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The SAS Spectrum



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VOLUME 12 No. 1

JANUARY, 1967

ARCS and SPARKS



DR. WILLIAM F. MEGGERS
1888 — 1966

Published by the Ultra Carbon Corporation . . . for the advancement of Spectroscopy

Arcs and Sparks was the house organ of one of the two main sources of graphite electrodes for spectroscopists in North America in the period after World War II. The publisher started as United Carbon Products in 1946, and changed its name to Ultra Carbon in 1966; it is now the Ultra Carbon Division of Carbone America. The other major supplier was National Carbon. The products of the two suppliers were similar. Both, for example, purified the graphite by a process that was developed for the Manhattan Project, in order to make graphite suitable for use in nuclear

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reactors. They competed mainly in terms of service and good will. *Arcs and Sparks* was a way that Ultra Carbon sought the favor of spectroscopists.

Most house organs emphasize the company and its products. *Arcs and Sparks* included some material of that kind, but mainly it was about people, places, and events of applied spectroscopy. Carl Leistner traveled to conferences and laboratories, took photos, and did interviews. He was known to almost everyone in atomic spectroscopy, and he was well liked by all who knew him.

When Leistner retired, he gave SAS a collection of many photos, only some of which were published. Mike Epstein came upon this collection in the SAS Office when he was Newsletter Editor. He scanned the photos, put them on a CD together with a few photos from other sources, and made copies for a few SAS members. Epstein also

scanned a few issues of *Arcs and Sparks*, with my help.

In this issue of *The SAS Spectrum*, we reprint an article and some photographs from *Arcs and Sparks*, by permission of Carbone America.

It is my goal to scan as many issues of *Arcs and Sparks* as I can, and publish them on a CD together with the photos from the SAS archives, articles from this newsletter, and other material of historical interest.

I have thirty-four different issues at hand, most of them on loan. The earliest is from 1960, about five years after the first issues, and the latest from 1977. If you have copies of *Arcs and Sparks*, and you are willing to lend them to me for scanning or to scan them yourself, please send a list to me at the address on the front of this issue.

Marvin Margoshes

A Selection of Photos from *Arcs & Sparks*

Mostly from *The 1st National Meeting of SAS; X Colloquium Spectroscopicum Internatioanale University of Maryland, June 1962*



Arcs & Sparks was about people. When it covered a conference, there was usually a photo of the organizing committee. This photo is of the officers and committee chairs of the Xth Colloquium Spectroscopicum Internationale, which was also the 1st National SAS Meeting. From left to right: Bill Stahl, Registration; George Ashby, Publicity; Harry Rose, Arrangements; Hank Fales, Housing; Ellis Lippincott, Program; Bill Hench, Exhibits; Rita Lippincott, Ladies Program Chairman; Bob Michaelis, Recreation; Bourdon Scribner, General Chairman; Ted Zink, Translation Services; Andy Rekus, Finance; Marvin Margoshes, Secretary; Miriam Margoshes, Ladies Program Vice Chairman; Leopold May, Applied Spectroscopy Liaison. Not present for the photo: Al Bober, Treasurer; Ed Garlock, Social Events; Richard Stottler, University Liaison; and Grant Wheeler, Tours and Transportation. From Vol. 8, No. 3, October 1962.

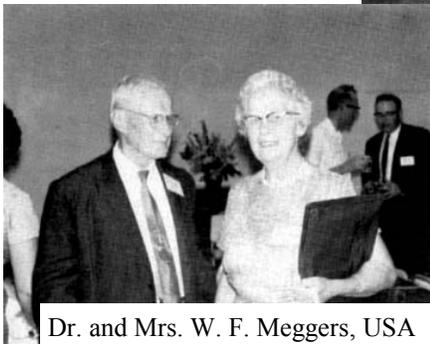


From the left: R. L. Moment, Belgium; G. Rossi, Italy; M. Neuilly, France; J. G. Artaud, France.



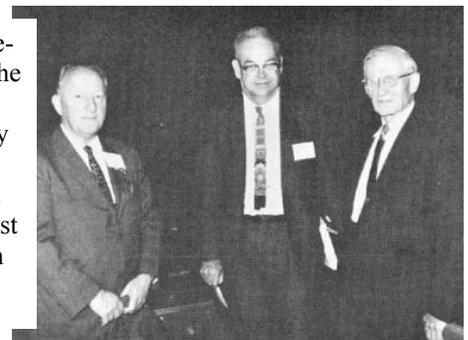
Prof. And Mrs. R. Grinfeld, Argentina, and Dr. and Mrs. W. Brode, USA

From left: A.Kvalheim, Norway, M. M. McRae, Scotland, and R. L. Mitchell, Scotland



Dr. and Mrs. W. F. Meggers, USA

This photo was taken at a Materials Research Symposium at the National Bureau of Standards, October 1966. Three Honorary Members of SAS, Lester W. Strock, E. S. Hodge, and W. F. Meggers. It is said to be the last photo taken of Meggers. From Vol.12, No. 1, 1967



From the 1977 FACSS Meeting, Peter Griffiths (right) presenting the Lippincott Award to Lionel Bellamy. From Vol. 22, Nos, 1 & 2, 1977.



Also from the 1977 FACSS meeting, these pictures show Karmie Galle, Andy Rekus, Jack Hurwitz, Carl Leistner, Truman Waugh, Charlie Allemand, and Oiva Joensun.



In a way a wedding announcement, this photo shows Carl Leistner and his bride, Jeanne, on a honeymoon combined with a working visit to the XVII CSI in Italy. From Vol. 18, No. 2, Fall-Winter 1973



This photo, from the 2nd FACSS Meeting, shows L. Casper presenting the Meggers Award to John Ferraro and Louis Basil. From Vol. 20, Nos. 1 & 2, 1975.

Documents from the October 21, 2003 Meeting of the Governing Board

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**GOVERNING BOARD MEETING MINUTES
TUESDAY, OCTOBER 21, 2003
MARINA MARRIOTT HOTEL - FT. LAUDERDALE, FL
MARLIN ROOM**

I. Call To Order President Laurence Nafie
President Laurence Nafie called the meeting to order at 8:05 PM.

II. Roll Call Secretary Jon Carnahan

President (VEC)	Laurence Nafie
President-Elect (VEC)	Robert Michel
Past-President (VEC)	Rachael Barbour
Treasurer (VEC)	Deborah Bradshaw
Journal Editor-in-Chief (EC)	Joel Harris
Journal Editor	Paul Farnsworth
Secretary (VEC)	Jon Carnahan
Web Editor (EC)	Steve Bialkowski
Newsletter Editor (EC)	Marvin Margoshes
Parliamentarian (EC)	Rebecca Dittmar
Member Education (EC)	Steve Barnett
Executive Director	Bonnie Saylor
Society Office Assistant	Barbara Stull
Administrative Affairs Associate	Victor Hutcherson
Membership - Past Chair	Chris Hassell

2003-2004 Members	Vasilis Gregoriou Bruce McIntosh David Moore Dale Perry (represented by Joel Harris) Sandra Thompson
-------------------	---

2002-2003 Members	Timothy Keiderling Don Pivonka
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Local Section Elected Members	David Butcher Peter Griffiths Doug Schrader
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Local Section Delegates	Chicago	Rina Dukor
	Intermountain	Paul Farnsworth
	Minnesota	Rebecca Dittmar
	New England	Matt Drury
	Pittsburgh	John Jackovitz

A quorum was present.

III. Introductions President Laurence Nafie

IV. Meeting Rules of Order Parliamentarian Rebecca Dittmar

V. Approval of the Minutes from the October 15, 2002 Governing Board Meeting
Approval was moved by Moore and seconded by Jackovitz. The Minutes were approved unanimously.

VI. Reports

A. President Report Attached
President Laurence Nafie. Among the items noted were that: the first international section moved towards initialization, the web site has been updated, there is now a new program for soliciting donations from members, the compact disc version of Focal Point is now available, and the SAS and the Pittsburgh Conference have initiated discussions regarding cooperative relationships and synergism. Nafie is finishing his term and expressed thanks to everyone involved who made his SAS service so enjoyable.

B. Secretary Report Attached
Secretary Jon Carnahan. The minutes comprise the Secretary's report. Carnahan's term expires at the end of 2003. Carnahan thanked everyone who had made his term enjoyable and rewarding. The special efforts and professionalism of the National Office were especially thanked.

C. Treasurer Report Attached
Treasurer Deborah Bradshaw. The society remains in good financial condition. Efforts to cut costs by Editor Joel Harris were applauded.

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D. Executive Director Report Attached
Executive Director Bonnie Saylor. The option to continue electronic balloting was discussed. The number of votes was down this year. Approximately 300 voted this year as opposed to the normal number of 450 to 500 voters. The possibility of sending out additional e-mail voting reminders was discussed. It was also speculated that electronic balloting information had been mistakenly filtered as e-mail spam. Additionally, it was mentioned that it would be beneficial to have a time slot at the SAS PittCon retreats where any GB member could attend and give input.

E. Journal Editor Report Attached
Journal Editor Joel Harris. Publication costs were reduced again in 2003. Rebecca Airmet is single-handedly responsible for saving approximately \$1500 to \$2000 per month by reducing the number of necessary error corrections. Science Citation Index figures are again up this year. However, our SCI ranking dropped from first to third in the Instruments and Instrumentation® category. A proposal to have *Applied Spectroscopy* abstracted in MedLine was discussed. The journal has great impact on the medical field. The Focal Point articles have now been packaged on a CD.

