

The SAS Spectrum Newsletter

The Newsletter of the Society for Applied Spectroscopy



April 2010

**SAS NEWS FROM PITTCON FEBRUARY 28 – MARCH 5 AT
THE ORANGE COUNTY CONVENTION CENTER, ORLANDO, FL**



nano IR™

Nanoscale IR Spectroscopy:
Breaking the Diffraction Limit

Register for Free
Online Webinar

SAS Events at Pittcon

As usual, there were a variety of SAS activities at Pittcon, this year held in Orlando at the Orange County Convention Center, from February 28 – March 5. The Sunday evening poster session on February 28 included an SAS student poster event. Eleven student posters were presented.



CONTENTS	Page
SAS Events at Pittcon	1
SAS Technical Sessions at Pittcon	3
Coblentz Society Awards	5
Piedmont Section SAS Travel Award	6-7
SAS Reports	8-35
President	8
Secretary	8
Treasurer	14
Executive Director	15
Journal Editors	16
Website Status	20
Membership Coordinator	24
Advertising	27
Committees	29-34

An SAS student social event was held on the evening of Monday, March 1 at Howl at the Moon. More than 50 students attended for an evening of food and entertainment.



SAS Technical Sessions at Pittcon

SAS presented two technical sessions held in the afternoon on Wednesday, March 3.

Paul Farnsworth organized **“Atomic Spectroscopy: Where the Rubber Meets the Road”** (Society for Applied Spectroscopy). Presenters included John Olesik, Jeffrey Jarrett, Michael Winchester, Detlef Gunther, and Ralph Sturgeon.

Presenter	Affiliation	Presentation Title
John W. Olesik	Ohio State University	Challenges to Accurately Measure PPM to PPT Concentrations in Complex Samples Using ICP-OES or ICP-MS: What Challenges? Isn't it Easy?
Jeffrey M. Jarrett	CDC	Analytical Issues in Elemental Analysis for Biomonitoring
Michael R. Winchester	NIST	Achieving Extraordinary Accuracy and Precision Using 'Off-the-Shelf' Atomic Spectroscopy Instrumentation
Detlef Gunther	ETH	The Consequence of Vapour or/and Particle Formation in Laser Ablation-ICP-MS
Ralph Sturgeon	National Research Council Canada	Photochemical Vapor Generation for Enhanced Sample Introduction Efficiency



SAS Atomic Spectroscopy Symposium Presenters and Organizer (left to right):
Ralph Sturgeon, John Olesik, Paul Farnsworth, Detlef Gunther, Jeffrey Jarrett, and Michael Winchester

Larry Nafie organized **“The 21st Century Renaissance of Vibrational Spectroscopy: New Methods Solving Critical Problems in Today’s Technology.”** Presenters included Peter Griffiths, Max Diem, Rina Dukor, Pavel Matousek, and Lawrence Ziegler.

Presenter	Affiliation	Presentation Title
Peter Griffiths	University of Idaho	Vibrational Spectroscopy Today: A Renaissance in Progress
Max Diem	Northeastern University	Vibrational Spectroscopy in Biomedical Imaging: Spectral Cytology and Spectral Pathology
Rina Dukor	BioTools, Inc.	Vibrational Spectroscopy in the Pharmaceutical and Biopharmaceutical Industries: Structure Determination with and without Chirality
Pavel Matousek	Rutherford Appleton Laboratory	Deep Raman Spectroscopy of Diffusely Scattering Media – Emerging Concepts and Applications
Lawrence Ziegler	Boston University	Barcoding Bacteria by Surface Enhanced Raman Microscopy



SAS Vibrational Spectroscopy Symposium Presenters and Organizer (left to right): Peter Griffiths, Lawrence Ziegler, Larry Nafie, Rina Dukor, Pavel Matousek, and Max Diem

Coblentz Society Award Presentations at Pittcon 2010

Richard Van Duyne received the 2010 Bomen-Michelson Award from the Coblentz Society



Richard P. Van Duyne, the Charles E. and Emma H. Morrison Professor of Chemistry at Northwestern University, received the 2010 Bomen-Michelson Award from the Coblentz Society on Tuesday, March 2. The award, dedicated to the memory of A.E. Michelson and sponsored by ABB, is presented annually to honor scientists who have advanced the techniques of vibrational, molecular, Raman, or electronic spectroscopy. Professor Van Duyne is being recognized for the discovery of surface-enhanced Raman spectroscopy (SERS) and his many contributions to the fundamental science and application of SERS.

Professor Van Duyne is widely known for the 1977 discovery of surface-enhanced Raman spectroscopy (SERS). The quest to understand SERS at a fundamental level resulted in Professor Van Duyne's invention of nanosphere lithography (NSL) to fabricate structurally and optically well-defined SERS-active surfaces. NSL led in turn to the development of ultrasensitive nanosensors based on localized surface plasmon resonance spectroscopy and the field of molecular plasmonics. Most recently, Van Duyne developed the isotopologue proof of single molecule SERS that has put this field on a more sound scientific footing. His research interests include all forms of surface-enhanced spectroscopy, nanofabrication, molecular plasmonics, tip-enhanced Raman spectroscopy (TERS), ultrahigh vacuum TERS, Raman spectroscopy of mass-selected clusters, ultrahigh vacuum surface science, structure and function of biomolecules on surfaces, surface-enhanced spectroscopic methods for chemical and biological sensing, and application of SERS to problems in art conservation science.

Van Duyne received his BS degree from Rensselaer Polytechnic Institute (1967) and a PhD degree in analytical chemistry from the University of North Carolina (1971). He has won numerous awards, including the ACS Award in Analytical Chemistry, the Ellis R. Lippincott Award (2008), the National Science Foundation Creativity Extension Award (2007), L'Oreal Art and Science of Color Prize (2006), ACS Nobel Laureate Signature Award for Graduate Education (2005), the American Physical Society Earle K. Plyler Prize for Molecular Spectroscopy (1996), the Pittsburgh Spectroscopy Award (1991), the Coblentz Society Memorial Prize in Molecular Spectroscopy (1980), and an Alfred P. Sloan Fellowship (1974). He is a member of the American Academy of Arts and Sciences and a fellow of the American Physical Society and the American Association for the Advancement of Science.

Patrick Treado received the 2010 Williams Wright Award from the Coblenz Society



Patrick J. Treado, PhD, Founder and Chief Technology Officer of ChemImage Corporation, Pittsburgh, PA, received the 2010 Williams Wright Award from the Coblenz Society for his development of molecular imaging instrumentation and software. Dr. Treado is an analytical spectroscopist with years of experience in the chemical imaging field, where he is a recognized leader. Work with Professor Morris during his doctoral studies led to the development of novel image multiplex measurements. Work with Dr. Levin at NIH pioneered many developments in instrumentation for spectrochemical imaging, especially with novel focal plane arrays and wide area tunable filters. Dr. Treado's research interests involve the development of IR, Raman and fluorescence chemical imaging and its application to materials analysis, clinical diagnostics, process monitoring, and threat detection. Dr. Treado has consulted and lectured widely and is the author of over 150 publications and

patents on chemical imaging technology, methodology and applications. Dr. Treado contributes to standards development and has led the development of a Standard Practice for Evaluating the Performance of Raman Imaging Instruments through ASTM E13.10. Dr. Treado also serves as Chair of AOAC International Methods Committee L on Biological Threat Agents, which evaluates official methods for detection of *Bacillus anthracis* (BA) and other biothreat agents.

Dr. Treado received his BS at Georgetown University and his PhD at the University of Michigan with Professor Michael Morris. After a postdoctoral fellowship at the National Institutes of Health with Dr. Ira Levin, Treado joined the Department of Chemistry at the University of Pittsburgh. After only three years, he founded Chemicon, the company that became ChemImage. Dr. Treado is the recipient of several prestigious awards, including the 1998 Coblenz Award, a 2001 R&D 100 Award for the ChemImage FALCON Raman Chemical Imaging Microscope, the 1993 Meggers Award, and the 1995 Meggers Award.

Piedmont Section SAS Travel Awards

Piedmont Section SAS Travel Awards are available to SAS Student Members in the Piedmont Section to present their research at the SAS National Meeting, FACSS (<http://facss.org>). Oral and poster presentations are eligible; students must be the presenting author. In order to be eligible for a travel award, the student and research director must both be members of the Piedmont Section of the Society for Applied Spectroscopy. Membership application materials are available on the web at <http://www.s-a-s.org/renewal-application.htm>, or by contacting the SAS Office at 301-694-8122, Fax 301-694-6860, Postal address: 5320 Spectrum Drive, Suite C, Frederick, MD 21703, email: office@s-a-s.org. Travel awards are limited to \$250, only one student per research director will be supported, and the university must be located within the Piedmont Section. The Piedmont Section includes the following states: Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, and Tennessee. Eligible expenses include student conference registration, student travel, student accommodation, and student meals. Receipts are required for all expenses.

Applications consist of (1) the completed application form (below), (2) a copy of the abstract, (3) a letter of acceptance of the paper from FACSS, and (4) a letter of support from the student's research director. Applications are due on September 3, 2010. The entire application must be submitted electronically to Professor David Butcher at butcher@email.wcu.edu.

