

# LabAutomation 2010

Where Science, Technology and Industry Come Together

Palm Springs Convention Center  
Palm Springs, CA, USA  
January 23–27, 2010

[labautomation.org/LA10](http://labautomation.org/LA10)

## Preliminary Program

Premier Sponsor:



Agilent Technologies

### Register Now!

Register by December 14 for Maximum Savings. Visit [labautomation.org/LA10](http://labautomation.org/LA10)

### LabAutomation2010 Plenary Series Speakers



**R. Graham Cooks:**

Henry B. Haas  
Distinguished Professor  
of Analytical Chemistry,  
Purdue University



**Hod Lipson:**

Associate Professor,  
Mechanical and  
Aerospace Engineering,  
Cornell University



**Bruce Sterling:**

American Science Fiction  
Novelist, Self-Proclaimed  
Blogger and Design Critic,  
Columnist for *WIRED*  
and *MAKE* Magazines



Association for Laboratory Automation

ALA is a non-profit association committed to driving progress in laboratory technologies through high-quality education that benefits the global scientific community, including its membership of scientists, engineers, academicians, and thought leaders.



## LabAutomation2010 Preliminary Program

**“Continuing training is necessary for workers to keep pace with current developments in their fields.** It may take the form of on-the-job training or formal training, or it may consist of attending conferences or meetings of professional societies. Workers who fail to remain current in their field and related disciplines may face unfavorable job prospects if interest in their specific area declines.”

*From the U.S. Bureau of Labor Statistics, U.S. Department of Labor, Career Guide to Industries, 2008–09 Edition, Scientific Research and Development Services*

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Information in this program subject to change.

## The Bottom Line

In this economy, successful businesses and organizations take nothing for granted. Travel and training budgets are carefully scrutinized, and opportunities are weighed in terms of which can generate the greatest return on investment. These decisions can be tough, but they're just good business. Each year, the LabAutomation conference and exhibition brings together more than 250 multi-national companies with approximately 4,000 researchers and professionals from more than 40 countries to one premier event in Palm Springs, CA, USA. In today's 24/7/365 global economy, what better way to consolidate, concentrate and meet your educational and business objectives. Now is the time to begin making conference plans for LabAutomation2010.

- **Don't Let Economic Conditions Slow You Down.** To help make the LabAutomation2010 experience both affordable and well-founded, ALA has developed the LabAutomation2010 Smart-Savers Program. The extraordinary cost-savings program offers discounts on everything from registration to hotel to travel including: the lowest local rates available on hotels, as low as \$140, \$200 off airfare and much more.
- **First Class Educational Program.** LabAutomation2010 hosts the world's top 100 laboratory automation podium presentations, 18 short courses, an outstanding plenary series, vendor-specific workshops, and much more to choose from. Use *myALA* Conference Planner and set the curriculum and personal itinerary that meets your needs.
- **A Plethora of Educational and Growth Opportunities.** In keeping with its mission to advance science and education related to laboratory automation, ALA has collaborated and partnered with leading scientific organizations to offer new relevant educational sessions and informational briefings.
- **Receive Value.** LabAutomation2010 is the world's only conference where you can find multi-disciplinary, cross-industry educational presentations on laboratory automation technologies and strategies at an average cost of \$15 per presentation for Academic Members; and \$45 per presentation for Industry Members.
- **Acquire Hands-On Know-How.** Only at LabAutomation2010 can you actively engage—seeing, touching, and feeling—with the newest technology products and automation services from around the world, all of which are highlighted through programs such as the ALA New Product Award (NPA) Designation competition, and the one-of-a-kind Innovation Ave*NEW* initiative featuring elite start-up companies breaking into the market place.
- **Leverage.** LabAutomation2010 enables you to acquire the most current information in an interactive environment helping to protect, leverage and enhance significant investments in technology, and your development as a researcher and professional.

### How to Get Your Employer to Approve Your Participation in LabAutomation2010

Don't just ask your employers to approve "your trip" to LabAutomation2010. Instead, present them with a sound business case that rationally justifies "your participation" by illustrating the benefits they can expect to receive in return for their investment. For examples of appropriate rationales, visit [labautomation.org/LA10/employerapproval.cfm](http://labautomation.org/LA10/employerapproval.cfm).

**Register Early and Save!** Register by December 14 and save up to \$200. Then book an airline ticket online through the LabAutomation Travel Agent and you may be eligible to participate in our "Take-Off With ALA" flight discount program and save \$200 on your airfare.



## Short Courses Overview: Experience Accelerated Educational Opportunities



**The LabAutomation2010 Short Course Program provides a rapid introduction to topics, issues and techniques related to the laboratory automation industry.** Each course is a full day and is led by distinguished faculty with deep expertise in their respective course topic. Short courses have been a highlight of LabAutomation conferences in the past and are suited for students, faculty, industry, and technology providers. Each course is organized separately, though individuals will benefit from attending two days of short courses. For additional information on the Short Course Program, visit [labautomation.org/LA10](http://labautomation.org/LA10).

**Short Course Discount for Members:** Save 20 percent on a Sunday short course by purchasing a Saturday course. This discount is already calculated in the price of the course. The discount is not available to students and does not apply to course books.

## Short Courses Overview, Continued

# LabAutomation 2010

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### Saturday, January 23, 8:30 am–4:30 pm

#### **NEW! Automated Liquid Handling in Accredited or Forensic Environments**

*Michael Stangegaard, University of Copenhagen  
Anders Johannes Hansen, University of Copenhagen*

Laboratories are increasingly challenged to be standardized, certified or even accredited. This course presents an introduction to the process of standardizing, validating and accrediting automated liquid handling in both conventional and forensic environments.

