

# The SAS Spectrum Newsletter

The Newsletter of the Society for Applied Spectroscopy



## April/May, 2006

### SAS ACTIVITIES AND REPORTS FROM PITTCON 2006

#### SAS ACTIVITIES AT PITTCON 2006:

- FACSS/SAS Retreat develops future directions for SAS National Meeting
- SAS Local/Technical Session Roundtable
- SAS Student Mixer
- **DETAILS BELOW & IN FUTURE ISSUES**



**FACSS 2006**  
**33rd FACSS**  
**Disney's Contemporary Resort**  
**Lake Buena Vista, FL**  
**September 24-28, 2006**

The SAS National Meeting this year will be held at Disney's Contemporary Resort at Lake Buena Vista, FL. Program highlights include

- a symposium organized by Deborah Bradshaw sponsored by the SAS Atomic Spectroscopy Technical Section focusing on applications of atomic spectroscopy
- several symposia organized by Jim Rydzak and Chris Hassel sponsored by the SAS Process Analytical Technical Section focusing on spectroscopic monitoring, NIR, new technology, and chemometrics
- plenary speakers including Harry McSween and Alan Marshall.

Complete details at <http://facss.org>.

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SAS Student Representative Lacey Averett hosted a Student Mixer at Pittcon



#### April Historical Events In Spectroscopy Leopold May, Catholic University

April 26, 1919 Velmer Fassel, an Honorary Member of SAS, was born on this day. He did research in analytical emission spectroscopy, optical and x-ray fluorescence spectroscopy, infrared spectroscopy, and analytical spectroscopy of gases in metals and the rare earth elements.

[Comments to newsletter@s-a-s.org](mailto:comments_to_newsletter@s-a-s.org)

**PRESIDENT'S REPORT**  
**BECKY DITTMAR, MARCH 11, 2006**

I do appreciate the opportunity to serve this Society. I want to especially thank Cynthia Mahan for her contributions to the Society this past year and Bob Michel in the year before that. Their leadership and energy have given this position some momentum that I'm hoping we can continue to improve upon. In addition, I want to thank Bonnie Saylor for her continual support (as the real leader of this organization!) as well as Barbara and Victor for the timely and professional help they provide.

Some of the critical activities that are ongoing that I would like to see advanced are:

I. Collaboration with OSA – working to identify mutually beneficial exchanges (thanks to the work by Joel and Bonnie on this effort)

- Subscription bundling
- Membership ideas – especially with respect to student sections

II. FACSS – we must continue with the progress that has been gained in recent years.

- Stay engaged in GB and committees
- Keep fresh people involved

III. Technical sections – (continue to) use technical sections to organize sessions at Pittcon and FACSS; possibly some OSA meeting?

IV. Bring in new volunteers for SAS/FACSS committees

I appreciate everyone's support and volunteer efforts as members of the EC and the various committees. I hope we can make this a successful year!

**SECRETARY'S REPORT**

**DAVE LANKIN**

**EXECUTIVE COMMITTEE MEETING AGENDA**  
**SUNDAY, OCTOBER 9, 2005**  
**QUEBEC HILTON – QUEBEC CITY, CANADA**  
**COURVILLE ROOM**

- I. **Call To Order - Cynthia Mahan**
- II. **Roll Call - David Lankin**
  - President – Cynthia Mahan Present
  - Past-President – Robert Michel Present
  - President-Elect - Rebecca Dittmar Present
  - Treasurer – Chris Hassell Present
  - Secretary - David Lankin Present
  - Executive Director – Bonnie Saylor Present
  - Newsletter Editor – David Butcher Present
  - Editor-in-Chief - Joel Harris Present
  - Editor – Paul Farnsworth Present
  - Web Editor - Steve Bialkowski Present
  - Member. Ed Coord. - Steve Barnett Not Present
  - Student Rep. - Debbie Serna Not Present

Parliamentar. - Deborah Bradshaw Present  
Membership Coord. – Paige Eagan Not Present

A quorum was present.

**III. Approval of Minutes from February 26, 2005 Executive Committee Meeting**

Discussion followed and minor changes to the February 26, 2005 Minutes were made. After review, Dave Lankin moved and Rebecca Dittmar seconded that the Minutes be amended. The motion passed.

Chris Hassell moved and Rebecca Dittmar seconded that the Minutes from the February 26, 2005 Executive Committee be approved as amended. The Minutes were approved.

**IV. Reports**

**A. President Report Attached**

Cynthia Mahan briefly summarized the President's Report, touching on FACSS issues, Society inputs, and Long Range Planning Committee topics.

**B. Secretary Report Attached**

The Minutes of the last Executive Committee meeting of February 26, 2004 constituted the Secretary's report.

**C. Treasurer Report Attached**

Chris Hassell briefly summarized the Treasurer's Report. Contained in the report was an assessment by the SAS financial advisor who recommended that SAS consider moving a portion (not all) of its liquid assets into a greater yielding CD. The suggestion would be taken up during the Budget Approval in New Business.

**D. Executive Director Report Attached**

Bonnie Saylor reviewed the Executive Director's Report. She again cited the fact that SAS is continuing to loose membership and this is going to affect the overall financial health of SAS.

**E. Journal Editor Report Attached**

Joel Harris reviewed his report. He indicated that there is a new typesetting procedure in place to facilitate the fully electronic submission and review of manuscripts to Applied Spectroscopy. He indicated that the citation rates for the Journal have jumped due to the current availability of the Journal and the journal backfiles in electronic format and the enhanced internet citation of topics and articles. Rina Dukor was appointed Focal Point Editor for Applied Spectroscopy and she already has 18 articles lined up. This will contribute to even better citation rates in the future. The Focal Point

articles (reviews) are among the highest citation rates and download frequency. The backfile is now complete back to 1970. The remainder will be completed by the end of the year.