F. Newsletter Editor Report Attached
Newsletter Editor Marvin Margoshes. Publication of the printed and on-line versions of *The Spectrum* are continuing with success.

G. Membership Education Report Attached
Education Coordinator Steve Barnett. Efforts continue to work to offer electronic versions of lectures which could be made available on CD. Proposals to lower student registration costs for FACSS workshops have been discussed. There was somewhat of a problem in that both SAS and FACSS independently organized FT-IR courses. It was decided that the SAS course should be cancelled and the FACSS FT-IR course was offered.

H. Web Editor Report Attached
Web Editor Stephen Bialkowski. The web site has been updated and is now running smoothly. Information and statistics regarding usage are included in the report.

I. Student Representative Report Attached
2003 Student Representative Paige Eagan and 2004 Student Representative Debbie Serna. New student representative Debbie Serna was introduced. The Providence FACSS overall attendance was 1062, including 145 students. Of those, only 6 students attended workshops. Benefits to student members, student membership enhancement efforts, and student activities are included in the report. Eagan thanked everyone for the opportunity to be involved in SAS.

These reports were filed with the Secretary.

VII. National SAS Committee Reports

A. Awards No Report

B. Constitution and Bylaws Report Attached
Constitution and By-Laws Committee Chair Barbour(?). Verbiage has been modified indicating that the Saylor's proper title is Executive Director, not Executive Administrator. In addition, the changes indicate the new classification of SAS fellows and a number of other minor changes. Barbour noted that her term has expired and expressed thanks to all, with special praise to the National Office.

C. Local Section Affairs Report Attached
Committee Chair Mark Heitz. The Poehlman Award was granted to the Cleveland section. The Graduate Student Award recipient was Dev Chidambaram of the State University of New York at Stony Brook under the research direction of Professor Clive Clayton.

D. Membership No Report
Committee Chair Rajiv Soman.

E. Nominating No Report
Nominating Committee Chair Rina Dukor.

F. Publications Report Attached
Publications Committee Chair Mark Braiman. The Publications Committee has urged that the newsletter be published electronically only. The report endorses the proposal for abstracting *Applied Spectroscopy* in MedLine and highlights other old business.

G. Publicity No Report
Publicity Chair Mary Carrabba. The Publicity Committee will begin dealing with issues of informing the general public about spectroscopy.

H. Tour Speaker Report Attached
2003 Committee Chair Rebecca Dittmar. 2004 Committee work is completed. Among the 2004 speakers are Charlie Eads, John Rabolt, Neil Lewis, Neil Everall and Sandford Asher. 2005 Chair Joseph Sneddon submitted a report indicating that Michael Angel, James Beck, Jorge Gardea-Torresdey, Mitchell Johnson, Bradley Jones, Vahid Majidi, Kenneth Marcus, Gabor Patonay, Chieu Tran, Steven Soper and Troy Wood were lined up for that year.

I. Meggers Award Report Attached
2002 Chair Curt Marcott. The paper entitled A Generalized Implementation of Rapid-Scan Fourier Transform Infrared Spectroscopy Imaging® by Scott W. Huffman, Rohit Bhargava and Ira W. Levin, published in the August 2002 issue of *Applied Spectroscopy*, was selected for the Meggers award. The 2003 committee will be chaired by Eileen Skelly Frame.

J. Strock Award Report Attached
Chair Brian Smith. Ramon Barnes was selected as the 2003 Strock award winner for his work with flow field-flow fractionation as applied to inductively coupled plasma spectroscopy.

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K. Lippincott Award Report Attached
Chair Iona Black. Shaul Mukamel won the award which was presented at the 2003 meeting of the Optical Society of America. The 2004 award will be presented by the SAS.

L. Tellers Report Attached
Tellers Award Committee Chair Christine Patterson. Election winners for duties commencing in 2004 include: President-Elect Cynthia Mahan; Secretary David Lankin; and Governing Board Delegates Vasilis Gregoriou (International Delegate), Bruce McIntosh, David Moore, Dale Perry and Sandra Thompson. A concern was expressed because the number of voting members has decreased since electronic voting was instituted.

The reports were filed with the Secretary.

VIII. Delegate Reports Report Attached
Delegates Nafie, Barbour and Michel. The committee attended the March 12 FACSS Governing Board Meeting in Orlando, Florida. FACSS meeting site selection was listed for the years 2003 through 2007. Disbursement of surplus FACSS funds to member societies was discussed and 6-year FACSS attendance figures were given in the report. A proposal to realign the membership of the FACSS GB passed. A number of other issues were discussed, including; new science, video projectors, complimentary registrations, FACSS distribution of GB delegates, continuity of program chairs.

B. Chemical Heritage Foundation Report Attached
Delegate Marvin Margoshes. The search is ongoing for appropriate instrumentation contributions for the Instruments and Artifacts Committee of the Chemical Heritage Foundation.

The reports were filed with the Secretary.

IX. Unfinished Business

A. Budget Review and Approval
Schrader moved and Moore seconded that the submitted budget be accepted. The motion passed

B. Constitution and Bylaws Review and Approval
Barbour moved and McIntosh seconded that the Constitution and By-Laws suggested changes be modified in the Section 9 criteria for SAS Fellow Award consideration. It was agreed that the wording should read *Outstanding contributions* instead of *Outstanding service*. The motion passed. Moore moved and Griffiths seconded that the updated Constitution and By-Laws changes be accepted. The motion passed.

X. New Business
There was no new business.

XI. Date and Time of Next Meeting
The date and time of the next meeting will be 8:00 PM, Tuesday, October 5, 2004, at the FACSS meeting in Portland, Oregon.

XII. Adjourn

In a last act of defining and pointed leadership, Carnahan moved that the meeting be adjourned. Griffiths seconded the motion. The motion passed.



PRESIDENT'S REPORT

LAURENCE A. NAFIE

FACSS 2003 – FT. LAUDERDALE, FLORIDA

The year 2003 has been an important one for the Society of Applied Spectroscopy. During this year, the Society has strengthened its position in the spectroscopic community in a number of ways as it aligns itself to better face the challenges of the years ahead. Highlights of the Society accomplishments for this year include:

1. Published the journal *Applied Spectroscopy*, a world-class international journal that is ranked number one in the area of analytical instrumentation.

2. Opened discussions with the PITTCON organization to explore the ways SAS and PITTCON may cooperate to better achieve our mutual goals of advancing the science and application of atomic and molecular spectroscopy. Publicity of spectroscopy in the news and more attention to opportunities for students and young people to enjoy PITTCON were discussed.

3. Strengthened lines of communication between SAS and FACSS. In particular, SAS supported a proposal from an *ad hoc* committee to change the Governing Board delegate distribution to FACSS that resulted in an increase in the number of SAS delegates. This proposal was approved at PITTCON in March of this year. SAS now has three permanent delegates to FACSS instead of two, and every third year there will be a fourth delegate from SAS shared on a rotating basis with Coblenz and ACS.

4. Further developed Technical Sections as an additional member benefit. Technical Sections now being actively organized are: Biomedical, Process, Spectral Imaging, Chemometrics, Near-Infrared Spectroscopy, and Vibrational Spectroscopy (Coblenz membership), with additional ones in the planning stages.

5. Helped organize the creation of the first International Section of the SAS, SASEuro, based on the collective organization of European members of the SAS. SASEuro wrote its bylaws and embarked on the process of becoming a full-fledged section of the SAS. Special thanks goes to John Chalmers and his colleagues for their pioneering efforts in creating this section.

6. Supported graduate student members of the SAS by encouraging their attendance at PITTCON and FACSS and providing an opportunity for them to discuss concerns of interest such as career opportunities and employment in fields of spectroscopy.

7. Enhanced the content and appearance of the SAS Website. A new set of corporate levels of SAS membership was recently announced with advertising space on the SAS website. Higher levels of corporate membership now receive more prominent

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advertising space on the website.

8. Announced a new Member Donation Program than encourages members to consider donating to SAS in exchange for multiple-year or lifetime membership in SAS. In this way, SAS can strengthen its financial position and find more ways to foster the science and application of spectroscopy world-wide.

9. Improved electronic access to the content of the journal, *Applied Spectroscopy*. SAS is also working with the journal to develop a CD-ROM version of the popular soft-cover book of Focal Point articles covering the years 1994 to 1997. The CD-ROM would include, in addition, the Focal Point articles that have appeared in *Applied Spectroscopy* since the first book was published. Other items of interest to members may also be included on the CD-ROM and provided free of charge to all members of the SAS.

10. Announced the winners of several of its annual awards including: the Meggers Award, the Student Award, Honorary Membership and Distinguished Service Awards, and the Poehlman Award.

11. SAS is in the initial stages of developing a new brochure that highlights the many new and continuing benefits available to members of SAS.

Beyond these specific points of activity and accomplishment, SAS is continuously working to meet a variety of challenges that face the Society. These include increasing the membership of the Society, finding more efficient ways of running the committees of SAS, improving communication with and among graduate student members of SAS, and finding better outlets for the Technical Sections at meetings such as PITTCON and FACSS.

Finally, I would like to thank all those who have contributed to the success of SAS over the past year. This starts with the tireless efforts of the Executive Director, Bonnie Saylor, and her dedicated staff of Barbara Stull and Victor Hutcherson. I would like also to thank all members of the SAS Executive Committee and representatives to the Governing Board for their many thoughtful contributions to the Society. I finally, I would like to thank all those who accepted the task of participating as a volunteer on an SAS committee and who do so much to make the Society function in so many important ways.