#### **Biostatistics and Exploratory Data Analysis**

*Gerry Hobbs, West Virginia University*

This course is designed to show students how to analyze data with a single continuous response variable. Students will learn to perform exploratory data analysis (EDA) and discover patterns in data. Important statistical inference concepts will be discussed. Students will get hands-on experience using JMP software to apply statistical techniques such as: t-tests, analysis of variance (ANOVA), linear regression, and analysis of covariance (ANCOVA). The evaluation of mathematical assumptions is discussed and graphical displays are used to illustrate the results of all analyses.

#### **Electronic Laboratory Notebooks**

*John Trigg, phaseFour Informatics*

This course will outline the role of an Electronic Laboratory Notebook, addressing functional and user requirements, legal and IP issues, cost/benefit and implementation strategies.

#### **Introduction to Laboratory Automation**

*Steven D. Hamilton, Sanitas Consulting  
Gary W. Kramer, National Institute of Standards and Technology  
Mark F. Russo*

This course presents a broad introduction to the field of industrial (i.e. non-clinical) laboratory automation. A general understanding of a laboratory environment is helpful.

#### **Liquid Handling Boot Camp—A Beginner's Hands-On Introduction to Lab Automation**

*Douglas Gurevitch, University of California, San Diego  
Petar Stojadinović, National University  
Justin Provchy, Amgen, Inc.*

This course is designed for a beginner or novice user or person interested in learning about lab automation in a hands-on environment. One-third of the class time is lecture and two-thirds is hands-on work with the robots.

#### **Molecular Diagnostic Automation**

*Patrick Merel, Plateforme Technologique d'Innovation Biomédicale*

This course is designed for anyone seeking to improve throughput and automation levels of molecular testing, or wanting to have an overview on solutions for Nucleic Acid Testing automation.

From Nucleic acid extraction to Realtime PCR, SNP Genotyping to Next Generation Sequencing, participants will review many of the automated platforms and solutions available today for molecular diagnostic. Upcoming and emerging technologies for molecular testing will also be discussed.

#### **NEW! XML for the Laboratory**

*Burkhard Schaefer, BSSN Software  
Torsten Staab, White Oak Technologies, Inc.*

The Extensible Markup Language (XML) has become a major player in data storage, exchange and archiving applications. The shift towards XML also is noticeable in the laboratory informatics community. XML is widely used as an exchange format, and upcoming XML-based standard formats, such as the Analytical Information Markup Language (AnIML), provide sophisticated means of capturing experiment data.

This computer-based short course provides an introduction to XML and examines how it can be used in a laboratory environment. Using a healthy mix of theory and hands-on exercises, it helps provide guidance when it comes to evaluating XML applications in the laboratory.



## Short Courses Overview, Continued

**Sunday, January 24, 8:30 am–4:30 pm**

### **Applied Information Technology for the Laboratory**

*Burkhard Schaefer, BSSN Software  
Torsten Staab, White Oak Technologies, Inc.*

This course provides decision-makers and practitioners from bio-pharma, healthcare, and academia with a comprehensive overview of IT topics and trends in laboratory automation, data management, and systems integration.

### **Designing and Implementing the Electronic Laboratory**

*Robert D. McDowall, McDowall Consulting*

Business pressures are forcing the pharmaceutical industry to reduce costs and improve efficiency. Analytical Laboratories are one of the rate limiting areas where often the business is waiting on the analytical results before making a decision on what to do next or release a product. Efficiency improvements are clearly and urgently required but how should a laboratory plan to achieve them?

The paperless laboratory has been a dream for a number of years. Now we have the regulation in 21 CFR 11 (electronic records and electronic signatures) that allows us to work electronically and sign records with electronic signatures. There are many applications and automated systems available that can be implemented and integrated to make the laboratory paperless. The problem is, do laboratories have the vision to do this? Many laboratories have LIMS, ELN and instrument data systems but often the only way these systems are interfaced is by paper printouts and manual data entry.

### **Intermediate Excel and VBA in the Laboratory**

*Mark F. Russo  
Steve Carafello, Integrated Systems & Services Group®*

This course builds upon *Getting Started with Excel and VBA in the Laboratory* by exploring more advanced features of Excel 2007. Topics covered include importing data from files and relational databases, data processing, creation of custom user interfaces, and communication with external programs.

### **Introduction to Bar Code Technology**

*Niels Wartenberg, Microscan Systems, Inc.  
Daniel Cinicola, Amgen, Inc.*

This course provides an introduction to bar codes, bar code technologies, and how they are used in the BioPharmaceutical laboratory. A basic understanding of the use of bar codes either in or outside the laboratory environment is useful but not required. Typical attendees include scientists, engineers, lab managers, marketing and sales professionals, and students.

### **Introduction to the Design of Experiments (DOE)**

*Wayne Levin, Predictum Management Sciences*

Design of Experiments is a set of statistical methodologies that increase the amount of insights learned by conducting a pattern of tests. This hands-on course will focus on experimental design methodologies and techniques.

### **Introduction to Laboratory Automation**

*Steven D. Hamilton, Sanitas Consulting  
Gary W. Kramer, National Institute of Standards and Technology  
James M. Gill II*

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## Short Courses Overview, Continued

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### Mass Spectrometry in Drug Discovery, Proteomics, and Metabolomics

*Mike Greig, Pfizer Global R&D, La Jolla*  
*Gary Siuzdak, The Scripps Research Institute*

This course offers an overview of mass spectrometry with applications in proteomics, metabolomics and drug discovery. Typical attendees include scientists, engineers, managers, investors, students, and sales professionals.

### Technical Project Management

*Brian J. Koziol, Amgen, Inc.*  
*David James, Invetech*

Course objectives include mapping the phases of a project; introducing specific project management tools; and discussing and demonstrating the application of these tools in the development and implementation of new technologies and processes for diagnostics, manufacturing and drug discovery.

