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2016 FINAL PROGRAM

SCROLL DOWN TO VIEW ALL SESSIONS AND ABSTRACTS

SUNDAY KEYNOTE LECTURE

[Democratization of Next-Generation Microscopy, Sensing and Diagnostics Tools through Computational Photonics;](#)
[Aydogan Ozcan](#)^{1,2}; ¹California NanoSystems Institute; ²University of California, Los Angeles

MONDAY PLENARY LECTURES

Spectroscopy Magazine's Emerging Leader in Molecular Spectroscopy Award

[Serum Spectroscopic Diagnostics: The Future for Clinical Diagnostics?;](#) [Matthew Baker](#)¹; ¹University of Strathclyde

ITP Plenary Lecture

[Capillary Electrophoresis for bottom-Up Proteomic Analysis of Complex Mixtures;](#) [Norman Dovichi](#)¹, Liangliang Sun¹, Guijie Zhu¹; ¹University of Notre Dame

TUESDAY PLENARY LECTURES

FACSS Charles Mann Award for Applied Raman Spectroscopy

[Process Raman: Reproducibility Drove Capability;](#) [Brian Marquardt](#)^{1,2}; ¹MarqMetrix Inc.; ²University of Washington, APL

Coblentz Society Craver Award

[Multiplexed and Quantitative Bioanalysis Using Surface Enhanced Raman Spectroscopy \(SERS\);](#) [Karen Faulds](#)¹; ¹University of Strathclyde

WEDNESDAY PLENARY LECTURES

ANACHEM Award

[Metallomembranes: Exploring the Interactions of Transition Metal Ions with Lipid Bilayers;](#) [Paul Cremer](#)¹; ¹Penn State University

Applied Spectroscopy William F. Meggers Award

[Probing Reactions Using Time-Resolved Infrared Spectroscopy in Solution and in the Solid State Using Quantum Cascade Lasers;](#) [Mike George](#)¹, James Calladine¹, Raphael Horvath¹, Andrew Davies¹, Alisdair Wriglesworth¹, Xue-zhong Sun¹; ¹University of Nottingham

THURSDAY PLENARY LECTURES

Lester W. Strock Award

[Spectroscopy as an Important Key for Understanding Martian Paleoclimates;](#) [Raymond Arvidson](#)¹; ¹Washington University in Saint Louis

AES Mid Career Award

[Electrophoretic Cytometry: Targeted Proteomics in Single Cells;](#) [Amy Herr](#)¹; ¹University of California, Berkeley

[PDF of FINAL PROGRAM schedule with presentation titles](#)

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SCIX 2016 SESSIONS AND ABSTRACTS:

Tuesday , September 20

16ATOM06: Fundamentals and Applications of Laser Ablation

Location: Greenway A

1:40 pm

[Laser ionization mass spectrometry is not the poor man](#)

LIMS demands a name between the atomic mass spectrometry techniques.

[Jose VADILLO](#)¹, Samara MEDINA¹, J. Javier LASERNA¹; ¹University of Málaga

[SCIX PROGRAM SECTION](#)[CHAIRS](#)[FINAL PROGRAM](#)[CONFERENCE MOBILE APP](#)[SPONSORS](#)[AWARDS](#)[PRESENTER GUIDELINES](#)[ARCHIVE SEARCH](#)[ARCHIVE](#)**Abstract:**

Laser ionization mass spectrometry includes in a broad sense, any laser-based technique capable of generating ions by the direct action of a pulsed laser over a solid sample. Over a certain laser energy, LIMS allows the direct generation of atomic ions without solvents, sample pretreatment or any other time-consuming issues. Thus, what LIBS is to atomic spectrometry, LIMS should be to mass spectrometry. However, atomic mass spectrometry seems to be exclusively taken by LA-ICPMS or GD-MS. Is there any reason for that? The talk will try to analyze strengths and weaknesses to put into the right context the technique.

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American Chemical Society Division of Analytical Chemistry

Council for Near Infrared Spectroscopy

North American Society for Laser-Induced
Breakdown Spectroscopy

AES Electrophoresis Society

Infrared and Raman Discussion Group (IRDG)

American Society for Mass Spectrometry

International Society of Automation - Analysis Division

Society for Applied Spectroscopy

ANACHEM

Royal Society of Chemistry Analytical Division

The Spectroscopical Society of Japan (SPSJ)

Coblentz Society

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