- F. Newsletter Editor Report Attached**  
Dave Butcher reviewed his report. He is continuing to publish the SAS newsletter. He indicated that emails are sent to the membership when a new issue is posted to the SAS website.
- G. Membership Education Coordinator Attached**  
In Steve Barnett's absence, Cynthia Mahan reviewed the Membership Education Report. She also indicated that due to job demands, Steve Barnett resigned and would no longer serve as the Membership Education Coordinator. A copy of his letter of resignation is included in the report.
- H. Web Editor Report Attached**  
Steve Bialkowski reviewed his report. He indicated that he will be out of the country for 6 months (Fulbright Fellowship). He indicated that this would not affect the operation of the SAS website. Steve also included some website statistics. There were emails to Steve (webmaster) concerning the design of the website. These concerns will be addressed. Joel Harris indicated that we need document identifiers added so that web search engines will access Applied Spectroscopy papers. There was discussion around having the website design done professionally.
- I. Membership Coordinator Report Attached**  
Bonnie Saylor indicated that Paige Eagan was expecting and that she would like to continue in her capacity as Membership Coordinator. Additional discussion regarding Membership Issues was deferred to New Business.
- J. Student Representative Report Attached**  
Student poster entries are down for this year. The 2005 FACSS Conference was too expensive for students to come. Lacey Averett is the new Student Representative to SAS.
- Dave Lankin moved and Robert Michel seconded that the reports of the Executive Committee be approved. No discussion, the reports were approved.
- V. National SAS Committee Reports**
- A. Awards Report Attached**  
Chris Hassell summarized the report. The recipient of the SAS Honorary Membership was Wolfgang Keifer. The recipient of the Distinguished Service Award was Rina Dukor.
- B. Constitution and Bylaws No Report**

- C. Local Section Affairs Report Attached**  
The Cleveland Section of SAS is the recipient of the Poehlman Award.
- D. Membership Attached**
- E. Nominating Committee No Report**
- F. Publications Report Attached**
- G. Publicity Report Attached**  
Deborah Bradshaw briefly reviewed her report, which focused on 1) becoming more visible at schools and colleges and 2) increased short-courses at meetings and conferences.
- H. Tour Speaker Report Attached**  
There are seven (7) speakers selected for this year's Tour Speaker program. The individual Sections will be contacted and asked to select the ones they are interested in having present talks.
- I. Meggers Award No Report**
- J. Strock Award Report Attached**  
Lester Russo / Lawrence Berkeley National Laboratories has been selected as the recipient of the Strock Award.
- K. Lippincott Award No Report**
- L. Tellers Report Attached**  
Dr. James de Haseth has been elected President of SAS.
- M. Fellows Committee Report Attached**  
Cynthia Mahan summarized the results. Professor James Holcombe will become a Fellow of SAS.
- N. Long Range Planning Report Attached**  
Robert Michel summarized his report focusing on FACSS, technicians as SAS members, and a proposal around protecting the Society's assets in a trust fund.
- Rebecca Dittmar moved and Robert Michel seconded that the National SAS Committee Reports be approved. No discussion, the reports were approved.
- VI. Delegate Reports**
- A. FACSS Report Attached**  
Robert Michel summarized the report. Discussion was heard.
- B. Chemical Heritage Report Attached**  
Marvin Margoshes has asked to be replaced as the CHF representative. Rebecca Dittmar

moved and Robert Michel seconded that the Delegate Reports be approved. No discussion, the reports were approved.

**VII. Unfinished Business**

**A. Applied Spectroscopy Ad Updates – Matt Bertholf Attached**

Matt Bertholf summarized his report. Ad revenue is down \$25,000 from last year. The loss is attributed to company acquisitions (Varian bought Digilab and Princeton Instruments bought Roper Scientific). A rebound for 2006 is anticipated. New advertisers have been signed. Getting Varian and Princeton Instruments to commit to ads in 2006 will be a goal. Kelly Colahan was introduced as the new SAS account manager.

**B. On-Line Journal – Paul Farnsworth Attached**

Abstract availability (allowing search engines to search abstracts posted to the internet) has increased article downloads (and contributing to download revenue). Statistics were provide in the attached report.

**C. FACSS LRP Committee Report – Mike Carrabba Attached**

Mike Carrabba, site selection chair of FACSS, presented a report on the selection of the site of FACSS for 2008. Based on input from SAS, efforts to minimize costs, especially for students, was made. Three sites: Reno,NV, Kansas City, MO, and Atlanta, GA were considered. Reno, NV appeared to be the best choice based on the cost analysis (attached).

**D. FACSS Issues – Cynthia Mahan Attached**

Cynthia Mahan reviewed the highlights of the FACSS-SAS Retreat (minutes attached). Also attached are the minutes of the FACSS Governing Board, March 1, 2005. Discussion around the proposal for 2008 and based on the Data presented was a ---thumbs up for Reno! Discussion was heard about the 2006 site in Orlando, FL at the Disney Resort Contemporary Hotel. It was felt that the room costs were too high. With respect to the FACSS – SAS retreat, it was felt that the meetings thus far have been successful and that the line of communication are good. There are still items that need to be accomplished. Robert Michel indicated that we need to see the agenda for the retreat in advance in order to respond effectively. Dave Lankin indicated that the retreats should be on-going in order to main good communication between SAS and FACSS.

Additional points were noted: More representation of the Long Range Planning (LRP) Committee and the Program Committee; the Membership Education Coordinator needs to interface with FACSS Workshop Committee; need names of possible recruits for these positions.

*FACSS LRP Committee* - Chris Hassell volunteered to be the SAS representative to the FACSS LRP Committee.

*FACSS-sponsored Young Investigator Award* – Nominations would be for non-tenured (assistant) professors with a 5-year track record. Three years is not enough of a track record for the award. Need to provide funding to run a symposium, which can contribute to the tenure process.

**E. Technical Sections – Bonnie Saylor Attached**

Bonnie Saylor provided an update on Technical Section activity.

AA Technical Section – Diane Beauchemin is organizing a meeting for the AA Technical Section.

Coblentz Society – Bob Messerschmidt set up a discussion area on the Coblentz website.

Joel Harris suggested that the Technical Section Chairs receive 1yr free membership in order to induce greater participation in the leadership of the Technical Section activities.

**F. Membership Issues**

Bonnie Saylor reported on a possible way of increasing membership by working with a company called INALINK. INALINK would conduct a phone campaign to contact members who have allowed their membership to lapse find out the reasons why and encourage them to rejoin SAS. This company has had quite a bit of success in regaining the membership of other organizations. The cost to SAS would be ~ \$3000.