Project phases include project planning, management and execution, and evaluation and reporting. Tools discussed will include the Gantt chart, application of the concept of earned value, scenario and contingency planning, risk assessment, stakeholder analysis, identifying and managing the project's critical path, and various other techniques used to manage people (teams), budget and time.

## Two-Day Courses, Saturday and Sunday, January 23 and 24, 8:30 am–4:30 pm

### Getting Started With Excel and VBA in the Laboratory

*William Neil*  
*Martin Echols*

Excel is widely used in scientific laboratories to automate tedious data manipulation and presentation tasks. This course will review many of the tools built into Excel for handling problems commonly encountered in the laboratory. It will also introduce the Visual Basic for Applications scripting language as a way to customize Excel and expand upon its functionality.

### Microfluidics I/II

*Jörg P. Kutter, Technical University of Denmark*  
*Johan Nilsson, Lund University*  
*Sabeth Verpoorte, University of Groningen*

This course is an introduction to microfluidics and the application of this technology in the life sciences. It is designed to give a compact overview of the main important aspects of working with liquids in confined spaces as well as handling of minute amounts of chemicals, highlighting the essential differences between microfluidic-based approaches and more traditional biochemical analysis systems. The attendees will receive a broad "first glimpse" impression of all the different bits and pieces (technological, physical and chemical) that are necessary to arrive at functional lab-on-a-chip devices.

### ALA Bookstore Provides Onsite Purchasing

BreakPoint Books offers the latest and greatest books related to laboratory automation for purchase onsite in Palm Springs. The bookstore features books both written and recommended by LabAutomation2010 speakers. To suggest books that should be available in the bookstore, contact:

**BreakPoint Books:** +1.352.383.4656 phone; +1.352.383.4403 fax; [doug@breakpointbooks.com](mailto:doug@breakpointbooks.com);  
[www.breakpointbooks.com](http://www.breakpointbooks.com)

## Plenary Speaker Series—Be Inspired by the Industry’s Leading Minds

Each year LabAutomation features an outstanding series of plenary speakers whose work exemplifies ALA’s mission—to advance science and education related to laboratory automation. Attend LabAutomation2010 to interact with the visionaries who inspire us all.



### Monday, January 25; 9 am—Opening Keynote Address

**R. Graham Cooks**

Henry B. Haas Distinguished Professor of Analytical Chemistry, Purdue University

**Changing Landscape of Mass Spectrometry: Ambient Ionization, Miniature Instruments and Preparative MS for Biomedical, Clinical, Environmental and Forensic Applications**

The rapid evolution of mass spectrometry (MS) continues unabated. This presentation covers recent progress in three growth areas: (i) ambient ionization methods which are characterized by minimal sample preparation, high throughput and in situ chemical analysis; (ii) miniature mass spectrometers, especially fully autonomous handheld instruments fitted with ambient ionization sources and capable of tandem mass spectrometry experiments to allow complex mixture analysis in situ; (iii) ion soft landing and related experiments in which mass-selected ions are deposited, reacted or collected at surfaces.



### Tuesday, January 26; 9 am—Featured Plenary Speaker

**Hod Lipson**

Associate Professor Mechanical and Aerospace Engineering, Cornell University

**Distilling Freeform Natural Laws from Experimental Data  
—From Robotics to Molecular Biology**

A key challenge to finding analytic relationships automatically is defining algorithmically what makes a correlation in observed data significant and non-trivial. This talk will propose a new principle for the identification of natural laws directly from observations. The effectiveness of this approach will be demonstrated by automatically searching data from a variety of mechanical and biological systems, from robotics to metabolic networks.



### Wednesday, January 27; 12:45 pm—Awards Luncheon & Closing Ceremony

**Bruce Sterling**

American Science Fiction Novelist, Former Twilight Zone Writer/Actor, Self-Proclaimed Blogger and Design Critic, and Columnist for *WIRED* and *MAKE* Magazines

A true American science fiction author, Sterling is best known for his novels and seminal work on the *Mirrorshades* anthology, which helped define the cyberpunk genre. Sterling has written eight science fiction novels and three short story collections taking away several awards for his work. The author also travels the world extensively giving speeches and attending conferences.

Sterling has appeared on ABC’s *Nightline*, BBC’s *The Late Show*, CBC’s *Morningside*, MTV, and in the *Wall Street Journal*, *Time*, *Newsweek*, *Fortune*, *Nature*, *The New York Times*, and *Der Spiegel*.



# Program-at-a-Glance

Program subject to change. For additional information go to [labautomation.org/LA10](http://labautomation.org/LA10)

