From: JEOL USA
To: pmansfield@jeol.com;
Subject: New DART SVP Mass Spec at Pittcon 2010
Date: Wednesday, February 24, 2010 3:58:53 PM

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Mass Media

JEOL

Mass Spectrometry News and Applications

JEOL USA, Inc. **March 2010**

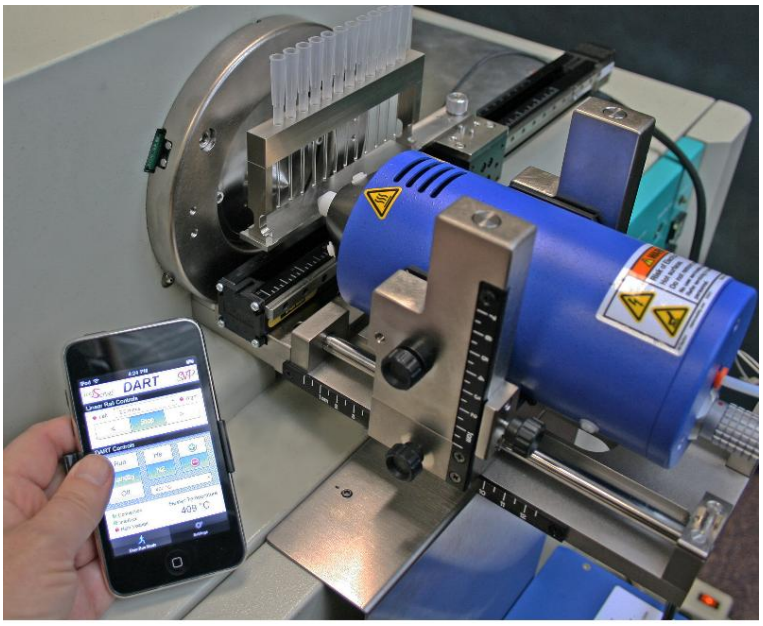
Dear Colleague,

Periodically we report on updates to our mass spectrometry product line, new papers published, and news about JEOL. If you would like to comment or subscribe to this newsletter please contact us at any time. We value your feedback.

JEOL will also be on Facebook very soon. If you would like to become a fan, please log in to your Facebook account and search for JEOLUSA - we should be live in the coming weeks.

Another way to keep apprised - become a member of the JEOL-DART Google Group. Here you can share information with peers, ask questions, and receive regular updates.

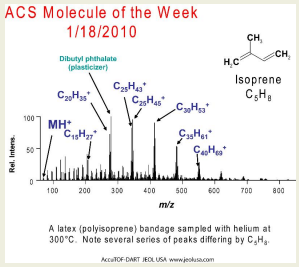
The JEOL Analytical Instruments Team



New DART SVP Source and iDART Automation Streamline JEOL AccuTOF-DART Time-of-Flight Mass Spectrometer Performance

JEOL's award-winning AccuTOF-DART® mass spectrometer, featuring the new iPod touch-enabled DART SVP ion source, offers a new set of performance features for accurate mass measurements in real time using advanced time-of-flight technology.

The new generation of DART ion source, the DART SVP (simplified voltage and pressure), integrates sample automation with flexibility in set up and positioning of the sample for rapid, repeatable performance. A computer-controlled linear rail can be combined with a variety of sample holders - tweezers, a tablet holder, a plate holder, a tube holder, custom holders of all sorts - for precise and automated analysis of samples, TLC plates, and sample tips. Now featuring a wide selectable range of distances between the source and the atmospheric pressure interface (API), the AccuTOF-DART SVP allows for off-axis analyses of surfaces. Direct interfacing between the DART SVP source to the AccuTOF API prevents chemical interferences from altering the analytes prior to analysis. The DART SVP is a more rugged design than the first production series, is easier to operate, conserves gas and uses less energy, and enables the use of low cost nitrogen gas. Read more>>>



AccuTOF-DART analysis of ACS Molecule of the Week

Recent News

IonSense Introduces 3+D Scanner for Open Air Surface Analysis

SAUGUS, MA -- 02/24/10 -- IonSense, Inc. today announced the availability of the 3+D Scanner for rapid chemical analysis of surfaces. The 3+D Scanner is interfaced to the DART®-SVP open-air ionization source. Read more >>>

See JEOL at these Upcoming Events

American Academy of Forensic Sciences (AAFS)
24-26 February
Washington State Convention & Trade Center
Seattle, Washington
Booth #245/247

Pittcon
1 - 4 March 2010
Orange County Convention Center
Orlando, Florida

Booth #2731

American Chemical Society (ACS)
21-24 March 2010
Moscone Center
San Francisco, California
Booth #308

Central North Carolina section of the American Chemical Society 10th Annual Poster/Vendor Night
13 April 2010
Syngenta Crop Protection
Greensboro, No. Carolina

51st Experimental Nuclear Magnetic Resonance Conference (ENC)
18-23 April 2010
Hilton Hotel

