

## NEWSLETTER

No. 149

A Society for Applied Spectroscopy Affiliate  
Editor: David A. Heaps

August 2009

## EDITOR'S COMMENTS

You are invited to contribute articles and comments for those items or events that you wish to broadcast. The next due date for newsletter submissions is November 1st for the February issue. When there is news you would like to get out to the membership this summer or fall, please drop me a note. Regardless of the number of contributions we will always be printing the events and progress of the Society so you can keep in touch with the Board Members and Officers. Be sure to look for the printed Coblentz Society Newsletter in every February and August issue of *Applied Spectroscopy*.

DAVID A. HEAPS

## President's Message

Hello and here is the news from Ann Arbor; at the time of writing it's been three months since Pittcon and the summer has officially started. Here is a brief update on the Coblentz Society's activities during the first half of 2009 and a look ahead for the rest of the year.

**Awards:** One of the Society's primary missions is to support the vibrational spectroscopy community through the sponsorship of several awards for outstanding achievements. These include the Coblentz Award, presented at the Ohio State Symposium, the Craver Award, presented at FACSS, the Williams–Wright and Bomem–Michelson Awards, presented at Pittcon, and the Lippincott Award. In addition, young student scientists are recognized via the Coblentz Student Awards, which are given annually.

The Bomem–Michelson Award is sponsored by ABB and dedicated to the memory of Professor A. A. Michelson, developer of the Michelson interferometer. Bomem sponsors the award to honor scientists who have advanced the technique(s) of vibrational, molecular, Raman, or electronic spectroscopy. This year at Pittcon, the Bomem–Michelson Award was presented to Professor Martin Quack of the Swiss Federal Institute of Technology (ETH) Zürich.

Professor Quack presented the first lecture in the

Wednesday morning session, entitled “Spectroscopy and Theory of the Dynamics of Parity Violation in Chiral Molecules”. Four invited speakers followed this lecture:

- Laurence Nafie: VCD as a Probe of Long-Range Chirality and Supramolecular Structure: From Protein Fibrils to Negative Index Materials
- Timothy Zwier: Laser Spectroscopy and Dynamics of Conformational, Structure, and Diastereometric Isomers
- Roberto Marquardt: Dynamic Molecular Chirality
- Robert Berger: Theoretical Spectroscopy and Fundamental Interactions in Chiral Molecules

The Coblentz Award was recently presented to Dr. Benjamin McCall of the University of Illinois at the 64th Ohio State University International Symposium on Molecular Spectroscopy.

The Craver Award recognizes young professional vibrational spectroscopists for their efforts in the area of *applied* vibrational spectroscopy. This year's Craver Award recipient is Professor Takeshi Hasegawa of the



The Williams–Wright Award Winner with speakers. Top row: Richard Crocombe, Mark Druy, Neil Lewis, and Steve Lowry. Bottom row: Howard Mark, Jerome J. Workman (Award Winner), Barry Lavine, and Emil Ciurczak.

Tokyo Institute of Technology. This award will be presented at the 2009 FACSS Conference in Louisville, Kentucky this October.

Professor Hasegawa will present a plenary lecture on Thursday morning entitled "Multiple-Angle Incidence Resolution Spectrometry: Development and Practical Applications", and a separate award session of invited speakers will follow on Thursday afternoon. Speakers will include:

- James A. de Haseth: FT-NIR Spectrometry in Flax Fiber Analysis
- Tamitake Itoh: Correlated Measurements among Surface-enhanced Raman Scattering (SERS), Plasmon Resonance, and Silver Nanostructures for Demonstration of SERS Electromagnetic Theory
- Masatoshi Osawa: Theoretical Study of Surface-Enhanced Infrared Absorption
- Peter R. Griffiths: Surface-Enhanced Vibrational Spectroscopy on Metal Nanoparticles

The Lippincott Award, cosponsored by the Coblenz Society, the Society for Applied Spectroscopy, and the Optical Society of America, will be presented this fall at OSA's annual meeting in October to Professor Michael Fayer of Stanford University.

The Williams–Wright Award is awarded annually at Pittcon to an industrial spectroscopist who has made significant contributions to vibrational spectroscopy while working in industry. This year, the Williams–Wright Award was presented to Dr. Jerome J. Workman.