<b>Saturday, January 23, 2010</b>					
8:30 am–4:30 pm	<b>Short Courses: NEW</b> —Automated Liquid Handling in Accredited or Forensic Environments; Biostatistics and Exploratory Data Analysis; Electronic Laboratory Notebooks; Introduction to Laboratory Automation; Liquid Handling Boot Camp; Molecular Diagnostic Automation; <b>NEW</b> —XML for the Laboratory <b>Saturday and Sunday (two-day courses):</b> Getting Started With Excel and VBA in the Laboratory; Microfluidics I/II				
<b>Sunday, January 24, 2010</b>					
8:30 am–4:30 pm	<b>Short Courses:</b> Applied Information Technology for the Laboratory; Designing and Implementing the Electronic Laboratory; Intermediate Excel and VBA in the Laboratory; Introduction to Bar Code Technology; Introduction to Design of Experiments (DOE); Introduction to Laboratory Automation; Liquid Handling Boot Camp; Mass Spectrometry in Drug Discovery, Proteomics and Metabolomics; Technical Project Management <b>Saturday and Sunday (two-day courses):</b> Getting Started With Excel and VBA in the Laboratory; Microfluidics I/II				
4:30–7:00 pm	<b>Opening Reception in Exhibit Hall</b>				
5:00–6:00 pm	<b>Student and Early Career Professionals Mixer</b>				
7:00–9:00 pm	<b>LabAutomation2010 Opening Night Celebration</b> —Sponsored by Agilent Technologies				
<b>Monday, January 25, 2010</b>					
7:30–8:30 am	<b>Laboratory Products Association to Announce Preliminary Results for 2009 North American Laboratory Purchasing Trends Report</b>				
8:30 am	<b>Plenary Session Chair:</b> Robyn A. Rourick, Program Chair, Analytical Consultant				
9:00 am	<b>Opening Keynote Speaker:</b> R. Graham Cooks, Henry B. Haas Distinguished Professor of Analytical Chemistry, Purdue University				Sponsored by: Thermo Scientific
10:00 am	<b>Break</b> —Sponsored by: Gems, Sensors, and Controls				
10:00 am–6:00 pm	<b>ALA Career Connections Open</b>				
10:00 am–6:00 pm	<b>Exhibits Open</b>				
	<b>Track 1: Detection &amp; Separation</b>	<b>Track 2: Micro- and Nanotechnologies</b>	<b>Track 3: High-Throughput Technologies</b>	<b>Track 4: Informatics</b> Sponsored by: Artus Labs	<b>Track 5: Evolving Applications of Laboratory Automation, featuring Agriculture and Food</b>
10:30 am–12:30 pm	<b>Session 1</b>				
	Mass Spectrometry: Tissue Imaging and Miniaturized Mass Spectrometry	Multiplexed Microfluidic Systems	Profiling for Drug Discovery and Translational Sciences	Laboratory Informatics—A Cross Discipline Look	Ag Biotechnology Applications
12:30–1:00 pm	<b>Lunch Break in Exhibit Hall</b> —Sponsored by: Laboratory Products Association				
12:30–2:00 pm	<b>Industry-Sponsored Workshops</b>				
12:30–2:00 pm	<b>Market Overview: India's Emerging Pharmaceutical Market</b>				
1:00–3:00 pm	<b>Posters</b>				
3:00–5:00 pm	<b>Session 2</b>				
	Miniaturized Detectors	Nanotechnology for Drug Delivery	Technologies Accelerating Biotherapeutics Discovery	Data Management, Mining & Visualization	Biofuels
5:00–6:30 pm	<b>Reception in the Exhibit Hall Celebrating JALA Authors</b>				
7:00–9:00 pm	<b>Late Night With LRIG: Rapid-Fire Innovation Session</b>				
<b>Tuesday, January 26, 2010</b>					
8:00 am–3:30 pm	<b>Life After Graduate School &amp; Your First Year on the Job</b> —Presented by the American Chemical Society				
9:00 am	<b>Plenary Session Chair:</b> Adam Woolley, Associate Program Chair, Brigham Young University <b>Featured Plenary Speaker:</b> Hod Lipson, Associate Professor Mechanical and Aerospace Engineering, Cornell University				Sponsored by: Thermo Scientific
10:00 am	<b>Break</b>				
10:00 am–6:00 pm	<b>ALA Career Connections Open</b>				
10:00 am–6:00 pm	<b>Exhibits Open</b>				
10:30 am–12:30 pm	<b>Session 3</b>				
	Separations	Tissue-on-a-Chip	Novel Technologies and Approaches to Modern Sample Management	Future of Laboratory Informatics	Emerging Technologies
12:30–1:00 pm	<b>Lunch Break in Exhibit Hall</b> —Sponsored by Analytical & Life Science Systems Association				
12:30–2:00 pm	<b>Industry-Sponsored Workshops</b>				
1:00–3:00 pm	<b>Posters</b>				
3:00–5:00 pm	<b>Session 4</b>				
	Clinical, Pharmaceutical, and Forensic Applications	Nanotechnology for Cell Culture	Assays on Target: Screening With Primary Cells	Partnerships: Use Cases in Advancing the Vendor/ Customer Relationship	Point-of-Service Assays
5:00–6:00 pm	<b>Reception in the Exhibit Hall</b>				
9:00–10:30 pm	<b>JALA VIP Reception (Invitation Only)</b>				
<b>Wednesday, January 27, 2010</b>					
9:00–11:00 am	<b>Session 5</b>				
	Process Analytical Technology	New Device Architectures for Lab-on-a-Chip Systems	Parallel Process Advances	Advancing the Portfolio With Informatics	Applications of Separations and Detection to Food and Agriculture
11:00 am	<b>Break</b>				
11:15 am–12:45 pm	<b>Special Sessions</b>				
	The MFS Center: Pioneering Commercialization from Academia to Market				
	The SILA Consortium for Standardization in Laboratory Automation				
12:45–2:30 pm	<b>Award Luncheon &amp; Closing Ceremony</b> <b>Special Speaker:</b> Bruce Sterling, American Science Fiction Novelist, Former Twilight Zone Writer/Actor, Columnist for <i>WIRED</i> and <i>MAKE</i> Magazines, Design Critic and Self-Proclaimed Blogger				Sponsored by: Thermo Scientific
	<b>ALA Innovation Award Announcement: \$10,000 Cash Award</b>				

## Program Overview



### myALA Conference Planner

To make the most of your LabAutomation2010 experience, be sure to use *myALA* Conference Planner. It's a personal appointment and networking service designed specifically to help conference participants make appointments, set itineraries, and search for products, services and companies at LabAutomation2010. Set your personal conference and exhibition preferences today!

Program subject to change.