Laurance A. Nafie



EXECUTIVE DIRECTOR'S REPORT

October 2003

Data

Membership

2003 to date: 2109

This time last year: 2281

Membership Breakdown USA 1725 International 384

Academic Non-Student: 471 Student 205 Non-Academic 1433

Total New Members for 2003 280 Total Student Members 203

This Time Last Year 270

This Time Last Year 197

Total Not Renewed for 2003: 569
Total Not Renewed Last Year: 456

2003 Registered for Online Access: 431
2002 Registered for Online Access: 385
2001 Registered for Online Access: 289

Total enrolled in Local Section: 1987
Total enrolled in Technical Section: 405
Total Paid for Extra Section: 73

Subscriptions

2003 To Date: 859

Last Year This Time: 943

Subscriber Breakdown USA 635 International 224

Total Not Renewed for 2003: 105 This Time Last Year: 120

Total New Subscribers for 2003: 30 This Time Last Year: 71

2003 Registered for Online Access: 374

2003 Signed License on File: 243

2003 No License on File: 131

2002 Registered for Online Access: 321

2001 Registered for Online Access: 273

Members (numbers based on similar time frames in Fall of each year)

2003 2109

2002 2281

2001 2391

2000 2420

1999 2755

1998 2,882

1997 3,023

Total New Members 2003 280 Total New Members 2002 299

Total New Members 2001 354 Total New Members 2000 303

Total New Members 1999 332 Total New Members 1998 407

Total New Members 1997 257 Total Not Renewed 2003 569

Total Not Renewed 2002 456 Total Not Renewed 2001 453

Total Not Renewed 2000 594 Total Not Renewed 1999 560

Total Not Renewed 1998 622 Total Not Renewed 1997 609

Subscriptions (numbers based on similar time frames in Fall of each year)

2003 859 2002 943 2001 976

2000 1013 1999 1068 1998 1153

1997 1291

Total Not Renewed for 2003 105

Total New Subscribers for 2003 30

Total Not Renewed for 2002 117

Total New Subscribers for 2002 50

Total Not Renewed for 2001 120

Total New Subscribers for 2001 71

Total Not Renewed for 2000 140

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2003 Budget and Expenses, and 2004 Budget

	2003 Budget	2003 as of October 14	Percent Used	Projections Till Year End	Total Inc/ Exp Pro-	2004 Pro- posed Budget
REVENUES						
Education Programs	\$6,000.00	\$15,192.02	253.20%	\$2,000.00	\$17,192.02	\$15,000.00
Focal Point Book	\$1,000.00	\$1,811.00	181.10%	\$100.00	\$1,911.00	\$1,000.00
Member Dues	\$155,000.00	\$153,345.50	98.93%	\$1,500.00	\$154,845.50	\$150,000.00
Journal Income	\$585,000.00	\$529,046.85	90.44%	\$50,000.00	\$579,046.85	\$592,200.00
Chapter Income	\$1,117.00	\$1,117.00	100.00%	\$100.00	\$1,217.00	\$1,200.00
General Contributions	\$3,000.00	\$8,547.18	284.91%	\$100.00	\$8,647.18	\$7,000.00
Investment Revenue	\$30,000.00	\$3,598.28	11.99%	\$4,000.00	\$7,598.28	\$10,000.00
Misc. Income	\$10,000.00	\$2,425.70	24.26%	\$500.00	\$2,925.70	\$2,000.00
Total Revenue	\$791,117.00	\$715,083.53	90.39%	\$58,300.00	\$773,383.53	\$778,400.00
EXPENSES						
Salaries	\$119,000.00	\$89,365.09	75.10%	\$25,000.00	\$114,365.09	\$125,000.00
Payroll Taxes	\$10,700.00	\$6,817.61	63.72%	\$4,000.00	\$10,817.61	\$11,000.00
Personnel Benefits	\$3,000.00	\$4,412.52	147.08%	\$500.00	\$4,912.52	\$4,500.00
Executive Committee	\$25,000.00	\$16,658.11	66.63%	\$12,000.00	\$28,658.11	\$28,000.00
Governing Board	\$3,000.00	\$0.00	0.00%	\$3,000.00	\$3,000.00	\$3,000.00
Membership Committee	\$200.00	\$0.00	0.00%	\$0.00	\$0.00	\$200.00
Other Committees	\$1,200.00	\$499.79	41.65%	\$700.00	\$1,199.79	\$1,200.00
Journal	\$466,200.00	\$275,075.27	59.00%	\$137,000.00	\$412,075.27	\$443,100.00
Newsletter	\$5,000.00	\$2,242.45	44.85%	\$2,300.00	\$4,542.45	\$5,000.00
Internet Services	\$2,000.00	\$1,082.65	54.13%	\$500.00	\$1,582.65	\$2,000.00
Member Services	\$7,000.00	\$8,579.37	122.56%	\$2,000.00	\$10,579.37	\$12,000.00
Member Education	\$6,000.00	\$9,649.88	160.83%	\$2,000.00	\$11,649.88	\$10,000.00
Awards	\$18,000.00	\$6,000.02	33.33%	\$12,000.00	\$18,000.02	\$18,000.00
Sections	\$27,000.00	\$3,282.73	12.16%	\$25,000.00	\$28,282.73	\$28,000.00
Conferences	\$8,000.00	\$3,765.41	47.07%	\$3,500.00	\$7,265.41	\$8,000.00
Member Acquisition/Ret	\$12,000.00	\$19,558.33	162.99%	\$200.00	\$19,758.33	\$15,000.00
Society Office	\$69,200.00	\$64,495.79	93.20%	\$5,000.00	\$69,495.79	\$70,000.00
Fundraising	\$0.00	\$784.91		\$0.00	\$784.91	\$300.00
Financing Expenses	\$4,500.00	\$3,847.59	85.50%	\$800.00	\$4,647.59	\$4,600.00
Depreciation Expenses	\$4,000.00	\$986.26	24.66%	\$300.00	\$1,286.26	\$2,000.00
Total Expenses:	\$791,000.00	\$517,103.78	65.37%	\$235,800.00	\$752,903.78	\$790,900.00
NET ORDINARY INCOME	\$117.00	\$197,979.75	169213.46%	(\$177,500.00)	\$20,479.75	(\$12,500.00)
OTHER INCOME/						
SUSPENDED TRANS	\$0.00	\$0.00	0.00%	\$0.00	\$0.00	\$0.00
CHAPTER DIST ADD	\$12,500.00	\$0.00	0.00%	(\$12,500.00)	(\$12,500.00)	(\$12,500.00)
TOTAL OTHER EXPENSE	\$12,500.00	\$0.00	0.00%	(\$12,500.00)	(\$12,500.00)	(\$12,500.00)
NET OTHER INCOME	\$12,500.00	\$0.00	0.00%	\$12,500.00	\$12,500.00	\$12,500.00
NET INCOME	\$12,617.00	\$197,979.75	1569.15%	(\$165,000.00)	\$32,979.75	\$0.00

(Continued from page 7)

Total New Subscribers for 2000 59
 Total Not Renewed for 1999 138
 Total New Subscribers for 1999 52
 Other year's numbers not available.

Members and Subscribers

Renewal notices for members and subscribers have all been mailed. We are offering a discount for early bird renewals. We have done numerous comeback campaigns.

The subscription agent Divine/RoweCom filed bankruptcy but not before taking money for subscriptions from various institutions. Unfortunately, they took the money but did not pass it on to the publishers, thereby leaving many institutions and publishers out in the cold. We have sent out correspondence to our affected institutions and have graced those who signed a publisher agreement with us for 2003. Some are impossible to contact because we only have a mailing address for the agency. We hope to recoup in 2004.

Marketing

We have completed several mail marketing campaigns this year including mailings to non-member authors, EAS 2002, PITTCON 2003, Biophysical Society Members, Coblenz Members, Science Direct mailing list, Winter Plasma 2003. Additionally we had a presence at PITTCON and EAS. We also will be at Winter Plasma in 2004..

To give you an idea of the numbers we get from various promotions, the following is a breakdown for 2000, 2001 and 2002 of what we have gotten so far (Please note that within the Secure Server and WWW are also renewals).

Corporate Sponsors

We currently have 23 corporate sponsors which is three more than we had last year.

Finances

The budget has been prepared and will be presented by Debbie Bradshaw.

Local and Technical Sections

Local sections continue to struggle with getting volunteers to serve as officers and with getting people to attend meetings. This is an ongoing problem in all industries as people are being asked to work more and have less free time. Technical sections have had a bit of a slow start, but we are hoping that they will take off in 2004. The following is a breakdown of membership in technical and local sections. (Table on next page.)

Election

For 2001		For 2002		For 2003	
PROMO CODE	Count	PROMO CODE	Count	PROMO CODE	Count
½ Year	69	½ year	25	½ year	69
Brochure	20	Coblenz	2	Authors	6
Come Back 01	3	Corp Spons Comp	26	Biophysical 03	1
Corp Spons Comp	29	Corp Spons Emp	2	Brochure	19
Corp Spons Comp	2	Free Rec (needy)	30	Coblenz	1
Corp Spons Emp	2	MGM	11	Comp	1
FACSS	51	Paige Eagan	1	Corp Spn Comp	21
Laser 01	11	PITTCON	28	Corp Spons Emp	4
MGM	14	Science Direct	13	EAS 02	20
PITTCON	31	Secure Server	279	EAS Booth 02	6
Secure Server	121	Student Poster	6	Email	3
SPECMAG 01	19	Student Award	4	FACSS 03 Reg	1
WWW	96	Winter Plasma	11	FAX	7
		AIC	1	Focal Pt. Form	1
				Free Rec	18
				Icors 02	1
				Invoice	4
				MGM 03	2
				OTR BIRS	19
				PITTCON Booth	17
				SAS Patron	1
				Secure Server	320
				Student Poster	4

We were pleased with the smoothness of the electronic election despite the fact that the number of folks voting went a down again. I am afraid we may have to reconsider if we want to continue with this way of voting. We received mostly compliments on being able to vote this way and very few complaints this year.

