard was instrumental in promoting the idea of taking some of our stock market “winning” off the table. His term on the board has now concluded and thus his term on the finance committee. We wish Richard well as he moves to the Executive Committee of SAS as President-elect.

In closing, let me on behalf of the Society, thank those members and organizations that have chosen to make donations to the Society (and thus its purpose) in the last calendar year. I ask each of you to consider donating to the Society in 2019 to allow us to continue to provide high-quality scientific opportunities in the future.

### 2018 SciX Activities

#### Student Awards

For many years, the Society has encouraged young scientists to pursue studies in spectroscopy by seeking nominations of outstanding students for the Coblentz Student Awards. The awardees receive a Desk Book, a certificate, and a year-long membership in the Society. In 2018, the Society was pleased to recognize three students as part of the annual Coblentz student awards. Two of the three students attended SciX and were recognized during the Sunday night poster session and conference opener supported by SAS and FACSS; one was unable to attend.

**Kajari Bera** is currently a third-year graduate student working in Dr. Renee Frontiera’s group at the University of Minnesota. She received her master’s degree in chemistry from IISER Bhopal, India, and the University of Minnesota, USA. Her current research includes understanding the fundamentals of charge transfer processes using the ultrafast vibrational spectroscopic technique called femtosecond stimulated Raman spectroscopy (FSRS).

**Santosh Paidi** is a doctoral student in the Department of Mechanical Engineering at Johns Hopkins University. His current research efforts in Dr. Ishan Barman’s lab are directed towards application of Raman spectroscopy and multivariate data analysis to develop novel quantitative approaches for addressing unmet needs in the molecular study of cancers.
In addition to receiving a Coblentz Student Award, Courtney Olson was recognized as this year’s recipient of the William G. Fateley Award. Courtney received her B.S. in chemistry from Ohio Northern University (ONU) in 2014. During the summer before starting graduate school at the University of Minnesota, Courtney started her graduate research with Dr. Aaron Massari, where she was trained in two-dimensional infrared (2D-IR) spectroscopy. Courtney earned her M.S. in December 2015, while also becoming a Ph.D. candidate. During her first few years of thesis work in Dr. Massari’s group, she studied the silicon hydride mode in small molecule silanes using 2D-IR spectroscopy to see if different substituents imparted different sensitivity to solvatochromism and/or spectral diffusion. She then continued to use the silicon hydride mode as a probe in a new system, polydimethylsiloxane, in hopes of seeing differences in the ultrafast structural dynamics of the polymer by inducing physical and chemical changes like swelling, compression, cross-link density, etc. She has published seven peer-reviewed papers, being first author on two of them, and has earned several awards and fellowships, including a National Science Foundation Graduate Research Fellowship (NSF-GRFP) and the Overend Award for Graduate Research in Physical Chemistry.

Other than performing research, Courtney also volunteers and participates in outreach. She volunteers for the Energy and U show as a fire safety volunteer, where the show helps students in grades three through six get excited about science and engineering. Since the summer of 2015, Courtney has participated in the yearly outreach program, University on the Prairie, where she is one of the science outreach instructors. This program immerses middle and high school students from rural portions of Minnesota in hands-on activities to show them what they can do with a science education.

SPEED MENTORING EVENT AT SciX18!

Once again, the Coblentz Society held our annual Speed Mentoring session—one of our most popular member services. It is a fun, fast-paced session that enables a structured interaction with spectroscopists from various industries, academia, and government labs that enable early career members to get an understanding of what it’s like to work in those areas. These interactions can be the basis of an ongoing mentoring relationship if that is of interest, a wonderful networking opportunity for job hunting, or just getting a better understanding of life as a spectroscopist. It’s also a great opportunity for mentors to share their work experiences with the next generation of spectroscopists. This year’s session proved so popular that we had a shortage of mentors. The session will continue again at SciX 2019 during the Monday lunch time slot and, for the first time, at EAS. We look forward to seeing you at one of the 2019 Speed Mentoring Events!
ANNUAL MEMBERSHIP MEETING BREAKFAST

The AMM was held on Monday morning at SciX. Eighteen dedicated members attended this event in which a review of the Society’s business and standing was held. Mark Druy, past-president, stood in for President Brandye Smith-Goettler who was unable to attend.