Robert Michel moved and Chris Hassell seconded that we should work with INALINK to regain membership. Discussion followed and it was decided to amend the initial motion to restrict the membership contacted to just members who let membership lapse for 2005.

Chris Hassell moved and Rebecca Dittmar seconded that the initial motion be amended as above. After discussion the motion to amend passed.. The original motion was then voted on and it passed.

It was further suggested that INALINK should initially contact EC members as a “trial run” to make sure their approach to members is correct and appropriate.

**G. Inactive Local Sections – Bonnie Saylor**

Bonnie Saylor proposed that 5 SAS Sections be declared inactive. They are: Houston, Kansas City, Mid-Michigan, Pacific Northwest, Penn-York, and Toledo. We have not heard from most of these Sections since 2000.

It was moved by Rebecca Dittmar and seconded by Robert Michel that letters be sent to the above Local Sections declaring them inactive. The motion passed. Final approval must be obtained by the full Governing Board.

Joel Harris suggested that all members of the “inactive sections” receive copies of the notification letter and thus providing an opportunity for the members of the affected sections to respond and perhaps reorganize the affected sections for reinstatement.

**VIII. New Business**

**A. OSA Relationship – Cynthia Mahan**

A presentation was made by Elizabeth Rogan, Executive Director of OSA (Optical Society of America) for a closer relationship between OSA and SAS. OSA is an organization of 14,000 members and there are areas of similar interest where SAS would have a synergistic impact. Following their presentation, EC discussion of their proposal was heard.

Cynthia Mahan reviewed the proposal by OSA (Optical Society of America) for a closer relationship. We already have an OSA link on our website but the proposal calls for additional benefits to the membership which would include: a free copy of OPN (Optics and Photonics News) to SAS members, an opportunity for SAS to contribute content to OPN, an opportunity to offer Applied Spectroscopy to OSA members, opportunities for co-located technical meetings, SAS participation in Frontiers in Optics/OSA Annual Meeting, and reciprocal marketing and communication efforts.

The major reservation to this proposal was the potential for SAS to be “swallowed-up or absorbed” by OAS; i.e., SAS could lose its identity.

Additional points were brought up by EC for consideration were:

- bundling of Applied Spectroscopy with OSA journals to libraries
- optional discounted SAS membership for OSA members
- optional discounted OSA membership for SAS members
- a discounted membership of \$150 for membership in both SAS/OSA

joint participation in topical meetings  
access to the OSA journals on-line for SAS members

Further details would be pondered. The free copy of OPN would begin in 2006. Receiving OPN would still be an optional member benefit.

**B. Ted Rains Award – Bonnie Saylor**

Connie Raines (Ted Raines’ daughter) wanted to do something for his 80th birthday and an endowment would be made. This would be announced at this FACSS meeting in his honor It would be a \$1500 cash award. There was discussion around whether to give an additional award and whether this was a “one time award” or whether the family would continue funding this award.

Rebecca Dittmar moved and Robert Michel seconded that the By-Laws be amended to allow for more than one award be made to Graduate Students per year. The motion carried.

**C. Membership Education and CHF Representative – Bonnie Saylor**

Because Marvin Margoshes does not wish to continue as CHF representative, it was proposed that a new CHF Representative be sought. Two individuals, who live in the area of the CHF, are Cecil Dybowski (U. Delaware) and Dennis Walls.

Robert Michel moved and Rebecca Dittmar seconded to accept either Cecil Dybowski or Dennis Walls for the position of CHF representative.

Motion passed.

**D. Journal Editor – Bonnie Saylor**

Joel Harris’ term as editor of Applied Spectroscopy will be up next year. The options were to 1) recommit Joel Harris for an additional 3-year term or 2) seek a new editor for the Journal. Joel Harris indicated he wants to get the Focal Point articles back on track and would accept an additional 3 years as Journal Editor-in-Chief.

Dave Lankin moved and Robert Michel seconded that Joel Harris be reappointed as Editor-in-Chief of Applied Spectroscopy. After discussion, the motion passed.

**E. Budget Review and Approval – Chris Hassell**

Chris Hassell reviewed the proposed 2006 Budget. After discussion, Rebecca Dittmar moved and Deborah Bradshaw seconded to accept the budget as proposed. After further discussion, the motion was approved.

Rebecca Dittmar moved and Dave Lankin seconded to accept the CD option and to approve Chris Hassell's proposal that the monies placed in the CD not exceed \$600 K. After discussion, the motion passed.

**F. Other New Business**

It was moved ( Robert Michel ) and seconded (Chris Hassell) to give the international members of SAS the option of obtaining the Journal in electronic format ONLY at the US domestic price. Since there would be no printing costs and no mailing costs (international) this would be appropriate.

After discussion, the motion passed.

A question was raised regarding the "look and feel" of the SAS website. The question was whether to contact professional website developers to change the look of the SAS website and have Steve Bialkowski deal with the contacts for this service vs having Steve Bialkowski perform the website overhaul himself.

Steve will look at FACSS and private companies for quotes for upgrading the existing SAS website.

**Adjournment**

Rebecca Dittmar moved and Chris Hassell seconded that the meeting be adjourned. The motion carried. The meeting was adjourned at 4:57 p.m.

Respectively submitted,

David C. Lankin Secretary

**SAS TREASURER'S REPORT  
CHRIS HASSELL, MARCH 2006**

The audit for 2005 will take place beginning March 24<sup>th</sup>, so we do not have final audited figures. However, we do have draft financials from 2005, and once again, despite declining numbers for both subscribers and members, our final numbers look good.

Budgeted income for 2005 was \$766,100 and actual income is \$766,023 – thanks go to Bonnie for helping to set the budget and to all others for their work in realizing the income. Budgeted expenses for 2005 were \$778,600 and actual expenses were \$756,932.

An idea was briefly discussed at the last EC meeting regarding means to earn higher interest on the sustained funds in our sweep account. Among the options is a "CD Ladder," which is a collection of CD's with different maturity terms. Questions to consider include:

- **How much to place in CD funds?** Our average unrestricted funds balance is ca. \$750,000, so placing \$450,000 in a higher yield instrument should leave us with sufficient liquidity.
- **How often would we need/want access to funds (i.e., what is the desired roll-over term)?** The following sheet illustrates two scenarios using current interest rates.
- **Can we manage roll-overs through the SAS Office or would we prefer to have all managed by a third party?**
  - We would need to split a self-managed portfolio among different banks to maintain FDIC coverage.
  - I am in discussion with a few direct CD providers and third-party portfolio managers and will provide more information when this is complete.