Other

We stuffed and mailed wine and cheese invites, election ballot material, fax permission forms, individual corporate sponsor forms, final member and subscriber renewal notices, 2003 member and subscriber renewal notices, corporate sponsor promotion mailings, author mailings, and all other member marketing mailings.



Journal Editor's Report

October 11, 2003

Applied Spectroscopy has run smoothly since our last meeting in March. Last year, we published 4 accelerated papers, 210 regular articles, 6 spectroscopic technique papers, 16 Notes, and

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Description	Count	TS	Description	Count
International	300	AS	Atomic Spectroscopy	105
Baltimore Washington	134	BM	BioMedical	22
Chicago	141	BT	Bio Tech	13
Cincinnati	48	CH	Chemometrics	35
Cleveland	53	FL	Fluorescence	27
Delaware Valley	76	FO	Forensics	15
Detroit	39	IM	Imaging	34
Houston	70	LS	Laser Sampling	11
Indiana	38	NI	Near IR	46
Intermountain	18	NM	NMR	15
Kansas City	28	PC	Polymer Characterization	17
Milwaukee	1	PR	Process	21
New England	154	VI	Vibrational/Coblentz	44
New York	167			405
Niagara Frontier	14			
Northern California	53			
Ohio Valley	27			
Pacific Northwest	37			
Penn York	13			
Pittsburgh	46			
Rocky Mountain	42			
St. Louis	26			
Southern California	84			
Rio Grande	42			
Minnesota	56			
Arizona	24			
Piedmont	149			
Mid Michigan	16			
Toledo	4			
Reading	10			
Snake River	18			
Other US	8			
Canada	51			
	1987			

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4 Focal-Point. Our page count was 1661 pages in the research section and 344 in the A-pages. This is a slight decrease from the year 2001, when we published 1762 pages in the research section and 408 A-pages. Given the tight financial climate for the Society, this slightly smaller page count has saved some production expense for the journal. The return/rejection rate for *Applied Spectroscopy* remains competitive with other top quality journals, and averaged —28% last year. The production costs for the journal are staying within budget, thanks to continued aggressive management of manuscript quality, length, and

color page costs.

We are currently holding the lead time from manuscript acceptance to publication at 4.5 months. Over the course of the last year, Rebecca Airmet has made many positive changes affecting the production, quality, and the financial bottom line. Despite some production problems at Allen Press with the January and February issues (these have been ironed out), the Journal has mailed on time since July of last year. The past four issues have mailed *before* the official month of publication. The number of errors found at the galley proof stage has dropped from 500 to 600 per month over a year ago, down to the low one hundreds last year, and for the months of February through July, Rebecca has kept down to double digits. This quality control translates to a savings in production costs of \$3 per error or \$2,000 per month. In addition, she has also reduced figure replacements from 6 or more per issue last year to only one or two per issue currently, saving another \$100 per issue. Rebecca has begun editing manuscripts electronically, which saves the Society another \$1 00-200 per month. The electronic editing process also saves money in terms of press errors, improves our quality, and saves time spent in rechecking Proofs. Rebecca is developing a proposal to provide marked manuscripts electronically to Allen Press, which will translate into a shorter time period between manuscript acceptance and publication.

The quality and impact of *Applied Spectroscopy* are strong as reflected in the citation statistics for articles that we publish. Quoting data from SCI's Journal Citation Reports for the most recent years available, *Applied Spectroscopy* has averaged a Citation Impact Factor of 1.888 for the past four years available, 1999 through 2002. This factor is the number of times that articles published in the past three years were cited during the year in question. The Citation Impact Factors for three of the last four surveys have ranked us #1 in the world for journals in the "Instruments and Instrumentation" Subject Category. The articles in *Applied Spectroscopy* have immediate impact as reflected in Citation Reports' Immediacy Index which averaged 0.27 for the past three years. This index indicates that 27% of the articles in the journal are cited during the same year in which they are published. Despite their impact on current research, papers published in this journal do not lose influence over time. The citation half life of the journal is currently 7.3 years meaning that scientists continue referring to our papers for many years following publication.

A proposal to the National Library of Medicine to have *Applied Spectroscopy* abstracted in MedLine was sent to the NLM Literature Selection Technical Review Committee for consideration (copy attached). Included in this proposal was a listing and summary of the 268 papers published from 1995 through 2002 that impact medical research, diagnosis, and clinical practice and strong letters of support from Ira Levin, Rebecca Richards-Kortum, Max Diem, Mike Morris, Mark Arnold, Ken Schenkman, and Babs Soller. If we are successful with this proposal effort (it is scheduled for review when the Panel meets this month), it will provide us a boost for attracting biological and clinical spectroscopy papers to the journal and for promoting

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SAS membership and journal subscription growth.

Thanks to the efforts of the Meggers Committee chair, Curt Marcott, and his committee, the Meggers Award balloting was completed in time to allow the 2002 award paper by Scott W. Huffman, Rohit Bhargava, and Ira W. Levin titled "Generalized Implementation of Rapid-Scan Fourier Transform Infrared Spectroscopic Imaging" to be featured at an award symposium this fall at FACSS. This paper appeared in the August 2002 issue of *Applied Spectroscopy* as an accelerated article.

Five years have passed since publication of our first Focal Point book, which covered 1994 to 1997. Our first book represented a lesson in producing "other publications" for the Society. We printed 2000 copies in full color for a total cost of \$24,746. We sold —800 copies and have given others away as incentives for joining the Society; the sales recouped about \$16,000 of our original investment. An alternative publication format for a 2nd volume is a CD containing PDF files dating from 1997 when the electronic files became available. This proposal was brought before the Publication Committee at its meeting in Providence and approved. Stephen Bialkowski volunteered to collect and organize the material, which included the Meggers Award papers, Focus on Careers, and material about the Society from the SAS web pages. These can be produced at a modest cost, —\$1.20/ea in lots of 500. Copies of the CD will be distributed to the EC, the Governing Board, Editorial Board, Publications Committee, and to new members at the SAS Booth at FACSS.

Finally, John Bertie will be stepping down in January from being our Associate Editor for Canada for the past 6 years. Mike Blades has accepted appointment as a Editor for Canada effective in January. In addition, Katrin Kneipp (Harvard Medical School) is a new appointee to the Editorial Board.

Joel M. Harris

ATTACHMENT

March 24, 2003

Mr. Sheldon Kotzin
National Library of Medicine
Building 38A; Room 4N 419
9000 Rockville Pike
Bethesda, MD 20894

Dear Mr. Kotzin:

This letter is a part of a formal application for indexing the journal *Applied Spectroscopy* in MEDLINE. Since its founding over fifty years ago, this journal has been the leader in the field of new spectroscopic instrumentation and the development of spectroscopic methods for chemical analysis. As biomedical researchers have entered these fields over the past twenty years, many of them have chosen *Applied Spectroscopy* to publish their most important experimental results. Many of these articles report new spectroscopic techniques that impact structural analysis of biological molecules, the detection of drugs and their metabolites, the sequencing of DNA and proteins, the chemical imaging of cells and tissue, and the investigation and diagnosis of disease. The journal is preferred medium for re-

porting advances in spectroscopic methods for non-invasive and point-of-care monitoring of blood glucose, pH, oxygen saturation, and metabolic profiles. The leading papers in Raman and infrared optical activity measurements, where the tertiary structures of biological molecules can be detected in specific vibrational bands, are published in *Applied Spectroscopy*. Pioneering research in the detection and imaging of single biological molecules by fluorescence emission and Raman scattering is published in this journal. The impact of *Applied Spectroscopy* in the field of spectroscopic tissue histopathology has been especially significant because of the journal's strength in vibrational spectroscopy and its defining position in spectroscopic imaging. As evidence of this influence, the Optical Society of America is publishing a collection of key research articles in "Optical Biopsy" edited by Barry Masters and Robert Alfano; five of the articles selected for this collection were originally published in *Applied Spectroscopy*.

The journal is published by the Society for Applied Spectroscopy, a non-profit international scientific society of 2400 members headquartered in Frederick, MD. The editors and editorial board members are prominent spectroscopists chosen for their expertise in the broad range of topics covered by the journal. All published papers are peer-reviewed by leading scientists from the U.S. and other countries; the journal maintains a list of 410 active reviewers. Manuscripts are generally reviewed within six weeks of receipt and appear in print within four months of their being accepted for publication. Accelerated review and publication are available for papers of unique timeliness and impact. The journal publishes occasional errata as well as peer-reviewed correspondence (exchange of comments) to allow corrections to be made and critical viewpoints to be expressed. To maintain the quality of the science that is published in the journal, reviewing standards are high, as reflected in a manuscript rejection rate that has averaged 31% for the past three years. The citation statistics for *Applied Spectroscopy* are also strong; *Journal Citation Reports* listed an Impact Factor for the journal that averaging 1.92 for the past 3 years. These results ranked *Applied Spectroscopy* #1 among all journals in the "Instruments and Instrumentation" subject category for the past 3 years.

