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THE SPECTRUM

Garrell and Scheeline SAS Election Victors

Dr. Robin L. Garrell (left), University of California at Los Angeles was elected President-Elect, and Dr. Alexander Scheeline (right), University of Illinois at Urbana-Champaign, was elected Secretary of the National Society



in balloting this summer in which approximately one-third of SAS members participated. The Society looks forward to their future leadership roles, and expresses its

gratitude to Dr. Laurence A. Nafie and Dr. Cindy Larive, their worthy opponents, in a very close election contest.

Scribner, Sobel, and Dean Honored

Mr. Bourdon Scribner, Mrs. Constance Butler Sobel, and Dr. John Dean will be honored by the Society for Applied Spectroscopy in October at the 1997 FACSS meeting in Providence, RI. Mr. Scribner will receive Honorary Membership in the SAS for his pioneering role in the development of emission spectrochemical analysis. Mrs. Sobel will receive the Distinguished Service Award for her dedicated service to SAS, including activities as National Secretary and service on a number of national SAS committees. Dr. Dean will receive Honorary Membership in the SAS for his prolific authorship of textbooks in the area of analytical chemistry and spectrochemical analysis. Dr. Dean will join the ranks of only five other SAS members (Edwin S. Hodge, John R. Ferraro, G. Vernon Wheeler, William G. Fateley, and I. D'Arcy Brent II) to hold the distinction of receiving the two highest honors bestowed by SAS, the Distinguished Service Award and Honorary Membership.

Spectroscopist of the Century

William F. Meggers

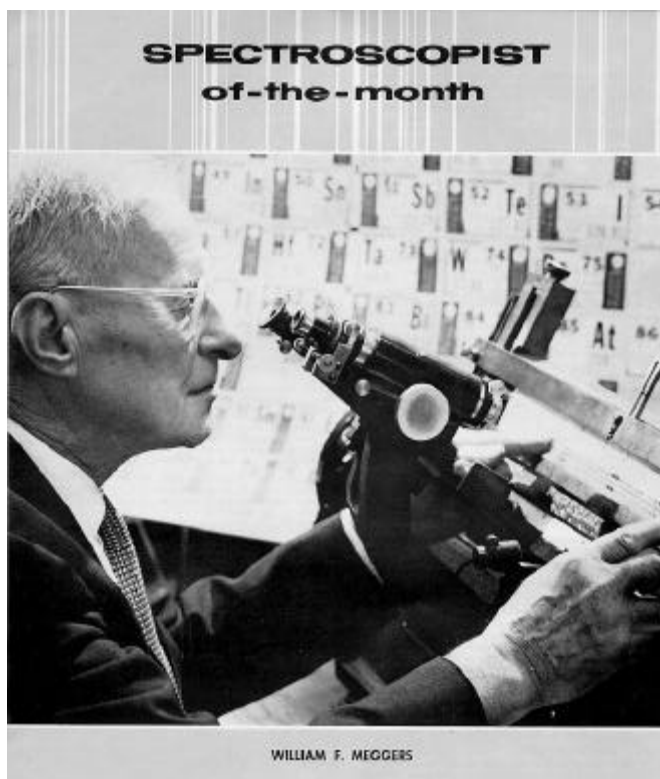
*This article was originally published in the October 1962 issue of **Arcs and Sparks** and titled "Spectroscopist of the Month – William F. Meggers." It is being reprinted on the 35th anniversary of that issue, which highlighted the 1st SAS National Conference. While no by-line was given, it is assumed to be the work of the editor, William G. Harkey.*

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 immigrated 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 educa-

tion 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 went 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



"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.

red 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

form, he received an appointment as Laboratory Assistant to the late Kelvin 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 1, 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 infra-

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.



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



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 deriving 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 Å° to 9000 Å°) 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 charac-

teristics. 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!

Chicago SAS Section To Receive the 1997 Poehlman Award

The Chicago Section of the SAS has had a very productive year, which will be recognized at the 1997 FACSS meeting with the Poehlman Award of the National Society. Their technical program included monthly meetings and a workshop held in February of 1997. They also had a Student Night meeting, dedicated to the work of the spectroscopy students in the Chicago area.

The monthly technical program, assembled by program chairperson **Phil McKittrick**, made an effort to present a balanced (molecular versus atomic) viewpoint. The meetings were well attended, with attendance ranging from 35 to 45 people. At the first annual Student Night held in January 1997, six graduate students gave oral presentations of their research. The students were judged on originality, difficulty of research, and the quality of their presentation, and all students were awarded a one-year complimentary membership in the SAS. The

high-scoring student, **Mr. Bernoli Baello** (left) from UIC, received the section Graduate Student Award, and was



nominated for the national SAS Graduate Student Award. **Mr. Sean Mellican**, a graduate student from Loyola University, served as student ambassador and promoted the Student Night meeting to local Universities, attracting students to present their work. Many students and their advisors attended the meeting as

guests of the section.

The February meeting was combined with the workshop on Polymer



Scenes from the February Workshop – Award to Ed Dessain by Chicago Section Chairperson Rina Dukor (upper left); Workshop organizer Bob Roginski (upper right); Workshop participants (bottom)

Characterization. The workshop was organized and chaired by **Bob Roginski** and held at the Amoco Research Center, with topics in-

cluding NMR, FT-Raman, FTIR, molecular modeling and thermal analysis. The workshop, attended by 60 persons, was culminated by a

banquet dinner with a special Distinguished Service Award presentation to **Ed Dessain** (USG Corp), who has served the Chicago Section for over 20 years in a variety of roles and continues active participation. A keynote address at the banquet was given by **Dr. Jack Koenig**.

The March meeting was held jointly with the Madison-Chicago-Milwaukee Mass Spectrometry Discussion Group and the Chicago Chromatography Discussion Group with **Dr. Robert Voyksner** (Research Triangle Institute) as the speaker. The meeting had almost 90 people in attendance. For April, the SAS Tour Speaker was **Dr. Kathy Kalasinsky**, who spoke on "Hair Toxicology." The May meeting featured **Dr. Gary Martin** (Pharmacia and Upjohn) speaking on "Probe & Pulse Sequence Developments: Application to Complex Structural Problems".

The Chicago Section has also been actively recruiting new members, and has arranged with local commercial vendors to include SAS membership forms in their mailings. Vendor advertisements in the local section newsletter help defray mailing costs and hopefully the vendors benefit from exposure in the newsletter.

Section officers for 1997 include: Rina Dukor (chairperson); Fred Delles (chair-elect); Jim Julian (secretary); Bruce Hudgens (treasurer); Gilbert Pariente (immediate past chairperson); Phil McKittrick (program); Brent Bertke and Anne Orcutt (membership); Jim Duffer (hospitality); Bob Roginski (workshop); Doug Shrader (liaison); Ed Dessain (teller); Sean Mellican (student liaison); John Meyers and JoAnne Delles (newsletter); Dave Lankin and John McGinn (members).

Meeting Calendar

Sept 21 - 26, 1997

XXIXth CSI

Melbourne, Australia

<http://www.latrobe.edu.au/www/xxxcsl/>

Oct 25 - 31, 1997

FACSS XXIV, Providence, RI

<http://facss.org/info.html>

March 1 - 6, 1998

49th PITTCON, New Orleans, LA

<http://www.pittcon.org/>

Oct 11 - 16, 1998

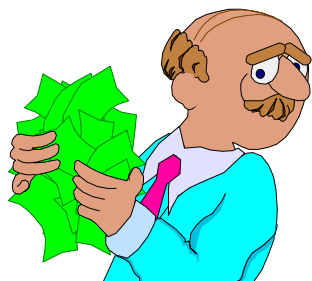
FACSS XXV, Austin, TX

March 7 - 12, 1999

50th PITTCON, Orlando, FL

Oct 24 - 29, 1999

FACSS XXVI, Vancouver, BC



An Offer to Local Sections from the SAS Newsletter

In order to promote information exchange between the newsletter and local sections, as well as to help local SAS sections increase membership and promote their activities, the editor is offering to design and maintain a home page for local sections on the server used for the *SAS Spectrum Newsletter*. Interested section representatives should contact the editor at Michael.Epstein@nist.gov or Mike_S_Epstein@msn.com to arrange for site creation and information exchange. The editor has already set up such a site at the following URL: <http://esther.la.asu.edu/sas/epstein/bwsas.htm> for the Baltimore-Washington section of the Society.

