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# Mass Media

## JEOL

Mass Spectrometry News and Applications  
JEOL USA, Inc.

August 2012

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### Mass Spec Reference Data



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

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## JEOL

### Mass Spectrometers

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

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

[AccuTOF-GCV/4G Time of Flight 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](#)

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### 2012 Schedule of Events

[New Jersey Mass Spectrometry Discussion Group](#)

Sep 06, 2012  
Somerset, NJ

[SMASH](#)

Sep 09 - Sep 12, 2012  
Providence, RI

[International Mass Spectrometry Conference](#)

Sep 15 - Sep 21, 2012  
Keynote lecture and luncheon seminar, mass spectrometry  
Kyoto, Japan

[ASMS Asilomar](#)

Oct 05 - Oct 09, 2012  
Food safety lecture, mass spectrometry  
Monterey, CA

[Practical Applications of NMR in Industry Conference \(PANIC\)](#)

Oct 15 - Oct 17, 2012  
Schlumberger, IL

[Greater Boston Mass Spec. Discussion Group Vendor Night](#)

October 18, 2012  
Cambridge, MA

[FACSS](#)

Nov 01, 2012  
Mass Spectrometry Talk  
Detroit, MI

[EAS](#)

Nov 12 - Nov 14, 2012  
Somerset, NJ

[SERMACS](#)

Nov 14 - Nov 17, 2012  
Invited DART Talk  
Raleigh, NC

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### See Us at These Upcoming Events

If you're planning to attend any of the following meetings, please note JEOL has several talks scheduled, and we'll be on hand to meet you.

#### New Jersey Mass Spectrometry Discussion Group (NJMSDG) Awards/Vendor Night - September 6, 2012

Please join us for Workshop Session I (2:30 - 3:15). **"A New Approach to MALDI: The SpiralTOF™ MALDI-TOF/TOF Mass Spectrometer"**  
Summary: One way to improve the resolving power of a time-of-flight (TOF) mass spectrometer is to increase the flight path length. However, this can rapidly result in the mass spectrometer becoming too large for the lab! Dr. Chip Cody will present this discussion on the design and operation of the SpiralTOF MALDI-TOF/TOF. For the meeting website, [click here](#) or [here for a detailed schedule](#).

#### International Mass Spectrometry Conference, Kyoto, Japan - September 17, 2012

Luncheon seminar (12:20 - 1:30). Two presentations: "Direct Analysis in Real Time (DART): New applications and futures prospects" (Dr. Chip Cody) and "Analyses of Lipids Using SpiralTOF MALDI-TOF/TOF Tandem MS: Structural Analyses and Highly Selective Imaging" (Jun Tamura).

Several oral and poster presentations are scheduled for Mon-Thurs.

There will be a remote demonstration of the SpiralTOF MALDI-TOF/TOF.

We will also display posters from recent conferences in the JEOL meeting room.

For the meeting website, [click here](#), or for a detailed schedule, [click here](#).

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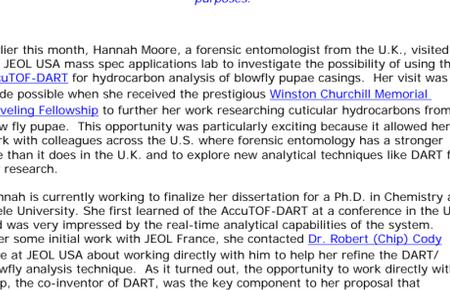
### New GC-TOF 4G Model Introduced



JEOL's newest AccuTOF GCv model - the "4G" - now offers even faster data acquisition rates and higher resolving power than its predecessor. The [AccuTOF-GCV/4G](#) has a maximum data acquisition rate of 50 spectra per second and a resolving power of 8000. The 50 Hz acquisition rate now makes it possible to acquire high-resolution mass spectra in combination with third party two-dimensional GC (GCxGC). The AccuTOF-GCV/4G offers the highest sensitivity (S/N >100 at OFN 1 pg/μL) commercially available in any GC-TOF system. JEOL's unique combination EI/FI/FD ion source offers both molecular weight information (field ionization and field desorption: FI and FD) and classical library-searchable (electron ionization: EI) mass spectra without having to change ion sources.

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### Hydrocarbons, Forensics, and DART Bring UK Ph.D. Student to JEOL



Hannah Moore, a PhD student from the UK, spent 2 weeks with Dr. Chip Cody and Dr. John Dane working on hydrocarbon analysis of blow files for forensics purposes.