Sunday, January 24, 2010	
4:30–7:00 pm	Opening Reception in Exhibit Hall
5:00–6:00 pm	Student and Early Career Professionals Mixer
7:00–9:00 pm	LabAutomation2010 Opening Night Celebration <span style="float: right;">Sponsored by:  Agilent Technologies</span>
Monday, January 25, 2010	
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8:30–9:00 am	Opening Plenary Session Chair: Robyn A. Rourick, Program Chairman, Analytical Consultant
9:00–10:00 am	Opening Keynote Speaker: R. Graham Cooks, Henry B. Haas Distinguished Professor of Analytical Chemistry, Purdue University Presentation: Changing Landscape of Mass Spectrometry: Ambient Ionization, Miniature Instruments and Preparative MS for Biomedical, Clinical, Environmental and Forensic Applications <span style="float: right;">Sponsored by:  Thermo SCIENTIFIC</span>
10:00 am–10:30 am	Break <span style="float: right;">Sponsored by:  Gems</span>
10:00 am–6:00 pm	ALA Career Connections Open
10:00 am–6:30 pm	Exhibits Open
10:30 am–12:30 pm	Detection and Separation—Track 1 Mass Spectrometry: Tissue Imaging and Miniaturized Mass Spectrometry Chair: Lingjun Li, University of Wisconsin
10:30 am	Tissue Imaging With Nanostructure Initiator Mass Spectrometry (NIMS); Gary Siuzdak, The Scripps Research Institute
11:00 am	Development of Miniature Mass Spectrometry Analysis Systems; Zheng Ouyang, Purdue University
11:30 am	Challenges and Solutions to Miniaturization of a Gas Chromatograph Toroidal Ion Trap Mass Spectrometer; Edgar Lee, Torion Technologies, Inc.
12:00 pm	Mass Spectral Imaging and Profiling of Signaling Molecules at the Organ and Cellular Domains; Lingjun Li, University of Wisconsin
10:30 am–12:30 pm	Micro- and Nanotechnologies—Track 2 Multiplexed Microfluidic Systems Chair: Eric Lagally, University of British Columbia
10:30 am	Integrated Microfluidic Systems for High Performance Biochemical and Genetic Analysis; Richard Mathies, University of California, Berkeley
11:00 am	Multiplexing Assays With Droplet Libraries; Darren Link, RainDance Technologies, Inc.

## Program Overview, Continued

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11:30 am	<b>Biogenic Silica Incorporated Bio Sensors for Ultra Sensitive Protein Detection;</b> Gaurav Chatterjee, Arizona State University
12:00 pm	<b>A 5-in-1 Bioprocessor for Electrokinetic Sample Preparation and Electrochemical Detection;</b> Pak Kin Wong, University of Arizona
10:30 am–12:30 pm	<b>High-Throughput Technologies—Track 3</b> <b>Profiling for Drug Discovery and Translational Sciences</b> Chair: Michele Cleary, Merck & Co., Inc.
10:30 am	<b>A High-Throughput Cancer Cell Line Screening Platform to Identify Genotype-Correlated Drug Sensitivity;</b> Sreenath Sharma, Massachusetts General Hospital Cancer Center
11:00 am	<b>Using Systems Biology to Understand Host-Pathogen Interactions;</b> Renate Koenig, Burnham Institute for Medical Research
11:30 am	<b>Towards Personalized Medicine Using Silicon Photonic Optical Microring Resonator Arrays for Multiplex Measurements;</b> Adam Washburn, University of Illinois
12:00 pm	<b>Integrated Interpretation of Genes;</b> Gang Feng, Northwestern University Biomedical Informatics Center
10:30 am–12:30 pm	<b>Informatics—Track 4</b> <b>Laboratory Informatics—A Cross Discipline Look</b> Chair: Randall Julian, Indigo BioSystems, Inc. <span style="float: right;">Sponsored by: </span>
10:30 am	<b>Cross Disciplinary Laboratory Informatics—What Does the Future Hold?;</b> Michael Elliott, Atrium Research & Consulting LLC
11:00 am	<b>Cross Industry Pressures: The Effect of Outsourcing on the Informatics Landscape;</b> Rudy Potenzone, RP Consulting
11:30 am	<b>An Informatics Platform for Ultra-High Throughput Diagnostic Laboratories;</b> Amy Tabert, Indigo BioSystems, Inc.
12:00 pm	<b>Fully Automated Informatics Process for High Speed, High Volume Laboratory for Infectious Disease;</b> Craig Blackhart, Los Alamos National Laboratory
10:30 am–12:30 pm	<b>Evolving Applications of Laboratory Automation, Featuring Agriculture and Food—Track 5</b> <b>Ag Biotechnology Applications</b> Chair: Wen-Chy Chu, Pioneer, A DuPont Company
10:30 am	<b>Achieving High-Throughput Lab Processing With Unique Parallel Automation and Array Tape Technology;</b> Hillary Sullivan, Pioneer Hi-Bred International, Inc.
11:00 am	<b>Communicating With and Understanding the Needs of the Public Sector in Relation to Agriculture Biotechnology Research;</b> Brian Scheffler, USDA ARS Genomics and Bioinformatics Research Unit
11:30 am	<b>Enabling High Sample Throughput Genetic Analysis for Plant and Animal Studies;</b> Yong Yi, Fluidigm Corp.
12:00 pm	<b>Commercial Advantages of Enforced Positive Sample Tracking Through Lab Automation and Information Systems;</b> Stu Shannon, Illumina
12:30–1:00 pm	<b>Lunch Break in the Exhibit Hall</b> <span style="float: right;">Sponsored by: </span>
12:30–2:00 pm	<b>Industry-Sponsored Workshops</b>
12:30–2:00 pm	<b>Market Overview: India's Emerging Pharmaceutical Market</b>
1:00–3:00 pm	<b>Poster Session in the Exhibit Hall</b>
3:00–5:00 pm	<b>Detection and Separation—Track 1</b> <b>Miniaturized Detectors</b> Chair: Carlos Garcia, University of Texas at San Antonio
3:00 pm	<b>High Sensitivity NMR Probes for Natural Products and Metabolomics;</b> Arthur Edison, University of Florida