Sincerely,

David J. Butcher, Chair
Piedmont Section of the Society for Applied Spectroscopy
butcher@email.wcu.edu

Piedmont Section SAS Student Travel Award Application

Student Name: _____

Student Email Address: _____

Student University: _____

Student Mailing Address: _____

City: _____ State: _____ Zip: _____

Student Phone: _____

Student Honors or Awards: _____

Grade Point Average: _____

Statement of Career Goals: _____

Both you and your research director must be members of the Piedmont Section of the Society for Applied Spectroscopy to apply for a travel award. If you are not members, please contact SAS at any of the addresses above regarding membership.

Research Director Name: _____

Research Director Email Address: _____

Research Director Phone: _____

SAS Reports

President's Report

Fred LaPlant

Pittsburgh Conference, Orlando, March 2010

It is with great pleasure that I take on the responsibilities as President of the SAS for 2010. The number of opportunities to expand both the size and visibility of the Society are greater than ever before, due principally to the persistence and unflagging efforts of the various committee members. Special mention must be made of the work of Jim de Haseth, who took over responsibility for developing the new website as past-president and has seen the project through to completion. At the core of the Society, the Journal remains as strong as ever because of the seamless transition to Peter Griffiths, and his ongoing commitment to scientific excellence. The increasing student activities and addition of student sections over the past year have been outstanding, due to the efforts of David Heaps, former student representative Michelle Meighan, and current representative John-David McElderry. I also personally thank past-President Jon Carnahan for his model of leadership and equanimity which I can only hope to equal. With Curt Marcott as President-elect and the addition of new members to our already exceptional committees, the Society clearly has a very solid foundation for future success.

Part of developing that future is the creation and implementation of long-term strategies that are integral to maintaining focus in the Society. Although each president is involved in the governance of the society for 3 years, there isn't necessarily a continuity of strategy or message that flows from year to year. John Chalmers helped re-establish the Long-Term Planning Committee, and Jon Carnahan is continuing his efforts to ensure that a re-energized LTPC will help set consistent policies promoting growth of the Society. An important component must be coordinating with each committee to set specific goals, and then implementing a course of action will lead to completion of those goals. Besides the meetings at Pittcon and FACSS, I anticipate that I will be having scheduled meetings with the committees throughout the year to help maintain continued activity on these initiatives, whether they be increased conference attendance, member retention, or enhancing the value proposition of the Society to its members.

One of the most fundamental of these value propositions is forming connections between members. The form of this connection varies with the individual: vendors need to advertise new instruments and capabilities, while practitioners need to understand which instruments can best solve their problems; researchers need outlets to promote their results, while students need outlets to promote themselves. We have the perfect platform to serve all of these needs; because the Society is a widely respected and reputable organization, we provide a more trusted outlet than anything on the internet or in the general press. And because our members are dedicated to a spectroscopy-

Secretary's Report

February, 2010

EXECUTIVE COMMITTEE MEETING Minutes

SATURDAY, OCTOBER 17, 2009

LOUISVILLE, KENTUCKY

BUSINESS MEETING SATURDAY, OCTOBER 17, THOROUGHbred ROOM

I. Call To Order Jon Carnahan at 3:30 p.m.

II. Introductions/Announcements Jon Carnahan

III. Roll Call Tim Keiderling

President – Jon Carnahan - present
Past President - John Chalmers - present
President Elect – Fred LaPlant - present
Treasurer - Paul Bourassa - present
Secretary - Tim Keiderling - present
Newsletter Editor - David Butcher – present
Local and Technical Section Affairs Coordinator - David Heaps - present
Membership Coordinator - Gloria Story - present
Web Editor - Steve Bialkowski – not present
Journal Editor in Chief - Peter Griffiths – present
Student Representative - Michelle Meighan - present
Parliamentarian – Diane Parry – present
Executive Director - Bonnie Saylor - present

Others Present:

Mike Blades - Journal Editor
Curt Marcott – new President elect
Katherine Bakeev - Secretary elect
John-David McElderry – New student representative elect
Stephanie Iocco – new office manager
Victor Hutcherson – Administrative Affairs
A quorum was present.

IV. Approval of Minutes from March 8, 2009 Executive Committee meeting
Approval moved Paul and seconded Fred, Approved

V. Executive Committee Reports

- A. President Attached
- B. Secretary Attached (minutes)
- C. Treasurer Attached
- D. Executive Director Attached

Membership numbers are reported, while down, the decrease is not significant overall, although new memberships are less and a potential for concern. Subscriptions are down, but income is up due to price increase.

E. Journal Editor Attached

Peter made comments recognizing the very strong job that Joel Harris, Paul Farnsworth and Jenny Jensen had been doing. He has brought in an assistant, LeNelle McInturff, with extensive experience to replace Jenny, with he and Mike Blades covering the Editorial side. The big problem now is referee identification. The Journal has become international, more papers from outside North America now, but quality is quite uneven as well as the refereeing. This is a challenge both linguistically and from a journal quality point of view. The editorial board will discuss this at more length during FACSS.

Another question arose related to impact factor of the Journal and its slow growth as derived from the citation index. The role of Impact Factor and its importance in making editorial decisions was discussed at some length. The problem for Applied Spectroscopy stems from a significant fraction of papers now being published which have zero citations. Their common characteristics and possible editorial approaches to effect a change were explored and will be taken up by the Editorial Board.

Issues regarding the Copy Editor position for the journal were also discussed.

F. Newsletter Editor Attached

Six issues were published, and advertising is now being incorporated into the newsletter.

G. Web Editor Attached

No changes in 2009, but independent efforts continue to bring a revised Web Site on line.

H. Membership Coordinator Attached

I. Student Representative Attached

Approval moved Paul and seconded Fred, Approved

VI. National SAS Committee Reports

A. Awards Attached

Larissa Finn and Arindam Ganguly won the 2009 Graduate Student Awards

(?) The Cleveland Section was named winner of the 2009 Poehlman Award

B. Constitution and Bylaws Attached

C. Local and Technical Section Affairs Attached

D. Nominating Attached

E. Publications Attached

F. Publicity Attached

G. Tour Speaker Attached

H. Meggers Award Attached

Meggers award to Yongri Liang, Damien Mauran, Robert E. Prud'Homme, Christian Pellerin, "A new method for the time resolved analysis of structure and orientation: Polarization modulation infrared structural absorbance spectroscopy" 62, 941-947 (2008)

I. Strock Award No Report

J. Lippincott Award No Report

K. Tellers Attached

Curt Marcott, elected President Elect, and Katherin Bakeev elected Secretary

L. Fellows Attached

M. Long Range Planning No Report

Approval moved Paul and seconded John, Approved

VII. Delegate Reports

A. FACSS Attached

B. Chemical Heritage Report Attached

Approval moved Paul and seconded Fred, Approved

VIII. Unfinished Business

A. FACSS Site Selection - Jim Ryzdak, guest presentation

Many sites have been identified, and he is seeking to reduce the number to five so that he might begin to refine the list. Rotation sequence for FACSS is roughly East, Midwest, West and wild card, although the order is violated at various times. Now scheduled are: 2010 - East, Rayleigh; 2011 West, Reno, 2012 -Midwest, Kansas City. Discussion topics included extensive consideration of using Galveston in a hookup with the Gulf Coast Conference to build attendance and broaden the base. Comparison of numbers was discussed, since that conference has considerably lower fees. The FACSS Governing Board will do the winnowing at FACSS this week, but will not a vote on a site.

Some other areas not on the original list were also discussed, with the idea of emphasizing various areas with large SAS presence, and active local sections. These would include the Chicago area and New England, both of which are being now excluded due to cost problems. Given the list form FACSS, the SAS Exec Comm favored Charleston, Rayleigh, Milwaukee, Virginia Beach, Galveston, and suburban Washington DC (Milwaukee was inserted as a less expensive alternative to Chicago, yet within commuting distance, Washington as a new alternative on East Coast closer to larger membership areas,

costs were unknown for both). These names will be used for further consideration and evaluation as to detailed costs.

The poster session structure was discussed. This year exhibits are down, but program is up. There are 400 orals, and 150 posters. It seems exhibits compressed to 3 days works well, but there are not good statistics on how it is working. At FACSS the staff sent with the exhibit can take advantage of tech program, which is different from Pittcon where they are more locked to the show.

The FACSS conference fee seems high to the SAS Board, particularly the academics with students, but it offers many more things than “cheaper” meetings, particularly the mandatory payment for the “networking session” and food at opening and poster sessions. It is felt that the attendees view these extras as important for stimulating interactions/networking. This should be tested by survey.

D. Society News Editor - All

Debbie Bradshaw is interested in stepping down after a very long time, but there is no deadline at the present time, and was left as an open question for future resolution.

E. Web Page/Web Editor - All

Steve Bialkowski is not planning to continue as Web editor, but is serving in the interim as the old site is maintained. A new Web site is still planned for ease in implementing updates, and its structure and design will change the detailed requirements of the Web Editor position. Discussion continued after report from Jim deHaseth.

F. SAS Day at FACSS Gloria Story

The Current event at FACSS is the Day at the Races, for which 96 people signed up. Based on reaction to this event, which was positive, we are planning for a comparable event at the FACSS meeting 2010 at Raleigh. Options presented were Rush Hour Karting or a visit to Chatham Hill Winery, both involving food and opportunity for networking. Discussion of merits of various events was done. Sentiment favored karting due to the variety of activities presented.