Dr. Workman was presented with the 2009 Williams–Wright award at the start of the Wednesday afternoon session and then gave a lecture entitled "The Most Serious Challenges Associated with the Next Generation of Multivariate Spectrometers". Seven invited speakers followed this lecture:

- Barry Lavine: Pattern Recognition Assisted Infrared Library Searching
- Howard Mark: Chemometric Calibration Without Matrices
- Neil Lewis: A Novel Instrumental Approach Combining Simultaneous Morphological and Raman Spectroscopic Measurements: Applications to the Characterization of Complex Materials
- Richard Crocombe: Portable Spectrometers: Challenges and Opportunities
- Mark Druy: Compact TDLAS Sensors for In situ and Non-Contact Standoff Gas Sensing in Harsh Environments
- Steve Lowry: An Evaluation of SERS Substrates for Automated Raman Analysis
- Emil Ciurczak: Near-Infrared in the 21st Century Pharmaceutical Industry

**Student Awards:** Each year the Student awards committee reviews nominations for the Coblenz Student Awards. The award comprises a copy of the Coblenz

Deskbook of Infrared Spectra and a certificate. In 2009 the following nine students were selected to receive these awards.

- Allen Ricks, UGA, Ph.D. expected 2010, advisor: Michael Duncan
- Arindam Ganguly, UMKC, Ph.D. expected 2009, advisor: J. Durig
- Bhavya Sharma, Pittsburgh, Ph.D. 2009, advisor: Sandy Asher
- Christina Young, Ga. Tech., Ph.D. expected 2009, advisor: Boris Mizaikoff
- Christopher Addison, UBC, Ph.D. expected 2009 or 2010, advisor: Michael Blades
- Kyle Mantz, U. MN, Ph.D. expected 2011, advisor: Christy Haynes
- Rosina Lombardi, Syracuse, Ph.D. expected 2009, advisor: Laurence Nafie
- Sean Roberts, MIT, Ph.D. expected 2009, advisor: Andrei Tokmakoff
- Sudhir Dahal, Towson, BS expected 2009, advisor: Boon Loo (nom. By Nordulf Debye).

From these nine students, the committee selected Sean Roberts as the outstanding candidate for 2009 and Sean will receive travel support to attend the FACSS conference to present a paper on his work and receive his award.

**Annual Membership Meeting:** The Society's annual membership meeting followed the Williams–Wright Award symposium. Then-President Mary Carrabba gave an outline of many of the activities of the Society during the preceding twelve months. This meeting was followed by the Society's annual reception, which was well attended.

At the meeting both Mark Druy and Richard Larsen were thanked for their contribution to the Board of Managers. Both Mark and Richard rotated off the Board after serving their four-year term.

Membership for Society stands at 563 with 883 in our database.

Financially, the Society has seen a net loss in assets from \$344,983.68 on Jan 1st 2008 to \$252,272.10 on April 1st 2009. Since April 1st, some of that loss has been made back. However, in view of this loss and in view of the Society being a non-profit organization, I ask that those members considering making charitable donations in 2009 consider donating to the Society. Contact Andy Sommer (sommeraj@muohio.edu), the Society's current Treasurer, for more information or with donations.

**The Society Enters the Electronic Age:** As Mary announced last year, Mark Druy has taken on the role as the Society's Membership Chair and this year we have all experienced the changes he has implemented. Last year, the Society's Board of Managers approved a transition from paper to electronic communications as the primary mode of communication for Society business. During Mark's first year of tenure he has compiled a comprehensive membership list, which allowed us to communicate electronically



Mary Carrabba giving a gift to Ian Lewis as thanks for taking over the responsibilities of Coblenz Society President.

with our membership via Constant Contact. This year has seen several communications from the Society and we have conducted our first electronic ballot.

If you're not receiving electronic communications from us, please contact Mark to update your contact information.

**Membership Renewal Options:** Currently the Society offers three ways for membership renewal: renewal at shows where the Society has a booth (Pittcon, Ohio State Molecular Symposium, FACSS, and EAS), by checking Coblenz renewal when renewing your SAS membership, and finally, directly via communication between a member and the membership secretary.

If you have questions on your membership status, please contact Mark directly.

**Board of Managers:** I am pleased to announce that Linda Kidder and Brandye Smith-Goettler have been elected for the term 2009–2013. Linda and Brandye join Brian Marquardt, Michael Myrick, Scott Little, Clara Craver, Gloria Story, and Rohit Bhargava on the Board. Our next Board election will be held via an electronic process prior to Pittcon in 2010. For those of you who may not know, both Linda and Brandye have already contributed significantly to the Society and our membership by working with the organizational and program teams at both FACSS and EAS. Linda is currently organizing the Molecular program for the FACSS 2009 meeting in Louisville and the EAS meeting in Somerset. Brandye is coordinating Workshops for FACSS and liaising between the Society and the respective conference Governing Boards.