Applied Spectroscopy is distributed in both print and electronic forms. The electronic edition is hosted by Ingenta and EBSCO. The full-text searchable journal file is provided with current subscriptions, back through the 1997 volume. *Applied Spectroscopy* is a member of CrossRef, a major source for electronic reference linking. Through our electronic-edition host, Ingenta, the Society for Applied Spectroscopy has joined the publishers of more than 6,000 journals that currently participate to cross-link their references electronically.

The journal prints advertising in its news section (A-pages), and the Society accepts financial support from corporate sponsors. Advertisers and sponsors are generally vendors of instruments, supplies, and software for spectroscopy. They have *no influence* on the editorial content of the journal. To guard against other conflicts of interest, the journal expects that financial support of

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following year's performance review.

ARTICLE V - EXECUTIVE ADMINISTRATOR DIRECTOR

The Executive Administrator Director shall:

ARTICLE VIII - ALLOCATION OF DUES

SECTION 1. The dues collected from the Regular Members, Student Members, Retired Members and promotional memberships shall be allocated as follows:

Account of the Society 85%

Local Section or Technical Section per member's choice 15%

The Local Section or Technical Section allocation shall be calculated by the Executive Administrator Director and forwarded to the Treasurer of the Local or Technical Section with which the member is affiliated upon receipt of the completed Local or Technical Section annual activity questionnaire provided by the Society Office.

ARTICLE IX - DISBURSEMENT OF FUNDS

SECTION 1. Regular budgeted expenses of the Society shall be paid or authorized by the Treasurer. Nonbudgeted payment to private individuals shall be paid only upon receipt of a proper voucher processed by the Executive Administrator Director and found in compliance with Society expense guidelines. All expenses must be submitted to the Society office within 30 days of the event or travel dates in order for reimbursement to occur.

ARTICLE X - PUBLICATIONS

SECTION 5. The following provisions apply to *Applied Spectroscopy*:

(g) The Society for Applied Spectroscopy shall own the copyright for the original and any renewal term thereof of any manuscript of an author that is published by the Society. The author of any such manuscript shall have the right to make a nonprofit or noncommercial use of the work provided that he/she affixes to each copy the copyright notice used by the Society when the manuscript was first published. The author shall have the right to make or authorize any for-profit or commercial use of any such writing only after first obtaining the written consent of the Executive Administrator Director.

ARTICLE XI - ELECTIONS

SECTION 2. The Executive Administrator Director shall prepare a ballot listing candidates for At-Large Governing Board Members and the respective offices who have been nominated according to procedures defined in Article XIII, Section 11. The ballot shall give such information about each candidate as is necessary to identify him/her clearly. The ballot shall have a provision for write-in for each office. The Executive Administrator Director shall mail a ballot to each voting member of the Society *or, in the case of electronic balloting, shall mail a paper ballot to any member that requests one.* The Executive Administrator Director shall include an envelope for return of the ballot and a second envelope marked "Ballot" to be opened by the Tellers after verification by the Executive Administrator Director. The ballot shall specify the date of closure of the elections.

SECTION 3. At the termination of the election the Executive Administrator Director shall open the letters and give the bal-

lots to the Tellers for counting. The Tellers shall give the President a signed statement of the count. The ballots shall be held at the Society Office until the end of the current fiscal year.

ARTICLE XII - LOCAL SECTIONS

SECTION 2. The Secretary in each Local Section shall inform the Executive Administrator Director of the results of the annual election of officers in his/her Section and shall register the names of delegates and alternate delegates to the Governing Board.

ARTICLE XIV - COMMITTEES

SECTION 1. STANDING COMMITTEES. The standing committees of the Society are: Awards, Constitution and Bylaws, Local and Technical Section Affairs, *Long Range Planning*, Membership, Nomination, Publications, Publicity, Tellers, Tour Speakers, *Applied Spectroscopy* William F. Meggers Award, Lester W. Strock Award, and Lippincott Award. Details of the Meggers Award Committee, the Lester Strock Committee, and the Lippincott Award Committee are in Article XVI, Sections 3, 4, and 8 respectively, of the Bylaws.

SECTION 4. FACSS DELEGATES. In addition to the standing committees of the Society, the Society sends three (3) delegates to the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS). The President, Past President and President-Elect, who serve on the Executive Committee, will automatically serve as delegates. The Past President shall submit a written report to the Executive Administrator Director for distribution forty (40) days prior to each regularly scheduled Governing Board meeting. This report summarizes the previous FACSS Governing Board meeting.

SECTION 5. COMMITTEE REPORTS. Each committee chair shall submit a written report of committee activities and recommendations to the Executive Administrator Director for distribution forty (40) days prior to each regularly scheduled Executive Committee or Governing Board meeting, except as noted below.

Section 9. LONG RANGE PLANNING COMMITTEE. This committee shall consist of a total of five (5) members to include the five most recent past president's of the Society. The chair shall be the immediate past president. This committee shall meet to strategize for the long term health and well being of the Society.

SECTION 10. FELLOWS COMMITTEE. This committee shall consist of a total of three (3) members comprised of existing Fellows. The chair-elect is appointed for a 2-year term as chair-elect and chair. There is no past chair. The other member of the committee serves for one year. This committee shall evaluate persons for the award of Fellow in accordance with the rules outlined in Article XVI Section 9.

Section 9 II. Membership Committee

RENUMBER SECTIONS THAT FOLLOW ACCORDINGLY
SECTION 11 12. PUBLICATIONS COMMITTEE. This committee shall consist of a total of five (5) members. The chair-elect is appointed for six (6) year term (as chair-elect for two years, chair for two years, and past-chair for two years). Each year one other member is appointed for a two (2) year term. This committee shall:

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(a) serve in an advisory capacity to the Editor-in-Chief of the Journal, the Newsletter Editor, and the Executive Administrator Director regarding *Applied Spectroscopy*, the Newsletter, and other publications undertaken by the Society.

SECTION 12 13. PUBLICITY COMMITTEE. This committee shall consist of a total of five (5) members. The chair-elect is appointed for a three (3) year term (as chair-elect, chair, and past-chair). Each year one other member is appointed for a two (2) year term. This committee shall assist the Executive Administrator Director in making known the activities and objectives of the Society through the appropriate channels and assisting Local *and Technical* Sections in these matters as requested.

SECTION 14 15. TOUR SPEAKERS COMMITTEE. This committee shall consist of a total of three (3) members. Each member is appointed for a three (3) year term culminating in his/her year as coordinator. This committee shall:

- (a) select speakers for the Tour Speakers Program.
- (b) submit its selections to the Executive Administrator Director by September 1 for the following year's spring Tour Program and may advise and assist him/her in coordinating the tour.

ARTICLE XVI - AWARDS

SECTION 1. The Society may administer awards recognizing accomplishments in the field of spectroscopy or related to promoting the objectives of the Society. These awards may be sponsored by the Society or other corporations. The preparation of the certificates and program arrangements for presentation of the awards shall be the responsibility of the Executive Administrator Director.

SECTION 3. APPLIED SPECTROSCOPY WILLIAM F. MEGGERS AWARD. The selection committee consists of four (4) members total, the chair, a chair-elect, the Editor-in-Chief, and one (1) other member. The chair-elect is appointed for a two (2) year term (as chair-elect and as chair). Each year one other member is appointed for a one (1) year term. There is no past-chair.

The chair of the committee shall notify in writing the Society for Applied Spectroscopy President, Secretary, and Executive Administrator Director of the name(s) of the committee's selection by February 15 of the year following the year in which the paper appeared in *Applied Spectroscopy*.

This award is given to the author(s) of the outstanding paper appearing in *Applied Spectroscopy*. It is awarded at the Society for Applied Spectroscopy award ceremony held at the fall meeting following the calendar year of publication and shall consist of a scroll and an honorarium of \$500.00. The honorarium shall be shared equally in the case where the paper has more than one author. Financial assistance may be provided by the Society for Applied Spectroscopy. Arrangements must be approved by the Executive Administrator Director.

SECTION 4. LESTER W. STROCK AWARD. The selection committee shall consist of three (3) members total, a chair, a chair-elect, and the chair-elect of the New England Section or his/her appointee. The chair-elect is appointed for a two (2) year term (as chair-elect and as chair). There is no past-chair. The committee chair shall notify the Executive Administrator Director of the committee's selection by February 15. The

award shall be presented at the Society for Applied Spectroscopy award ceremony held at the fall meeting by the New England Section committee member or his/her representative.

SECTION 5. DISTINGUISHED SERVICE AWARD. This award is established to recognize individual members for their long-time service to the Society. The Award consists of an engraved plaque and a lifetime membership in the Society. This membership shall include all the privileges and rights of a regular member. The award shall be presented at the Society for Applied Spectroscopy award ceremony held at the fall meeting. Nomination for the Distinguished Service Award may be made by Local Sections or the Executive Committee and forwarded to the Awards Committee or by the Awards Committee. The recipient shall be selected by the Awards Committee as described in Article XIII XIV, Section 6 of the Bylaws.

SECTION 6. SAS GRADUATE STUDENT AWARD. This award is given to a graduate student 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 Local Section Affairs Committee Awards Committee as described in Article XIV, Section 8 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 Administrator Director shall make all arrangements regarding travel, hotel, and registration expenses of the awardee. The Executive Administrator Director shall also inform the awardee of any limitations in the amount of money which may be spent for meals and miscellaneous expenses.