Recommendation: Discuss areas of concern among EC, proceed with investigation of options for presentation to EC, then perhaps have interim vote before next EC meeting.

**EXECUTIVE DIRECTOR'S REPORT  
MARCH 2006**

**Membership**

Final 2005 Numbers

2005: 1869  
Membership Breakdown USA 1582 International 287  
Total New Members for 2005 225  
Total Student Members 184  
Total Not Renewed for 2005 309  
Registered for Online Journal 475  
Total Enrolled in a Local Section 1123  
Total Enrolled in a Technical Section 827  
Total Paid for Extra Section 65

**Current 2006 Numbers**

2006: 1464 (This time last year was 1457 )  
Membership Breakdown USA 1265 International 209  
Total New Members for 2006 58  
Total Student Members 120  
Registered for Online Journal 338  
Total Enrolled in a Local Section 800  
Total Enrolled in a Technical Section 759  
Total Paid for Extra Section 62

**Subscriptions**

**Final 2005 Numbers**

2005: 770 Subscriber Breakdown USA 625  
International 145  
Total New Subscribers for 2005 51  
Total Not Renewed for 2005 64  
Registered for Online Journal 426

**Current 2006 Numbers**

2006: 644 Subscriber Breakdown USA 512

International 132

This time last year our subscriber numbers were at 708  
Total New Subscribers for 2006 9  
Registered for Online Journal 338  
Signed License On File 232  
Paid for One-Year Back File Access 7 Paid for  
Permanent Back File Access 4

### Members and Subscribers

Membership was down once again in 2005 by almost 10%. This is the same percentage decrease as last year which has been fairly consistent over the years. On the bright side, we are ahead slightly in our numbers for 2006 as compared to this time last year. We have sent out second notices and will be using Inalink to make calls for our third renewals when we return.

Our subscriber numbers in 2005 were also down by about 10% over 2004. We have conducted several marketing campaigns already this year including a mailing to FACSS attendees, ICAVS Attendees, Winter Plasma Attendees, and the Spectroscopy Magazine mailing list. We had a successful presence at the Winter Plasma conference thanks to Debbie Bradshaw.

### Finances

Our audit is scheduled for the week of March 27th. Our accountant, MaryAnne Ohlhoff, has done the preliminary financials for 2005 and it looks like we will be in the black by roughly \$29,000. So, despite, our declining numbers, we continue to do well financially.

### Technical/Local Sections

The Atomic Section is the currently the most active section (not counting Coblenz). They are planning symposia for FACSS and also for PITTCO 2007. We are working to renew our affiliation with the Council on Near Infrared Spectroscopy so they will be one of our technical sections for NIR.

## REPORT TO SAS EXECUTIVE COMMITTEE JOEL M. HARRIS, JOURNAL EDITOR FEBRUARY 20, 2006

*Applied Spectroscopy* has run smoothly since our meeting in October. Last year, we published 2 accelerated papers, 178 regular articles, 7 spectroscopic technique papers, 11 Notes, 2 Feature Articles, and 1 Focal-Point article. Our total page count was identical to last year. The return/rejection rate for *Applied Spectroscopy* remains competitive with other top quality journals, averaging ~27% last year. Comparisons with previous year statistics are included on the attached table. We are holding steady with the total number of printed pages and research articles, and we currently are working diligently to revive the number of Focal Point articles. Thanks to the work of the Focal Point Editors, Ben Smith and Rina Dukor, and the help of the Editorial Board, who spent most of its last meeting discussing new topics and authors for this series, we have two Focal Point articles

already in press for 2006 and commitments from 16 additional authors for writing Focal Point articles for publication over the next two years. Suggestions for new topics and authors are always welcome.

The production costs for the journal are staying below budget thanks to continued aggressive management of manuscript quality, length, and color page costs, along with control of error costs in proofs, figures, and production, thanks to Rebecca Airmet. Rebecca has been editing manuscripts electronically, saving the Society about \$100 to \$200 per month. Electronic editing also saves the cost of press errors, improves our quality, and saves time spent in rechecking Proofs. In November, Rebecca switched to providing format-marked manuscripts electronically to Allen Press including equations, so that the papers are effectively typeset by Rebecca. This system is allowing a shorter time period between manuscript acceptance and print publication, currently only 2 months for regular submitted articles in the journal. This speed puts *Applied Spectroscopy* in the category of a rapid-communication journal, even for our regular articles! Accelerated papers can appear in print within 5 weeks after acceptance.

Allentrack, our new electronic manuscript submission, reviewing, and tracking system is running very smoothly. There have been very few complaints, and indeed, we have received a number of compliments from authors and reviewers alike. Delays due to mailing of manuscripts and reviews are a thing of the past, and our median response time (from manuscript submission to first editorial decision) is now just 44 days. Some papers receive two reviews in less than a week.

Thanks to the efforts of the Meggers Committee chair, Vahid Majidi, and his committee, the Meggers Award balloting was completed in early February, and the 2005 award paper is "Subsurface Probing in Diffusely Scattering Media Using Spatially Offset Raman Spectroscopy" by P. Matousek, I. P. Clark, E. R. C. Draper, M. D. Morris, A. E. Goodship, N. Everall, M. Towrie, W. F. Finney, and A. W. Parker. The paper appeared in the April 2005 issue of *Applied Spectroscopy* (Volume 59, Number 4, page 393).

As a follow-up to our initiative for developing cooperative publication arrangements with the Optical Society of America (such as bundling of our library subscriptions, addition of *Applied Spectroscopy* to OSA's Infobase of their journals), the OSA commissioned a review of *Applied Spectroscopy* with a committee consisting of present and past editors of OSA journals and distinguished scientists who are members of their long-range planning committee. It is rare event to have an 'external review' of a journal's operations, especially by a team of scientists and editors outside of our own society's committees and boards. Such a team can provide a fresh look at how we're doing from an independent perspective.