**Presidential Transition:** Every two years at the Society's annual meeting, an official Presidential transition occurs. At Pittcon this year, Mary Carrabba stepped down as President. I want to thank Mary for her service to the Society formally as a Board Member and most recently as President. Mary brought a lot of energy to the position and I am grateful that she will be continuing to

work with the Board in the future in an advisory capacity. Thank you Mary.

**Looking ahead to the rest of the year the upcoming Society activities include:**

- (1) Sponsoring and organizing eleven ½-day sessions at the FACSS conference through the efforts of Linda Kidder. Titles and session organizers are listed below.
  - Rohit Bhargava: MIR Imaging
  - Gloria Story: MIR Imaging: ATR and More
  - Hung Tian, May Hua: NIR Spectroscopy/Imaging in Pharma
  - Clay Harris: NIR Spectroscopy in Academia
  - Sergei Kazarian: Vibrational Spectroscopy and Imaging of Pharmaceuticals
  - Wei Zhao: 2D Coherent Spectroscopy I
  - Wei Zhao: 2D Coherent Spectroscopy II
  - Wei Zhao: 2D Coherent Spectroscopy III
  - Bob Messerschmidt: Practical Mid-Infrared Spectroscopy for the Real World: A symposium in honor of the late Paul A. Wilks, Jr., I
  - Bob Messerschmidt: Practical Mid-Infrared Spectroscopy for the Real World: A symposium in honor of the late Paul A. Wilks, Jr., II
  - Bonner Denton: Advanced Portable Instrumentation: Taking the Lab to the Sample
  - Amid Salari: Chirality
- (2) Organizing the molecular spectroscopic program at the EAS conference, including organizing two Coblenz sponsored ½-day sessions again through the efforts of Linda Kidder.
  - Gary McGeorge: QbD in Spectroscopic Analysis
  - Ian R. Lewis: Raman in the Lab and at the Line
- (3) The Society plans to hold a reception for members at the EAS conference. Brandye Smith-Goettler will organize this event again.
- (4) The Society's various volunteer committees will continue to organize the Society's professional awards (Williams–Wright, Craver, and Coblenz award) and assist in the administration of the Bomem–Michelson and Lippincott awards. Over the next six months, nominations for many of these awards close, the selection process is accomplished, and the conference sessions organized.
- (5) The Society, through the lead of Dave Schiering—our long-standing secretary—has set up a Coblenz group as part of the LinkedIn web site ([www.linkedin.com](http://www.linkedin.com)). Dave manages the LinkedIn site for the present and we will be focusing a significant amount of Society information on the site over the coming months. For those unfamiliar with LinkedIn:
  - LinkedIn registration is free
  - Members can post discussions
  - Members can get contact information for other members
  - Members will be able to ask questions of others as part of the "Ask an Expert" campaign that we plan

to start later in 2009. The “Ask an Expert” initiative is aimed at allowing vibrational spectroscopists who are in small teams at work, or who are younger scientists, to have access to extra knowledge to aid them in solving their vibrational spectroscopic problems and perhaps connect with a mentor who can help them grow in their chosen career. I have already “signed up” several experts to join the team.

In concluding, I would like to thank all of our members for their continuing support of the Society, including those who have contributed financially in excess of their annual dues and those who have contributed by volunteering many hours of your time. I am grateful for all your support.

IAN R. LEWIS  
PRESIDENT

### CALL FOR NOMINATIONS FOR THE COBLENTZ SOCIETY'S AWARDS

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

**COBLENTZ AWARD.** The Coblenz Award is presented annually to an outstanding young molecular spectroscopist under the age of 36. The candidate must be under the age of 36 on January 1 of the year of the award. Previous recipients of this award are: John Overend (1964), William Fateley/Robert Snyder (1965), Edwin Becker (1966), Peter Krueger (1967), Jon Hougen (1968), James Durig (1969), Guiseppi Zerbi (1970), Clive Perry (1971), George Leroi (1972), C. Bradley Moore (1973), C.K.N. Patel (1974), Bernard J. Bulkin (1975), Geoffrey Ozin/George Thomas, Jr. (1976), Peter Griffiths (1977), Lester Andrews (1978), Lionel Carreira (1979), Richard Van Duyne (1980), Laurence Nafie (1981), Christopher Patterson (1982), Dave Cameron (1983), Steve Leone (1984), John Rabolt/Graham Fleming (1985), Joel Harris (1986), Alan Champion (1987), Keith Nelson (1988), Geri Richmond (1989), Hai-Lung Dai (1990), Paul Bohn (1991), Tom Rizzo (1992), Peter Felker (1993), Paul Alivisatos (1994), David J. Rakestraw (1995), Xiaoliang Sunney Xie (1996), Mounji Bawendi (1997), Pat Treado (1998), Brooks Pate (1999), Martin Gruebele (2000), Stacey Bent (2001), Andrei Tokmakoff (2002), Andrea Callegari (2003), Sergey Nizkorodov (2005), Michael Strano (2006), Martin Zanni (2007), and Xiaowei Zhuang (2008).