SECTION 9. FELLOWS *This award is established to recognize individual members for their service to the Society and for their exceptional contributions to the field of spectroscopy. The award consists of a plaque and recognition at the SAS annual meeting. Up to 12 Fellows per year may be selected. Nomination for the award of Fellow must be made by current SAS Fellows or the SAS Fellows Selection Committee. The selection committee reviews all nominations and must 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.*

ARTICLE XVII - EMPLOYEES OF THE SOCIETY

SECTION 1. Responsibility for the hiring or dismissal of the Executive Administrator Director rests with the Executive Committee.

SECTION 2. When it becomes necessary to fill the position of Executive Administrator Director, the President shall appoint an ad-hoc search committee. This search committee shall review applications for the position and forward its recommendations to the Executive Committee and finally to the Governing Board for approval.

SECTION 3. The ultimate authority for the resolution of any work-related difficulty of the Executive Administrator Director rests with the Society President.

SECTION 4. Responsibility for the hiring or dismissal of other Society employees rests with the Executive Administrator Director with the prior approval of the Executive Committee.

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LOCAL SECTION AFFAIRS COMMITTEE REPORT

Committee Members: Sara Freeman, James Julian, Jill Scott, Dennis Walls, and Mark Heitz

Two major pieces of business have been addressed to date, since March 2003. The committee selected the winners of the Graduate Student Award and the Poehlman Award, which will be presented at the October 2003 FACSS meeting.

The Graduate Student Award is given to the graduate student in recognition of outstanding research in the area of spectroscopy. This year, ten candidates submitted applications for this award. Dev Chidambaram from the State University of New York at Stony Brook was selected as the 2003 Graduate Student Award recipient. Dev's research, working under the direction of Professor Clive Clayton, is focused on understanding the mechanism of inhibition of corrosion by carcinogenic chromates. The significance of this work is driven by the need for the development of environmentally safe coatings containing benign chromate substitutes. To understand the correlation between the surface chemistry and corrosion behavior, a wide array of spectroscopic techniques are used including variable-angle x-ray photoelectron spectroscopy (VAXPS), x-ray absorption near edge spectroscopy (XANES), and synchrotron radiation-based grazing angle infrared spectroscopy (SR-GAIRS) to name only a few. This research has led to the development of novel techniques and improved experimental protocols to overcome the shortcomings of the surface analytical methods currently in use. Heartiest congratulations to Dev on this fine achievement.

Congratulations also go to the Cleveland section of the Society as the recipient of The William J. Poehlman Award for 2003. The Poehlman award is granted to the Local Section of the Society that has contributed the most towards accomplishing the goals and ideals of the Society during the preceding year. The Cleveland section exemplifies how a vital local section functions. Regular monthly meetings were held throughout the year, the focus of each meeting being to invite speakers of various spectroscopic backgrounds from both industry and academia to speak on a variety of topics. Examples range from discussions of spectroscopy applied to nanotechnology and prion research to updates on what's new with spectroscopic techniques. Efforts were made to vary the format and location of each meeting to encourage maximum participation by Society members. In addition, the Cleveland section hosts an annual May conference, at which two local awards are presented, one to an outstanding undergraduate student and the other to a science fair project that illustrates innovative use of spectroscopy. Finally, the Cleveland section is active in outreach as demonstrated by their efforts to visit local schools and promote a "Spectroscopy for Kids" demonstration. Great job Cleveland!

Respectfully submitted,
Mark P. Heitz

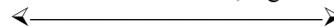
PUBLICATIONS COMMITTEE REPORT

The Committee spent most of the meeting reviewing Joel Har-

ris's excellent proposal for inclusion of Applied Spectroscopy in Medline, and--with the suggestion of only minor additions --endorsed it wholeheartedly.

Old business that will continue to be discussed at the Oct. 2003 meeting are:

- (1) Publication of a CD-ROM containing a compilation of Applied Spectroscopy articles from the past few years.
- (2) Electronic Submission and Reviewing for the Journal. The committee has supported the Editor's gradual approach to implementing procedures, to find ways of keeping costs down.
- (3) Merging the SAS Web and Publications Committees. The Publication Committee has generally been supportive of this idea.
- (4) Web posting of the Society Directory. The Committee has been concerned with making sure that access is limited to Society members, and that any downloaded information is tagged or restricted in such a way as to discourage attempts at commercial use.
- (5) Finding ways to increase legitimate online usage of the Journal, which has leveled off in the past year, as well as to recover revenue from the online edition, e.g. through advertising.



TOUR SPEAKERS COMMITTEE REPORT

Chair for 2005
Dr. Joseph Sneddon
Department of Chemistry
McNeese State University
Lake Charles, Louisiana 70609
Tel.; 337-475 5781, Fax; 337-475 5950
E-mail; jsneddon@mail.mcneese.edu

SAS TOUR SPEAKERS FOR 2005

1. Dr. S. Michael Angel
Department of Chemistry
University of South Carolina
Columbia, South Carolina 29208
Tel.; 803-777-2779, Fax; 803-777-9521
E-mail; angel@mail.chem.sc.edu
 - a. Laser Induced Breakdown Spectroscopy in Extreme Environments
 - b. Spectroscopy-based Remote and In-situ Sensing
2. Dr. James N. Beck
Department of Physical Sciences
Nicholls State University
Thibodaux, Louisiana 70310
Tel.; 985-448-4500, Fax; 985-448-4927
E-mail; phscjnb@nicholls.edu
 - a. Use of Synchrotron Radiation to Investigate Metal Speciation in Soils
 - b. Metals in Southwest Louisiana-A Case Study for Environmental Pollution
3. Dr. Jorge Gardea-Torresdey
Department of Chemistry
University of Texas-El Paso

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(Continued from page 18)

85 North Whitney St.
Amherst, MA 01002
(413) 256-8942

ramon.m. barnes@chemistry.umass.edu

Dr. Barnes was chosen as the 2003 winner by the Lester Stock Award Committee for his important work on the development of the FFF-ICP technique as described in the following papers.

1. Dula Amarasiriwardena, Atitaya Siripinyanond, Ramon M. Barnes, "Flow field-flow fractionation-inductively coupled plasma-mass spectrometry: A resourceful method for size-based speciation and identification of trace metals complexed to humic substances and colloidal sediments" Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 2003:ANYL-202.

2. Ramon M. Barnes, Atitaya Siripinyanond, "Field-flow fractionation-inductively coupled plasma-mass spectrometry" Advances in Atomic Spectroscopy 2002;7:179-235.

3. Atitaya Siripinyanond, Ramon M. Barnes, "Flow field-flow fractionation-inductively coupled plasma mass spectrometry of chemical mechanical polishing slurries" Spectrochimica Acta, Part B: Atomic Spectroscopy 2002;57B(12):1885-1896.

4. Atitaya Siripinyanond, Ramon M. Barnes, Dula Amarasiriwardena, "Flow field-flow fractionation-inductively coupled plasma mass spectrometry for sediment bound trace metal characterization" Journal of Analytical Atomic Spectrometry 2002;] 7(9): 1055-1064.

5. Assad Al-Ammar, Atitaya Siripinyanond, Ramon M. Barnes, "Simultaneous sample preconcentration and matrix removal using field-flow fractionation coupled to inductively coupled plasma mass spectrometry" SpectrochimicaActa, Part B: Atomic Spectroscopy 2001 ;S6B (10) :1951-1962.6.

6. Thomas Anderson, Laura Shifley, Dula Amarasiriwardena, Atitaya Siripinyanond, Baoshan Xing, Ramon M. Barnes, "Characterization of trace metals complexed to humic acids derived from agricultural soils, annelid composts, and sediment by flow field-flow fractionation-inductively coupled plasma-mass spectrometry (flow FFF-ICP-MS)" Special Publication - Royal Society of Chemistry 2001 ;273 (Humic Substances): 165-177.

7. Dula Amarasiriwardena, Atitaya Siripinyanond, Ramon M. Barnes, "Trace elemental distribution in soil and compost-derived humic acid molecular fractions and colloidal organic matter in municipal wastewater by flow field-flow fractionation-inductively coupled plasma mass spectrometry (flow FFF-ICP-MS)" Journal of Analytical Atomic Spectrometry 2001 ;16 (9):978-986.

Brian C. Smith, Ph.D.

2003 Lester Stock Award Committee New England Representative



**LIPPINCOTT AWARD COMMITTEE REPORT
FALL 2003**

The 2003 Lippincott Award was presented to Shaul Mukamel of the University of Rochester. The Award was presented at the 2003 OSA meeting. The award for 2004 will be an SAS award.



**TELLERS REPORT
Fall 2003**

300 ballots were cast in this election which is a significant decrease from prior years. In 2002, 420 votes were cast and, in 2001 when we were paper only, 657 votes were cast. It must be noted however, that mail ballots were sent to those who requested them and only about 1/4 returned them.

The winners of the election were:

President-Elect

Cynthia Mahan

Secretary

David Lankin

Governing Board Delegates

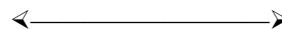
Vasilis Gregoriou - International Delegate

Bruce McIntosh

David Moore

Dale Perry

Sandra Thompson



**FACSS DELEGATE REPORT
Spring 2003**

The FACSS Governing Board Meeting was held at Pittcon 2003 in Orlando, Florida on Thursday, March 12, 2003. Rachel Barbour, Past-President and Larry Nafie, President were the SAS delegates. Also attending for SAS was Robert Michel, President-Elect.

The meeting opened at 1:30 PM with the roll call. The number of delegates in attendance were: ACS (2), ANACHEM (0), Coblenz (2), ISA (1), SAS (2), Royal Society (1).