Attached is a report from the ad-hoc OSA committee that reviewed Applied Spectroscopy. The report is very encouraging, and the response of the OSA Board of Editors (the editors of all their journals) at their February meeting which I attended was unanimously enthusiastic. I believe that we can anticipate working on concrete proposals for journal sales partnering, pricing for a combination packages of OSA journals with Applied Spectroscopy, and posting of Applied Spectroscopy on OSA's InfoBase (web collection of all their journals). All of these initiatives should greatly increase our circulation into libraries bring much needed income to the SAS. There will be some hard work to do by the Publications and Executive Committees to work out fair pricing agreements with OSA. We can also plan on doing additional work on joint membership agreements, cooperation on topical meetings, and other fun projects.

#### APPLIED SPECTROSCOPY ANNUAL STATISTICS

	2002	2003	2004	2005
Focal Point Articles	4	7	2	2
Submitted Articles	208	190	190	178
Spectroscopic Techniques	6	11	6	7
Notes	16	22	15	11
Correspondence	2	2	2	0
Feature Articles	0	0	1	2
Total Articles Printed	240	236	220	201
Rejected manuscripts	60	59	35	50
Returned manuscripts	32	23	43	30
Total rejected and returned	92	82	78	80
Papers received for review	343	315	298	292
Total A-pages	343	364	362	308
Total manuscript pages	1662	1642	1536	1590
Total printed pages	2005	2006	1898	1898

#### OSA COMMITTEE REVIEW OF APPLIED SPECTROSCOPY 30 JANUARY 2006

This is the report of an *ad hoc* committee formed to review *Applied Spectroscopy* (AS), the journal of the Society of Applied Spectroscopy (SAS). The review is one of the preliminary steps toward a possible cooperative agreement between OSA and SAS. Committee members were sent several issues of *Applied Spectroscopy* and had access to the on-line version of the journal. The committee had a telephone conference on 18 January with Joel Harris, Editor-in-Chief, and Paul Farnsworth, Editor, of *Applied Spectroscopy*.

The committee members are: Thomas Baer, Incubic; Aristide Dogariu, CREOL; Paul Kelley, Tufts; Kevin

McNesby, ARL Aberdeen; Richard Miles, Princeton; Larry Rahn, Sandia Livermore.

The committee draws the following conclusions:

#### The articles are of high quality.

The research articles are comparable in quality to those appearing in OSA journals. A significant percentage of the articles represent the development and implementation of modern spectroscopic techniques for practical measurements. Methods used include novel techniques in Raman spectroscopy, *in situ* second harmonic generation, tunable laser spectroscopy, and thermal lensing. There are articles on new methods of numerical analysis and innovative computational techniques. Application areas include diagnostics in medicine and biology, drug detection, food quality measurement, combustion diagnostics, explosives detection, environmental monitoring, forensics, and the analysis of art objects.

#### Journal management is innovative and editorial and production standards are high.

The journal is well operated and the management is forward thinking. There are editorial representatives from outside the United States consistent with the large fraction of overseas authors. There is a good quality on-line interface to the journal articles and on-line technology is used in the review process. Featured review articles and the pages devoted to SAS news, meetings, and book reviews are attractive to SAS members. The print journal is a member benefit and its wide circulation is an incentive to advertisers. Regarding research articles, the quality of presentation of text, display math, and figures is comparable and, in some cases, better than that in OSA journals. There is appropriate use of color in a number of articles and the color cover is attractive and attention getting. Reviewing standards are similar to those for OSA journals. It is noteworthy that the time to publication is comparable to that of Optics Letters.

#### The content of the journal is consistent with OSA topics.

*Applied Spectroscopy* is primarily an optics journal. As is apparent from the paragraph on journal quality above, a substantial portion of the topical coverage of the journal is a subset of OSA technical topics. *Applied Optics* (AO) has topical editor coverage in this area and articles published in *Applied Spectroscopy* are pertinent to several technical groups of the Science and Engineering Council. There are OSA technical meetings that overlap with the AS subject areas.

#### The journal both complements and competes with OSA journals.

In its general character, *Applied Optics* is the closest OSA journal to *Applied Spectroscopy*. However, AO is five times larger in terms of pages published. The topical scope of AO is much broader and only a relatively small



fraction of published AO articles fall within the topical areas of AS. Further, the number of AO articles in AS topical areas is smaller than the number of AS articles. Thus, AS complements AO in the sense that it provides more complete coverage of spectroscopy applications. There is certainly competition for articles between AO and AS, just as there is competition between OSA journals for articles. Since the size of AS is small relative to AO and only a small fraction of AO papers are in the applied spectroscopy area, this does not seem to be a serious issue and, in any case, competition will persist whether or not there is collaboration between the two societies. It is also reasonable to think that the immense and growing popularity of *Optics Express* may make it the most serious competitor for these and other optics journals.

**It is advantageous for OSA Publishing to be associated with Applied Spectroscopy.**

OSA leadership considers emerging applications of optics as important for the future development of the Society. In particular, medicine and biology are seen as being among the most significant areas for the employment of optical techniques. While the precise nature of a possible affiliation between SAS and OSA has not been determined, there seems no question that an association between OSA journals and *Applied Spectroscopy* would be beneficial to OSA Publishing and OSA in general. This association would move the Society in a desired direction and broaden its position in applied optics. The inclusion of AS in Infobase and OSA subscription packages together with joint and cross marketing could be mutually profitable steps. The new on-line virtual biomedical optics journal would be enhanced by including papers from AS. AS could more than compensate for the loss of the translation journal *Optics and Spectroscopy*.

In summary, the ad hoc committee feels that Applied Spectroscopy has high quality articles in an important subfield of optics. Editorial management is excellent, reviewing is good, articles appear on a timely basis, and state-of-the-art publishing technology is used. An association between OSA Publishing and *Applied Spectroscopy* would be beneficial to both societies and would help move OSA in a desired direction. This association could also be part of a broader agreement between SAS and OSA.

**ONLINE JOURNAL REPORT  
PAUL FARNSWORTH**

I have no meaningful statistical summary of online journal usage to present. I started to collect data over a month ago to help Joel with his presentation to OSA. Ingenta posts data on two sites: Ingenta Select and Ingenta Connect. The relationship between the two sites is not clear to me, or, apparently to our account representative, Holly Rondeau. I have been trying unsuccessfully since I first downloaded the data to get a clarification on what the numbers mean. Holly's answers to my questions have

been uninformative. I have decided that no data would be better than bad data.