The award carries with it an honorarium plus a travel allowance. Files of candidates will be kept active until the date of age eligibility is exceeded. Annual updates of files of candidates are encouraged.

Nominations, which should include a detailed description of the nominee's accomplishments, a curriculum vitae, and as many supporting letters as possible, must be submitted to the award chairman [Dr. André Sommer,

Department of Chemistry and Biochemistry, Miami University, Oxford, OH 45056; phone (513)-529-2874; fax (513) 529-7284; e-mail [sommeraj@muohio.edu](mailto:sommeraj@muohio.edu)] on or before September 1st.

**WILLIAMS-WRIGHT AWARD.** This award is presented annually at the Pittsburgh Conference to an industrial spectroscopist who has made significant contributions to vibrational spectroscopy while working in industry. The work may include infrared and/or Raman spectroscopy and instrumental development, as well as theory and applications of vibrational spectroscopy. Government labs are not considered industry in this definition. No restrictions are placed on the selection of the awardee because of age, sex, or nationality, but the awardee must still be working at the time the award is presented. The nominating document should clearly state the significance of the contribution made by the nominee, e.g., the introduction of novel methods, techniques, or theories; innovative work in the field of vibrational spectroscopy; significant improvement on existing methods, theory, or techniques; or important impact on the field of vibrational spectroscopy arising from the volume of contributions in a specific area. The nomination should include a resume of the nominee's career and highlight accomplishments and any publications and talks. Seconding letters to the nomination are useful, but not necessary. Files on nominees will be kept active for three years, after which the candidate must either be renominated with an updated file or the file will be closed.

Previous recipients of the Williams-Wright Award are: Norman Wright (1978), Norman Colthup (1979), Jeanette Grasselli (1980), Paul Wilks/James Harrick (1981), Robert Hannah (1982), Harry Willis (1983), Robert Jakobsen (1984), Clara D. Craver/Richard A. Nyquist (1985), Abe Savitzky/Joseph J. Barret (1986), A. Lee Smith (1987), Darwin L. Wood (1988), D. Bruce Chase (1989), John F. Rabolt (1990), Robert J. Obremski (1991), Timothy Harris (1992), Curtis Marcott (1993), John M. Chalmers (1994), Michael R. Philpott (1995), Bob Messerschmidt (1996), Michael J. Pelletier (1997), Henry Buijs (1998), Don Kuehl (1999), John Reffner (2000), Raul Curbelo (2001), Isao Noda (2002), Neil Everall (2003), Neil Lewis (2004), Fran Adar (2005), Harry Owen (2006), Michael Carrabba (2007), Rina Dukor (2008), and Jerome Workman (2009).

This award includes an honorarium plus a travel allowance to defray travel expenses to the Pittsburgh Conference. Nominations should be sent to the Chairman of the Williams-Wright Award Selection Committee [Dr. Brian C. Smith, Spectros Associates, 175 North St. Shrewsbury, MA 01545, (508) 845-9712, [bcsmith@spectros1.com](mailto:bcsmith@spectros1.com)] before May 1st. Nominations collected after May 1st will be considered for the next year.

**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



The Bomem–Michelson Award Winner Martin Quack (right) and Henry Buijs (left) of ABB Analytical.

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 presentation will be made at the Pittsburgh Conference.

Previous recipients of the Bomem–Michelson Award are: Thomas G. Spiro (1987), Carl Linberger (1988), Richard J. Saykally (1989), William Klemperer (1990), Alan Pine (1991), Jyrki Kauppinen (1992), Jack L. Koenig (1993), Herbert L. Strauss (1994), Terry Miller (1995), Ira Levin (1996), William H. Woodruff (1997), Bruce Chase (1998), Sandy Asher (1999), John F. Rabolt (2000), Larry Nafie (2001), Dan Neumark (2002), Peter Griffiths (2003), Dave Haaland (2004), Paul Bohn (2005), Robert W. Field (2006), David Bocian (2007), Geraldine Richmond (2008), and Martin Quack (2009).

The nomination should include a resume of the candidates' career as well as the special research achievements that make the candidate an eligible nominee for the ABB sponsored Bomem–Michelson Award. Files on nominees will be kept active for three years, after which the candidate must be renominated with an updated file or the file will be closed. The nominating letter and supporting letters should be sent to the Chairman of the Bomem–Michelson Award Selection Committee [Dr. Richard Crocombe, Thermo Fisher Scientific, 900 Middlesex Turnpike, Building 8 Billerica, MA 01821 USA Phone: (978) 670-7460, ex. 610, richard.crocombe@thermofisher.com].