Ron Williams gave the Governing Board Chair's report. Denis Boudreau was elected General Chair for the 2005 FACSS meeting in Quebec City. David Trimble is General Chair for the 2004 FACSS meeting in Portland, OR.

Scott McGeorge was elected for another 3-year term as Exhibits Coordinator

Paul Bourassa presented the Finance Committee Report. There was an approximate \$9000 gain from the 2002 Providence FACSS Conference.

Mike Carrabba presented the Budget Committee Report. Recommendations for moderate increases in registration and booth rental fees were described.

The Long Range Planning Committee Report was presented by

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(Continued from page 19)

Mike Carrabba. The following are locations of future FACSS conferences:

2003 Ft. Lauderdale, Florida

2004 Portland, Oregon

2005 Quebec City, Quebec, Canada

After considering the sites: Orlando, FL, Providence, RI, Memphis, TN and Austin, TX, it was decided that the site of future FACSS meetings will be:

2006 Orlando, Florida

2007 Memphis, Tennessee

provided that negotiations with hotels at these sites can be successfully concluded.

The Budget Committee provided a motion to reduce the number of complementary registrations to zero by the following rate:

2002 – 200, 2003 – 175, 2004 – 125, 2005 – 50 and 2006 – zero. The motion was approved.

As an item of new business, the report of the Committee on Evaluation of Governance and Representation Structure within the FACSS organization was considered. The report included attendance figures at FACSS for the six years from 1997 to 2002. Average attendance was 1141. Average attendances for the member organizations were: SAS 34.8%, Coblenz 9.2%, Royal Society, 4.0%, ISA 1.1%, ACS unavailable, ANACHEM, unavailable. After discussion it was agreed to change the FACSS Bylaws, Article 5 Section 1, from the current 2 delegates from each of the six member organizations to

One (1) delegate for Analysis Division of ISA, Two (2) for ANACHEM, Two (2) Coblenz, Two (2) for Division of Analytical Chemistry of the ACS, One (1) delegate for the Royal Society, Analytical Division, and Three (3) delegates for SAS. In addition, one non-permanent delegate will be rotated on an annual basis from ACS, Coblenz and SAS in that order. If a new member organization is added to FACSS, that organization will receive one (1) permanent delegate. A second permanent delegate will be added if the fractional membership attendance of that organization at FACSS reaches 7% for three consecutive years. Any current member organization with only one delegate that reaches the 7% member attendance level at FACSS for three consecutive years will also be awarded a second permanent delegate.

Rina Dukor presented the 2003 Conference report, and Program Chair Jim Rydzak presented a summary of the program topics and organizers for this meeting.

As a second item of new business discussed concerned the distribution of excess funds to member organizations. Currently, the excess level for distribution of funds is 50% of the cost of the conference for which the surplus is being considered. The surplus is to be divided equally among the six organizations. It was suggested to raise this level to 100% of the cost of the conference and to distribute the funds as 50% equally and the other 50% proportionately according to the attendance at FACSS for

the past five years based on membership data provided by the member organizations. The proposed bylaw change will be presented at FACSS 2003 in Ft. Lauderdale.

Another item of new business was presented by Rachel Barbour on behalf of SAS. A statement was read that included the following major points: The Program Chair should serve for three years as Chair-Elect, Chair and Past-Chair for greater program continuity. More time should be allocated at Governing Board meetings to address concerns of member organizations. To this end it was recommended that an ad hoc committee be formed to formulate a new structure for program based on the model proposed. It was moved and seconded that such an ad hoc committee be formed to report on changes to be considered at FACSS 2003.

The meeting was adjourned at 4 PM.

Larry Nafie, SAS President

←—————→

**REPORT OF THE REPRESENTATIVE TO
THE CHEMICAL HERITAGE FOUNDATION
August 15, 2003**

In my last report, I mentioned the discussion I instigated last Fall about the limited use by CHF of the Heritage Council, an advisory panel made up of representatives of member societies of CHF. CHF's management has responded positively to this discussion. At the April meeting, several items were brought to the Council, and Council members responded with helpful suggestions. As well, the purpose and function of the Council has been added to the agenda of long-range planning advisors who are working on the future structure and purpose of CHF. I was invited to meet with the advisors on Heritage Day. I could not get to Philadelphia in time for that meeting, but I made some suggestions in writing.

President-Elect Michel and I represented SAS in June on Heritage Day, when CHF celebrated its 20th anniversary. The day was marked by presentations of the CHF Gold Medal to George Hammond and John D. Baldeschwieler, and its first Distinguished Service Award to John C. Haas. In addition, The American Institute of Chemists gave its Gold Medal to Ralph F. Hirschmann.

The Instruments and Artifacts Committee met for an hour at the April meeting, but that was not enough time for its full agenda. The Committee will meet again on September 11 and 12. We will get a first look at the large collection of instruments



Gold Medal Honorees Baldeschwieler and Hammond, with CHF President Arnold Thackray

(Continued on page 21)

and documents given to CHF by Perkin Elmer. The instruments have now been moved from a warehouse to CHF's buildings. The agenda also includes a meeting with Arnold Thackray, President of CHF. The museum is presently being planned in detail, and the committee will want to know how it is intended to use the instrument collection there.

CHF has improved its Web site, at www.chemheritage.org. The revised site is easier to navigate, more informative, and more attractive. Please visit it, even if you have been to the Web site before.

**Addendum to the Report Of the Representative to the Chemical Heritage Foundation
September 18, 2003**

I serve on the Instruments and Artifacts Committee of CHF. The Committee advises CHF on their large collection of instruments, components, glassware, manuals, blueprints, etc. We met at CHF on Sept. 11-12, to get our first look at most of the instruments CHF was given by Perkin Elmer, and to discuss the best use of the instruments for the planned museum and other uses. (Some of the very large instruments are still in a warehouse, including at least three large spectrographs. I plan to visit the warehouse later, to identify these instruments more fully.)

The additions to the collection are numerous, and some are not well described, and CHF is seeking volunteers to help on a regular basis with the cataloging. If you live in or near Philadelphia and are interested in volunteering, contact Rob Lukens, Chief Curator, at (215) 925-2222 Ext. 306, or robl@chemheritage.org.

The Committee concentrated on ways to best use the instrument collection in the museum, and as traveling exhibits. (Some instruments are already on display. See <http://www.chemheritage.org/exhibits/ex-nav3-revolution.html>.) The theme of the instrument exhibits will be "50 Chemical Laboratory Instruments that Changed the World in the 20th Century". (The theme will probably be expanded later to include process control instruments, and others that were used mainly out of the laboratory.) The intended audience is scientists and others with a serious interest in science, including students.

The Committee worked on a list of instruments to be included. Many are in the collection, and others will be sought out. The list will be edited by e-mail during the next few weeks, and it will be made available to the interested public, including SAS members, later this year, for their suggestions.

Marvin Margoshes

SOME PHOTOS BY CARL LEISTNER FROM THE SAS ARCHIVES

WHEN LEISTNER RETIRED, HE GAVE A LARGE NUMBER OF PHOTOGRAPHIC PRINTS TO SAS. THEY WENT UNNOTICED UNTIL MIKE EPSTEIN FOUND THEM, MADE SCANS, AND PUT THEM ON A CD, WITH LIMITED DISTRIBUTION. SOME ARE DUPLICATES OF, OR ARE CLOSELY SIMILAR TO, PHOTOS THAT WERE PUBLISHED. THE ONES THAT ARE SHOWN HERE WERE NOT PUBLISHED.



Velmer Fassel toasting Sally and Bourdon Scribner at their wedding, 1963



Leopold and Evelyn May at their home with Eugene Rosenbaum, and Velmer Fassel with the Mays at the Margoshes home. Both pictures were taken at parties at the time of the First SAS National Meeting.



Tomas Hirschfeld, some time in the 1980s.



The SAS booth at the 1979 FACSS meeting

Arcs & Sparks proudly presents the story of “Bill” Meggers . . . who is thought of, by many, as the “dean” of American Spectroscopists!

Perhaps one of our greatest living demonstrations that Friday the 13th is not unlucky is William F. F. Meggers — one of the true pioneers of Spectroscopy. Flaunting superstition with utter disdain, William Frederick Ferdinand Meggers made his grand entrance on the stage of life Friday, July 13, 1888 . . . and it has been one of the luckiest events in the history of our profession.

This man, one of the most appreciated for his extensive contribution to the science, was born to descendants of feudal German peasants who earlier emigrated to Wisconsin and became free farmers. At the age of six, William Meggers was sent to a Lutheran parochial school, but in an action foretelling his independence of thought, rebelled after two weeks of strict religious education and was transferred to the Public School system. All during his early schooling, there was no “easy life” for Bill Meggers . . . all his spare time was taken up with the chores and other essential farming duties. However, he has never regretted this basic education about foods and animals for it has been most helpful. Claiming that it was not the result of his innate brilliance, but simply by dint of study, he graduated as valedictorian of his high school class in 1906 . . . and received a tuition scholarship to Ripon College.

His college days became the greatest challenge in his unfolding life, for Bill Meggers was long on ability and ambition but mighty short on money. He tucked the scholarship under his arm, picked up any odd jobs he could manage, organized a dance orchestra in which he was a triple-threat man (violin, trumpet and slide trombone), and earned the necessary money to get through school. In fact, William F. F. Meggers was the first of numerous, kinsfolk to acquire a college diploma. While like many mothers, William’s had hoped that he would study medicine or law and end up with what, at the time, was considered a position enjoying the greatest prestige on the American scene . . . but her son had developed other ideas, a practice, incidentally, he was to continue throughout his entire life.