Earlier this month, Hannah Moore, a forensic entomologist from the U.K., visited the JEOL USA mass spec applications lab to investigate the possibility of using the [AccuTOF-DART](#) for hydrocarbon analysis of blowfly pupae casings. Her visit was made possible when she received the prestigious [Winston Churchill Memorial Traveling Fellowship](#) to further her work researching cuticular hydrocarbons from blow fly pupae. This opportunity was particularly exciting because it allowed her to work with colleagues across the U.S. where forensic entomology has a stronger role than it does in the U.K. and to explore new analytical techniques like DART for her research.

Hannah is currently working to finalize her dissertation for a Ph.D. in Chemistry at Keele University. She first learned of the AccuTOF-DART at a conference in the U.K. and was very impressed by the real-time analytical capabilities of the system. After some initial work with JEOL France, she contacted [Dr. Robert \(Chip\) Cody](#) here at JEOL USA about working directly with him to help her refine the DART/blowfly analysis technique. As it turned out, the opportunity to work directly with Chip, the co-inventor of DART, was the key component to her proposal that resulted in her receiving the Winston Churchill Memorial Traveling Fellowship. This award was established in Winston Churchill's honor to enable British citizens to "bring back knowledge and best practice for the benefit of others in their U.K. professions and communities."

During her 6-week visit to the U.S., her travels took her first to the [Forensic Laboratory for Investigative Entomological Sciences \(FLIES\) Facility](#) at Texas A&M, where she worked with Dr. Jeffrey Tomberlin, a renowned expert in the field. From there, she presented her research at the [North American Association of Forensic Entomologists](#) in Las Vegas and was awarded best student presentation, much to her surprise. From there she traveled to Michigan State University to work with Dr. Richard Merritt at the [Aquatic and Forensic Entomology Lab](#). She then went on to Dayton University to visit with Asst. Prof. Eric Benbow whose research focuses on [ecosystem ecology](#). Next, she spent time at Ohio State University working with Captain David Rose of the university police force. Her stay at Ohio State also included a visit to the state crime lab.

The last stop on Hannah's scientific tour was a 2-week visit to JEOL USA in Peabody, MA. During her visit, Dr. Cody applied some recent discoveries about the AccuTOF-DART to the analysis of insect cuticular hydrocarbons. While traditional analytical methods such as those done with the GC/MS system take about 40 minutes per sample, the same analysis was completed in mere seconds with the AccuTOF-DART. These data will appear in a forthcoming collaborative publication with Hannah.

As for the future, Hannah hopes to complete her Ph.D. in December and then move into a postdoctoral research position. An article she wrote earlier this year will be published in March 2013 in the Journal of Forensic Science.

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### New Western Area Sales Manager

On June 4, 2012 Jonathon (Jon) Bunn joined the Analytical Instruments Sales team as our new AI Sales Manager for the U.S. Western Region. Jon is based in the Denver, Colorado area.

Jon holds both a Bachelor's degree in Economics and a Bachelor's degree in Chemistry. Medicinal Chemistry Research from the University of Kansas. Additionally, he has a Bachelor's degree in Synthetic Chemistry from the University of Regensburg in Germany.

Most recently Jon worked at the University of Kansas as a Synthetic Chemist, and previously he worked at Nova Tech LLC as the sole Quality Control Technician.

Jon can be reached by email at [jbunn@jeol.com](mailto:jbunn@jeol.com) or by cell phone at 978-495-2194.

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### New Applications Notebook Online for SpiralTOF MALDI-TOF/TOF



We've compiled over 20 application notes to produce this new book, featuring an introductory article and bibliography. The applications notes are presented by category and describe the analysis of synthetic polymers, small organic molecules, complex drug mixtures, peptides, and proteins using the [JEOL SpiralTOF MALDI-TOF/TOF](#) mass spectrometer.

The SpiralTOF time-of-flight optics design utilizes a figure-eight ion trajectory to allow a 17m flight path to fit in an extremely small console. This exceptionally long flight path results in an ultrahigh resolving power of >60,000 and sub-ppm mass accuracy. The optional TOF-TOF mode makes it the only MALDI TOF-TOF system capable of acquiring high-energy CID product-ion mass spectra for monoisotopically selected precursor ions.

[Download the book online](#), or [contact us](#) for a printed, bound copy.

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