I will pursue this matter more aggressively with Ingenta, and when I have numbers that I believe, will email a summary to members of the executive committee and publications committee. I apologize for not having resolved the issue in time for Pittcon.

**NEWSLETTER EDITOR'S REPORT  
DAVID BUTCHER  
FEBRUARY 7, 2006**

Six issues of the newsletter have been published since our last report, as detailed in the table below. They have focused on our new SAS Student Representative, the FACSS 2005 Program, electronic submission of manuscripts to Applied Spectroscopy, and reports and awards from FACSS 2005. Dr. Leopold May of Catholic University has generously shared his list of "Historical Events in Spectroscopy" that has been included on a space available basis in the newsletter.

Issue	Topic
August 2005	Lacey Averett, New SAS Student Representative
September 2005	Final FACSS 2005 Program
October 2005	Electronic Submission of Manuscripts to Applied Spectroscopy
November December 2005	SAS Reports from FACSS 2005
January 2006	SAS Student Awards from FACSS 2005
February 2006	SAS Awards from FACSS 2005

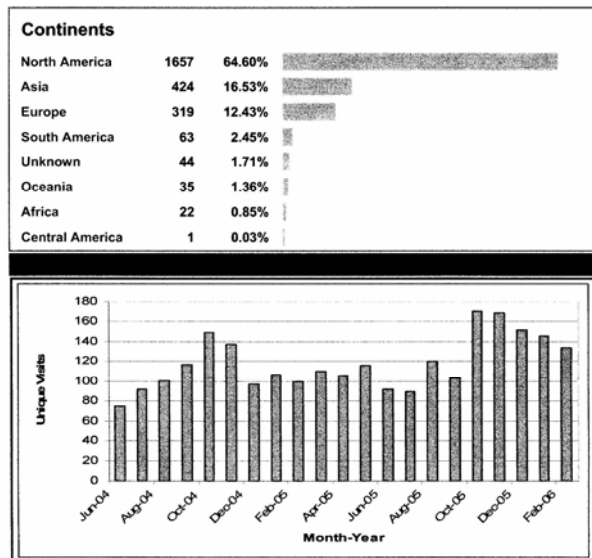
**WEB EDITOR'S REPORT  
FEBRUARY 26, 2006  
STEPHEN BIALKOWSKI**

The past six months have been spent performing routine maintenance on the Societies web site. This include keeping job postings, meeting posts, updating membership forms, society news, checking and verifying links, updating the Corporate Sponsor lists, links, and logos, and performing miscellaneous tasks such as deleting old content.

The only change to web site is that Journal titles and abstracts are not longer listed on the SAS web site. The link to titles and abstracts now connects to the Ingenta web site. A little more work was done on the Focal Point CD ROM. The content is up to date. The CD ROM will need to be updated periodically to include new Focal Point articles and SAS web-site content.

A new way to track web use has been running and there are now some reliable statistics for the number of times

the main web page is accessed. These are summarized below.



### SAS STUDENT REPRESENTATIVE REPORT LACEY AVERETT, SPRING 2006

Coming into this position I am excited to increase student involvement in the SAS. I plan to accomplish this by getting the student members to interact with each other through social events. In addition, I plan to organize another event which will attempt to increase the student members' professional skills.

Last year at PITTCON Debbie Serna organized a social event which was met with high student attendance. Due to the success of this event last year, I see it fit to continue the tradition by having a student social event this year. This event is for all students, as well as, anyone else that is interested in the SAS. It is a great opportunity for the student members to meet each other and to form contacts for later on in their careers.

After speaking with various students I found that there is a need for knowledge on professionalism. At FACSS I will be planning a lunch seminar on how to interview for a job. This will include tips for presenting one's self professionally, i.e. dress, mannerism, etc. Another discussion during the lunch will encompass resume/CV preparation. This discussion would give basic guidelines for the differences between a resume and a CV and the types of information that each should contain. I will be asking various SAS members to attend the seminar and to speak on the topics based on their personal experiences. I also believe it is important to incorporate academic, government, as well as, industry views on these subjects.

I am looking forward to being involved in the SAS and to further increase student involvement during my term as student representative.

### SAS AWARDS COMMITTEE REPORT CHRIS HASSELL (CHAIR), MARVIN MARGOSHES, JON CARNAHAN – MARCH 2006

The Awards Committee has received nominations and is pleased to recommend the following recipients of their respective awards:

Honorary Membership:	Charles Wilkins, University of Arkansas
Distinguished Service Award:	Joseph Caruso, University of Cincinnati

### CONSTITUTION AND BYLAWS REPORT SPRING 2006

#### ARTICLE XIV – COMMITTEES

SECTION 6. AWARDS COMMITTEE. This committee shall consist of a total of three (3) members. The chair-elect is appointed for a two (2) year term (as chair-elect and chair). There is no past chair. The other member of this committee serves for one year. The committee shall:

(c) administer the Graduate and Undergraduate Student Award, in accordance with Article XVI, Section 6 of the Bylaws and select the awardee from candidates recommended by the Local Sections, Technical Sections, or members at large of the Society.

#### ARTICLE XVI – AWARDS

SECTION 6. SAS GRADUATE AND UNDERGRADUATE STUDENT AWARD. ~~This~~ These awards ~~is~~ are given to a up to 2 graduate and up to 2 undergraduate students in recognition of outstanding research in the area of spectroscopy. Any full-time ~~graduate~~ student doing research in the field of spectroscopy shall be eligible for the award. The recipient shall be selected by the Award Committee as described in Article XIV, Section 6 of the Bylaws. The award shall consist of a plaque or scroll and an expense-paid trip to FACSS to accept the award. The Executive Director shall make all arrangements regarding travel, hotel, and registration expenses of the awardee. The Executive Director shall also inform the awardee of any limitations in the amount of money which may be spent on meals and miscellaneous expenses.

