

Indiana Section of the Society for Applied Spectroscopy

May / June 2001 Newsletter

ISSAS 2000-2001 SEMINARS

The final seminar in the 2000-2001 Indiana Section of the Society for Applied Spectroscopy series was held on Monday, April 16, 2001. This seminar featured the work of Dr. Dan Feldheim from North Carolina State University, who presented his research on hybrid organic-metal nanoparticle composites for nanoscale electronics and biotechnology. Dinner followed the meeting at Michael's Uptown Café. We would like to thank Dr. Feldheim and all who attended this seminar on the Indiana University campus.

We are currently working on building the 2001-2002 seminar series. The officers of the ISSAS would welcome any suggestions for speakers to include in our next series. If you would like to suggest a speaker, please contact us at issas@indiana.edu and give us your ideas. Information about the new seminar series will be given in the next ISSAS newsletter.

ISSAS CALL FOR OFFICER NOMINATIONS

With the close of the 2000-2001 year of events, the ISSAS seeks nominations for officers to serve for the 2001-2002 fiscal year. If you would like to nominate yourself or someone you know for a position as an ISSAS officer, please submit your nomination by June 22. Elections will be held on June 29, and the new officers will be announced on our website and in our next newsletter.

THIS MONTH IN SPECTROSCOPY

In June of 1948, A. E. Cameron and D. F. Eggers, Jr. described the development of what type of mass spectrometer?

A linear time-of-flight mass spectrometer was described by A. E. Cameron and D. F. Eggers, Jr. in *Rev. Sci. Instrum.*, **19**, 605, (1948). Cameron and Eggers indicated that

traditional mass spectrometry is insufficient when analyzing fast transient signals. Through the use of an "Ion Velocitron," a packet of ions can be pulsed down a flight tube and the full mass spectrum can be observed on an oscilloscope. A sample gas containing freon-12 and mercury vapor was ionized and analyzed by this technique. Peaks corresponding to atomic and polyatomic ions, as well as multiply charged ions were identified. Cameron and Eggers did observe that the ions generated were not strictly monoenergetic or that they followed different path lengths through the flight tube. This research indicated the need for improved ion focusing techniques in early time of flight mass spectrometry.

Spectroscopy Trivia:

In July of 1963, which two authors introduced Atomic Fluorescence Spectrometry as a means for chemical analyses?

The answer to this question can be found in next the addition of "This Month in Spectroscopy" or log on to the ISSAS trivia page at <http://www.indiana.edu/~issas/trivia.html>.

ISSAS ONLINE

Please remember to check out our website! The ISSAS homepage will keep you updated on local section and national events as well as provide information about our corporate sponsors. Please visit our site at <http://www.indiana.edu/~issas>.

CONTACT INFORMATION

You may contact any of the ISSAS officers via phone (812) 855-7905, email (issas@indiana.edu), fax (812) 855-0958, or write to:

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NEW MEMBERSHIPS

Your local Indiana Section of the Society for Applied Spectroscopy is looking for new members. We invite you to recommend membership to any of your colleagues or students who you may feel would benefit from membership in such an organization. The fee for joining is very reasonable for both professionals and students alike. Membership also includes a subscription to the journal *Applied Spectroscopy*. For further information on ISSAS membership, please feel free to contact us or visit our website at <http://www.indiana.edu/~issas>.

SPONSORS

The Indiana Section of the Society for Applied Spectroscopy would like give a special thank you our corporate sponsors who make this newsletter and seminar series possible:

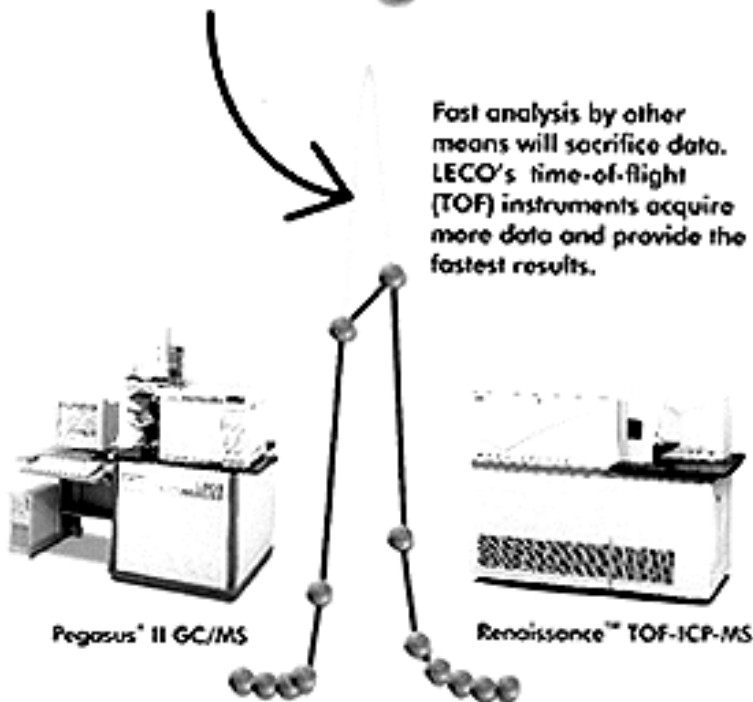
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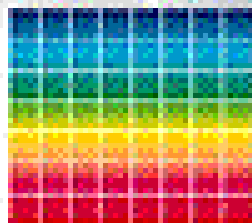
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