Nominations closed May 1st for consideration for

2010. Nominations collected after May 1st will be considered for the 2011 award.

**ELLIS R. LIPPINCOTT AWARD.** The purpose of the Ellis R. Lippincott Award is to honor Dr. Lippincott's memory by the recognition of significant contributions and notable achievements in the field of vibrational spectroscopy. The Coblenz Society, the Optical Society of America, and the Society for Applied Spectroscopy sponsor the medal jointly. 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 they are 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.

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

Nominations should contain the name and affiliation of the nominee and sufficient background information to justify the nomination. A nominator is expected to believe sufficiently strongly in the quality of the work of his or her candidate to provide evidence for that belief. No restriction is placed on who may nominate, and all nominations received by the committee prior to October 1 in any given year will be considered for the award to be presented in the following year. Files on nominees are kept active for three years, after which the candidate must be renominated with an updated file or the file will be closed. Nominations should be submitted to: Chairman, Lippincott Award Selection Committee, c/o Optical Society of America, 2010 Massachusetts Ave., N.W.,

Washington, D.C. 20036; phone (202) 416-1420; fax (202) 416-6134.

**CLARA CRAVER AWARD.** The Craver Award is presented annually to an outstanding young molecular spectroscopist whose efforts are in the area of applied analytical vibrational spectroscopy. The candidate must be under the age of 45 on January 1st of the year of the award. The 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 background.

Previous recipients of the award are: Katherine Bakeev (2007), John Conboy (2008) and Takeshi Hasegawa (2009).

The award carries with it an honorarium, a plaque, and a 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 to the assembled FACSS Conference, 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.

Nominations must include a detailed description of the nominee's accomplishments, a curriculum vita or resume, and a minimum of three supporting letters. Nominations should be submitted to the Chairman of the Craver Award Selection Committee [Dr. Scott C. Little, Focal Point International, 6350 Pheasant Lane, Verona, WI 53593, (608) 845-7955, scott\_little@charter.net]. Nominations close on July 31st.

## SOCIETY ANNOUNCEMENTS

**Membership.** Anyone wishing to join the Society may do so by sending \$20 to Dr. Mark Druy, Coblentz Society Membership Chairman, Physical Sciences, Inc., 20 New England Business Center, Andover, MA 01810.

**Board Meeting.** The Coblentz Society Board will hold its semi-annual meeting the week of October 18th at FACSS in Louisville, Kentucky. Any article of business that you want the Board members to consider needs to be sent in writing to Ian Lewis, Coblentz Society President, or David Schiering, Coblentz Society Secretary (see address at end of newsletter), prior to the conference.

**Board Members.** Two new board members are elected by the Society each year. Please send nominations for the term 2010–2014 to Coblentz Society President Ian Lewis (see address at end of newsletter) by September 1st.

**Honorary Members.** The Society is awarding honorary memberships in the Society to people who have made outstanding contributions to the field of Spectroscopy. Send your nomination for 2010 to Ian Lewis, Coblentz Society President (see address at end of newsletter) prior to September 1st.

## COBLENTZ SOCIETY BOARD

<u>Name</u>	<u>Term Expires</u>	<u>Telephone</u>
Brian J. Marquardt University of Washington – APL Applied Physics Laboratory Seattle, WA 98195 marquardt@apl.washington.edu	2010	(206)543-6054
Michael L. Myrick University of South Carolina Department of Chemistry 631 Sumter St Columbia, SC 29208 myrick@mail.chem.sc.edu	2010	(803)777-5264
Clara Craver 500 Park Blvd South #72 Venice, FL 34285	2011	(941)485-8210
Scott C. Little Focal Point International 6350 Pheasant Lane Verona, WI 53593 scott_little@charter.net	2011	(608)845-7955
Gloria Story Procter & Gamble Company Miami Valley Labs 11810 E. Miami River Road Cincinnati, OH 45252 story.gm@pg.com	2012	(513)627-2840
Rohit Bhargava Micro and Nanotechnology Laboratory and Beckman Institute for Advanced Science and Technology University of Illinois at Urbana-Champaign 405 N. Mathews Ave. Urbana, IL 61801 rxb@uiuc.edu	2012	(217)265-6596
Brandye Smith-Goettler Merck and Co., Inc. WP78–110 PO Box 4 West Point, PA 19486-0004 brandyemichelle_smithgoettler@ merk.com	2013	(215)652-5487
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