Daytona Beach, Florida

Delaware Valley Mass Spectrometry Discussion Group Vendor Night
10 May 2010
Villanova University
Villanova, Pennsylvania

American Society for Mass Spectrometry (ASMS) Conference
23-27 May 2010
Salt Palace Convention Center
Salt Lake City, Utah

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Applications Notebook for AccuTOF-DART™ Open Air Mass Spectrometry

See the new AccuTOF-DART SVP at Pittcon 2010 - Booth # 2731

Talks and Posters

DART users will be presenting the following talks and posters at this year's conference:

Title: **Determination of Amphetamine and Its Major Metabolites in Human Plasma and Human Blood Samples Utilizing MEPS and DART-TOF**
Name: Mohamed Abdel-Rehim
Affiliation: AstraZeneca
Date / Time: Sunday - Afternoon
Location: W415, Valencia Ballroom C and D
Type: Sunday Poster

Title: **Quick: What Is It? Application of the DART Ion Source to Safety and Security**
Name: Robert Cody
Affiliation: JEOL USA, Inc.
Date / Time: Monday - 10:25 AM
Location: 207C
Type: Symposia

Title: **Integration of Direct Analysis in Real Time with a Low Cost Mass Selective Detector (MSD) for Utilization in Food, Forensics, and Pharmaceutical Analysis**
Name: Elizabeth Crawford
Affiliation: IonSense, Inc.
Date / Time: Monday - Afternoon
Location: Blue Area - Hall A2, Aisles 700 - 1300
Type: Poster

Title: Analysis of Suspected Counterfeit Drugs: Application of Emerging Analytical Methods
Name: Richard Steinbeiser
Affiliation: Merck & Co, Inc.
Date / Time: Monday - 3:35 PM
Location: 311D
Type: Organized Contributed Session

Title: Rapid Thermal Profiling by Direct Analysis in Real Time Mass Spectrometry for Automated Detection of Ingredients, Degradation Products and Other Trace Contaminants in Pharmaceutical Tablets
Name: Brian Musselman
Affiliation: IonSense, Inc.
Date / Time: Tuesday - 8:20 AM
Location: 311D
Type: Organized Contributed Session

Title: Nanoliters: From Sample Preparation to Instrument Introduction. Applications of IBF to the Analysis of Proteins, Peptides, Synthetic Polymers, Agents, Explosives, Drugs and Evidence using MS and Other Instrumental Analysis Techniques
Name: Andrew Sauter/Julie Harmon
Date: Wednesday 01:00 PM - 05:00 PM
Number: 13
Type: Short Course

Title: Analysis of Controlled Substances by Use of DART Ionization
Name: Erin Shonsey
Affiliation: ADFS
Date / Time: Thursday - 8:40 AM
Location: 311A
Type: Oral

Title: Principal Component Directed Partial Least Squares Analysis for Combining NMR and MS Data in Metabolomics: Application to the Detection of Breast Cancer
Name: Vincent Asiago
Affiliation: Purdue University
Date / Time: Thursday - 4:15 PM
Location: 307D
Type: Oral

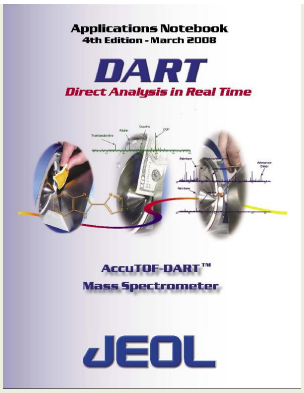
In addition, we will be presenting at the Japan Symposium:

Monday, March 1, 10:25 - 11:00 a.m. Room 207C
DART Mass Spectrometry for Security and Safety. R. Cody

DART Papers to Be Presented during AAFS - Criminalistics Section

8:15 a.m. - 8:30 a.m.
A84 Validation of Thin Layer Chromatography With AccuTOF-DART™ Detection for Forensic Drug Analysis; Susanne E. Howlett, BA*

4:45 p.m. - 5:00 p.m.
A123 Confirmatory Analysis of Selected Controlled Substances by DART-TOF Mass Spectrometry; *Warren C. Samms, PhD*; Yongyi J. Jiang, MS; Mark D. Dixon, BS; Stephen S. Houck, BS; Ashraf Mozayani, PhD, PharmD* Harris County Medical Examiner



The 4th Edition of Applications Notes for the AccuTOF-DART is now available. To download, click on the image.

Mass Spec & NMR Reference Data

Bookmark www.jeolusa.com for complete access to useful mass spec Tutorials , NMR Tutorials, and application notes.

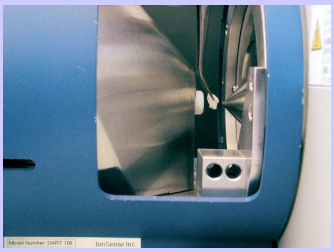
New DART Papers Published to Date during 2010

Bevilacqua, V.L.H.; Nilles, J.M.; Rice, J.S.; Connell, T.R.; Schenning, A.M.; Reilly, L.M.; Durst, H.D. *Ricin Activity Assay by Direct Analysis in Real Time Mass Spectrometry Detection of Adenine Release.* Anal. Chem., 2010, 82 (3), 798-800.