Atomic Spectroscopy Quiz Update

Those who have visited the SAS Newsletter WWW page at <http://esther.la.asu.edu/sas/epstein/sas.html> and taken the online quiz (and have waited patiently for the results) will finally find the answers on the following page. Individual results (coded by email address) will be posted on a link from the Newsletter WWW page. Several of the high scorers on the test have received SAS t-shirts, and several more will be awarded. The quiz also appeared in the European trade journal *Laboratorium Praktijk* under the title "Zo...., en u denkt alles van AAS te weten?" in Nov 1996. First prize in that contest was a trip to Paris! Sorry, our pockets aren't that deep. However, the editor would appreciate feedback from anyone who gets that journal, can tell me the results of the contest, and confirm that the prize was actually awarded and how well the winner did.

Atomic Spectroscopy Quiz Answers

The editor welcomes disagreements with his answers. Comments should be sent to Mike_S_Epstein@msn.com. You can find the quiz at

<http://esther.la.asu.edu/sas/epstein/asquiz.html>

1. Who discovered atomic absorption?

While Wollaston was the first to observe dark bands in the spectrum of the sun (1802), Fraunhofer (1814) measured their position and designated their origin. Answer = c

2. Who first applied atomic absorption to analysis?

While Alan Walsh (1955) is generally given credit for the first analytical application of flame atomic absorption, the concept was developed at the same time by Alkemade and Milatz (1955). Woodson (1939) used the method to determine mercury in air, and Bunsen and Kirchhoff (1860), in their extensive studies of emission and absorption of sodium vapor, applied atomic absorption for qualitative measurements. Answer = a or b

3. In what years did the first papers describing atomic absorption instruments appear?

The Walsh and Alkemade papers appeared in 1955. Answer = c

4. Who pioneered the use of the nitrous-oxide/acetylene flame for atomic absorption?

Willis (1965) introduced the nitrous-oxide flame, and Amos (Willis' co-author) and Koirtzmann were involved in its development. Answer = b or c

5. Where was the first graphite furnace built?

L'vov (1959) of the Soviet Union developed the first graphite furnace for atomic absorption, but the design was based on the work of King (Mount Wilson Observatory, USA) in furnace emission spectroscopy (1908).

Answer = b or d

6. What did Smith-Hieftje invent?

The Smith-Hieftje background correction system for atomic absorption is based on the self-absorption of the radiation source when pulsed at high-current. Answer = e

7. How do you correct for the interference of P on Ca in an air/acetylene flame?

Published corrections for the interference include the addition of lanthanum, glycerol/perchloric acid, or the use of a nitrous oxide-acetylene flame. Answer = d

8. Which of the following is NOT a way to extend the linear range of AAS?

Curve correction (fitting to a nonlinear model), shortening the absorption path length by turning the burner head perpendicular to the optical path, reducing the sample introduction by slowing the aspiration rate, or using a less sensitive absorption line are all effect methods to reduce sensitivity. Adjusting flame gas flow rates has no significant effect on linearity.

Answer = c

9. Which of the following CANNOT ever be corrected by the standard addition technique?

The method of standard addition will only correct for multiplicative interferences such as physical (viscosity) effects, chemical (condensed

and vapor phase reactions) effects, or dilution errors (if the addition is made prior to dilution). Scatter is an additive interference and is thus uncorrected by standard addition. Answer = a

10. What is the name O'Haver most associated with?

O'Haver's research group at the University of Maryland combined a continuum source, high resolution (echelle) spectrometry, wavelength modulation, and graphite furnace atomization to develop the most successful continuum source AA spectrometer. Answer = c

11. What is the most sensitive wavelength (nm) of Arsenic?

193.7 nm Answer = c

12. Which has NEVER been a manufacturer of AA instruments?

Waters has never marketed an atomic absorption spectrometer. Baird and Aztec marketed AA spectrometers but did not manufacture them.

Answer = b or c or e

13. Why isn't the ICP good for atomic absorption?

The absorption path length of the ICP is too short to be useful for AAS. Answer = b

14. Which element is more sensitive in a fuel-rich air/acetylene flame?

Despite the lower temperature, the reducing atmosphere of a fuel-rich flame aids atomization and prevents vapor phase reactions of atomic chromium, thus increasing sensitivity. Answer = e

15. Which element CANNOT be determined by hydride generation AAS?

Phosphorus has not been determined by hydride generation AAS. Answer = c

16. Which matrix modifier is most used in GFAAS for Se?

The two most popular modifiers are (1) nickel or (2) palladium and magnesium nitrate. Answer = a

17. In Zeeman AAS, what are the split line components called?

Pi and sigma. Answer = c

18. What is the best way to dissolve glass for AAS analysis?

While wet-ashing and microwave methods can be used to dissolve glass using HF, losses of some elements due to volatility or formation of insoluble fluorides can occur. The most effective method is fusion. Answer = b

19. Approximately how much sensitivity enhancement is obtained by using the Delves cup or sampling boat?

While the effect of these methods on sensitivity varies by element, the typical enhancement is approximately 10x. Answer = b

20. What effect would the addition of K have on the AAS determination of Ba at 455 nm?

The 455 nm line of barium is an ionic transition. Potassium will suppress the ionization of barium and thus decrease the sensitivity of measurement at that line. Answer = b

Perspectives: 1997 Pittsburgh Conference

PITTCON'97, the 48th annual Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, was held in Atlanta, Georgia on March 16-21, 1997. The conference was extremely successful, with a total attendance of 31,411, and an exposition featuring 1157 companies exhibiting in 2985 booths. Attendance was the largest for a Pittsburgh Conference held outside the Northeast and third overall.

The scientific program for the conference consisted of 1,826 total papers including 1,046 contributed papers, 219 symposia papers and 561 poster papers. There were also 44 short courses offered at the conference.

The weather was beautiful, in stark contrast to "fond" memories of Pittsburgh Conferences long past ... of snow storms in Cleveland and that brisk wind blowing off the ocean in Atlantic City. And walking around the miles and miles of exhibits in the two huge convention halls took several pounds off the editor's expanding girth. Beautiful weather, fine food, good exercise, and an excellent scientific program. What more could one want!

In the process of walking those several miles, the editor took a number of pictures, particularly of SAS Corporate Sponsor exhibits. Those images and a few others are shown on the following pages, with special thanks to those organizations that contribute to the Society.



*Miracles happen at the SAS Booth at Pittcon'97! On the left, Ivan Glaze, Wanda Waugh and "toad". On the right, Ivan, Wanda, and ... well, certainly **not** Prince Charming. That will teach Wanda not to go around kissing toads!*

Sustaining Corporate Sponsors of SAS at Pittcon'97



VARIAN ASSOCIATES INC, 811 Hansen Way
B-111, Palo Alto, CA 94304-1129 800-926-3000

Tom O'Connor and Gary Cook of **Varian Analytical Instruments** point out the new SPECTRAA 220 Fast Sequential Atomic Absorption Spectrometer. Varian also demonstrated the SIPS (sample introduction pump system) for automatic dilution and calibration in AAS, and the Saturn 2000 GC/MS. For the most recent developments, visit the home page for Varian Optical Spectroscopy Instruments at <http://www.varian.com/inst/osi/index.htm> and Chromatography Instruments at <http://www.varian.com/chroma/index.html>



PERKIN-ELMER CORPORATION, 761 Main
Avenue, Norwalk, CT 06859-0010 800-762-4000

Perkin-Elmer exhibited the Optima 3000 family of ICP emission spectrometers, which use an Echelle polychromator with a Segmented Array Charge Coupled Device detector (SCD) for simultaneous elemental analysis at very high spectral resolution. Also shown was the SIMAA 6000 Atomic Absorption Spectrometer, for the simultaneous determination of 6 elements by graphite furnace atomic absorption. For the latest on developments at Perkin-Elmer, visit the PE Analytical WWW site at: <http://www.perkin-elmer.com/coww0009.htm>



GRASEBY/SPECAC, 500 Technology Court,
Smyrna, GA 30082-5210 800-447-2558

Graseby Specac specializes in sampling technology for Infrared analysis. Exhibited products included the Golden Gate ATR series high-pressure germanium ATR for analysis of difficult samples, the Golden Gate Single Reflection Diamond ATR series for the analysis of highly absorbing samples, and the Sirocco series heatable long path length gas cells. For the most recent information, visit the Graseby Specac WWW site at: <http://www.graseby.com/Specac.htm>