G. Poster Session at PITTCAN All

Joel Harris got approval for a PITTCAN Sunday evening poster session under the SAS logo. It is approved and already getting submissions, and we need to raise awareness of this session. Abstracts are being accepting until Jan. 2010. We will send out an e-mail to students and advisors announcing the session and inviting added submissions. This poster session will also have a competition component, like we currently have at FACSS.

H. Symposia at PITTCAN All

Pittcon has invited us to organize an invited symposium again in 2010 and 2011. We need an organizer for getting a proposal for a vibrational and atomic session to Pittcon requesting their support. Peter suggests speakers be invited/ strongly encouraged to write focal point article. Peter Griffiths suggest for the molecular spectra : microspectroscopy through the spectral region, UV, nearIR, IR, Thz, etc.(Peter volunteer). Typically have 5 speakers in a session, limit of 1 outside North America, with a completely new slate of speakers preferred. Discussion was made about shifting form techniques to topic oriented session that fit SAS interest. Options discussed were: nanochemistry, environmental, biomedical, pharmaceutical. Suggestions of names were floated.

I. FACSS Input for Board Meetings Ian Lewis

Working Dinner/Unfinished Business Continued

Postponed issues

Web Site Discussion – Jim de Haseth

Jim de Haseth presented a summary of the new Website development. The current SAS site is static, and needs an editor to update. The new site will be dynamic, its pages will be updated with relatively simple commands by allowed editors, and all other pages with the same information should then be updated with this one input. Editing will be based on a data base and content management will

of each page by designated people in the Society who are designated to control specific parts of the whole site. Error checking will be incorporated. The whole membership database will be on the site, and will be password protected for each member to update his/her own data. A web store will be included for membership dues payment and purchases of other items on line. Accounting will also be included. Historical data will be maintained.

Before Pittcon we contracted Roger Design (Big Nerd Ranch Consulting), but contact eventually broke down due to personnel change when the company reorganized the team. Finally Juan Pablo Claude was hired, a chemist and who likes programming, and works on this Site development part time. This new site uses software called Django. Some redesign was necessary but the biggest problem turned out to be the data base. Work to date has been focused on infrastructure and not on content. The structure can contain rolling sponsor IDs and ads on various pages. Each page with topic will be edited by the users of that page, for example the Journal or Membership, etc. by the Editor or chairs of those committees. Advertising and content can be modified and updated.

It will be possible to upload old pdf files for our historical consistency, like newsletters. All the fonts will be standard. We will host Journal pages eventually, especially for downloading. A big change will be to add pictures, to give the society a human face. Need yet to add Web Store and move to a commercial site so various members can update. Jim is open to receiving suggestions for the site, at dehaseth@lightlightsolutions.com. A problem exists in transferring data from the current site to a new one to make it comparable to what we have now. A great advantage is that if

We do not like the site, we can change very easily and it is done instantly, virtually over all the site that has connected information. Similarly all material can be updated regularly by ordinary members/committee chairs.

Returning to the issue of a Web Editor, we probably do not need a computer expert for this position in the future, but do need an overseer to watch content for consistency and appropriateness. Also the person needs to be proactive and push the various groups to provide content. Names are being discussed.

Ed McMillian brought up the value of having an e-news letter with advertising, using spectroscopy oriented news.

Paul moved and Fred seconded that we nominate candidates for the position of Web Editor and hold an electronic election among the Governing Board to have a new Web Editor in place by January 1, 2010. approved

C. Applied Spec Ad Updates Ed MacMillan

Reported that 2009 was an interesting year. Some companies cancelled contracts early in year. Yet several companies are having good sales year. In the end 2009 looks to be 30% over last year.

The future is hard to predict. We need to think about moving more advertising to the Web, since that is the direction companies are taking these days. Ed remains cautiously optimistic that we can maintain level advertising revenue.

B. FACSS Input for Board Meetings Ian Lewis

Ian asked to get open discussion from broader base on the structure of the FACSS meeting. Discussion of using the same site or a variation of cities was discussed in terms of the overall rotation. Surveys show about 30% attendees are new, suggesting that 70% would go to next one, basically this can be seen as 1/3 attendees are new or local (attending irregularly) and 2/3 are regular attendees.

Timing was discussed, FACSS needs care to avoid religious holidays and can be affected by the turnover of fiscal year, plus it must avoid overlap with EAS.

IX. New Business

A. Fellows Award Bonnie Saylor

There was a confusion in awardees due to names that are similar among various spectroscopists. The issue has been discussed and resolved, with some embarrassment to the SAS. Future awards will be more carefully identified by affiliation.

A suggestion was made to establish a separate Fellows section for industry. There was little support for this, and a recognition that industrial spectroscopists are equally eligible.

Fred moved TAK seconded that the Fellows nominating committee try to be sure to consider candidates from industry and government as well as academia. 4yes, 1 abstain

B. Budget Review and Approval Paul Bourassa

Paul discussed changes in the budget (attached).

Fred move, TAK second that we recommend this budget to the governing board. Passed unanimously.

C. Fellows Award Approval All

List of nominees was approved, John moved, Fred seconded and approved, 4 yes, 1 abstention (inelligible)

D. FACSS Site Selection Vote All

This was informal recommendation to consider a short list of cities for 2013, see above.

E. New site for society office for SAS – Bonnie

The current lease is up and the neighborhood has changed negatively. A new site has been identified in Frederick, which has benefits. Proposal was made which has a comparable price, especially in the out years. There will be more space, and better facilities, with greatly improved habitability.

Jon moved TAK second, approval of move of offices be recommended to the Governing Board. Approved unanimously

F. International year of chemistry –

The question was raised if we want to do anything with regard to this from SAS.

Paul moved, Fred second to move to the Membership committee. Pass unanimously

G. Long range planning – John

The question was raised if we want a formal committee for Long Range Planning? If it were active, it would need to meet face to face at FACSS or Pittcon. Discussion met no conclusion.

H. David Heaps – Technical and Regional Sections Report

Student sections moving, but several seem to be on the fence. David asked for support in finding these sections, questions raised on how it is doing. Michelle reported that her unit takes advantage of free money, if we used these experiences of initial students section to promote new ones, it could help.

Experiment of using Facebook for networking has failed. People want to keep personal and work separate. Linkedin could be an alternative, and have subgroups for students.

X. Adjourn

Approval moved Paul and seconded John, Approved

Treasurer's Report

Pittsburgh Conference

Orlando, March 2010

Society for Applied Spectroscopy, Inc.

Statement of Activities - Actual vs Budget (Summary)

January through December 2009

Page 1

	Jan - Dec 09	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
4230 · Focal Point Book	22.00	300.00	(278.00)	7.3%
4300 · Member Dues	123,123.65	119,000.00	4,123.65	103.5%
4500 · Journal Income	794,543.36	665,000.00	129,543.36	119.5%
4800 · Chapter Income	0.00	500.00	(500.00)	0.0%
4830 · General Contributions	6,640.00	4,500.00	2,140.00	147.6%
4850 · Investment Revenue	1,389.66	28,000.00	(26,610.34)	5.0%
4900 · Misc. Income	2,361.00	2,000.00	361.00	118.1%
Total Income	928,079.67	819,300.00	108,779.67	113.3%
Expense				
6000 · Salaries	196,229.71	161,000.00	35,229.71	121.9%
6040 · Payroll Taxes	5,622.89	12,000.00	3,622.89	130.2%
6060 · Personnel Benefits	2,387.63	2,000.00	387.63	119.4%
6100 · Executive Comm	37,214.30	38,000.00	(785.70)	97.9%
6150 · Governing Board	1,840.07	1,300.00	540.07	141.5%
6170 · Membership Comm	926.93	1,000.00	(73.07)	92.7%
6180 · Member Education Comm	40.00			
6190 · Other Committees	1,394.95	1,000.00	394.95	139.5%
6200 · Journal	410,768.64	420,000.00	(9,231.36)	97.8%
6300 · Newsletter	1,000.00	1,000.00	0.00	100.0%
6330 · Internet Services	16,707.10	15,000.00	1,707.10	111.4%
6400 · Member Services	26,228.46	15,000.00	11,228.46	174.9%
6600 · Awards / Grants	27,095.88	25,000.00	2,095.88	108.4%
6650 · Sections	13,239.64	15,000.00	(1,760.36)	88.3%
6700 · Conferences	6,299.48	8,000.00	(1,700.52)	78.7%
6730 · Member				
Acquistion/Retension	2,786.00	15,000.00	(12,214.00)	18.6%
6800 · Society Office	75,840.32	90,000.00	(14,159.68)	84.3%
7000 · Financing Expenses	4,687.47	5,000.00	(312.53)	93.7%
7200 · Depreciation	3,349.00	5,000.00	(1,651.00)	67.0%
Total Expense	843,658.47	830,300.00	13,358.47	101.6%
Net Ordinary Income	84,421.20	(11,000.00)	95,421.20	(767.5)%

Other Income/Expense

Other Expense

9900 · Chapter Distribution

Add-Back	(1,438.02)	(12,500.00)	11,061.98	11.5%
Total Other Expense	(1,438.02)	(12,500.00)	11,061.98	11.5%
Net Other Income	1,438.02	12,500.00	(11,061.98)	11.5%
Net Income	85,859.22	1,500.00	84,359.22	5,723.9%

Executive Director's Report

February 2010

Bonnie Saylor

Membership

Final 2009 Numbers: 1,777

Membership Breakdown USA 1,543 International 234

Total New Members for 2009 200 Total Student Members 246

Total Not Renewed for 2009 297

Registered for Online Journal 587

Total Enrolled in a Regional Section 1073 Total Enrolled in a Technical Section 810

Total Paid for Extra Section 204

Total Joined Online Only 255 Online Only USA 192 International 63

Current 2010 Numbers: 979

Membership Breakdown USA 858 International 121

Total New Members for 2010 18 Total Student Members 157

Total Joined Online Only 163 Online Only USA 132 International 31

Registered for Online Journal 319

Total Enrolled in a Regional Section 655 Total Enrolled in a Technical Section 377

Total Paid for Extra Section 107

Subscriptions

Final 2009 Numbers 837

Subscriber Breakdown USA 531 International 306

Registered for Online Journal 629

OSA 2009 Numbers 435 USA 187 International 248

Current 2010 Numbers

2010 627

Subscriber Breakdown USA 117 International 510

OSA 2010 311 USA 150 International 161

Members and Subscribers

Membership was down slightly this year by 14 members. Our current year numbers are slightly lower than the same time last year however we just sent out second notices so these numbers should pick up.