The Society solicits ideas from the membership for an alternative time/event to serve as the AMM at SciX 2019. Ideas can be sent to the Society officers or the Society Office Manager, contact details as listed at the end of the Newsletter.

Honorary Membership Award

Past-president and current Treasurer of the Coblentz Society, Ian R. Lewis, was presented with Honorary Membership in the Society at SciX 2018. Ian obtained his degree in Chemistry and Chemical Technology in 1989 and his Ph.D. in 1992. He was appointed Honorary Visiting Researcher at the University of Bradford (UK) in 1992 and moved to the University of Idaho to work with Professor Peter Griffiths in 1993. In 1996, he joined Kaiser Optical Systems as a Laser Spectroscopy Specialist where he is currently Director of Marketing and Product Management. He lives in Michigan with his wife Dr. Mary L. Lewis and their children. Recognition of his achievements includes the 2008 Charles Mann Award in Analytical Raman Spectroscopy from FACSS, a Fellows Award from the Society for Applied Spectroscopy in 2011, and a Fellows Award from the Royal Society of Chemistry in 2017. He also received the Society for Applied Spectroscopy’s Distinguished Service Award at the 2018 SciX Conference.

Ian was elected to the Board of Managers of the Coblentz Society in 2004 and served from 2004 through 2008; from March 2009 to March 2011 he served as President. During his time on the Board and as President, he worked to improve relationships between the Coblentz Society and other organizations, solidified and expanded the Coblentz Society’s involvement in conferences to meet the Coblentz Society’s mission of “promoting the understanding and application of vibration spectroscopy,” helped form both the Craver and Fateley Awards, authorized the development of (and participated in editing) a new Coblentz Society website, conducted a review of finances, managed development of funding sources in order to produce a balanced budget, promoted the process of using social media and partnerships to publicize the Society’s activities and awards, wrote the Coblentz Society’s first President’s Guide, and restarted the Coblentz Society’s “Honorary Membership” award program. He currently serves the Society as its Treasurer.

Based on his work for this Society, his expertise and contributions to the field of Raman spectroscopy, his work with the Society’s affiliate the Society for Applied Spectroscopy, with FACSS, and with the Society’s National Meeting, SciX presented by FACSS, Dr. Ian Lewis was selected for the award of Honorary Member.

EASTERN ANALYTICAL SYMPOSIUM 2018 REVIEW

Contributed by Brandye Smith-Goettler

2018 was an exciting year for EAS with the theme being “Analytical Solutions to the World’s Problems.” EAS serves scientists in the analytical and allied sciences via an annual meeting consisting of technical papers, short courses, workshops, an exposition, and other activities. EAS is able to accomplish this with a dedicated team of volunteers, exhibitors, generous corporate sponsors, and committed sponsoring organizations. The support of the Coblentz Society contributes to EAS by having scientifically relevant vibrational spectroscopy focused sessions and networking opportunities. The Coblentz Society organized four sessions to serve our objective of fostering the understanding and application of vibrational spectroscopy.

One session was titled “Spectroscopy Hits the Clinic” with the following talks: “Surgical Engineering Enables Intravital Imaging of Mechanisms of Metastasis in Primary and Secondary Sites”, given by David Entenberg of the Einstein College of Medicine, “Chemical Imaging with a Quantum Cascade Laser for Rapid Cancer Assessment” given by Rohit Bhargava of the University of Illinois at Urbana-Champaign; “Diagnostic Optics” given by Rohit Reddy of the University of Houston, and “Noninvasive In-Vivo Peripheral Vascular Spectrometry: And the Beat Goes On”, by Joseph Chai-ken of Syracuse University.