LECO CORPORATION, 3000 Lakeview Avenue, St. Joseph, MI 49085-2396
616-982-5496

LECO Corporation exhibited the WC-200 Carbon Determinator, designed for improved precision at higher weight % carbon levels, and the Pegasus II GC/MS, an industry-breakthrough time-of-flight mass spectrometer with LECO's proprietary fast detection data system that offers at least a 10-fold decrease in analysis time for most applications. For the most recent information, visit the LECO WWW site at: <http://www.leco.com>



NICOLET INSTRUMENT CORPORATION
5225 Verona Road, PO Box 44451, Madison, WI 53744-4451 608-273-5050

Nicolet Instrument Corporation introduced the new E.S.P. (Enhanced Synchronization Protocol) technology for its Magna-IR and Protégé FT-IR spectrometers. Also shown was the new FT-Raman 960 E.S.P. spectrometer than provides rapid, reliable, and non-destructive analysis of a wide range of samples. For the latest developments, visit the Nicolet Instrument Corporation WWW site at <http://www.nicolet.com/>

Sustaining Corporate Sponsors not shown:

SCIEX — **SCIEX** is the instrumentation technology division of MDS Health Group Limited. SCIEX was formed in 1978 and since then it has become an innovative leader in the field of ultra-trace chemical detection, based on sophisticated mass spectrometry techniques. In 1986, PE SCIEX Instruments, a joint venture between MDS SCIEX and Perkin-Elmer was established. Under the partnership, SCIEX is responsible for the research & development and manufacture of instrumentation, while Perkin-Elmer is responsible for worldwide sales & marketing and customer service support. One system offered by PE SCIEX, the ELAN system, is based on Inductively Coupled Plasma Mass Spectrometry (ICP/MS) techniques pioneered by SCIEX. The ELAN system provides trace elemental analysis and sells to a broad range of markets including environmental monitoring, metallurgy, toxicology and semiconductors. Another system offered, the API system, is based on Liquid Chromatography Mass Spectrometry (LC/MS) techniques, also pioneered by SCIEX. The API system provides trace organic analysis and is widely utilized in pharmaceutical and biopharmaceutical applications, as well as environmental studies. These innovative new products are being applied currently in two of the fastest growing markets in analytical laboratory instrumentation. For the most recent information, visit the WWW home page at: <http://www2.perkin-elmer.com/sc/>

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- Analect Instruments, Inc.
- Leeman Labs

Not pictured:

3M Corp, BP Chemicals, Bay Carbon, Carbone of America – Ultra Carbon Division, Carpenter Technology Corp., Conoco, Inc., National Starch & Chemical Corp., Products for Research, Inc.



Spectroscopist Profile: John A. Dean

*Our profile this issue is of John A. Dean, one of the two recipients of the 1997 Society for Applied Spectroscopy Honorary Membership Award (the other being Bourdon Scribner, who was profiled in the last issue of **The Spectrum**).*

There are very few analytical chemists whose lives have not been touched by the work of Professor John Dean. Many honed their teeth as fledgling analytical chemists on "Instrumental Methods of Analysis." Others keep "Lange's Handbook of Chemistry", "Handbook of Organic Chemistry", or the "Analytical Chemistry Handbook" at ready reference. Spectroscopists are all familiar with "Flame Photometry" and "Flame Emission and Atomic Absorption Spectrometry (3 volumes)", and chromatographers know "Chemical Separation Methods." Look at your own bookshelf and see how many of them you find! I found 6 of them! It

is through his quiet expertise and hard work that Professor Dean has subtly influenced all of us.

John Aurie Dean was born in Sault Saint Marie, Michigan on May 9, 1921, the son of Aurie Jerome and Gertrude (Saw) Dean. His father was head of the Science department at Sault Saint Marie High School, teaching physics and chemistry, so John grew up in an atmosphere conducive to a scientific career. His father was also the city "analytical chemist", testing water for the city government. Like many budding scientists, John received a chemistry set with which he proceeded to attempt to poison himself ... in his case by generating acrolein. (Apparently a common occurrence among young chemists. Bourdon Scribner generated bromine in his parent's house and the editor nearly poisoned himself as a child by generating and smelling liquid chlorine.) Unlike many children,



from John's grandfather, who had served for over 3 years in the Union Army during the Civil War. John played the clarinet in the band in high school, and took his father's courses in chemistry and physics. He graduated as class salutatorian and went on to college at the University of Michigan in 1939.

After 3 years he graduated with a B.S. in Chemistry (1942). It was also during this time that he went to one of the first orthodontists to have a ¼ inch overbite corrected. A cast of his teeth are on display at the University of Michigan Dental School ... proof that older people



who dreamed of Red Ryder BB-guns under the Christmas tree, John's "want list" for Santa included chemicals for his experiments. His parents gave him a 1928 edition of the Encyclopedia Britannica, which he would read after breakfast every morning! This, along with the Historian's History of the World, were among the most influential books in his young life. In 8th grade his father introduced him to Professor Willard's book on Quantitative Analysis.

It was also at this time that John's interest in naval and military history was sparked by Teddy Roosevelt's book on the War of 1812 and stories

His parents
gave him a
1928 edition of
the
Encyclopedia
Britannica,
which he
would read
after breakfast
every morning

could have their teeth straightened!

John held a teaching fellowship under Dr. Willard at the University of Michigan, where he learned one very important point. "Don't ever try to pull a bluff on your students. If you don't know the answer, be honest and let them know that you don't know. Then go and find out the answer and come back to them with it later." He was given responsibilities there as a Lecturer in quantitative analysis supervising sophomore and junior laboratories and the instrumental methods of analysis laboratory (and some lectures). He later received his M.S. in 1944 and his Ph.D. in 1949 from Michigan.

John applied for a naval commission in World War II, but at 138 lbs and 6 ft. 4 in., was disqualified for service. Then, during the final year of World War II, he worked on the Manhattan Project as an analytical chemist on the X-100 phase (gaseous diffusion process) at the Chrysler Corporation in Detroit.

After the end of the war, he returned to Michigan to resume his studies. It was then that Dr. Willard



John as a graduate student at Michigan:

"Don't ever try to pull a bluff on your students. If you don't know the answer, be honest and let them know that you don't know. Then go and find out the answer and come back to them with it later."

asked him to join himself and Dr. Merritt (below) as a coauthor on the trailblazing text "Instrumental Methods of Analysis." This was John's first publication (1948) in a list that now numbers over one hundred.

After a two year period as associate professor of analytical chemistry at the University of Alabama at Tuscaloosa (1948-50), John came to Knoxville in 1950, charged with developing the

doctoral program in analytical chemistry at the University of Tennessee. He rose rapidly through the ranks: assistant professor (1950-53), associate professor (1953-58), and professor (1958-81). After some early work in polarography, he began a major effort in flame emission methods, often cooperating with chemists at the Oak Ridge National Laboratory, where he served as a consultant from 1953-74. In 1958, his solvent extraction studies were begun, and again Oak Ridge workers were involved, as well as an exchange scientist from the Argentine Atomic Energy Commission. John's work at Oak Ridge and on campus provided opportunities for a steady stream of graduate students and post-doctorals. Twenty-five Ph.D. dissertations and an equal number of M.S. theses have been written under his direction.

John has been recognized for his achievements in teaching, research, and publishing by inclusion in the 7th edition (and all subsequent



editions) of "Who's Who in the World" and the Charles H. Stone Award of the Carolina-Piedmont Section of the American Chemical Society. He served the Society for Applied Spectroscopy as Newsletter Editor for twelve years and is also past chairman of the Southeastern section of SAS.

John has five children and is married to Peggy, who brought four more children into the extended family. Peggy served as SAS Parliamentarian for a number of years and she and John share a love of classical music and books. Both are active in the Presbyterian Church. Peggy is an accomplished organist and John has taught adult classes in biblical archaeology and the early history of the Christian Church.

The editor stayed with the Deans one evening in the process of preparing this story, and found John Dean to be not only an expert on chemical and spectroscopic analysis, but also a walking encyclopedia on the history of the world ... particularly military history. Give John a year and he can tell you what was happening in detail. It is no wonder that he has been able to author so many books on such a diverse collection of topics.

Scientific author, historian, musician, archeologist ... these are all things that Professor John Dean does and does well. One can only stand back in admiration for someone who has such abilities ... and has used them to the fullest.