Our subscriber numbers in 2009 were down 76 over 2008 numbers. Despite this decline, our subscriber income did not decrease significantly because of the increase in the subscription prices that we implemented.

Finances

Our audit is scheduled for the week of March 29th.

Member Event at FACSS

We are all set for our event at Rush Hour Karting.

Final Word

The office officially moved in December and went well. Kudos to Stephanie Iocco for her hard work in finding our new home and organizing the move. She did yeoman's work and went above and beyond in making the move happen. We love the new place and have already had our first visit from Curt Marcott and his wife!

Report to the SAS Executive Committee

Peter R. Griffiths and Michael W. Blades, Journal Editors

January 29, 2010

Applied Spectroscopy has run smoothly since the last Governing Board meeting in October, 2009. In 2009, 4 accelerated papers, 165 regular articles, 11 spectroscopic technique papers, 11 Notes, and 3 Focal-Point articles were published. The total number of articles printed was 194 which was down by 13 from the previous year, but not significantly different from the previous six years, for which the average number of articles published was 203, with a standard deviation of 11 (see table at the end of this report.) The number of manuscripts received for review was 344, which represents a slight decrease from last year's number of 356. The rejection rate for contributed papers and notes was 41.8% (compared with 43.5% in 2008), indicating the continuing vigilance of the editors and reviewers in requiring that papers be of excellent quality. This figure is consistent with top quality journals. Comparisons with previous year's statistics are included on the attached table.

We do have some concern about the number of Focal Point (FP) articles. Three FP articles were published in the last six months of 2009 but none is in the pipeline at this point. The number of review articles has a significant effect on the Impact Factor of the journal and it is our goal that at least six Focal Point articles should be published each year and we plan to increase our effort, along with the efforts of the FP Editors, Rina Dukor, Ben Smith and John Chalmers, to increase the number of FP articles per year to 6. To increase the accessibility of FP papers to electronic search algorithms, all future FP articles will contain an abstract and key words (as will future Notes.)

	2004	2005	2006	2007	2008	2009
Focal Point	4	1	4	2	6	3
Accelerated Papers	2	2	2	2	1	4
Submitted Papers	190	178	183	175	174	165
Spec Techs	6	7	14	11	14	11
Notes	15	11	4	6	12	11
Correspondence	2	0	2	0	0	0
Feature Article	1	2	1	1	0	0
Rejects	35	50	63	50	65	67
Returns	41	30	54	75	90	80
Total articles printed	220	201	210	197	207	194
Total rejected	76	80	117	125	155	147
% rejection	25.7	27.4	36.4	35.5	43.5	41.8

Papers rcvd for review	296	292	321	352	356	352
------------------------	-----	-----	-----	-----	-----	-----

Actual journal pages

Total A-pages	362	308	344	292	362	354
Total manuscript pages	1536	1590	1526	1442	1430	1442

Manuscript Types	Total # of Submitted Manuscripts	Acceptance Rate (%)	Total # of Accepted Manuscripts	Total # of Rejected Manuscripts	Total # of Pending Manuscripts	Days from Receipt to First Decision	Days from Receipt to Final Decision
Submitted Paper	294	54	112	95	87	48.49	74.73
Spectroscopic Technique Note	33	19	5	21	7	30.3	38.92
Accelerated Paper	11	60	6	4	1	44.09	59.9
Focal Point Article	3	100	2	0	1	33.5	34.5
Correspondence	3	100	2	0	0	24.5	42
Total	1	100	1	0	0	5	5
	344	52	128	120	96	46.27	69.51

The download statistics for Ingenta and OSA InfoBase usage for the calendar years 2005-2009 are as follows:

		2005	2006	2007	2008	2009
Ingenta	Content pages viewed:					78,849
	Abstracts viewed:					402,777
	Full-text downloads:	47,672	58,843	51,673	48,370	40,167
OSA	Full-text downloads:	-	-	68,248	63,148	66,502
Total Full text downloads		47,672	58,843	119,921	106,518	106,669

In terms of full-text downloads, the countries with the largest number of downloads after USA (with 22,790) are Canada (2,631), Germany (1,823) UK (2,437), Japan (1044) and Sweden (947).

As the table shows, the number of full-text downloads from Ingenta is showing a downward trend. In 2007, 51,427 full-text article downloads were provided through Ingenta. This number dropped to 48,370 in 2008 and, as can be seen from the data above, dropped again (to 40,167) in 2009. This drop has been offset by an increase in the numbers from the Optical Society of America InfoBase system. In 2008 there were 63,148 downloads of Applied Spectroscopy articles through Optics InfoBase, which increased to 66,502 in 2009. OSA has told us that most of the downloading are accessing InfoBase through an institutional subscription. Downloads through personal subscriptions or through download benefits (50 complimentary downloads) are generally much lower. It is likely that institutions have

access to either OSA or Ingenta so this may be just a matter of how the institutions use search methodology to point to the journal source.

For comparison here is a table of statistics for OSA's other journals.

PDF Journal Article Downloads through Optics InfoBase			
Journal	2008	2009	% Change
Advances in Optics and Photonics	NA	8,103	-
Applied Optics	981,550	936,353	-5
Applied Spectroscopy	63,148	66,502	5
Chinese Optics Letters	13,052	24,137	85
JOSA	113,227	135,459	20
JOSA A	273,983	251,027	-8
JOSA B	232,574	238,100	2
Journal of Display Technology	4,996	7,054	41
Journal of Lightwave Technology	34,669	62,999	82
Journal of Optical Communications and Networking	NA	5,094	-
Journal of Optical Networking	14,580	13,012	-11
Journal of Optical Technology	9,333	12,618	35
Optics and Photonics News	5,622	7,859	40
Optics Express	872,146	1,090,014	25
Optics Letters	751,421	853,922	14

Our two biggest concerns are the time that it takes to receive reviews back from certain referees and the quality of some of the reviews.

From Table 2 above, it can be seen that the average time from receipt of a manuscript to the time that both reviews have been received and a decision (accept as is, minor revision, major revision, reject) has been made is 49 days. Clearly many reviewers take an excessively long time to review the manuscript that has been sent to them. At the Editorial Board meeting held in Louisville last October, it was decided to reduce the time that we ask that a review be submitted should be reduced from four weeks to three weeks. Reminders are sent out at that time and at intervals of two weeks thereafter. If one reviewer is late but the other has sent in his/her review, we will usually accept the recommendation of the one reviewer, but only after the second reviewer has failed to send in a review after the second chaser. However, this is still an exorbitantly long time for an author to wait for the decision and only having one review reduces the quality of the journal. (This happens with less than 10% of the submitted manuscripts.)

Qualified scientists are invited to review a certain manuscript; if they cannot do so, they are asked to name other potential reviewers. If we know the names of appropriate people other than the ones who are named by the authors, we will usually ask them. Typically at least half of the people that are contacted decline (for good reasons) and most of them suggest the names of alternative reviewers, so that we have usually been able to obtain well-reasoned reviews. However, some papers are submitted on topics that neither of us, nor any of the associate editors or members of the Editorial Board, have expertise in. Shortly after I assumed the editorship of the journal, we changed the way that manuscripts are submitted so that authors are now required to name three or four potential reviewers, of which at least one is requested to be from a country different from their own. Some scientists, especially those from third-world countries, name only people from their own country (and in one case recently from

their own town). In this case it is to be expected that the review will be “too kind”. Therefore, we always *try* to use at least one referee who is not named by the author, but this can be difficult if the manuscript is on a rather obscure topic.

Peter Griffiths usually identifies potential reviews using the Allentrack data base, SciFinder Scholar or Google. We are trying to grow the reviewer data base, so now all titles and abstracts of manuscripts that are submitted to the journal are sent to Mike Blades by LeNelle McInturff (the journal’s administrative assistant at the University of Idaho). Mike searches for experts who are not already in the data base using the Web of Science. Increasing the reviewer database may have the added benefit of attracting new scientists submitting papers to the journal.