## Program Overview, Continued

3:30 pm	<b>Cooperative Methods for Aptamer Evolution and Protein Detection;</b> Christopher Easley, Auburn University
4:00 pm	<b>The Chance of a Piezoelectric Micro-Cantilever Sensor as a Portable Diagnostic Tester;</b> Sangkyu Lee, POSTECH
4:30 pm	<b>Wireless Microdialysis/CE and Fast Scan Cyclic Voltammetry for Long-Term, In Vivo Recordings on Freely Moving Animals;</b> Dave Johnson, Pinnacle Technology
3:00–5:00 pm	<b>Micro- and Nanotechnologies—Track 2 Nanotechnology for Drug Delivery</b> Chair: Warren Chan, University of Toronto
3:00 pm	<b>Nanoparticle Cancer Therapeutics: From Concept to Clinic;</b> Mark E. Davis, California Institute of Technology
3:30 pm	<b>Nanocrystals in Diagnostics and Imaging: Commercial Sources for Multiplexed Analysis;</b> Travis Jennings, eBioscience
4:00 pm	<b>Nanodiamond-Based Therapeutic Delivery Agents for Cancer, Inflammation, and Wound Healing;</b> Dean Ho, Northwestern University
4:30 pm	<b>The Disassembly of Core-Satellite Nanoassemblies for Diagnostic Biomolecular Detection;</b> John Waldeisen, University of California, Berkeley
3:00–5:00 pm	<b>High-Throughput Technologies—Track 3 Technologies Accelerating Biotherapeutics Discovery</b> Chair: Lori Jennings, Genomics Institute of the Novartis Research Foundation
3:00 pm	<b>Screening of the Human Extracellular Proteome for Novel Protein Therapeutics and Antibody Targets Using Cell-Based and In Vivo Screening Technologies;</b> Jeffrey Finer, Five Prime Therapeutics
3:30 pm	<b>Biologics Target Identification Using a Pathways Approach;</b> Vic Myer, Novartis
4:00 pm	<b>A High-Throughput, Parallel, Microscale, Fully Automated Approach to Biologics Formulation Development and Stress Test Studies;</b> Nallakkan Arvindan, Symyx Technologies
4:30 pm	<b>From Microarrays to Microbeads: Moving Cancer Biomarker Proteins to Clinical Platforms;</b> Michael Tainsky, Wayne State University School of Medicine/Karmanos Cancer Institute
3:00–5:00 pm	<b>Informatics—Track 4 Data Management, Mining &amp; Visualization</b> Chair: William Goode, Amgen, Inc. <span style="float: right;">Sponsored by: </span>
3:00 pm	<b>A Service Architecture Approach for Creating an Extensible Data Source Integration System for Drug Discovery;</b> Jeffrey McDowell, Amgen, Inc.
3:30 pm	<b>The Pistoia Alliance: Open Standards for Data and Technology Interfaces in the Life Science Research Industry;</b> Debra Igo, Novartis Institutes for BioMedical Research, Inc.
4:00 pm	<b>Adaptable Data Management and Integration for Systems Biology;</b> John Boyle, Institute for Systems Biology
4:30 pm	<b>Scientific Process Management and Analytics: Automation for the Data Deluge;</b> Jeff Tishler, IDBS
3:00–5:00 pm	<b>Evolving Applications of Laboratory Automation, Featuring Agriculture and Food—Track 5 Biofuels</b> Chair: Stephen Hughes, USDA, NCAUR, ARS, BBC
3:00 pm	<b>High-Throughput Analytics and Automation for Selection of Highly Fermentable Corn Hybrids;</b> Joel Ream, Monsanto
3:30 pm	<b>Applying High-Throughput Microbial Screening for Improved Biofuel Production at the Great Lakes Bioenergy Research Center;</b> Sydnor Withers, Great Lakes Bioenergy Research Center
4:00 pm	<b>Selected Analytical Characterization Tools for the Biofuels Industry;</b> Rob Synovec, University of Washington