John finds some humor in the first edition of "Instrumental Methods of Analysis."



John and Peggy Dean in front of their vast collection of books.

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SAS GOVERNING BOARD MEETING MINUTES

March 18, 1997

I. CALL TO ORDER

A regular meeting of the Governing Board of the Society for Applied Spectroscopy was called to order by President Kathy Kalasinsky at 8:10 PM on Tuesday, March 18, 1997 at the Hyatt Regency Hotel in Atlanta, Georgia.

II. ROLL CALL

A roll call indicated that delegates from 23 of 32 active local sections were present and therefore that a quorum was present.

The Local Section Delegates present were:

Section	Delegate(s)
1. Baltimore-Washington	Mike Epstein and Mary Tungol
2. Chicago	Jim Julian and Doug Shrader
3. Cincinnati	Joe Caruso
4. Cleveland	Robert Williams
5. Delaware Valley	none
6. Detroit	Roscoe Carter
7. Houston	Joe Schwab
8. Indiana	Radislav Potyrailo
9. Intermountain	Paul Farnsworth
10. Kansas City	Karmie Galle and Cynthia Larive
11. Milwaukee	David Wynn
12. New England	Sue Evan Norris
13. New York	none
14. Niagara Frontier	Larry Nafie
15. Northern California	none
16. Ohio Valley	Kurt Thaxton
17. Pacific Northwest	none
18. Penn-York	none
19. Pittsburgh	Singh Manocha
20. Rocky Mountain	Ron Shannon
21. St. Louis	Eileen McClendon
22. S. California	Jerold Kacsir and Warren Vidrine
23. Rio Grande	John Algeo
24. Minnesota	none
25. Arizona	none
26. Piedmont	Kim High
27. Louisiana	none
28. Mid Michigan	Marty Spartz
29. Nevada Delyle	Eastwood
30. Toledo	Raymond Hertz and Joe Grappin
31. Reading	none
32. Snake River	Peter Griffiths

III. INTRODUCTIONS

Kathy Kalasinsky introduced the Executive Committee members and Society staff. The members of the Executive Committee present were:

Kathy Kalasinsky, President
 Joe Caruso, President Elect
 Nancy Miller-Ihli, Past President
 John Koropchak, Secretary
 Marvin Margoshes, Treasurer
 Michael Epstein, Newsletter Editor
 Rina Dukor, Parliamentarian
 Bonnie Saylor, Executive Administrator
 James Holcombe, Journal Editor
 Dave Styris, Membership Education Coordinator

IV. RULES OF ORDER

The President stated that Roberts Rules of Order shall be in effect for the meeting.

V. APPROVAL OF THE MINUTES FOR THE PREVIOUS GOVERNING BOARD MEETING, OCTOBER 1, 1996

It was agreed that the minutes for Governing Board meeting of October 1, 1996 should be amended in section VII B (Constitution and Bylaws Committee Report), and in Section XII B (New Business) to state that the dues for regular members be indicated to be \$70, instead of the \$75 originally indicated. A motion to approve the minutes was seconded and approved.

VI. REPORTS

- A. President: (Appended)
- B. Secretary: No report
- C. Treasurer: (Appended)

Marvin Margoshes reported a surplus of approximately \$40,000 for 1996.

- D. Executive Administrator: (Appended)
- E. Journal Editor: (Appended)

Jim Holcombe described a plan to introduce a list server discussion related to the journal. He also introduced the new Journal Editor, Joel Harris, and the new Associate Journal Editor, Paul Farnsworth.

- F. Newsletter Editor: (Appended)
- G. Membership Education: (Appended)

A motion to accept all of the reports of the Executive Committee was seconded and approved unanimously.

VII. SAS COMMITTEE REPORTS

- A. Awards: (Appended)

The Awards committee nominated John Dean for Honorary Membership, and Connie Sobel for a Distinguished Service Award. In addition, the Executive Committee received nominations and documentation in support of Honorary Membership for Bourdon Scribner. The Executive Committee unanimously agreed to forward all three nominations to the Governing Board.

- B. Constitution and Bylaws: (Appended)

A motion to accept the proposed Bylaws changes was moved, seconded and unanimously approved.

- C. Local Section Affairs: (Appended)
- D. Membership: (Appended)
- E. Nominations: (Appended)

One of the nominees proposed by the Nominations Committee did not satisfy the requirements of the Bylaws for Executive Committee service, although an excellent candidate otherwise. Kathy Kalasinsky nominated Alex Scheeline as an alternative. As a result, the nominees for President are Lawrence Nafie and Robin Garrell, and for Secretary are Alex Scheeline and Cynthia Larive.

- F. Publications: (Appended)
- G. Publicity: No report
- H. Tour Speaker: (Appended)
- I. William F. Meggers Award: (Appended)
- J. Lester W. Stock: No report
- K. Lippincott Award: No report

L Tellers: No report

A motion to accept all of the reports of the SAS Committees, with the modifications indicated above, was seconded and approved unanimously.

VIII. AD-HOC REPORTS

A. Museum: (Appended)

The Museum Committee has served SAS well for several years. However, Kathy Kalasinsky indicated that ad hoc committees are short term. As a result, the Executive Committee has decided to dissolve the museum committee.

IX. LIAISON REPORTS: (Appended)

X. AFFILIATES REPORT

The report of the Coblenz Society was published in Applied Spectroscopy. There were no reports from other Affiliates. A motion to accept the Ad Hoc, Liaisons and Affiliates reports was seconded and approved unanimously.

XI. OLD BUSINESS

A. Dues Increase:

At the Fall '97 meeting of the Governing Board, a dues increase to go into effect for 1998 was approved, with the stipulation that this issue be reconsidered at this meeting. Kathy Kalasinsky recommended that the dues increase be maintained, in order to: 1) account for inflation and, 2) to increase number of papers in journal to prior levels, as the number of papers in the journal was reduced last year to decrease costs and avoid repetition of the previous year's loss. It was suggested that the dues increase be instituted only for regular members, rather than all members. A motion that the previously approved \$5 dues increase for regular, student, retired and interim members be rescinded, was seconded and approved. It was then moved that the dues for regular members be increased by \$5, to \$75, beginning in 1998. The motion was seconded and approved with a greater than two-thirds majority vote.

B. Applications Newsletter:

The publications committee has previously recommended against the idea of an applications newsletter. Jim Holcombe indicated that Applied Spectroscopy includes many applied articles. Kathy Kalasinsky indicated that among other issues, the additional cost to publish a second journal was prohibitive. It was suggested that the membership be surveyed to determine if they are willing to pay additional dues to cover the costs for an applications newsletter. Discussion suggested that there may be different concepts of what would constitute an applications newsletter and it might be difficult to identify one which meets the needs of everyone interested in the idea. It was also suggested that the list server might provide a good alternative to an applications newsletter. Kathy Kalasinsky indicated that the President's report would encourage greater use of the list server.

C. Internationalization:

The issue of internationalization was raised again. Kathy Kalasinsky indicated that an ad hoc committee will be formed to further investigate this topic. Nancy Miller-Ihli summarized the initiative done last year to promote internationalization.

XII. NEW BUSINESS:

A. Ideas For New Member Benefits:

One request was for two tour speakers. Kathy Kalasinsky indicated that the costs for implementing this idea were a problem. It was indicated that the dues allocation might be used to cover the cost. Kathy Kalasinsky indicated that she would investigate this idea. Discounts for additional journals were also suggested. Nancy Miller-Ihli indicated that other journals were investigated but the publishers were unwilling to agree to such arrangements. Putting the resume booklet on the web was also suggested. Job placement ideas were also considered important.

XIII. DATE AND TIME OF NEXT GOVERNING BOARD MEETING

The next Governing Board meeting will be held at FACSS in Providence, Rhode Island, October 28, 1997 at a location to be determined later.

XIV. ADJOURNMENT

The meeting was adjourned at 10:38 PM.

Submitted by John A. Koropchak, Secretary.

President's Report

Kathryn S. Kalasinsky

SAS has put on a new face for this year. Many transitions occurred last year and we are seeing their effects as the new year starts. First of all, as was announced at the last governing board meeting, we had a change in several of the staff positions in our office last year. Bonnie Saylor as our new Executive Administrator and Victor Hutcherson as our Administrative Affairs Associate have both been with us now for half a year and are well accustomed to SAS operations. Barbara Stull who has been with SAS for many years remains in our office and the entire staff is prepared to serve you, the society.