Finally, the awardees for this year’s Meggers Award have just been selected after a very close vote. A pair of papers that were published in the February and March issues of the journal were selected. They are “Methods for Kinetic Modeling of Temporally Resolved Hyperspectral Confocal Fluorescence Images”, by Patrick J. Cutler, David M. Haaland, Erik Andries and Paul J. Gemperline, *Applied Spectroscopy*, **63**(2), 153-163 (2009), and “Systematic Method for the Kinetic Modeling of Temporally Resolved Hyperspectral Microscope Images of Fluorescently Labeled Cells”, by Patrick J. Cutler, David M. Haaland and Paul J. Gemperline, *Applied Spectroscopy*, **63**(3), 261-270(2009). The quality of the approximately 50 papers that were considered by the committee was very high, once again testifying to the strength of the *journal*.

Newsletter Editor’s Report

David Butcher

January 15, 2010

Five issues of the newsletter have been published since our last report, as detailed in the table below. They have focused on FACSS 2009, a Memorial Tribute to Bill Fateley, SAS Activities at FACSS and reports, the election of Curt Marcott as President-Elect, and honoring Debbie Bradshaw for 16 years of service as Editor of *Applied Spectroscopy News Feature* in *Applied Spectroscopy*. Thanks to everyone who has contributed to the Newsletter over the past six months, particularly the Tribute to Bill Fateley!

We have continued to run one advertisement in the Newsletter.

Since Debbie Bradshaw has stepped down as Editor of *Applied Spectroscopy News Feature* in *Applied Spectroscopy*, I have assumed that responsibility as well. Peter Griffiths has graciously asked his Editorial Assistant, LeNelle McInturff, to format the Newsletter to provide me time with this new responsibility. One issue to discuss is the most appropriate place to place the news. The Newsletter will continue to include the detailed SAS reports and routine news features. Are there particular types of news that should go into one or the other?

Issue	Topic
September 2009	FACSS 2009 in Louisville October 18-22
October 2009	Memorial Tribute to Bill Fateley, Former Editor in Chief of Applied Spectroscopy and SAS Friend
November 2009	SAS Activities at FACSS and Reports
December 2009	Curt Marcott Selected as President-Elect
January 2010	Debbie Bradshaw steps down as Editor of <i>Applied Spectroscopy News Feature</i> in <i>Applied Spectroscopy</i> after 16 years of Service

Society for Applied Spectroscopy Website Status Report and Budget

February 21, 2010

Submitted by James A. de Haseth

An initial proposal was approved by the Executive Committee at the Pittsburgh Conference meeting, 2009. Shortly after that website development began. The main programmer left the employ of Big Nerd Ranch in April 2009, and a new programmer was not appointed until August 2009.

The initial stage was designated as Phase 0 (zero). Following phases are 1, 2, 3, *etc.*, and were expected to be completed over a number of years. The focus was on Phase 0, but requests from the Executive Committee changed the course of the project. Below is a table that annotates various tasks within the phases and the current status of each task. If a task is not yet complete, or has been completed since the last billing, that cost or an estimate of the cost is included. The original phases were approved by the Ad-hoc Website Committee and the Executive Committee at the FACSS meeting, 2008.

It should be noted that the largest consumption of time for the development of the website was conversion of the member database to provide an appropriate Entity Structure Relationship. While the original database worked very well for the developer it was not in a form that would work with automatic data retrieval.

Note: Each phase requires a new contract. Initially we contracted for Phase 0, but now that is complete, we need to enter a new contract for Phase 1. This will help delineate goals and set the deliverables for the project.

Phase	Task	Completed?	Anticipated Cost
0	Design new graphics for website and include all handles for building menus and attaching Django code	Yes	Paid
0	Link the membership directory to the website and allow members to update personal information. This is the key element to the entire project. Logins must be secure and available to paid members only.	Yes	Paid
0	Control of the member database will remain with the National Office; only the National Office will have access to the entire member database	Yes	Paid
0	Allow web pages to be edited by appointed members. This will allow information from various committees and officers to be updated on a timely basis without the intervention of the webmaster	Yes	Paid
0	Set up the Journal section to contain subscription information, information about the Focus Compendium, and a link to the Author's Guide.	Yes	Paid

1	Link in the Journal manuscripts and A-pages for use by the membership. The content will be in pdf. Only fully paid members will be able to access manuscripts, anyone can access free A-page content.	Mostly, A-page content not fully implemented	20 hrs to finish
0	Set up the database to store and record all officers and committee members. Use those data to produce dynamic web pages so that the information is always current. Tokens will be used for the offices and members of committees based on position, not the name of the individual.	Set up for most officers.	10 hrs (including database set-up)
0, added	Use complete dates for membership and terms of office. During development the Society decided that membership did not have to coincide with calendar year. This meant additional fields had to be added to the database.	Yes	Paid
0	Write Django tokens for Regional and Technical Section officers so information can be automatically displayed directly from the database to web pages.	Structure in place	
0	Keep a record of all awards received and make these available to the web pages. Award information to come directly from the database.	Information in place	5 hrs
0	Develop a simple editor for entering content. The editor should be a Rich Text Editor, that is, it will provide typesetting similar to a word processing program. The users should not need to know or understand html or css.	Largely complete	Mostly paid
0	Set up a sponsor module so that sponsor logos can be shown on the home page and selected on a random and hierarchical basis. Higher paying sponsors will be shown more often.	Partial	30 hrs (including ad system for fixed pages)
1	The ability to generate new navigation aids, that is, change the banner menus and produce sub-menus for individual pages	Yes	Paid
1	A search system that allows members to search for other members with a specific expertise that may be restricted to geographical proximity. Members would have access to only 5 or 10 names within a 24-hour period. The search needs to be expanded to cover the on-line journal information. The ability to start intelligent searches with Boolean logic must be a part	No	To be funded by Horiba? At least one day on research

	of the system.		
1	The ability to produce accounting records and reports from the database. This function is needed by the National Office.	No	Separate budget item? (this could shoot into the 20 hr range depending on requirements)
1	On-line web store to collect dues and sell items from the Society. Later it was decided that we would host our own Journal content, so we will use the web store to collect reprint fees. We plan to use commercial/freeware software to interface with Society banking institution.	No	40-50 to start
1	Set up a feedback module to collect direct information and comments from members and people interested in the Society. Information would be directed to the appropriate email address, Executive Director, SAS Office, Web Editor, or Web Designer.	No	(Pretty simple thing. Maybe 10 hrs)
1	Set up an ad rotator system. Advertisements can be set to display randomly and have a hierarchy based on remuneration to the Society.	Yes, but if we tie ads to journal manuscripts this would be an additional charge.	Paid, except for ads with manuscripts.
1	News and calendar. Allow posting of events and newsletters.	No, but partially done	20 hrs.
1	Scan through the site to set missing links and CSS fine-tuning.	No	10 hrs.
2	Set-up automated system to send email notifications about membership expiration and renewal	No, but being worked on.	40 hrs.

2	Employment module that restricts access to members and allows potential employers access to qualified candidates	No	20 hrs
2	Voting module to replace the commercial voting site. Only current members could vote and voters would be notified by email about voting. All this will be automatic	No	(Fairly simple, 30 hrs)
3	Educational site to provide technical information approved by the Society. Society members would review the content and verify its accuracy. This would become a much more valuable resource than Wikipedia. This would not be a true Wiki, but rather a series of pages that display text, images, and equations to explain various techniques, methodologies, instrumentation, etc. Members would develop the pages off-line and then the pages would be put into flat pages to display. There would probably be no need for database entries.	No	To be determined
Requested	Google maps to show regional sections and allow members to select the regional section closest to their work or home.	No	(Hard to estimate due to graphic design and scope, 50 hrs ROUGH guess)
Requested	Add videos to the website for member testimonials, possibly for symposia, lectures, etc.	No	
Requested	Google maps to show where members work or live and tie to areas of expertise.	No	
Requested	Facebook and Tweeter type apps for members only. These could be used to communicate technical information or look for employment. Clearly these would be considered "member benefits."	No	

Much more has been completed than initially proposed as needs changed during the development of the site. Some tasks can be implemented rather quickly, but naturally others will take considerable time.

Membership Coordinator's Report

February 2010

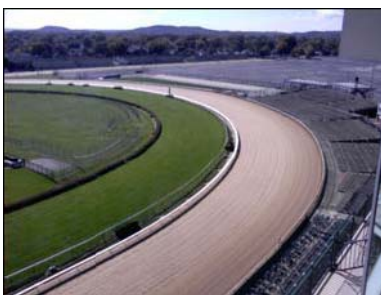
Gloria Story

Our society membership grew at the 2009 FACSS exhibit opening, thanks to Mike Carrabba's talent of persuasion and our supporting vendors. Sixty-one student memberships were supported by Mike and Mary Carrabba, Spectroscopy Magazine, BioTools, Inc., Horiba Jobin Yvon, Inc., and Renishaw, Inc.. Thirteen of these student members are new to the Society! We also continue to grow as a Society with new student chapters. Since my last reporting period, the SAS Executive Committee approved the formation of the student chapter at the University of Wisconsin. Welcome!!

Sunday SAS Day event – A Day at the Races: Next to the *Journal*, networking is considered by our members as one of our greatest benefits. To enhance our members' FACSS experience, along with encouraging early and full attendance at our national meeting, a new SAS-member exclusive social networking event was added to the beginning of the FACSS meeting calendar. This free event, for the first 100 members to sign up, was held at Churchill Downs, Louisville, KY. Bus transportation to and from the hotel, a 3-hour buffet of sandwiches, salads, side dishes, and desserts with open bar (souvenir Kentucky Derby mint julep glasses included!), mock horse racing presided over by the official Kentucky Derby bugler with real prizes for race winners, escorted tours of the entire Churchill Downs facility, and free photo ops with extremely expensive and gorgeous Derby hats delighted all that attended. For attending members who had the time, there was an invitation to arrive early and watch the horses exercise. Because live racing was not available on the day of our event, the underlined perks mentioned above were added to our event by Churchill Downs. Talk about Southern hospitality! All of the SAS members that attended agreed that the extra perks more than made up for the quiet track, and the committee agreed that we exceeded our goal of enhancing early networking before the FACSS meeting got into full swing. There were no negative comments from our very unscientifically-designed exit poll.