## Program Overview, Continued

# LabAutomation 2010

Where Science, Technology and Industry Come Together

4:30 pm	<b>Rapid PCR Assembly Protocol for Robotic Workcell to Construct and Purify Candida Antarctica Lipase B Open Reading Frame Cloned and Expressed in Yeast to Produce Ethanol and Biodiesel;</b> Stephen Hughes, USDA, NCAUR, ARS, BBC
5:00–6:30 pm	<b>Reception in the Exhibit Hall Celebrating JALA Authors</b>
7:00–9:00 pm	<b>Late Night With LRIG: Rapid-Fire Innovation Session</b>
<b>Tuesday, January 26, 2010</b>	
8:00–10:30 am	<b>Life After Graduate School &amp; Your First Year on the Job: Preparing for Life After Graduate School</b> Presented by the American Chemical Society—Breakfast Served
9:00–10:00 am	<b>Plenary Session</b> <b>Chair:</b> Adam Woolley, Associate Program Chair, Brigham Young University <b>Special Speaker:</b> Hod Lipson, Associate Professor Mechanical and Aerospace Engineering, Cornell University <b>Presentation:</b> Distilling Freeform Natural Laws From Experimental Data—From Robotics to Molecular Biology <span style="float: right;">Sponsored by: <b>Thermo</b> SCIENTIFIC</span>
10:00–10:30 am	<b>Break</b>
10:00 am–6:00 pm	<b>Exhibits and ALA Career Connections Open</b>
10:30 am–12:30 pm	<b>Detection and Separation—Track 1 Separations</b> <b>Chair:</b> Lisa Holland, West Virginia University
10:30 am	<b>Advances in Separation Science Using Nanoscopic Supports;</b> Susan Olesik, Ohio State University
11:00 am	<b>Self-Assembled Colloidal Nanostructures for Bioseparation;</b> Yadong Yin, University of California
11:30 am	<b>Combining Microfluidics, Nanomaterials, and Enzymes;</b> Carlos D. Garcia, UT San Antonio
12:00 pm	<b>Rapid Analysis of N-Glycans on Microchip-CE Platform;</b> Bahram Fathollahi, Caliper Life Sciences
10:30 am–12:30 pm	<b>Micro- and Nanotechnologies—Track 2 Tissue-on-a-Chip</b> <b>Chair:</b> David Eddington, University of Illinois at Chicago
10:30 am	<b>Miniaturized Microscale Liver Models for Drug Development;</b> Salman Khetani, Hepregen
11:00 am	<b>Microfluidic Devices to Mimic the Vasculature: An Alternative Model for Drug Discovery;</b> Dana Spence, Michigan State University
11:30 am	<b>Microengineered Hydrogels for Tissue Engineering and Stem Cell Bioengineering;</b> Ali Khademhosseini, Harvard-MIT
12:00 pm	<b>Large-Scale In Vivo Genetic Screens and Laser Microsurgery Enabled by Automated Microsystems;</b> Kwanghun Chung, Georgia Institute of Technology
10:30 am–12:30 pm	<b>High-Throughput Technologies—Track 3 Novel Technologies and Approaches to Modern Sample Management</b> <b>Chair:</b> Eric Tang, AstraZeneca PLC
10:30 am	<b>Assay Ready Plates at AstraZeneca: The Practice, Benefits and Challenges;</b> Dalin Nie, AstraZeneca
11:00 am	<b>Cryogenic Tissue Milling and Dispensing System;</b> Ian Riley, Labman Automation Ltd
11:30 am	<b>LC/MS of Compound DMSO Solutions Acoustically Dispensed in Nanoliter Volumes;</b> Mark Hayward, Lundbeck Research
12:00 pm	<b>Maintaining the Integrity of the Wyeth Liquid Samples;</b> Husam Fayeze, Wyeth Research
10:30 am–12:30 pm	<b>Informatics—Track 4 Future of Laboratory Informatics</b> <b>Chair:</b> Stan Piper, Pfizer <span style="float: right;">Sponsored by: </span>
10:30–11:30 am	<b>Data Mining and Visualization in the Modern Lab</b>
11:30 am–12:30 pm	<b>Open Source Software Utilization Panel</b>

## Program Overview, Continued

10:30 am–12:30 pm	<b>Evolving Applications of Laboratory Automation, Featuring Agriculture and Food—Track 5</b> <b>Emerging Technologies</b> <b>Chair:</b> Thomas E. Strader, Heartland Biotech
10:30 am	<b>Quantifying Low abundance Analyte Within Picoliter Droplets;</b> Tushar Rane, Johns Hopkins University
11:00 am	<b>A Simple CMOS-based USB Inverted Fluorescence Microscope: A New Tool for Laboratory Automation;</b> Chris Shumate; Etaluma, Inc.
11:30 am	<b>Innovative Magnetic Separations for Automated Stem Cell Research;</b> Veit Bergendahl, Miltenyi Biotec
12:00 pm	<b>Automated Parallel Micro-Chromatography for Analysis &amp; Process Development;</b> Scott Fulton, BioSystem Development, LLC
12:30–1:00 pm	<b>Lunch Break in the Exhibit Hall</b>
	Sponsored by:  <b>ALSA</b> Analytical & Life Science Systems Association Our members' technologies improve your performance
12:30–2:00 pm	<b>Industry-Sponsored Workshops</b>
12:30–3:30pm	<b>Life After Graduate School &amp; Your First Year on the Job: What to Expect Your First Year on the Job</b> Presented by the American Chemical Society—Lunch Served
1:00–3:00 pm	<b>Poster Session in the Exhibit Hall</b>
1:00–3:00 pm	<b>New Product Award Announcement</b>
3:00–5:00 pm	<b>Detection and Separation—Track 1</b> <b>Clinical, Pharmaceutical, and Forensic Applications</b> <b>Chair:</b> Susan Lunte, University of Kansas
3:00 pm	<b>A Low Cost, High-Throughput, Automated, SNP Assay for Forensic Human DNA Applications;</b> Robert Pomeroy, University of California, San Diego
3:30 pm	<b>A Complete Integrated System for Nucleic Acid Purification and Assay Setup Enabling Highly Sensitive Identification of DNA and RNA;</b> Elisa Morales, QIAGEN GmbH
4:00 pm	<b>Finding a Needle in a Haystack: Heparin Microanalysis;</b> Cynthia Larive, University of California
4:30 pm	<b>Liberation from Sample Preparation: Simple Lab Automation Solutions;</b> Beverly Nickerson, Pfizer
3:00–5:00 pm	<b>Micro- and Nanotechnologies—Track 2</b> <b>Nanotechnology for Cell Culture</b> <b>Chair:</b> Glenn Walker
3:00 pm	<b>Towards a Synthetic Basement Membrane;</b> Paul Nealey, University of Wisconsin
3:30 pm	<b>High-Throughput Molecular Detection of Infectious Diseases using Quantum Dot Barcodes;</b> Warren Chan, University of Toronto
4:00 pm	<b>Dip Pen Nanolithography® for Cell-Signaling: Towards Automated Nanolithography;</b> Jason Haaheim, NanoInk
4:30 pm	<b>An In Vitro Investigation of the Enhance Osteogenic Action of Mineralized Nanofibers for Bone Regeneration;</b> Tim Ruckh, Colorado State University
3:00–5:00 pm	<b>High-Throughput Technologies—Track 3</b> <b>Assays on Target: Screening With Primary Cells</b> <b>Chair:</b> Teresa Bennett, Vivia Biotech
3:00 pm	<b>Drug Discovery Utilizing Automated Flow Cytometry for Primary Cell-Based Screening;</b> Teresa Bennett, Vivia Biotech
3:30 pm	<b>The Challenge of Primary Cells for HTS: Two Examples That Could Benefit ALS;</b> Marcie Glicksman; Brigham & Women
4:00 pm	<b>Automated Cell Based Assays in a High-Content Screening-Platform;</b> Bernhard Becker, Technische Universitaet Muenchen
4:30 pm	<b>Versatile Microfluidic Devices That Enable the Use of Advanced Cell Models in Drug Discovery;</b> Ivar Meyvantsson, Bellbrook Labs LLC