The second biggest change in the society operation is that we are no longer providing contractual administrative support for the FACSS Conference. We are still active participants in the conference and are one of the member organizations as we have been in the past. The administrative contractual duty has passed on to another organization geared specifically for producing conferences. This has alleviated much of the load in the office and given the SAS staff more time to concentrate on our membership.

Membership is our greatest concern. The numbers have dropped for several years but this is a trend that most professional organizations have experienced. The greatest cause is that employers are no longer paying for the society membership or the members changes their field of work. We are going to spend this year concentrating on attacking those spectroscopists who are not yet aware of that SAS is the premier spectroscopic information source. Membership growth is everyone's responsibility; talk to your colleagues about joining SAS. The larger our membership the greater benefits we can provide for everyone.

A random mail out survey will be sent to a number of our members to try to find what is the most needed benefits that SAS can provide. We will be trying to focus our future efforts on the results of this and other inputs sources. We will also be conducting on-site surveys at our SAS booth at PittCon. Please come by and help us determine where the membership wants their society to concentrate its programs.

After four years of great service as Editor-in-chief and Editor of Applied Spectroscopy, Jim Holcombe and Bruce Chase have decided to step down and return to more concentrated efforts of their work. We certainly appreciate the growth they have added to the journal. I am extremely pleased to announce that Joel Harris has been selected as the next Editor-in-chief and he has chosen Paul Farnsworth to fill the role of Editor. We feel that this team will lead the journal on to even greater accomplishments. Joel and Paul will begin their term as Editor-in-chief and Editor with the January 1998 issue of Applied Spectroscopy.

The executive committee attended a retreat the first weekend of 1997 and we set goals for the year. First of all, we have initiated an ad hoc committee to study the problems associated with local sections as well as international growth of the society. The local sections have been charged with the task of helping identify the local section's issues and solutions which will be discussed in an open forum before the official business section of the governing board meeting. A second ad hoc committee has been formed to look into the possibilities of SAS regional conferences or mini-meetings. We are possibly looking at a summer 1998 conference as a first level effort. This committee will begin its charged task at PittCon.

This year at PittCon we will be having two booths in different locations on the exhibit floor. One will concentrate on the society and the other will primarily market the journal. Please stop by our booths for updates on the society and help us by filling out one of our member surveys to determine the benefits you would like most from SAS.

SAS celebrated the 50th anniversary of Applied Spectroscopy last year with a poster session at FACSS. It was so well received that we will be sponsoring another poster session this year at FACSS as well. Please submit your poster in response to the call for papers. Student presentations will compete for awards. We hope to see you there.

I am looking forward to serving this year as your President of the Society for Applied Spectroscopy. Please do not hesitate to contact either myself or any other officer of the Society with your concerns or issues. If we are not available, the Society Office is always there to answer questions.

Treasurer's Report

Marvin Margoshes

The Treasurer's Report that was mailed to the Delegates was based on the Society's books at that time. Our Auditor has now reviewed our accounts, and the financial information on the two attached pages is derived from the Auditor's draft report. (The final report was not ready in time for this Governing Board meeting, but it is likely to differ little, if at all.)

The financial information, especially for expenses, is grouped differently in this document than it was in the Report that was mailed in January. That one followed the format of the Society's books, in which the categories are chosen to permit us to best understand and control the expenditures. The Auditor regroups those categories to meet applicable accounting standards.

I am pleased to report that income for 1996 exceeded expenses by nearly \$40,000. In 1995, there was a deficit of close to \$92,000. The loss in 1995 did not eliminate our cash reserves, but it is reassuring that we have restored them close

to their former level.

It is too early in the year to predict how well we will meet our budget goals. Our entire income/expense structure has changed now that the Society Office is no longer also serving as the office for the FACSS meeting. The Executive Administrator and the Officers of SAS are proceeding cautiously in fiscal matters. For example, the budget allowed for an additional employee in the Society Office; we have not filled that position until now, and we will not until we are certain that the additional staff is needed and can be afforded.

	1996 Actuals	1995 Total	Year-to-Year Change
Revenues			
Membership Dues	183,632	173,977	9,655
Jrnl Pub Sales/Adv	238,189	279,053	-40,864
Jrnl Subscriptions	383,056	287,732	95,324
Membership Education	17,745	38,013	-20,268
FACSS Contract & Reimbursement	44,083	48,278	-4,195
Investment Rev	30,900	37,189	-6,289
Other Revenue	2,393	2,216	177
	-----	-----	-----
Total Revenue	899,998	866,458	33,540
Expenses			
Salaries & Fringes	148,130	149,422	-1,292
Advertising & Publications	407,671	588,121	-180,450
Awards & awards banquet	20068	17884	2,184
Bank charges	3848	6062	-2,214
Journal (Univ. of Texas)	33700	29918	3,782
Newsletter	8076	9003	-927
Occupancy	56268	32223	24,045
Officers & Committees	32649	23330	9,319
Postage	53531	15774	37,757
Professional fees	20157	5855	14,302
Short Courses	27803	41469	-13,666
Tour speaker program	7282	6165	1,117
Travel	15948	20710	-4,762
Miscellaneous	25078	12500	12,578
	-----	-----	-----
Total Expenses	860,209	958,436	-98,227

	1996	1995	Change
Assets			
Restricted Funds			
Cash/Lippincott	28,178	28,409	-231
-----	-----	-----	-----
Total Restricted Funds	28,178	28,409	-231
General Funds			
Bank Accounts	574,780	553,627	21,153
T-Bills	49,681	43,812	5,869
Accounts Receivable	30,396	49,131	-18,735
Tax Refunds Recvble	0	4,800	-4,800
Prepaid Expenses	2,734	11,258	-8,524
-----	-----	-----	-----
Total General Fund Assets	657,591	662,628	-5,037
Fixed Assets			
Property & Equipment	31,852	22,313	9,539
Accumulated Depreciation	-18,952	-14,050	-4,902
-----	-----	-----	-----
Fixed Assets Net	12,900	8,263	4,637
Total Assets	698,669	699,300	-631
Liabilities and Fund Balance			
Accounts Payable	57,981	112,634	-54,653
Income Tax Payable	5,300	0	5,300
Due to Inactive Local Sections	0	11,201	-11,201
Accrued Liabilities	3,910	6,128	-2,218
Deferred Revenue	412,699	385,297	27,402
-----	-----	-----	-----
Total Liabilities	479,870	515,260	-35,390
Fund Balance	190,621	155,901	34,720
Restricted Fund Bal./Lippincott	28,178	28,409	-231
-----	-----	-----	-----
Total Liability & Fund Balance	698,669	699,570	-901

Executive Administrator's Report

Bonnie A. Saylor

Membership

Final 1996 Numbers

1996 3,241 **Membership Breakdown** USA 2,895 International 346

Total New Members for 1996 247 **Total Student Members** 329

Current 1997 Numbers

1997 2,271 **Membership Breakdown** USA 1,973 International 298

Total New Members for 1997 259 **Members Not Renewed Yet** 1,229

Subscriptions

1996 1,150 **Subscriber Breakdown** USA 626 International 524
 1997 1,130 **Subscriber Breakdown** USA 543 International 587

General Comments

The SAS office officially finished with FACSS in mid December. This has helped to free up some staff time, however, we still find ourselves playing catch-up between starting out three months behind from when the new staff took over last year and having to devote so much of our time between August and December to FACSS. We are also short one full-time person. While we don't feel there is a need for a second full-time person in the office, we do believe a halftime bookkeeper or the outsourcing of the bookkeeping functions would be in the best interest of the Society.

While it may seem from the outside that things like data entry of member and subscriber renewals and doing the bookkeeping couldn't possibly be that time consuming, please be assured that it truly is. Particularly since we have so many things that still need to be fixed relative to the database. There are only so many hours in the day, and while we did get temp help to do some of the data entry, there are many things he could not handle because of the way the database is currently set-up. We needed to do very close follow-up. Additionally, while the old staff had the 'luxury' of providing comp time to those employees who worked beyond their normal working hours for crunch times, this was not in keeping with current employment laws. As such, we now have to pay overtime if an exempt employee stays beyond normal working hours. This prohibits us greatly in that we cannot have two of the three staff members stay much beyond normal work time to catch up without it costing the Society considerably more money.