Due to the popularity of this event, convincing the SAS Governing Board to support the next Sunday SAS Day event at FACSS 2010 required no photo finish. Speaking of photos...here is our fearless leader Jon Carnahan enjoying the view, a view of the famed spires seldom seen by the public, and the first bend.

Debbie Bradshaw was one of our key planners of this event. They had a huge replica of Churchill Downs made out of glass, including people in the stands. Prez-elect Fred LaPlant is leading the attendees in the refrain to "My Old Kentucky Home"...a song all visitors to the Downs must traditionally partake in.



LinkedIn: Our SAS members-only LinkedIn group continues to grow in membership. As of this writing, there are 266 members “linked-in”. While there isn’t a tremendous amount of discussion going on in this site, members are finding connections to researchers and groups thanks to their fellow LinkedIn members. An interesting example of this that happened to me was when a colleague asked me a question about thermal imaging and I was able to connect him to an employee in his own company that I met through LinkedIn. A bit convoluted? Yes! Helpful? Yes!!

Membership Committee Meeting FACSS 2009: The membership committee met during FACSS 2009 on Tuesday, October 20th (8:00 to 10:00 AM, Marriott Skybox Room, Louisville, KY); those in attendance were Paul Bourassa, Jon Carnahan, John Chalmers, Jim de Haseth, Mary Kate Donais, David Heaps, Fred LaPlant, John-David McElderry, Michelle Meighan, Bonnie Saylor, and Gloria Story. The agenda was: 1) Create a proposal for the SAS Governing Board to continue with another SAS Day event at Raleigh FACSS; 2) Share updates from Local Section Affairs – especially new student chapters and the UK section; 3) Discuss Linked-In and Facebook presence; and 4) Discuss Membership-specific ideas for the new SAS website.

SAS Day event 2010: Two venues for the SAS Day event in 2010 were recommended by the Raleigh FACSS team (David Butcher, our Spectrum newsletter editor, is General Chair): Rush Hour Karting (go cart racing, barbeque lunch, open bar, and bus service) or Chatham Hill Winery (wine tasting, winery tour, hot lunch buffet, and bus service). It was decided to select the Rush Hour Karting venue for several reasons: 1) we already have a wine and cheese event at FACSS; 2) there are plenty of chairs and tables for those who want to socialize; and 3) it sounds like FUN! Some excellent ideas were shared that came up after the Day at the Races event. We might want to look into assigning teams to enhance networking among attendees. To facilitate attendance, moving it to a later time to assist with travel schedules was discussed. The draw backs to this were limiting our choice of venue due to hours of operation issues and further impacting the Sunday evening poster session and mixer. It was highly recommended to share the logistics information early enough before FACSS so travel plans can be expedited; for example the ability to take a taxi directly from the airport to the event. It was felt that the evening poster event was positively impacted by the SAS Day event, as seen by the larger than normal attendance and larger number of posters. A noted side benefit to the SAS Day event was the expansive opportunity to just people watch.

The only negative comment was the event’s cancellation of any hands-on workshops that usually were held Sunday afternoon.

Section Affairs Update: David Heaps reported that he’s already been contacted during FACSS 2009 for information to start a new student chapter. So far, student chapters are having small gatherings and Arizona State University (ASU) has applied for seed funds. As of the FACSS meeting, student chapters have been formed at ASU, University of Idaho, Brigham Young University, and the University of Utah.

The University of Delaware is now forming. Michelle reported that the student mixer event at FACSS was a great success, but there was some confusion; non-student new members crashed the party – because they thought it was for them too, which we all agreed was a nice problem to have! ☺ Bonnie suggested we might want to have some sort of new members social within our wine and cheese event. David’s hoping to increase communication using LinkedIn and/or Facebook. Michelle commented that students like to keep their Facebook connections separate from their professional lives, so LinkedIn is probably the better option. John reported that our UK section’s programs will be starting soon; the financial issues have been resolved and the indemnity issues are close behind.



The New SAS website: Jim presented a live demo of the current state of the new beta website. One wish for the members' area of the site is to provide information on members by geography so it is easier to find local resources. At the moment, the best way to get the information is to contact Bonnie and Victor. The Membership Coordinator will have administrative rights over the members' pages and other committee members will have control of sub-pages. There will be the ability to send email alerts when pages are updated. Search tools for members will include being able to find other members by area and expertise. Members will be able to update their own profiles, so their willingness to be contacted to consult or volunteer could be added as new fields in the database. Here's the top banner, as it now stands...

New business: Marvin Margoshes sent some new business from the Chemical Heritage Foundation: information on the International Year of Chemistry 2011. The flyer he sent starts with... "The International Year of Chemistry 2011 (IYC 2011) is a worldwide celebration of the achievements of chemistry and its contributions to the well-being of humankind. Under the unifying theme "**Chemistry—our life, our future**," IYC 2011 will offer a range of interactive, entertaining, and educational activities for all ages (<http://www.chemistry2011.org/about-iyf/introduction>). They are looking for participation from professional societies like SAS. The site states the following: "Sharing what you plan to do for IYC 2011 is the essence of this section (of their site). Soon, you will be able to submit and share an idea, and record the details of an actual event or activity that you plan to host in 2011. Selected events will be officially recognized and authorized to use the IYC logo. To be eligible, an IYC event must address at least one of the year's objectives, which are as follows:

- Increase the public appreciation and understanding of chemistry in meeting world needs
- Encourage the interest of young people in chemistry
- Generate enthusiasm for the creative future of chemistry
- Celebrate the role of women in chemistry or major historical events in chemistry, including the centenaries of Mme. Curie's Nobel Prize and the founding of the International Association of Chemical Societies.

The question to mull over then is: how do we respond? As a group, we are quite diverse and scattered across the globe. Do we try to do something on a global level (very difficult!) or see if individual sections are interested? It is certainly something to consider and soon.

Student Representative Report

February, 2010

John David McElderry

Goals for 2010:

- 1) Broaden appeal of the student event at PITTCON and FACSS
 - Supplement the bar atmosphere with fun activities
- 2) Increase new student memberships to SAS
 - Student-run SAS tables at new spectroscopic conferences

Items of Business:

1) Review of Student Event at FACSS 2009:

The student Event at FACSS in Louisville, KY was a great social activity which attracted ~70 students, which were ~20 students more than anticipated. The Irish Pub provided SAS a private room with limited alcoholic drink options (beer and wine) and a table full of appetizers. Several attendees lingered until after midnight. I particularly appreciated the attendance of several members of the EC as well as the welcome speech from the SAS president.

2) Student Event at PITTCON 2010:

The Student Event in Orlando, FL will be held at a dueling piano bar located down the street from the convention center. We are expecting 25—30 students to attend based on the SAS student event attendance at PITTCON 2009. The event will be open to full socializing just as before, but the dueling piano show will appeal to a wide audience and is anticipated to retain most of the SAS student demographic socializing all evening. Price is quoted to be \$1500 for 25 people.

3) Future Student Event at FACSS 2010:

The best student events are ones that provide all students with social networking opportunities hand-in-hand with fun activities or entertainment. I will try to include activities at each social event that do not detract from socializing and networking. For FACSS 2010 I will organize a trivia night for teams of ~5. This is a weekly tradition at many bars and attracts both drinkers and non-drinkers. I will collect trivia for five rounds of various subjects to present at the event. The trivia will be periodic throughout the evening with breaks for tallying scores. My goal is to retain the attendance through the duration of the event. The potential benefit will be that the students will have a higher level of interaction that will emphasize characteristics such as “natural leadership”, “team work”, and “competitiveness”.

4) SAS representation at new conferences:

I propose that student-hosted presentation tables be set up at conferences, such as ICORS (August) and SPEC (June), that attract young spectroscopists. A selected student would decorate a table at the conference with pamphlets containing SAS member benefits, pictures of student events, and contact info. The goal of the selected student would be to talk to fellow students about membership in SAS, and share a testimonial of the value of SAS. We can select a student who will already be attending the conference and who is actively involved with SAS (local chapter leaders?). Cost will be dictated by the size of the display desired and an optional incentive for the student (\$100-250). I expect the organizers of small conferences will provide the student space for the display free of charge. SAS will have a presence at conferences where spectroscopy has great future potential. The student representing SAS will attract fellow students to SAS at the conference.

Report to SAS Executive Committee

Ed MacMillan, Advertising Sales

February 2010

2009 was an excellent year for Applied Spectroscopy advertising sales (see chart below). We had relatively poor ad sales and renewals for the January and February issues however despite that the March issue was an improvement. Still most companies are putting off advertising decisions till Q2 at the earliest or just stepping out of the market altogether. Many factors have contributed to this; these include:

- The continuing hangover from the recession and the new playing field companies large and small find themselves in
- The government incentive money (or lack thereof) and possible increases from government going into the second half of 2010

- The knock on effect of rationalization and takeovers causing competitors to get the jitters or conversely increase sales and production (less common)
- Continued difficulty getting a commitment from some of my regular advertisers

Although 2009 was a banner year for ad sales and the feeling at FACSS was cautious optimism, as of now, having closed 3 issues for 2010, I am down roughly 10%. Typically this would not be a cause for concern, and we would hope to make this up with an overall increase in ad revenue going into Q3 & Q4, however with the general uncertainty this is not a sure thing.