SECTION 9. FELLOWS This award is established to recognize individual members for their outstanding service to the field of spectroscopy. The award consists of a plaque and recognition at the SAS annual meeting. Twelve (12) fellows are selected each year. Nomination for the award of Fellow must be made by current SAS Fellows, the SAS Executive Committee, or the Fellows Committee. The committee shall review all nominations

and shall forward the award slate to the SAS Executive Committee for final approval. Fellows must continue to be members in good standing of the Society in order to maintain Fellow status. All Honorary Members of the Society shall be granted Fellowship automatically.

### **SAS NOMINATING COMMITTEE REPORT MARCH 2006**

Candidates for the office of President of the Society (alphabetically):

- Dr. Deborah K. Bradshaw
- Dr. John M. Chalmers

Candidates for the office of Secretary of the Society (alphabetically):

- Dr. Emil W. Ciurczak
- Dr. Timothy A. Keiderling

### **SAS PUBLICATIONS COMMITTEE REPORT FALL 2005 MEETING**

The meeting was held on Monday, October 10 12 noon-12:45 pm, at the Hilton Quebec Hotel, Lauzon Room. Present: Michael Morris, David Butcher, Carrie Lendon, Sue Evans Norris. Ex officio: Joel Harris, Paul Farnsworth, Bonnie Saylor.

The minutes of the 28 February meeting were approved. Applied Spectroscopy editor's report: Joel Harris reported that there is no requirement that international members receive the print edition of Applied Spectroscopy in addition to the on-line addition. It is an extra cost option. There has been an uptick in the citation index number for the journal. The journal backfile is now on line to 1970. There are 18 new commitments for Focal Point articles. Three were published last year. Paul Farnsworth reported at on-line Applied Spectroscopy abstracts have been available to the public since February. He is working on links from the table of contents directly to the abstract. The journal is considering implementation of web posting of articles as soon as accepted. (Articles ASAP).

Newsletter editor's report: David Butcher said that there have now been six issues of newsletter distributed by e-mail. E-mail distribution works well.

Web editor's report: Steve Bialkowski reported that an electronic discussion board is up and running on the web site. There is a public area that has received little use yet and a private area for the executive board. Affiliate societies are now properly listed. Design consultation is coming in the future. Unique hits on the web site peaked in October 2004 at 141. The average monthly hit rate is about 91/month.

Old Business: None

New business:

Kelly Calohan (Allen Press) updated the committee on journal production issues. In a discussion of the editorship of Applied Spectroscopy, Joel Harris indicated his willingness to serve another term, but said that it would be his last. David Butcher moved and Sue Evans Norris seconded recommending to the executive committee that Joel Harris be reappointed as journal editor. The motion was approved by application.

Representatives from the Optical Society of America discussed increased ties with SAS. OSA has offered to mail its news magazine Optics and Photonics News to SAS members and will bundle Applied Spectroscopy with its journals. It was generally agreed that strengthened ties would benefit both societies.

The meeting was adjourned at 12:45 P.M.  
Michael D. Morris  
Publications Committee Chair

### **PUBLICITY COMMITTEE REPORT DEBORAH BRADSHAW, MARCH 2006**

In 2005, we did get the publicity tri-fold flier updated and it is now being distributed. Also, we have made progress in becoming more visible at FACSS. You may have noticed that all FACSS literature now has a SAS branding. In addition, we are moving towards more recognition at FACSS with a symposium organized by the Atomic Spectroscopy Technical Section of SAS for FACSS 2006. With this visibility, we hope to increase membership in both the Society and the Technical Section. If successful, we would like to see other Technical Sections follow this lead!

Once again, Ramon Barnes provided a table for SAS at the exhibition of the Winter Plasma Conference (Tucson, January 2006). Bonnie and Allen Press provided information and journals to be displayed at the booth. There was a great deal of interest in the SAS table! I made sure the table was stocked with the information provided and it was necessary to replenish this twice a day. By Thursday morning, only about 15 journals remained for display! I believe it may be worth the experiment to have Bonnie attend the next conference (2008) to be more active in recruiting new members.

In addition, it should be considered by the Executive Committee having a table at the 2007 European Winter Conference on Plasma Spectrochemistry. The information has been passed to Bonnie, with a suggested contact of Joe Caruso.

### **2006 TOUR SPEAKER PROGRAM REPORT BRIAN C. SMITH, CHAIR, FEBRUARY 8, 2006**

Ten speakers agreed to participate in the program this year, as listed in my last report presented at FACSS in

Quebec City. Since then the chapters were polled and 13 responded with their preference.

Tour speakers have been assigned as follows:

Baltimore/Washington Deb Bradshaw  
Indiana, Snake River John Olesik  
Minnesota, Detroit Max Diem  
Cleveland, New England Jill Pateris  
Niagara Frontier Jim Holcombe  
Chicago, Piedmont Werner Gellermann  
Ohio Valley, St. Louis Richard Crocombe  
Intermountain Rina Dukor/Larry Nafie

Almost all speakers who volunteered have been assigned, and almost every section got their first or second choice. Chapter contacts and the speakers have been given each others' contact information, and finalizing dates and travel arrangements. I find it interesting that when presented with a variety of talk topics, almost all of them were the top choice of one section or another. Our membership has a wide range of spectroscopic interests. I would like to thank our volunteer speakers, our local section contacts, and Bonnie Saylor for being patient with me.

### **2007 TOUR SPEAKER PROGRAM REPORT JOSEPH SNEDDON, CHAIR, SPRING, 2006**

Below is list of the proposed speakers for SAS 2007 Tour for discussion/comments/approval. At this stage, I list their addresses, e-mail and tentative titles of their presentations. I would like to request permission to set up a timetable as follows:

1. Contact all tour speakers and request a short biography (academic credentials, research interests, etc), abstract of their presentations, and picture (head and shoulders) in April-June.
2. Once this package is in place, send to Bonnie (or appropriate person) for inclusion on web pages of the Society and Dave Butcher (editor) for inclusion in SAS Spectrum in July or so.
3. Contact all local sections, through e-mail with help of Bonnie, with program in late August with a deadline of October 15 or November 1. In this e-mail, I will provide the package and ask for ranking (1-7), date preferences, etc.
4. On December 1, have all the local sections and speakers set up dates, schedules, etc.
5. On December 15 or as soon as possible, provide SAS spectrum (Dave Butcher), web page of Society, and the journal (Applied Spectroscopy) for inclusion of the complete program. I would keep Joel Harris informed of time-frames to allow a rapid publication. Perhaps could be included in News Section (Deborah K. Bradshaw) or as a "spread" in an issue of (say) February 2007.