We are working very hard to make the Society the professional organization it should be, and feel we have accomplished much since last May. There is, however, still much to do.

Membership and Subscribers

We are working on getting out second and third renewal notices. Most members have already gotten their second renewal notices.

Membership Directory

We have begun the process of soliciting ads for the directory. So far we have received two that have confirmed their interest. The Executive Committee voted to allow ads to be placed on the inside covers and the back covers. Hopefully this will generate some additional revenue to cover the cost of the directory. We expect the directory to be out between May and July.

Exhibiting

We had a physical presence at two meetings late in 1996, FACSS and EAS. FACSS was a boon for membership with over 60 new people signing on the dotted line. EAS was not quite as successful with only 10 new people signing up, however, our presence was felt and we had a large number of inquiries that may turn into future members.

Here at PITTCO, we are trying something new by having two booths. One for SAS membership and one for Applied Spectroscopy. The Applied Spectroscopy booth is designed to promote the journal and our individual subscriber program for those people who do not want to be members, but do want the journal.

Finances

The auditors completed their review of the SAS books in late February. A draft report has been included.

Personnel

We have finalized the SAS Employee Handbook and all employees have read and agreed to its terms. It is most definitely a step in the right direction in terms of better staffing policies. All office reviews for staff were completed for 1996 and goals set for 1997.

Member Marketing

We have done two targeted member campaigns to attract the international crowd - one to the 1996 Winter Plasma Conference attendees and one to the 1996 Rio Conference attendees. We signed up six new members from the Winter Plasma mailing and are still awaiting the results of the Rio mailing. Our plans are to do several more targeted marketing efforts especially aimed at the international group.

Journal Editor's Report

James A. Holcombe, Editor-in-Chief

It is my pleasure to announce that Joel Harris will be taking over as Editor-in-Chief of Applied Spectroscopy starting in 1998. Paul Farnsworth will be serving as atomic spectroscopy editor. Two excellent scientists and capable administrators! Bruce and I will attempt to eat as many SAS sponsored chicken dinners as we can until the official hand-off occurs.

Some updates on various activities associated with the journal:

- The Student Corner was put in place starting in January, 1997. Applied Spectroscopy has set aside a special section in the journal to recognize the student researchers who are also members in SAS. We hope that it will not only provide them with some additional recognition but may also serve them in their ultimate quest for employment opportunities.
- Disk submission of manuscripts was begun in full force starting in 1997. It is not anticipated that there will be a significant savings in publication expenses for SAS, but this format should minimize the number of typesetting errors in the author's proofs.
- Electronic coding of the journal (e.g., SGML or Acrobat/PDF format) was discussed and the general opinion at this time is that SGML provides the greatest flexibility but is quite expensive. With an unknown demand (i.e., market) it would seem ill advised to consider this option at this time. Conversely, the PDF format is very reasonable and printer files are readily converted into PDF format for use in a CD-ROM project. (I am currently getting bids for such a project and more details will be available at the time of the meeting at PittCon.) At this writing a "project" has not been formulated with regard to distribution, cost, etc. However, I am certain that the SAS executive committee would appreciate any ideas that you may have.
- Scientific Chat room: My January editorial announced a pilot project for a real-time scientific "chat" on the Internet discussing the January (Hieftje) focal point article. By PittCon we should know 1) if it happened and 2) if it was successful. I decided to try this since I feel that one of the chief services that SAS provides is facilitating communication amongst scientists.

Newsletter Editor's Report

Michael S. Epstein

The first newsletter of 1997 should be submitted to the printer at the end of March, to be distributed with the edition of Applied Spectroscopy that is mailed in April. That issue should contain the following:

- A Spectroscopist Profile of John Dean
- Software reviews
- SAS activities at the Pittsburgh Conference
- SAS national committee list
- SAS local section officer list
- Local section activities

I would like to expand coverage of local sections, particularly with pictures from section meetings, and I will be personally contacting local section officers to encourage their submissions.

Membership Education Coordinator's Report

David L. Styris

The Society education program, a fundamental factor in helping the Society fulfill its objectives, has not been immune to the effects of nationwide budget constraints. Decreases in course registrations, resulting in part from these constraints, have necessarily prompted course terminations to the point where three short courses remain in the curriculum. These include Biological Infrared Spectroscopy (BIRS), Fourier Transform Infrared Spectroscopy, and Plasma Spectrochemical Analysis. During the winter season, the Society offered two of these courses. The BIRS course was offered at the Biophysical Society Meeting (New Orleans March 2 - 6) and the BIRS and Plasma courses at PittCon '97. Unfortunately, because of illness, Bob Jakobsen notified the Society office on February 27 that he would be unable to present the BIRS

course any time soon; course registration at that time totaled eleven for the Biophysical Society Meeting and zero for PittCon. Attempts to find a substitute instructor were unsuccessful and the course was canceled for both meetings.

The Executive Committee is concerned that our present courses do not address the broad spectrum of the membership's educational needs. The concept of offering half-day courses (minicourses) was developed to (i) expand the curriculum and (ii) to provide a lower cost alternative to the membership while providing data points to guide development of new short courses. It is also realized that some members may be better served by offering on-site courses at local sections. Course topics of particular interest to our larger local sections and potential instructors in the associated locales are being identified. To help offset cost burdens to industry, and thus increase registration, it is suggested that incentives such as course registration discounts might be offered to businesses registering greater than one or two for a given course.

It is realized that poor marketing strategies account for some of the downturn in course registrations. This is being addressed through more consistent advertising of courses in the Journal, and by incorporating course advertisements in the SAS membership mailings. For the SAS Biological Infrared Spectrometry course that was scheduled for the Biophysical Society meeting, a direct mailing of the course advertisement was made to the full Biophysical Society membership. Guidance and suggestions for course advertising have also been obtained from the marketing consultant to the Executive Committee.

To help develop and promote courses of more intense interest, it is suggested that a minicourse at FACSS might evolve around the subject and author of one of the Journal's late "Focal Point" articles. Unfortunately, early attempts to arrange such a minicourse for FACSS '97 failed because of insufficient lead-time; follow up arrangements have been initiated for the FACSS '98 meeting.

The Society will offer the following two short courses and three minicourses at the FACSS '97 Meeting (Rhode Island October 25 - 31): Short courses--Fourier Transform Infrared Spectrometry (FT-IRS), and Plasma Spectrochemical Analysis. Minicourses--A Graphical Approach to Chemometrics, Raman and Infrared Chemical Imaging, and Inorganic Electrospray Mass Spectrometry.

Awards Committee Report

Jeanette Grasselli Brown, Chair

The Awards Committee of the Society for Applied Spectroscopy would like to recommend to the SAS Executive Committee and to the Governing Board the following two nominations:

For Honorary Membership Award: Dr. John A. Dean

For Distinguished Service Award: Mrs. Constance Butler Sobel

Both nominations were made according to the Society By-Laws and were considered and approved by the 1996 Awards Committee, chaired by Professor Roy Koirtyohann. The two nominees meet all qualifications and are outstanding candidates for these Awards. It is a pleasure to recommend them to you and the Society.

Nomination of Bourdon Scribner

Honorary Membership in the Society for Applied Spectroscopy

Michael Epstein and Marvin Margoshes

Bourdon Scribner is among the pioneers in the development of emission spectrochemical analysis. In a career at the National Bureau of Standards that spanned half-a-century, Scribner helped to bring about many of the developments that are familiar to modern atomic spectroscopists. In the 1950s, he was certainly one of the first, and possible the first to use computers for data acquisition and analysis in analytical chemistry. During the Second World War, he developed the carrier distillation method for arc emission spectroscopy that facilitated the direct determination of impurities in uranium. This method greatly contributed to the success of the Manhattan Project, and was the forerunner of modern matrix-modification methods in electrothermal atomic absorption spectroscopy.

A protege and later colleague of W.F. Meggers at NBS, Scribner was instrumental in the development of the NBS Spectrographic Standard Reference Materials Program, whose success was a direct result of his continuing efforts from the 1940s to 1970.

Scribner organized the first SAS National Meeting, held at the University of Maryland in 1961. He has been honored by the American Society for Testing and Materials and has received the Gold Medal Award of the New York section of SAS for his leadership and accomplishments in emission spectroscopy. He is currently an Emeritus SAS member and is well

deserving of honorary membership in the Society for Applied Spectroscopy.