Below are the projected advertising revenue numbers for 2010 with the actual numbers from 2009.

Net Revenue for 2009 and 2010	2009	2010
Quarter 1	\$56,685.43	\$45,000.00
Quarter 2	\$51,214.42	\$45,000.00
Quarter 3	\$56,981.51	\$50,000.00
Quarter 4	\$58,408.71	\$55,000.00
Actual Billed Revenue		\$223,260.37
Projected Revenue	\$200,000.00	\$195,000.00

Our goal, as reported to the executive committee in September, was to capitalize on the gains made in 2009 and really push to get early renewals so as to start the year with a big issue. As you can see we did not do this but we still have 3 quarters and I am still cautiously optimistic going forward. With the economy staggering out of recession and many magazines and journals either shutting up shop altogether or going online only, it is no small thing to be publishing high quality peer reviewed scientific material 12 times every year. Now that the new website is up and running we should see an increase in online ad sales and the possibility of moving into Webinars.

As technology continues to impact the future of publishing I would recommend looking seriously at a digital (eBook) format for the online only portion of the journal. This format would make it more user friendly for new subscribers and advertisers alike and preempt any move towards a web only content situation. With the development of the Kindle and many similar platforms that were introduced at the CES show in January of this year, it is time to review this opportunity to attract new readership before this trend has significantly taken hold and grow the subscriber/membership within a print and digital framework. With the exception of the next generation of members we are still within the adoption phase of the curve so now is the best time to be seen as innovators

In conclusion, in the near term, the future for print and online advertising sales is cautiously optimistic. Larger companies are taking a wait and see approach to the challenges in the market. Q1 was somewhat soft and I would expect an uptick and will update the rest of the year to our Executive Director and Editor in the beginning of Q2. My hope is to report a much better picture by the time we see everyone at FACSS in the fall.

Here is a list of new and returning advertisers for 2009 to 2010:

2009 Advertisers	2010 Advertisers (as of the Mar close)
GE – Glass Expansion	Princeton Instruments*
Bruker	Starna Cells
Princeton Instruments	CDI Pharma*
Starna Cells	Fibre Photonics
Kaiser	Ocean Optics
ABB Analytic	BioTools*
CDI Pharma	McPherson*
Fibre Photonics	ICL

Ocean Optics	Amptek
BioTools	BaySpec*
McPherson	Enwave*
ICL	Hellma
Amptek	Horiba
B&W Tek	Infrared Analysis
BaySpec	Opotek
DeltaNu (Intevac)	Pike
Enwave	Remspec
Hellma	Renishaw
Horiba	Shimadzu
Thermo Fisher	Cobalt Light*
Infrared Analysis	WiTech (new for 2010)

Opotek Bruker*

Pike

Remspec

Renishaw

Shimadzu

Thermo Fisher

McCarthy Scientific

Rare Light

Cobalt Light

Parker Hannifin (Tipon)

(* - Represents an increase in overall commitment from 2009)

As you can see we have quite a few advertisers who have not yet renewed but are either still in the planning stages or have decided not to advertise at least for the short term. Note that we have closed some new ad clients. As regards the rest of 2010 I would expect the year to firm up (unless we see a significant general economic downturn) with a lot of the regular advertisers coming back the in Q2. To reiterate we see numbers approaching the same levels we saw in 09 with a somewhat soft start to 2010. Our hope is we will at least see steadily improving results approaching the 2009 levels by Q3.

Publications Committee Meeting Minutes of the October 19, 2009 Meeting

February 2010

Attending: Larry Nafie, Dave Butcher, Peter Griffiths, Bruce Chase, Rebecca Airmet, Ed MacMillan, Fred LaPlant. Jon Carnahan, Geoff Coleman, Jim de Haseth, Curt Marcott, Bonnie Saylor

Review of minutes

Accepted

Journal Editor Report

All is going well. LeNelle is new secretary. Good meeting of Editorial Board. Made the change away from Europe and Japan editors to not distinguishing between associate editors. 1/3 of board has turned over. Journal impact factor is going up slowly. Hope to see it rise. Putting abstracts with focal point articles will be done so the word review comes up to increase the impact factor. Rebecca very efficient. Excellent communications between her and LeNelle. Allen Press is very helpful too.

Newsletter Editor Report

Advertisement in newsletter has been running since March. Things going well. Thanks to Peter and Bruce for help with the October memorial issue to Bill Fateley. Things continue to move forward.

Web Editor Report

Steve was not in attendance. Report in packet

Very low traffic to the website. Hopefully the new website will increase traffic.

New Website report – Jim de Haseth

Looking at launch date of PittCon. We should coordinate an announcement to society. Send in newsletter, have a sidebar on journal cover. Future initiatives and strategies for the journal. Impact factors. How to deal with them.

New Business

Geoff Coleman – Compendium of issues of the journal on cd. We would lose control of what was being done with the papers. Suggestion withdrawn.

2010 Lester Strock Award Committee Report

February 2010

Scott Goode, Chair

The 2010 Strock Award Committee nominated Professor Kay Niemax, an internationally respected spectroscopist with research specialization in the area of laser atomization methods. His research is of wide importance and great analytical utility.

Report of the 2010 Ellis R. Lippincott Award Committee

February 2010

Martin Moskovits, University of California Santa Barbara, will be the recipient of the Lippincott Award for “fundamental and continuing contributions to the field of Surface-Enhanced Raman Spectroscopy, and proposing its fundamental enhancing mechanism based on the excitation of localized surface plasmons.”

2010 Report of the SAS Awards Committee

February 2010

Nancy L. Jestel, Karen Esmonde-White, John F. Jackovitz

The committee has selected the following three individuals to receive awards this year:

1. Alex Scheeline, Distinguished Service Award
2. Nicolò Omenetto, Honorary Membership
3. Theodore Rains, Emeritus

Meggers Award Committee Report

1st February 2010

Pavel Matousek, Chair

This Committee has identified as the winning publication for the 2010 Meggers Award the following two papers merged into one entry:

Methods for Kinetic Modeling of Temporally Resolved Hyperspectral Confocal Fluorescence Images
Authors: Cutler, Patrick J.; Haaland, David M.; Andries, Erik; Gemperline, Paul J. Volume 63, Issue 2, (February 2009), pp. 153-163

&

Systematic Method for the Kinetic Modeling of Temporally Resolved Hyperspectral Microscope Images of Fluorescently Labeled Cells Authors: Cutler, Patrick J.; Haaland, David M.; Gemperline, Paul J. Volume 63, Issue 3, (March 2009), pp. 261-270

The papers were merged into a single entry as discussing a very similar topic. The committee is confident that this work conforms to the high standard set by previous Meggers Award winners.

SAS Nominating Committee Report for PittCon 2010

Nominating Committee: John Chalmers, Chair; Katherine Bakeev; Jessica Jarman; Mark Hayes; Gregory Webster

The Nominating Committee has two nominees for the position of President-Elect to take office in January 2011. These are: Mary Kate Donais and Greg Klunder

The Nominating Committee has two nominees for the position of Treasurer to take office in January 2011. These are: Paul N. Bourassa and Geoffrey N. Coleman

SAS Publicity Committee Report

29 January 2010

Prepared by Chad Leverette (Chair)

The Publicity Committee did not meet during the last 6 months. Communication between committee members occurred this Fall through e-mail exchanges.

Our Committee would like to report that the response we have received about the SAS Members-Only event at FACSS has been extremely positive. Feedback received indicated that this event was “the place to be”. Based on the perception of Publicity Committee members who attended the event, the event seemed to be very lively and well-attended. This event is a great member benefit. We believe that this event and others like it are excellent at attracting new members and creating positive publicity about SA. The Publicity Committee supports having another Members-Only event planned for FACSS 2010 in Raleigh.

Two Committee recommendations for consideration by the EC include:

1. Having similar, yet smaller, Members-Only events possibly planned for regional or national ACS meetings.

2. As mentioned in the Fall report, publicize the Society and the journal to researchers who are using spectroscopy in very specialized disciplines where spectroscopy is not the focus.

(A) This could be accomplished by placing advertisements in conference program books for meetings where spectroscopy is not a focus.

(B) Sponsoring a focused symposium at FACSS or PITTCON and inviting noted speakers in these very specialized fields, with expertise in areas other than spectroscopy, to describe their work and how they use spectroscopy.

(C) Holding a SAS sponsored symposium at a specialized research conference where spectroscopy is not a focus.

Report to SAS on FACSS and FACSS committee meetings attended during the FACSS meeting at Louisville, 17 October-22 October, 2009

Produced by John Chalmers – Edited by Fred LaPlant and Jon Carnahan

Good news for SAS at FACSS!

Following from a recommendation of the FACSS Finance Committee, it was voted unanimously at the FACSS Governing Board meeting for the dispersal of the surplus funds emanating from the FACSS meeting in Memphis in 2007. This money will be held within FACSS but ring-fenced for SAS' use at future FACSS meetings. There is no time constraint as to when its use has to be allocated.

