ASMS News

THE 41ST ASMS CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS

This conference will be held May 30–June 4, 1993, at the Marriott Hotel, San Francisco, California. The program will feature four parallel symposia each morning, afternoon poster sessions, and evening workshops. A one and a half hour lunch break will provide the opportunity for informal lunch gatherings of Interest Groups. Chris Enke, Vice President for Programs, is seeking to enhance the activities of Interest Groups to make participation in ASMS activities and the conference accessible to more people.

To receive the preliminary program on computer diskette, advance conference registrations must be received by February 28, 1993. The final deadline for registration is April 23.

ASMS SHORT COURSES

These courses will be held May 29–30, 1993, and will be conducted immediately preceding the annual conference in San Francisco. All of the six short courses listed below are full two-day programs.

- Introduction to the Interpretation of Mass Spectra, *presented by the Baltimore-Washington Mass Spectrometry Discussion Group*

- Advanced Interpretation of Mass Spectra, *presented by Frank Turecek and Thomas A. Baillie*
- GC/MS for Environmental Analysis, *organized by Paul Goodley and Norman Low*
- Fundamental Aspects of Gas Phase Ions, *presented by Robert Squires, Veronica Bierbaum, Scott McLuckey, and Chrys Wesdemiotis*
- LC/MS: The Art and The Practice, *presented by John Coutant, Robert Voyksner, and Alfred Yergey*
- Practical MS/MS Analysis, *presented by Jodie Johnson*

10TH ASILOMAR CONFERENCE ON MASS SPECTROMETRY (ACMS)

This conference will feature the topic "Time-of-Flight Mass Spectrometry," on October 3–7, 1993. The Program Chairman is Kenneth G. Standing of the University of Manitoba. The conference will focus on the potential and limitations of TOF, aiming to uncover hitherto untapped potentials or new means of enhancing its performance.

In a break from tradition, the conference will not be at Asilomar this year, but at Aspen Lodge, a ranch-style conference center in scenic Estes Park, Colorado. The location offers an ideal environment for informal meetings and a variety of recreational and mountaineering activities.

For further information contact Laszlo Tokes, Syntex Discovery Research, 3401 Hillview Avenue, Palo Alto, CA 94304. Telephone: (415) 855-5713.

ASMS CALENDAR

1993

February 28	Deadline for advance conference registration to receive the preliminary program on diskette	May 30–June 4	41st ASMS Conference on Mass Spectrometry and Allied Topics, Marriott Hotel, San Francisco, California
March 30	Deadline for membership renewals to qualify for member conference registration rates	October 3–7	10th Asilomar Conference on Mass Spectrometry, "Time-of-Flight Mass Spectrometry," Aspen Lodge, Estes Park, Colorado
April 23	Deadline for advance conference and short course registration		
May 29–30	ASMS Short Courses, Marriott Hotel, San Francisco, California		

The ASMS News is prepared by Judith A. Sjoberg, Executive Director. For additional information, contact ASMS, 815 Don Gaspar, Santa Fe, NM 87501. Telephone: (505) 989-4517.

RELATED EVENTS CALENDAR

The 9th Asilomar Conference on Mass Spectrometry, September 27–October 1, 1992

The 9th Asilomar Conference on Mass Spectrometry had as its topic "Trapped Ions: Principles, Instrumentation and Applications." This year's Program Chairmen were R. Graham Cooks (Purdue University) and Alan G. Marshall (The Ohio State University), who succeeded admirably in bringing together a group of researchers in the two closely related fields of quadrupole ion trap (Paul trap) mass spectrometry (ITMS) and Fourier transform mass spectrometry (FTMS, ICR, FTICR). Although these two research communities have much in common, they have not communicated with each other as much as an outsider might have imagined. There were many lively discussions in the relaxed and informal setting of the Asilomar Conference Center. The 150 or so participants enjoyed the presence of an international cast of experts and active researchers on various aspects of trapped ions, as well as the scenic and interesting Monterey Peninsula region.

Some of the hot topics at this meeting were multi-photon dissociation, high mass, high resolution, ion selection and ejection methods in (MS)ⁿ experiments, injection of ions from external ion sources (especially electrospray), and some interesting biological applications. The two techniques suffer from some common problems: space-charge, dynamic range limitations, mass discrimination, and challenges in coupling to various modes of ionization. The principal differences, besides the presence or absence of a magnetic field, concern the usable range of pressures and ion energies and trajectories.

Board-ranging introductory talks were given by Alan Marshall, covering the similarities and differences between the two kinds of traps, and Graham Cooks, who outlined recent progress in quadrupole ion trap mass spectrometry. These talks were followed by stimulating oral presentations that addressed the prin-

cipal issues in the field: instrumentation, generation and injection of ions, applications in the field of gas-phase ion chemistry, and analytical applications. Some aspects of the physics of ion traps are beginning to be better understood, both for Paul-Dehmelt radiofrequency ion traps (J. Franzen, J. E. Syka, S. E. Buttrill, R. A. Yost) and for ICR (E. N. Nikolaev, K.-P. Wanczek). Instrumentation developments were described by R. Hettich (for M. B. Wise) (portable ITMS) and L. Schweikhardt (Penning traps), and a new approach was proposed by H. Wollnik (novel ion trap TOF spectrometer). Advances in the ion excitation were described by J. F. J. Todd and P. Traldi (quadrupole ion traps), and by J. L. Beauchamp and J. R. Eyler (ICR). R. E. March described ultra-high resolution ion trap experiments.

For ICR, where the problem of maintaining a low analyzer pressure is critical, coupling of electrospray sources and results obtained were described by J. L. Beauchamp, S. Beu, C. B. Lebrilla, T. B. McMahon, and K.-P. Wanczek. Coupling of laser ionization sources (MALDI) was discussed by G. L. Glish, D. A. Laude, and C. L. Wilkins.

High mass ions of biological origin and metal ion-molecule complexes can now be studied by trapped ion methods (S. Beu, K. Wanczek, J. L. Beauchamp, C. Lebrilla, J. Brodbelt, D. V. Dearden). FTICR studies on distonic ions (H. Kenttämää) and catalysis by metal ion clusters (M. Irion) were also reported.

Interesting posters were presented by K. Jonscher, R. C. Dunbar, R. L. Hettich, C. Ijames, P. Kelley, R. T. McIver, A. Mordehai, D. L. Rempel, D. Favretto, M. Wang, Y. Wang, J. D. Williams, N. A. Yates, J. I. Amster, N. S. Arnold, D. Betowski, E. F. Cromwell, D. Dearden, J.-F. Gal, D. Goeringer, S. Horning, J. M. Ramsey, W. D. Reents, D. P. Ridge, J. C. Schwartz, R. D. Smith, and G. D. Willett. As a new feature of this meeting, poster presenters were given an opportunity to present a 5 minute summary of their posters. The participants felt that this procedure was very effective in encouraging later discussions at the posters.

A. M. Falick