More information regarding Bourdon Scribner's career and in support of his nomination for Honorary Membership can be found in the August 1996 issue of the SAS Newsletter, *The Spectrum*.

Constitution and By-Laws Committee Report
Proposed By-Laws Changes

Additions Double Underlined (By-Laws)

Deletions Lined-out (~~By-Laws~~)

ARTICLE I. MEMBERS

SECTION 3. A REGULAR MEMBER may vote and hold office in the Society. He/she shall be considered a member of only one Local Section at a time. Regular Members shall have an annual subscription to Applied spectroscopy by reason of dues paid. A regular member may qualify for Interim Dues as designated in Article VII, Section 1 of the By-Laws, for the first year after he/she no longer qualifies as a student member. Regular members under the Interim Dues category have all rights of a Regular Member including an annual subscription to Applied Spectroscopy.

ARTICLE II – QUALIFICATIONS FOR ELECTION/APPOINTMENT

SECTION 3. No elected or appointed officer ~~except~~ including the Editor-in-Chief of the Journal shall be eligible to serve for more than two (2) consecutive terms in the same office.

ARTICLE VII – DUES

SECTION 1. The current annual dues of the several types of membership shall be as follows:

Regular Member	\$65.00	<u>\$70.00</u>
<u>Interim Dues</u>	<u>\$45.00</u>	
Student Member	\$20.00	<u>\$25.00</u>
Sponsoring Member:		
Contributing	\$300.00	
Supporting	\$600.00	
Sustaining	\$1200.00	
Retired Member	\$20.00	<u>\$25.00</u>
Emeritus Member		None
<u>Distinguished Service Awardee</u>		<u>None</u>
Honorary Member		None
Special Member	At Local Section Option	

SECTION 7. SETTING OF DUES. Future dues will be set at the Annual Meeting Governing Board Meeting prior to the Annual Meeting and will become effective on the first day of the ~~second~~ fiscal year following the Annual Meeting ~~in which the change occurred.~~

ARTICLE VIII – ALLOCATION OF DUES

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

Account of the Society	85%
Local Section	15%

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

SECTION 2. The dues collected from a Sponsoring Member shall be allocated as follows:

Account of the Society	65%
Local Section	35%

The local Section allocation from Sponsoring Members shall be divided equally among the existing Local Sections and forwarded to the Treasurers of these Sections upon receipt of the completed Local Section annual activity questionnaire provided by the Society Office.

SECTION 3. The dues collected from a Student Member shall be allocated as follows:

Account of the Society 80%
Local Section 20%

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

Local Section Affairs Committee Report

Mary Widmark Tungol, Chair

The committee's major goal for 1996 was "to study and make recommendations concerning problems affecting local sections." As a follow-up, the first goal for 1997 will be to try to revive some of our more inactive local sections. Part of this effort will be the development of a handbook for local sections. The second goal is to continue upon last year's success in producing more nominations for the William J. Poehlman Award and the Graduate Student Award.

1997 Plans (first two quarters)

January/February

1. Send announcement letters and nomination forms for the SAS Student Award and Poehlman Award to all Local Section Chairs. Deadline for receipt of all materials is May 1, 1997.
2. Compile document in conjunction with the Membership Committee regarding what works for local sections for presentation/discussion at the Pittcon'97 SAS meeting

March/April

1. Send introductory letter with questionnaire regarding local section charters (if available) and/or typical operations to all Local Section Chairs to solicit information for handbook development.

May/June

1. Review submitted award nominations. Complete selection process by June 1, 1997.
2. Notify SAS President and Secretary of the committee award selection results.
3. Send information about award winners to the FACSS Program Committee for inclusion in the final FACSS meeting program and to the editors of the Newsletter and the Journal for inclusion in the September issue.
4. Send congratulatory letters to both award winners.

Membership Committee Report

Jim Reeves

The SAS Membership Committee has developed several new initiatives since the last SAS meeting. At the FACSS meeting in Kansas City, the Governing Board voted to approve a new category for membership and dues. The new category is called Transitional Member and the amount that will be charged for dues will be \$45. This new membership category is designed to help those individuals who have recently graduated from school and from student member status. It will be for a one-year time period to allow the graduate to get on his/her feet before being charged full freight for membership. It is the committee's hope that this will help the Society retain a higher percentage of student members upon graduation. All benefits will be the same.

As the new Chairman of the Membership Committee, I was invited to participate in the SAS Executive Committee Retreat which was held in Baltimore in January. At that retreat, several new membership initiatives were discussed and are currently being worked on. They include, updating the SAS membership brochure, doing a direct mailing to Journal reviewers and authors who are not current SAS members, direct mail to the FACSS, EAS, Gordon Conference, and AIRS II mailing lists.

We will also be making a special effort to try and attract more international members and more members from the "Generation X" group. One of these efforts consists of making phone calls to students who have taken advantage of publishing their resumes in the annual Graduating Student Resume Booklet to see if they found it useful.

In the area of retaining our membership and finding new member benefits, we are planning to do a random survey of our membership to see where their interests lie. We will also be analyzing some surveys that were done in the past to garner further information. The committee welcomes your input if you have additional ideas to increase or retain members.

Nominating Committee Report

The Nominating Committee recommends the following individuals for consideration as nominees for 1998 officers for year:

President-Elect

Robin Garrell
Larry Nafie

Secretary

Robert Brown
Cynthia Larive

CV's are attached for your review and information

Publication Committee Report

Vahid Majidi

The Publication Committee dealt with two issues after the 1996 FACSS conference

Item 1:

Jim Holcombe and Bruce Chase have decided to step down as the Editor-in-Chief and editor of Applied Spectroscopy. According to the SAS bylaws (article XIII section 12), it is the responsibility of the Publication Committee to recommend possible replacements for the position of Editor-in-Chief to the Executive Committee and the Governing Board.

The Publication Committee (Neil Lewis, Victoria McGuffin, Alex Scheeline, Douglas Shrader and Vahid Majidi) considered several worthy nominees and applicants. The following ground rules were used to select the top three candidates:

- 1) The candidate must be a SAS member.
- 2) The candidate must have served in SAS committees.
- 3) The candidate must have a distinguished career in spectroscopy.
- 4) The candidate must have the organizational ability to meet stringent deadlines and deal with the daily journal business.
- 5) The candidate must be willing to assume the Editor's duties on July 1997.

This opening was advertised in the most recent issues of Applied Spectroscopy and the SAS newsletter. The announcements stated that the applications and nominations should be sent to the publication committee chair by December 15, 1996.

After the top three candidates were selected by the Publication Committee each candidate was asked to submit a copy of their vita along with a one page candidate statement (enclosed).

The Publication Committee is confident that any of the listed candidates can be an excellent and influential Editor-in-Chief for the Applied Spectroscopy.

Item 2:

The Publication Committee is recommending to the Executive Committee to consider amending the by-laws so that the position of the Editor-in-Chief is a 3 years term appointment with a two terms limit. The most important reasons behind a terms limit is infusion of new ideas with every new editor.

Tour Speaker Program

Alexander Scheeline, Chair

The tour speaker schedule has been published in the SAS Newsletter. Now all that remains is for the speakers to travel and the members to attend. Local sections are reminded that they are responsible for local expenses, while National SAS will subsidize documented travel costs. Speakers should send receipts to the committee chair for authorization prior to forwarding them to the SAS office in Frederick for payment.

Despite Vahid Majidi's most strenuous efforts to educate the chair, there were a number of oversights and schedule slippages this year. I have been in communication with Paul Bourassa, the 1998 chair, in the hope that he will get it right. It would be helpful to develop both a hard copy and electronic time line and set of forms so that the mechanics each year run on autopilot. Majidi gave this a good shot the last two years; much of what I missed came from getting so much information electronically that it was warehoused in a directory which I failed to read through in detail. This was not a source problem; it was a detector bandwidth limitation.

Local sections have enthusiastically embraced speakers who talk on genuinely applied topics. Industrial and government speakers have proven more attractive than many academic speakers. Response to proposed speakers may be an indication of the direction that SAS should take, at least in the eyes of its local leadership. We academics may lament the "bottom line" thinking currently so prevalent, but we ignore the trend at our peril.