My original intent was to have a more ambitious program involving Canada, Far East (Korea and Japan), and Western Europe. However, Hurricane Rita blasted Lake Charles in late September. The University was closed for 5 weeks, three of our eleven faculty members did not return (increased teaching loads) and my home was hard hit.

Thank you for allowing me to chair 2007 Tour speakers program.

2007 Society of Applied Spectroscopy (SAS) Tour Speakers, Addresses, and Two Tentative Title of Presentations (except for E. Conte)

1. Dr. Steven Soper  
Department of Chemistry  
Louisiana State University  
Baton Rouge  
Louisiana 70803  
chsoper@lsu.edu  
a) Single Molecule Detection using Laser-Induced Fluorescence: Applications in Biomedicine  
b) Near-IR Fluorescence: Probes, Spectroscopy and Applications in Biology
2. Dr. Doug Gilman  
Department of Chemistry  
Louisiana State University  
Baton Rouge  
Louisiana 70803  
sdgilman@lsu.edu  
a) Light scattering and fluorescence detection for detection and characterization of individual submicron particles  
b) Optically gated vacancy electrophoresis: studies of electroosmosis and enzyme inhibition
3. Dr. Luis A. Colon  
Department of Chemistry  
SUNY-Buffalo  
Buffalo  
New York 14260-3000  
lacoln@buffalo.edu  
a) Putting pressure on HPLC: columns packed with sub 2 um particles  
b) New materials for monolithic columns for liquid chromatography
4. Dr. Mark M. Merchant  
Department of Chemistry  
McNeese State University  
Lake Charles, Louisiana 70609  
mmerchant@mcneese.edu  
a) The American Alligator: From Marsh to Medicine  
b) Isolation and characterization of antibiotic peptides from Alligators
5. Dr. Eric Conte  
Department of Chemistry

- Western Kentucky University  
Bowling Green, Kentucky 42101  
Eric.conte@wku.edu
- a) Pseudostationary Phases for Solid Phase Extractions
6. Dr. Barry K. Lavine  
Department of Chemistry  
Oklahoma State University  
Stillwater, Oklahoma  
bklab@chem.okstate.edu
    - a) Genetic Algorithms for Spectral Pattern Recognition
    - b) Swellable Molecularly Imprinted Polymer Nanospheres for Detection of Emerging Organic Contaminants Using Surface Plasmon Resonance Spectroscopy
  7. Dr. Paul Pantano  
Department of Chemistry  
University of Texas at Dallas  
Richardson  
Texas 75803  
pantano@utdallas.edu
    - a) Investigating the Intracellular Fate of Biocompatible SWCNTs
    - b) The Fabrication and Characterization of a Disposable Microscope Objective Chemical Sensor
  8. Dr. Andrew Ewing  
Department of Chemistry  
Pennsylvania State University  
College Park  
Pennsylvania  
age@psu.edu

**MEGGERS AWARD REPORT  
SPRING 2006**

It is official. The following paper is the Meggers Award recipient:

Matousek, P.; Clark, I.P.; Draper, E.R.C.; Morris, M.D.; Goodship, A.E.; Overall, N.; Towrie, M.; Finney, W.F.; Parker, A.W.; Subsurface Probing in Diffusely Scattering Media Using Spatially Offset Raman Spectroscopy, *V. 4*, P. 393.

**LESTER W. STROCK COMMITTEE REPORT  
RAMON BARNES, JOHN OLESIK, BILL LYNCH, MARCH 2006**

This year's Lester W. Strock award will be presented to:

Paul B. Farnsworth  
Department of Chemistry  
Brigham Young University

The Committee evaluated an outstanding set of candidates for the 2006 Lester Strock Award. Dr. Farnsworth was chosen as the 2006 winner for his important work to understand the complex fundamental

processes that control ICP-OES and ICP-MS signals and the implications of his findings on practical measurements. Paul consistently carries out difficult, elegantly designed experiments with superb quality that provide new, clear, often surprising, insights. Dr. Farnsworth will be recognized at the 2006 FACSS meeting in Lake Buena Vista, FL.

Among his outstanding publications are:

1. Macedone JH, Mills AA, Farnsworth PB, Optical measurements of ion trajectories through the vacuum interface of an inductively coupled plasma mass spectrometer, *APPLIED SPECTROSCOPY* 58 (4): 463-467 APR 2004
2. Macedone JH, Gammon DJ, Farnsworth PB, Factors affecting analyte transport through the sampling orifice of an inductively coupled plasma mass spectrometer, *SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY* 56 (9): 1687-1695 Sp. Iss. SISEP 30 2001
3. Farnsworth PB, Woolley A, Omenetto N, et al., Experimental studies of charge transfer reactions between argon and the third row metals calcium through copper in the inductively coupled plasma, *SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY* 54 (14): 2143-2155 DEC 31 1999
4. Patterson JE, Duersch BS, Farnsworth PB, Optically determined velocity distributions of metastable argon in the second stage of an inductively coupled plasma mass spectrometer, *SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY* 54 (3-4): 537-544 MAR 15 1999
5. Duersch BS, Farnsworth PB, Characterization of the ion beam inside the skimmer cone of an inductively coupled plasma mass spectrometer by laser excited atomic and ionic fluorescence, *SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY* 54 (3-4): 545-555 MAR 15 1999
6. Duersch BS, Patterson JE, Farnsworth PB, The effects of a torch shield on performance of the vacuum interface of an inductively coupled plasma mass spectrometer, *JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY* 14 (4): 615-619 APR 1999
7. Lazar AC, Farnsworth PB, Matrix effect studies in the inductively coupled plasma with monodisperse droplets. Part 1: The influence of matrix on the vertical analyte emission profile, *APPLIED SPECTROSCOPY* 53 (4): 457-464 APR 1999
8. Lazar AC, Farnsworth PB, Matrix effect studies in the inductively coupled plasma with monodisperse droplets. Part II: The influence of matrix on spatially integrated ion density, *APPLIED SPECTROSCOPY* 53 (4): 465-470 APR 1999