In addition to this, the Reno (2008) meeting surplus currently stands at \$53,343. The account for this meeting is not yet closed, but it is anticipated that this money will become available for dispersal next year, and any income due to SAS, according to its sponsorship **for the Reno meeting, will be added to the SAS dispersal money held within FACSS.**

Report on FACSS and FACSS committee meetings:

Given the current economic climate, overall, this FACSS meeting was considered both a technical and social success by the majority of the delegates. The meeting was contained within the conference hotel. During the FACSS meeting in Louisville, SAS representatives attended the following FACSS organizational meetings:

1. FACSS Long Range Planning (LRP) Committee, Sunday 18 October 08:30-10:30.
2. FACSS Program Committee meeting, Sunday 18 October, 18:00-19:00.
3. FACSS Planning/Budget Committee meetings, Wednesday 21 October:
 - a. Planning/Budget Committee Raleigh (2010), 09:00-10:00
 - b. Planning/Budget meeting Reno (2011), 11:00-12:00,
4. FACSS Governing Board (GB) Meeting, Thursday 2 October, 18:30-22:00.

1. Some outcomes/comments/notes from the LRP Committee meeting:

1. Publicity: A Marketing Chair is needed and should be appointed by the FACSS Board. A proposal has been received from a marketing company in respect of re-branding the conference; discussions will probably occur over a 2-year cycle. The process to rebrand FACSS and market better the FACSS conference has started. It is anticipated that future meetings will be sub-headed "brought to you by FACSS", opening up the possibility for expanding influence and meeting sponsorship into the UK, Europe, Asia, ...

2. Membership and Growth: New sessions featured at the 2009 meeting included separations science and cascade laser symposia and sessions on 2D fast time-resolved spectroscopy. Raleigh (2010) should include bio-analytical. FACSS should look at opportunities for becoming the home for 'disappearing meetings'. For instance, ISA is ceasing to hold their fall meeting, an Exposition, and reverting to a smaller meeting with fewer delegates plus a small exhibition held in a hotel; the last fall meeting attracted ca. 10,000 people, but attendance has been dropping off, and next year the meeting will likely only have ca. 600 people attending. Vendors are still supporting the Program, but exhibitors are declining a little. The Gulf Coast Conference, which is largely a petrochemical industry-based meeting held annually in either Galveston or Houston, has contacted FACSS expressing interest in working with FACSS for holding a joint conference. The Gulf Coast Conference (GCC) is a good complement to FACSS in that it has strong sessions on GC, HPLC, X-ray and atomic spectroscopy. The meeting has lots of drive in attendees (1-day attendees); its attendance is typically 1100-1200; the meeting has about 150 exhibitor booths, about 10 of which are equivalent to those at a FACSS meeting; registration is about \$95.00. FACSS would therefore need to lower its registration costs to more closely match that of the GCC. For FACSS, the earliest possibility for such a joint meeting is 2013. It was also noted that only about 28 delegates with petrochemical-based process analytical interests attended a recent IFPAC meeting, which has now become pharmaceutical industry dominated. FACSS should contact these delegates and see if they are willing to run sessions at FACSS.

3. Long-term visionary planning: There was some discussion about using electronic communication in real time, and the use of avenues such as Facebook and LinkedIn for messaging. There

is a need for an electronic presence via the rebranding and marketing developments. Webinars were also discussed briefly and it was noted that web-casting is now a lot lower cost. There was also some discussion about providing translations, e.g. Japanese, or the use of sub-titles. It was noted though that it is harder for industrial presenters to gain permission to web cast. Webcasts are also limited in participants. FACSS needs to strengthen its international presence, and could/should look to jointly marketing meetings using its proposed slogan of “brought to you by FACSS”. DVDs of poster presentations should be considered as being made available for next year.

4. Site Selection: After Raleigh (2010) and Kansas City (2012), several locations are being considered for 2013, before a possible return to Reno (2014). A list of 14+ was discussed and will be whittled down to about 5 after some discussions with the member societies.

2. Notes from the Program Meeting:

This year’s FACSS had 75-76 contributed sessions, which was up from the 71 the previous year. More than 400 oral presentations were given, with often 10 concurrent sessions. About 150 posters were presented – about the same as the previous year.

It was indicated that this year’s FACSS meeting would probably about break even, or even generate a small surplus.

It was noted that this year’s FACSS conference contained strong imaging spectroscopy components. Also, forensics and near-infrared (NIR) spectroscopy increased their presence. Nanomaterial-based talks also featured highly, and it was proposed to give thought to a Materials Characterisation session in 2010.

A biomedical satellite session is happening the week before ICORS XXII (International Conference on Raman Spectroscopy); ICORS XXII will be held in Boston from 8-13 August, 2010. It was thought that this meeting, and particular its biomedical satellite meeting, might reduce attendance from those within the biomedical spectroscopy community at FACSS. Attention was drawn to the fact that there are two distinct 2D spectroscopy communities. One involved with 2D-correlation spectroscopy, the other focused on 2D fast time resolved spectroscopy. The latter had three sessions this year, the former was featured in the 2008 program. A suggestion was made to feature at FACSS these two 2D spectroscopies in alternate years. Sessions on LIBS were still continuing, and the community is interested in perhaps making FACSS its central meeting. MS is gaining some momentum as a featured technique within FACSS presentations. ASMS (American Society for Mass Spectrometry) is now part (sponsoring society) of FACSS. The dominant techniques remain atomic spectroscopy and molecular spectroscopy, in particular vibrational spectroscopy of the molecular spectroscopies. Again it was noted that there were a lot of ‘disenfranchised’ process analytical folks from the IFPAC organisation; as a consequence, process sessions could beneficially be featured particularly at future FACSS meetings.

3. Notes from the Planning/Budget Committee Meetings:

The delegate number for the 2009 Louisville meeting was about 740.

Raleigh (2010):

1. The FACSS 2010 meeting in Raleigh will be held in a brand new hotel (<http://www.raleighconvention.com/>) and convention centre (<http://www.raleighconvention.com/>). A secondary hotel is located opposite the convention centre. Restaurants, etc., are within easy walking distance.

2. The format of the meeting will follow closely that of the last two meetings. One possible theme for the all-inclusive Wednesday gala event may be a NASCAR theme.

3. The meeting should focus on attracting a lot of local delegates from within the Research Triangle; there is a possibility of a lot of drive-through delegates.

4. In the near future, the group should appoint a Publicity Chair.

5. Because of the near date overlap with other major meetings in the USA (e.g. ICORS XXII), publicity for the next FACSS meeting needs to be out as soon as possible, preferably by January. Some plenary speakers may also need to be contacted and confirmed early.

6. Holding the SAS Poster Session at the later time of 19:00 hours on the Sunday evening (after the SAS event) had proved to be good success, with a noticeably higher number of FACSS delegates present.

7. The budget was approved at PittCon 2009. Exhibits were about 20% down this year. Program support was ca \$35,000; the budget was \$30,000.

Reno (2011):

1. The same site (hotel) would be used as for the 2008 FACSS meeting.

2. The Program Chair will be Pavel Matousek of the Rutherford Appleton Laboratory, UK. Pavel, being the first outside of N. America appointed to this position, will try to increase international attendance. Pavel requested an extra \$11,000 in complimentary registrations to help facilitate this. He is also keen to reduce the number of speakers featured in multiple sessions.

3. The preliminary budget was set and aimed at a modest 3% surplus; the budget will be finalised at PittCon 2010.

4. Notes from the GB Meeting:

(This does not include items already covered above, unless additional facts are relevant.)

1. The FACSS LRP should focus firstly on 3-10 years out. The second part of its meeting should then focus on member society's issues and needs. The LRP remains an open meeting.

2. The Treasurer reported that FACSS was in a healthy financial position, with about \$530,000 available, in accordance with its constitution, to cover a last-minute meeting cancellation. The only other liabilities are contractual. The 5-year running average meeting cost (+ 1 sigma) is \$363,312.

3. Delegates present from localities close to Galveston and Houston expressed lots of negativity on a possible future tie-up with the Gulf Coast Conference, such as demographics, travel gridlock, and distance to airports. This consideration was sent back to the LRP for further recommendations.

4. Several workshops had to be cancelled at the Louisville meeting because of low or zero attendance. The most popular were: Chemometrics without Equations (20), Analytical Problem Solving for Undergraduates (18), Advanced Chemometrics (17), Analytical Raman Spectroscopy (10), and Raman Chemical Imaging (10).

5. The GB Chair has money allocated to expand the conference. The specialty chromatography sessions were well attended this year and will be featured again next FACSS meeting.

6. FACSS would welcome more ideas from its member societies for new topics, etc, to feature at future meetings.

7. FACCS should perhaps do more to recognise the importance of its member societies. To this end a meeting is being considered to be held at the PittCon (2010) meeting between the GB Chair and member society representatives in order to discuss issues, etc.

8. The number of no-shows (42 out of 175) in the poster sessions remains an issue. The student poster presenters were generally pleased with the traffic. FACSS should consider perhaps offering a prize for each poster session.

9. Overall, relative to other conferences, FACSS in Louisville did reasonably well and was helped by the reduced costs.

The next FACSS GB meeting will take place on Tuesday 2 March, probably commencing at noon, during the PittCon 2010 meeting in Orlando (February 28 to March 5, 2010).

Comments to butcherATemail.wcu.edu