For those on the move, we had a session entitled “Analytical Chemistry on the Go: Handheld Spectroscopy Applications.” Mustapha Hajjou from United States Pharmacopeia gave a talk titled “Use of Handheld Spectrometers as Screening Tools for Detection of Substandard and Falsified Medicines, Perceptions and Reality”; Katherine A. Bakeev from B&W Tek gave a talk entitled “Food Safety Screening with Surface Enhanced Raman Spectroscopy: Ensuring Safe Food Reaches Consumers”; Sulaf Assi from Bournemouth University gave a talk entitled “Use of Handheld Raman and Near-Infrared Spectroscopic Techniques for Identifying Counterfeit Lifestyle and Life-Saving Medicines”; and Alexander Scheeline from SpectroClick Inc. gave a talk entitled “Handheld Visible Spectrometry: the Promise and the Limitations.”

A session titled “Enhancement Strategies in Raman and Infrared Spectroscopy” included the following talks: “Directional Raman Scattering: A Tool for Measuring Adsorption and Chemical Content at Smooth Interfaces”, by Emily A. Smith of Iowa State University; “Surface Enhanced Raman Spectroscopy for Food Safety Applications”, by Lili He from the University of Massachusetts–Amherst; “Pharmaceutical Case Studies Using Transmission Raman”, by Julia Griffen of Agilent Technologies; and “What are the Physical Limits to Field Amplification and Intensity Enhancement in Surface Enhanced Raman Spectroscopy?” by Stefan Franzen of North Carolina State University.

Finally, we had a session entitled “Enabling Real Time Release Testing with Process Analytical Technology (PAT)” with Justin Pritchard of Vertex; “RTRT as the Final Piece of a Comprehensive Control Strategy in Continuous Manufacturing”, by Gary McGeorge.

All the sessions were well attended, which was expected given our fantastic speakers. A tremendous thanks to Jim Rydzak, Billy Blincoe, Ellen Miseo, David Trimble, and HORIBA Scientific for their help with the Coblentz Society booth. Thanks again to Jim Rydzak for organizing a lively reception for our members, as is our tradition on Monday evening of the conference, with excellent food/drinks and fantastic networking conversations.

LONG-TIME COBLENZ MEMBER, DAVID TRIMBLE, STAFFS THE SOCIETY BOOTH AT EAS 2018.

PI TT CON 2019 PREVIEW

Tuesday afternoon, March 19th in Room 124. The Coblentz Society will present the 2019 Williams–Wright Award for Industrial Spectroscopy to Professor Dr. Wolfgang Petrich of the Roche Diabetes Care GmbH, Mannheim, Germany, and Heidelberg University in recognition of his work in the development and application of biomedical applications of infrared-based clinical laboratory instrumentation in the fields of metabolism, rheumatology, cardiology, and veterinary medicine as well as pioneering applications of quantum cascade laser (QCL) technology to biology and medicine.

There is a technical session planned in conjunction with the award presentation:

1:30 – 1:35 Introductory Remarks – Ellen Miseo
1:35 – 1:40 Presentation of the 2019 Coblentz Society’s Williams-Wright Award to Wolfgang Petrich, Roche Diabetes Care GmbH and Heidelberg University, by Ellen Miseo
1:40 – 2:15 Biomedical Vibrational Spectroscopy, Wolfgang Petrich, Roche Diabetes Care GmbH and Heidelberg University
2:15 – 2:50 Quantum Cascade Laser-Based Infrared Microspectroscopy with Wide-Field Setups, Niels Kroeger-Lui, Bruker
2:50 – 3:25 Fast High-Definition Infrared Microscopy for All-Digital Molecular Histopathology, Rohit Bhargava, University of Illinois at Urbana-Champaign, and Shachi Mittal and Kevin Yeh

3:25 – 3:40 Recess
3:40 – 4:15 What Lies Beneath? II: Raman Molecular Analysis of Buried Lesions for Clinical Diagnosis and Monitoring, Nick Stone, University of Exeter
4:15 – 4:50 Novel Image-Guided Fiber Probe for Clinical Applications of Spontaneous Raman Spectroscopy, Anita Mahadevan-Jansen, Vanderbilt University, Kelly Bennett, Emad Elsamadicy, Laura Masson, J Michael Newton, and Christine O’Brien