Meggers Award Report

Roscoe Carter, Chair

The 1996 award was made to Gary M. Hieftje and Steve Hobbs for their paper "Scintilla/or-Based Nanosecond Light Sources for Time Resolved Fluorimetry." The paper appeared in Vol 49 pages 15-19 of Applied Spectroscopy. The award was made at "96 FACSS Meeting" at Kansas City.

Congratulations to the recipients!

Thanks is due to the Chairman Chris Brown who lead the award committee through several rounds of deliberation.

The 1997 committee consisted of Jim Holcombe, Editor-in-Chief, Sandra Bonchin, Chair Elect, and myself. The process of collecting candidate papers and selecting an awardee is underway. We may have a candidate for this meeting but it is not a given. An awardee will be chosen by the committee and forwarded to the Executive Committee by May 15 at the latest.

Report of the Museum Committee

E.G. Brame, Jr, Chair

1. The Museum Committee of the Chemical Instrumentation Museum Group (CIMG), a division of the Chemical Heritage Foundation (CHF) continues its program for funding the instrumentation museum and its proposed activities including public outreach. In addition to the first grant received from the Perkin-Elmer corporation, we are working on other potential donors for support. Initially, we are seeking funds from instrument companies, their leaders, and related foundations in order to make the museum program a reality. Meanwhile, CHF is offering some help in providing a fund raising expert to meet with key members and supporters or CIMG. This will take place in Philadelphia in February .
2. At the last meeting of CIMG that was held in Somerset, NJ on November 18th in conjunction with the Eastern Analytical Symposium, a statement on COLLECTION POLICY was adopted. This was prepared initially by Roy Koirtyohan for discussion at the meeting. Some minor modifications were accepted and the final document was distributed to members and guests along with the minutes of the meeting. One of the additional items that has come up following the meeting was that there needs to be a group of screeners for accepting donations of equipment to the museum. It was then suggested that the collection policy subcommittee of CIMG, consisting of Roy Koirtyohan, John Stock, Michael Grayson and Ed Brame be the group which will decide on accepting or rejecting any potential donor gifts. This group representing three different societies and whose expertise covers the most important instrumentation areas will be formally recognized at the spring CIMG meeting.
3. Publicity of the museum continues but at a slower pace than over the past year. Again, this year at the Pittsburgh Conference meeting in Atlanta, CIMG will have a booth on the main exhibit floor. Any and all interested attendees to the conference are welcome to visit and to be appraised on the latest developments which keep changing weekly.
4. There will be a meeting of CIMG at the Pittsburgh Conference on Monday, March 17, 1997 at 4: 00 pm in Room 203E

- of the Georgia World Congress Center. The meeting will end no later than 6:30 pm as that is the time the center closes. The official spring meeting of CIMG will be held in Philadelphia on Wednesday, April 23, 1997 beginning at 2:00 pm.
5. SAS has provided leadership along with a wide variety of support to CIMG and its activities so far. It is also important that all the SAS members who feel that an historical accounting of the variety of instruments & documents with which they have been associated be willing to contribute something to the museum program. Please call, FAX, or E-mail your support to Ed Brame at 302-994-8000, 302-994-8837 or cecon@cecon.com.

FACSS Governing Board Meeting Report

Kansas City, Missouri

October 3, 1996

David S. Trimble

Summary of Meeting:

The significant actions taken at the meeting include:

- Mike Carraba was appointed to the Long Range Planning Committee.
- Isaiah Wamer and Linda McGowan were elected 1998 Program Co-Chairs.
- Paul Bourassa was elected Treasurer.
- The Executive Council was directed to obtain bids for the FACSS National Office Contract.
- The 1997 Meeting Budget was approved.

Meeting Details:

The meeting was called to order by Rachael Barbour at 545 p.m. The roll was called by the Secretary and the following delegates were present:

ANACHEM - P. Coleman, D. Coleman

Analytical Division, ACS - Scheeline and Treado

Coblentz - Bourassa, Rydzak

ISA- Fleming, Setter

SAS - Kalasinsky, Majidi

Current General Chair- Galle

The previous minutes were accepted unanimously after correction of two typographical errors. The Chairman's and Treasurer's reports were presented and accepted unanimously.

Beauchemin, of the Spectroscopy Society of Canada, described the annual meeting of their society. The SSC is exploring the possibility of a joint meeting with FACSS in Vancouver. An ad hoc committee was established to study and recommend a way that the two societies could interact and pursue this joint venture.

The Long Range Planning Committee reported that the Opryland Hotel is under consideration for the year 2000. A significant advantage is that meeting space would be provided at no cost. Concern was expressed that no alternative sites are under consideration. It was moved and approved that the committee should look into these issues further, and that the report be accepted. Barbour then appointed Mike Carraba to the committee to replace Waugh.

The Nominations Committee submitted several recommendations. Isaiah Warner of LSU and Linda McGowan of Duke were nominated to serve as 1998 Program Co-chair. Paul Bourassa was nominated to succeed Brewster as Treasurer. All were approved unanimously.

A report of the 1996 Kansas City meeting was presented by Galle. The SAS poster session received very positive comments in general. It was noted that attendance was down over previous years. Program Co-Chair John Graham provided a report that he co-authored with Bill Fateley. McGeorge provided a report on the exhibits portion of the meeting. Barbour expressed appreciation to Miller-Ihli, Holcombe, and Majidi for the idea and support of the poster session.

Olesik commented on the upcoming 1997 Providence meeting. Much planning was carried out at the Kansas City meeting. The concept of electronic submissions has been very well received, and it was encouraged that 1998 planning members be included in the Providence meetings to insure continuity in this area.

Brewster supplied a budget for the 1997 meeting. After some discussion on potential cost savings (by sending the preliminary program to SAS members through the Journal and not by a separate mailing) it was agreed to keep the preliminary program distribution system in its present form. Further discussion on the budget was tabled until after the National Of-

fice contract discussions.

Certain Old Business items were discussed. Barbour reported that the budget conditions are very near to what is defined in the bylaws to be Surplus, but that threshold has not been crossed. Williams suggested that the current web-based discussion forum be converted to a list-server. This would be more accessible to the users and improve communications. This motion carried unanimously. Sid Fleming updated his most recent Awards Committee report, and it was accepted. Barbour summarized the efforts of the ad hoc Committee on the National Office. An abrupt change in staffing at SAS interrupted these efforts, and the Executive Committee was brought into the process. D. Coleman motioned that the EC re-open negotiations to identify administrative support services for 1997 and that the three top vendors be asked to provide proposals prior to a mandatory vote by the Governing Board. The motion carried 7 to 6.

The most significant new business was the proposal submitted by Miller-Ihli. The proposal would have resulted in SAS assuming management of FACSS. Bourassa motioned that FACSS not consider the proposal - this passed with 10 affirmatives and 2 abstentions.

Barbour set the next Governing Board meeting for Thursday evening at Pittcon at 5:30pm. The meeting was adjourned at 9:10 pm.



Society for Applied Spectroscopy

MEMBERSHIP APPLICATION/INFORMATION

I'm interested in the Society for Applied Spectroscopy. I understand my membership includes a subscription to *Applied Spectroscopy*. Please.....

- ☐ Enter my membership in SAS and bill me.
☐ Charge my credit card for membership in SAS.
☐ Enter my membership in SAS. My check made payable to the Society for Applied Spectroscopy is enclosed.
☐ Send me more information regarding membership in SAS.

Name _____

Home Address _____

_____ Zip _____

Company _____

Business Address _____

_____ Zip _____

Preferred mailing address: ☐ Home ☐ Business

(H) Phone: _____ Fax: _____

(W) Phone: _____ Fax: _____

E-mail _____

Areas of interest _____

Membership Fee (includes subscription to *Applied Spectroscopy*)

- ☐ New ☐ Renewal ☐ Student-USA \$25.00*
☐ Regular-USA \$75.00 ☐ Student-Canada \$40.00*
☐ Regular-Canada \$90.00 ☐ Student-Outside USA \$65.00*
☐ Regular-Outside USA \$115.00 *(Send copy of current student ID.)
☐ Corporate Sponsor-Send me information.

Society for Applied Spectroscopy

201B Broadway St.

Frederick, MD 21701-6501

Phone: (301) 694-8122 Fax: (301) 694-6860

E-mail: sasoffice@aol.com

Credit Card ☐ VISA ☐ MasterCard ☐ Amer. Exp.

Card # _____

Expiration Date _____

Signature _____

Date _____

All forms received after June 1 are entered for the following calendar year.