

Mass Media

JEOL

Mass Spectrometry News and Applications

JEOL USA, Inc.

March 2011

Upcoming Events

Pittcon

March 14-17 Booth #2735
Atlanta, GA

Spring ACS

March 28-30 Booth #815
Anaheim, CA

ENC

April 9-15
Pacific Grove, CA

ASMS

June 5-9 Booth #51
Denver, CO

Rocky Mt. Conf. on Analytical Chem.

July 24-28
Snowmass, CO

Contact JEOL

If you would like to speak directly with us, please call 978-536-2310

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See Us at Pittcon

SpiralTOF and AccuTOF-DART

The new SpiralTOF mass spectrometer and AccuTOF-DART will be on display in the **JEOL booth #2735 during Pittcon 2011.**



SpiralTOF™
Highest Resolution MALDI-TOF-TOF
>60,000 (FWHM)
Monolithic Precursor Selection
True High-Energy CID
No PSD Artifacts

After Selection

MALDI-TOFMS

JEOL
Global Solution Provider for Advanced Technology
www.jeolusa.com • salesinfo@jeol.com
978-536-5900

To learn more about SpiralTOF visit www.jeolusa.com/spiral

The [SpiralTOF](#) reinvents Time-of-Flight ion optics with an extended flight length in a compact footprint, delivering a resolving power of greater than 60,000 (FWHM) over a wide mass range of m/z 10-30,000 - the highest resolving power of all commercial MALDI-TOF systems.

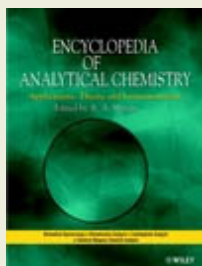
JEOL's patented technology consists of a staggered figure-8 ion trajectory of 17 meters. By refocusing the ion packets during each turn, the divergence of the ions is reduced over the flight distance.

[Our Website](#)

[Back Issues of Mass Media](#)



Mass Spec & NMR Reference Data

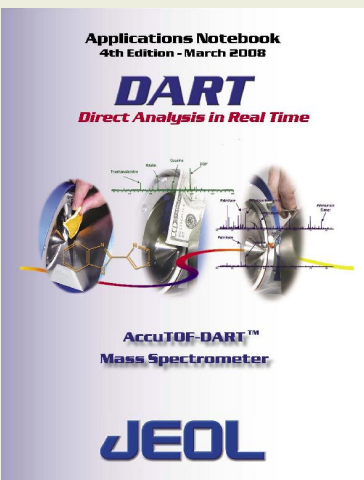


New [Encyclopedia of Analytical Chemistry](#) with chapter on DART by R. Cody and A. Dane

[DART Bibliography of Published Papers](#)

[DART Molecule of the Week](#)

Bookmark www.jeolusa.com for complete access to useful mass spec [Tutorials](#), [NMR Tutorials](#), and [application notes](#).



[Download the complete collection of DART Applications Notes](#)



The [AccuTOF-DART](#) with the latest ion source technology will be on hand for demonstrations. For the past 5 years, the innovative Direct Analysis in Real Time open air ion source has captivated audiences at Pittcon. Since its introduction, more than 100 papers have been published and it is widely accepted for forensics, drug analysis, food-flavors-fragrances, and more.

New! See the DART® XZ Transmission Module in the JEOL booth #2735. Ideal

for rapid identification and quantitation of components present in food products, dietary supplements, and chemicals. Enables analysis in seconds per sample. When combined with the JEOL [AccuTOF](#), the system quickly identifies contaminants or adulterants, providing a critical tool for non-targeted screening.

Not attending Pittcon 2011? [Click here](#) to request more information about JEOL MS and NMR products.

Pittcon 2011 Papers-Posters-Sessions

Sunday, March 13

[Short Course #24 8:30AM - 12:30PM](#)

Nanoliter Sample Handling: From TLC to MALDI, DART and SIMS for the Analysis of Proteins, Agents, Toxics, Polymers and More Using Syringes, Pipettes, Pumps and Other Induction Based Fluidic Devices-*Sauter/Harmon*

[Poster Session #180](#)

The Beer's Law of Mass Spectrometry Again, Part II - *Sater*

[Oral Session #160](#)

Ionization Mechanisms Related to DART and APCI - *Song*

Monday, March 14

[Symposia Session #270](#)

Application of Non-traditional Ionization Sources for Use in Product Development - *Gillespie*

[Poster Session #380](#)

Characterizing Archaeological Residues by DART-MS- *Armitage*

Determining the Survival of Potential Biomarkers in Archaeological Materials by DART-MS -*Fraser*

Development of GC-MS and DART-MS Methods for the Qualitative and Quantitative Analysis of Carbohydrates in Rock Paintings - *Dhakal*

[Oral Session #560](#)

Why MALDI, SIMS and DART Sensitivity Improves 10 to 100x Using Nanoliter Sample Preparation - *Sauter*

Thursday, March 17

[Org. Contributed Session #2280 - 2:40PM](#)

A Perspective on Direct Analysis in Real Time (DART) - *Dane*



Mass Spectrometers

[SpiralTOF MALDI-TOF/TOF MS](#)

[AccuTOF-DART Direct Analysis in Real Time](#)

[AccuTOF-GCv Time of Flight MS](#)

[GCmate II GC/MS Benchtop Double-Focusing MS](#)

[MStation Double-Focusing Magnet Sector MS](#)

NMR Spectrometers

[ECS-400 NMR Spectrometer](#)

[Our EC NMR Series](#)

[Delta Software](#)

ESR Spectrometers

[Electron Spin Resonance Spectrometers](#)

New Western Regional Sales Manager Joins JEOL

JEOL welcomes a new regional sales manager, Don Harrington, to its analytical instrument group. Don will be based out of Colorado, selling the NMR, ESR and AccuTOF product lines. Don has over 10 years experience with mass spectrometry including running the GC/MS lab at the Colorado Dept of Health and Environment. Don has worked in sales and marketing for Teledyne Tekmar, Danaher Hach and came to us from Agilent Technologies (formerly Varian, Inc.). Don holds undergraduate degrees in Chemistry and Marketing, and a Masters in Business Administration. Don likes to "help customers to achieve their strategic goals by adding value and differentiation to their business." Don can be reached at dharrington@jeol.com, or by calling 978-535-5900.

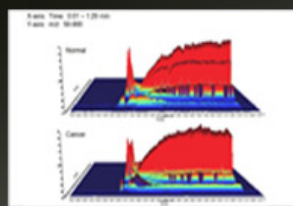


In the News

Initial Trials on New Ovarian Cancer Tests

Scientists at the Georgia Institute of Technology have attained very promising results on their initial investigations of a new test for ovarian cancer.

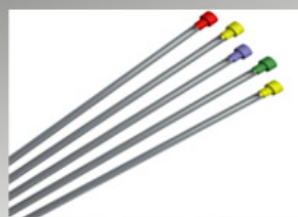
Read the full article in [Science Daily](#).



UAlbany Scientists Help Solve Garlic Riddle

What happens to garlic at the precise moment you cut it? The seemingly simple question has challenged food scientists and chemists for more than 50 years.

Read the full article in [TimesUnion](#).



Probing Proteins for Structure

Identifying a protein's structure offers many benefits to drug discovery and development, and improving technology makes this easier to do.

Read the full article in [Drug Discovery & Development](#).