2019 COBLENZ AWARD

The Coblentz Award is presented annually to an outstanding young molecular spectroscopist under the age of 40. This award is the Society’s original award (first awarded in 1964) and comprises an honorarium, a plaque with a prism from the periscope of a World War II Navy submarine, and a travel allowance. The Society is pleased to announce that the 2019 Coblentz Award will be presented to Dr. Aleksandra Foltynowicz, Associate Professor and Wallenberg Academy Fellow, Department of Physics, Umeå University, Sweden at the International Symposium on Molecular Spectroscopy (ISMS) in June 2019.

COBLENZ LINKEDIN GROUP

If you have not already joined, the Society encourages you to join us in the Coblentz LinkedIn group! It is a lively, useful tool where members can share professional news and articles of interest, ask questions, or post jobs. We currently have 594 members and growing! We ask that all LinkedIn group members maintain active membership in the Society, so if you are in the group and have lapsed please renew! We hope to see you online at: http://www.linkedin.com/groups?gid=1831157.

CALL FOR AWARD NOMINATIONS

The Williams–Wright Award is presented to an industrial spectroscopist who has made significant contributions to vibrational spectroscopy while working in industry. Government labs are not considered industry in this definition. The Awardee must still be working at the time the award is presented. Nominations will be accepted until May 1.

The Coblentz Award is presented annually to an outstanding young molecular spectroscopist under the age of 40 (as of January 1 of the year of the award). Nominations will be accepted until October 30.

The Craver Award recognizes young spectroscopists for efforts in applied analytical vibrational spectroscopy. Candidates must be under the age of 45 on January 1 of the year of the award. Nominations will be accepted until October 1.

The Lippincott Award honors Dr. Ellis R. 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 Coblentz Society, the Optical Society of America, and SAS. Nominations will be accepted until October 1.

Coblentz and William G. Fateley Student Awards are awarded to graduate or undergraduate students who have shown excellence in vibrational spectroscopy research and/or coursework. The three leading graduate students selected by the award committee will also qualify for consideration for the William G. Fateley Student Award. Nominations will be accepted November 1 – February 15.
Honorary Membership. The Coblentz Society awards honorary memberships to those who have made outstanding contributions to the field of vibrational spectroscopy or any other field related to the purposes of the Society. Nominations close on February 1.

Additional information regarding nomination eligibility, requirements, procedures, and past awardees can be found at http://www.coblentz.org/awards.

Member Business Suggestions and Requests
The Society’s Board of Managers hosts Board meetings via teleconference regularly throughout the year. Any article of business that you want the Board to consider must be sent to Brandye Smith-Goettler, Coblentz Society President, prior to meetings.

Coblentz Society Officers

President
Brandy Smith-Goettler
(brandyemichelle_smithgoettler@merck.com)

President-Elect
Ellen Miseo
(ellen.miseo@gmail.com)

Secretary
Luisa Profeta
(lprofeta@fieldforensics.com)

Treasurer
Ian R. Lewis (ian.Lewis@kosi.endress.com)

Newsletter Editor
Vacant (accepting nominations)

Office Manager
Mary W. Carrabba
(mary.carrabba@coblentz.org)

Coblentz Society Board

Term expires October 2019
Katherine Cilwa and David Tuschel
(kcilwa@gmail.com; dtuschel@gmail.com)

Term expires October 2020
Xiaoyun (Shawn) Chen and Rohith Reddy
(XChen4@dow.com; rkreddy@central.uh.edu)

Term expires October 2021
Fred Haibach and Zachary Schultz
(fhaibach@confluentscience.com; schultz.133@osu.edu)

Term expires October 2022
Nancy Jestel and Peter Larkin
(nancy.jestel@gmail.com; larkin.peter.j@gmail.com)