At Ripon College, Professor William H. Barber, who taught Physics there from 1906 to 1946, had a profound effect on our young student. Through his inspiring teaching, Bill Meggers majored in Physics, received a Bachelor’s degree in 1910, and spent the following year as Professor Barber’s first graduate assistant. The following year was a real rough one -as he slaved as a graduate student and laboratory assistant at the renowned University of Wisconsin . . . but he earned much needed credits toward a Master’s degree. About this time, his money problems again weighed heavily upon him so he became an instructor in Physics at the then recently founded Carnegie Institute of Technology at Pittsburgh.

During his second year at Carnegie Institute he happened to read a paper which changed the whole course of his professional life. Authored by Niels Bohr, it was titled “On The Constitution of Atoms and Molecules”, and proposed some novel postulates to explain spectra. It was only a short time after this that Bill Meggers hied himself down to the Pittsburgh Post Office and spent two days writing a Civil Service examination. As the pattern of his life began to unfold in distinct form, he received an appointment as Laboratory Assis-

tant to the late Keivin Burns, who was at the time the sole spectroscopist at the National Bureau of Standards, Washington, D. C. At the NBS, from 1914 to the present time, Bill Meggers has persistently followed a plan of long-range systematic research in optical spectroscopy, including improvements in standard wavelengths, accurate descriptions of atomic spectra, their application to identification and determination of chemical elements, measurement of spectral line intensities, and other interrelated studies.

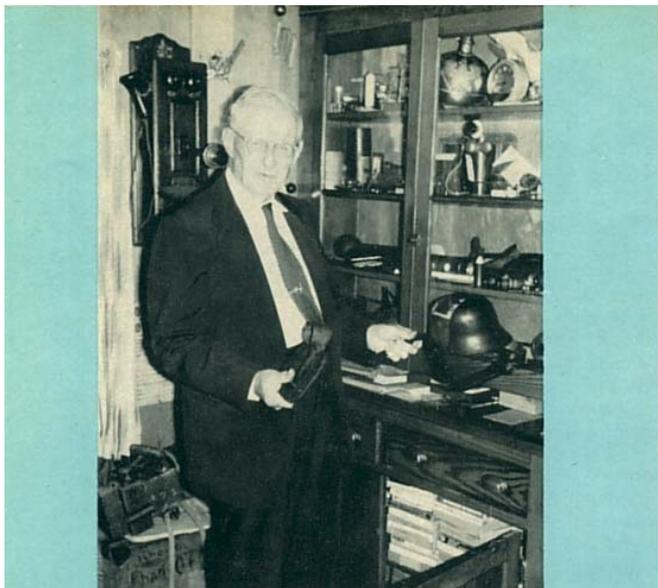
During World War I, Meggers continued both his professional and educational progress at accelerated rates. Some of his important projects covered the measuring of standard wavelengths with interferometers, photographing spectra beyond visible red, demonstration of the use of red-sensitized emulsions for photography from airplanes, other pioneer spectrochemical analyses, measuring many indexes of refraction of the atmosphere . . . all of this while earning a Ph.D. from the Johns Hopkins University.

As an active member of the International Astronomical Union’s Commission on Standard wavelengths during the past 40 years, he was the main contributor to secondary standards of wavelength from an iron arc measured relative to the primary standard (red radiation from cadmium). Since 1947, he provided an improved primary standard (Meggers Mercury 198 Lamp) and superior secondary standards emitted by an electrodeless lamp containing thorium iodide (with R. W. Stanley).

Meggers early efforts to extend spectrographic records toward infrared finally led to a new octane in photographic observations that all enjoy today. His experimental results on refractive indexes of air (published with C. G. Peters in 1918) served a third of a century for the derivation of vacuum wave numbers from wavelengths measured in standard air; they were replaced in 1960 by a “Table of Wave Numbers” (with C. D. Coleman and W. R. Boxman) which is expected to last another generation — if not longer.

Additionally, he was a pioneer in spectrochemistry in the new world, demonstrating its usefulness in the Department of Commerce for the analysis of metals and alloys . . . to the Treasury Department for testing proof gold . . . and to the Department of Justice for detecting crime. A paper on “Practical Spectrographic Analysis” published in 1922 (with C. C. Kiess and F. J. Stimson) is generally credited with reviving interest in chemical spectroscopy in which some 3,000 United States Laboratories are presently engaged. Also, many years of service to Chemical Abstracts led to publication of “An Index To The Literature On Spectrochemical Analysis” (with Bourdon F. Scribner).

But, Meggers was constantly concerned about the poor quality of spectroscopic data (wavelengths, intensities, atomic energy origin) and the empiricism in suggested methods of spectrochemical analysis. Thus, simultaneously with the improvement in standard wavelengths, he tried to provide better descriptions of atomic and ionic spectra, especially of newly discovered concentrated, or artificial elements such as hafnium, rhenium, technetium, promethium, thulium, ytterbium, lutetium, actinium and the like. Since 1922, great effort has been spent on de-



(Above) "MUSEUM DIRECTOR" MEGGERS is shown here in a corner of his private museum inspecting some milestones in civilization's progress. The hundreds of collected items are neatly arranged and displayed in most attractive fashion. If it keeps growing they probably will have to build an addition to the house!

(Below) LOOKS LIKE AN ARSENAL but it's simply one corner of the museum where Bill Meggers enjoyably has displayed a magnificent gun collection. All indexed and described, this is one of the high spots in the Meggers museum – appreciated especially by men visitors.



(Below) MUSEUM'S "ASSISTANT DIRECTOR", Mrs. Meggers, takes great pains to keep everything shipshape. For our money, Bill has the easy job –collectingMrs. Meggers has the tough task –making sure everything is always up to par. What's that about "woman's work is never done!"



iving atomic energy levels from structural analyses of optical spectra, culminating in the publication of three volumes of "Atomic Energy Levels" critically compiled by Charlotte E. Moore.

Finally, it became imperative to this man to make a wholesale calibration of discrete radiant powers which nearly 30 years later led to the publication of "Tables of Spectral-Line Intensities" (with C. H. Corliss and B. F. Scribner) that, for the first time, presented measured intensities of 39,000 lines (2000 A⁰ to 9000 A⁰) observed in direct-current arcs exciting each of 70 metals when diluted 1000 fold in copper. In addition to calibrated intensity and spectral number, the authors hoped to give the energy levels responsible for each spectral line so that these tables would be most useful for trace analysis and for greater accuracy in quantitative -determinations by selecting homologous pairs of analysis — and internal-standard lines with similar excitation characteristics. Unfortunately, the energy levels for 14,000 strong lines (mostly from rare earth elements) are still unknown, so William Meggers has dedicated the rest of his life to seeking more of these.

This scientific-oriented life has not been without its awards — both numerous and of highest nature. Only in the past few years, for instance, the Optical Society made him an Honorary Member and in 1947 awarded him the Ives Medal the U. S. Department of Commerce bestowed upon him, in 1948, the Exceptional Service Gold Medal the Franklin Institute gave the Eliot Cresson Medal the New York Section of the SAS made the first award of its annual medal to him. . . . and, in 1954, the National Academy of Science elected him into membership. These are the marks of devotion to cause, meticulous and laborious work, brilliance of creative concept that have given William Meggers greater satisfaction than any amount of money could buy.

If you ask this great man what he enjoys most, he probably would say, "Why, that's easy — it's the fun of contributing to the advancement of spectroscopy". The "dean" of spectroscopists, together with his thoroughly charming wife and three children, has enjoyed many hobbies. One of the most prized, and enjoyed, is his participation in musical offerings on either the violin, trumpet, or slide trombone, which never cease to bring back fond memories of his frugal years at Ripon College. To diversify, he thoroughly enjoys collecting rocks, minerals, relics of the Stone Age, and has quite an imposing array. To witness the extent of Bill Meggers' avocations, in 1942 the Meggers family dedicated a private museum of Science and Civilization which he maintains in his comfortable home. A "seventh heaven" to the collector's heart, the museum is now filled with hundreds of historical pieces including lamps, cameras, stereoscopes, typewriters, telephones, patent models, music boxes, phonographs, records, radios, historical movie films, and scores of other items that bring joy to the hearts of all its visitors.

Of the many "greats" in spectroscopy, none has given Arcs & Sparks more of a privilege to feature. We feel that William F. F. Meggers is a truly successful man, a whole man, a man whose constructive approach to life is reflected in his own philosophical reply, "Whatever my achievements and accumulations, they are but symbols of the joy of living in this age of extraordinary progress in science, technology, and culture". We humbly, and proudly salute WILLIAM F. F. MEGGERS . . . Spectroscopist Extraordinary!

Photos from the SAS Awards Reception at FACSS



Patricia and David Coleman each received a Distinguished Service Award



Honorary Memberships were presented to John Bertie (left) and Bruce Chase



The Lester W. Strock Award went to Ramon Barnes.



Meggers Award winners Ira Levin and Rohit Bhargava, on the right, are shown here with the other speakers at the Meggers Award Symposium at FACSS. The third author on the winning paper, Scott W. Huffman, was not present.



The Student Award was presented to Dev Chidambaram of SUNY Stony Brook, by Paige Eagan ...



... who herself received an appreciation plaque as she completed her term as Student Representative.



Plaques were also presented to Rachel Barbour and Jon Carnahan, as they ended their terms as President and Secretary, respectively.

For more information on the awardees, please visit the SAS Web site, at www.s-a-s.org.