Dane, A.J. and Cody, R. B. *Selective ionization of melamine in powdered milk by using argon direct analysis in real time (DART) mass spectrometry.* Analyst, 2010, Advance Article, Published Online: 05 Feb 2010.

Domin, M.A.; Steinberg, B.D.; Quimby, J.M.; Smith, N.J.; Greene, A. K.; Scott, L.T. *Routine analysis and characterization of highly insoluble polycyclic aromatic compounds by direct analysis in real time mass spectrometry (DART).* Analyst, 2010,

Determination of the Presence or Absence of Sulfur Materials in Drywall



Based on the concern about the presence of sulfur materials being in drywall (wallboard), a quick and reliable test to confirm the presence or absence of these materials using direct analysis in real time (DART) mass spectrometry in conjunction with an accurate-mass time-of-flight (TOF) mass spectrometer has been developed and is described in a new paper by Curtis, Jones, Sparkman, and Cody and published in
Journal of the American Society for Mass Spectrometry,

Volume 20, Issue 11, November 2009, Pages 2082-2086.

Pacific chemistry Professors O. David Sparkman and Patrick Jones, along with second-year graduate student Matthew Curtis, developed the method by using mass spectrometry in conjunction with DART ionization. They were able to determine within minutes whether a sample of drywall possessed harmful sulfur materials.

HerbalScience Identifies Health Benefits of its Elderberry Extract in Multiple Scientific Research Studies

Research Validates Historical Medicinal Use of Elderberry, Demonstrates Mode of Action and Efficacy of HerbalScience's Proprietary Elderberry Extract

The 21st century is seeing renewed interest in traditional and alternative medicine, with a particular focus on herbs and botanicals that have long been thought to have therapeutic qualities. One of those botanicals is elderberry, which for centuries has been used as a home remedy for upper respiratory health to ward off infection. Now, researchers at HerbalScience Group have employed advanced scientific methods and innovative technology to uncover the science behind that traditional use, and have developed a proprietary, standardized elderberry extract with scientifically demonstrable antiviral properties and health benefits.The company's scientists developed new, patent-pending extraction technologies that are able to extract a broad diversity of phytochemicals from botanicals and create consistently reproducible extracts that have a reliable chemical "fingerprint" for each batch and each dose. In addition, using advanced DART (Direct Analysis in Real Time) Time-of-Flight mass spectrometry, the company is able to detect, identify with high accuracy, and quantify the hundreds of individual chemicals present in its extracts in order to identify the key bioactive chemical compounds. Read the full story >>>

Advance Article, Published Online: 12 Jan 2010.

Haunschmidt, M.; Klampfl, C.W.; Buchberger, W.; Hertsens, R. *Rapid identification of stabilisers in polypropylene using time-of-flight mass spectrometry and DART as ion source.* Analyst, 2010, 135, 80-85.

Haunschmidt, M.; Klampfl, C.W.; Buchberger, W.; Hertsens, R. *Determination of organic UV filters in water by stir bar sorptive extraction and direct analysis in real-time mass spectrometry.* Anal. Bioanal. Chem., 2010, Published Online: 03 Feb 2010.

Helmy, R.; Schafer, W.; Buhler, L.; Marcinko, S.; Musselman, B.; Guidry, E.; Jenkins, H.; Fleitz, F.; Welch, C.J. *Ambient Pressure Desorption Ionization Mass Spectrometry in Support of Preclinical Pharmaceutical Development.* Org. Process Res. Dev., 2010, Article ASAP, Published Online: 10 Feb 2010

Kubec, R.; Cody, R.B.; Dane, A.J.; Musah, R. A.; Schraml, J.; Vattekkatte, A.; Block, E. *Applications of Direct Analysis in Real Time Mass Spectrometry (DART-MS) in Allium Chemistry (Z)-Butanethial S-Oxide and 1-Butenyl Thiosulfinates and Their S-(E)-1-Butenylcysteine S-Oxide Precursor from Allium siculum.* J. Agric. Food Chem., 2010, 58(2), 1121-1128.

Rothenbacher, T. and

Schwack, W. *Rapid identification of additives in poly(vinyl chloride) lid gaskets by direct analysis in real time ionisation and single-quadrupole mass spectrometry.* Rapid Comm. Mass Spec., 2010, 24(1), 21-29.

Block, E.; Cody, R.B.; Dane, A.J.; Sheridan, R.: Vattekkatte, A.; and Wang, K. *Allium chemistry: Use of new instrumental techniques to "see" reactive organosulfer species formed upon crushing garlic and onion.* Pure Appl. Chem., 2010, ASAP Article, Published online: 14 Feb 2010.

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