## Program Overview, Continued

# LabAutomation 2010

Where Science, Technology and Industry Come Together

3:00–5:00 pm	<b>Informatics—Track 4</b> <b>Partnerships: Use Cases in Advancing the Vendor/Customer Relationship</b> <b>Chair:</b> Jeffrey Christoffersen, Eli Lilly and Company	Sponsored by: 
3:00 pm	<b>Accelerating R&amp;D Workflows and Communications Within Virtual Project Teams Using an ELN;</b> Dominic John, Symyx Technologies	
3:30 pm	<b>Using Vendor and Industry Partnerships to Solve Problems When Great Ideas Run Into Walls;</b> Karl Knight, Eli Lilly and Company	
4:00 pm	<b>A New Paradigm for Results and Analytics, the Leap From Data Storage to Knowledge;</b> Robin Smith, ArtusLabs, Inc.	
4:30 pm	<b>The Cure for Your Biobanking Informatics Challenges;</b> Don Crossett, Thermo Fisher Scientific	
3:00–5:00 pm	<b>Evolving Applications of Laboratory Automation, Featuring Agriculture and Food—Track 5</b> <b>Point-of-Service assays</b> <b>Chair:</b> David Hondred, Pioneer Hi-Bred	
3:00 pm	<b>In the Nick of Time: Using Nicking Enzyme Amplification Reaction (NEAR) for a Rapid Point-of-Testing Nucleic Acid Diagnostic Test;</b> Tania Spenlinhauer, EnviroLogix Inc.	
3:30 pm	<b>Rapid Chemical Detection and Identification With a Hand Held Device;</b> Juan Santiago, Stanford University	
4:00 pm	<b>Electronic Nanogap Sensor Arrays for Biosensing Applications;</b> Xiaojun Chen, Institute of Bioengineering and Nanotechnology, Singapore	
4:30 pm	<b>Proteomic Analysis Using Microarrays in a 96-well Format;</b> Dan Clutter, Gentel Biosciences	
5:00–6:30 pm	<b>Reception in the Exhibit Hall</b>	
9:00–10:30 pm	<b>JALA VIP Reception (Invitation Only)</b>	
<b>Wednesday, January 27, 2010</b>		
9:00–11:00 am	<b>Detection and Separation—Track 1</b> <b>Process Analytical Technology</b> <b>Chair:</b> Beverly Nickerson, Pfizer	
9:00 am	<b>Moving Liquid Chromatography From the Lab to the Process;</b> Rick Cooley, Dionex Corporation	
9:30 am	<b>Microflow HPLC in Support of Automated Process Streams;</b> Wes Schafer, Merck Research Laboratories	
10:00 am	<b>Benefits of On-line Sensors for Advanced Flow Reactor Analysis, Optimization and Control;</b> Brian Marquardt, University of Washington	
10:30 am	<b>On-Line Spectroscopic PAT Tools for Drug Product Process Understanding and Manufacturing;</b> Yang Liu, Pfizer Global Research and Development	
9:00–11:00 am	<b>Micro- and Nanotechnologies—Track 2</b> <b>New Device Architectures for Lab-on-a-Chip Systems</b> <b>Chair:</b> Tom Soh, University of California, Santa Barbara	
9:00 am	<b>Microfluidic Acoustically-Activated Air-Liquid Cavities for On-Chip Integration of Sample Preparation and Sample Detection;</b> Abe Lee, University of California, Irvine	
9:30 am	<b>Fluid Steering in a Microfluidic Device Using Phospholipids as Non-Mechanical Valves;</b> Lisa Holland, West Virginia University	
10:00 am	<b>High-Throughput, Multi-Dimensional Cell Sorting for Host-Pathogen Studies;</b> Thomas Perroud, Sandia National Laboratories	
10:30 am	<b>Automated Drop-On-Demand System With Real-Time Gravimetric Control For Precise Dosage Formulation;</b> Abhishek Sahay, Rutgers University	

## Program Overview, Continued

9:00–11:00 am	<b>High-Throughput Technologies—Track 3</b> <b>Parallel Process Advances</b> <b>Chair:</b> Timothy Dawes, Genentech, Inc.
9:00 am	<b>The RapidFire 300: An Integrated, Automated SPE-MS System for High-Throughput ADME Sample Analysis;</b> Maxine Jonas, BioTrove, Inc.
9:30 am	<b>Nano Flow Precision With a Peristaltic Pump! Exceeding Conventional Flow Limits Using Electronic Feedback;</b> Darren Lewis, IDEX Health & Science Integrated Solutions Group
10:00 am	<b>uHTCS: In Situ Chemistry Methodology Enabled by Labcyte's ADE Technology for Ultra High-Throughput Chemical Synthesis.;</b> Thomas J. Baiga, The Salk Institute for Biological Studies
10:30 am	<b>An Innovative Microfluidic-96 (uF-96) Microplate—The Smart Microplate;</b> Aniruddha Puntambekar, Siloam Biosciences
9:00–11:00 am	<b>Informatics—Track 4</b> <b>Advancing the Portfolio With Informatics</b> <b>Chair:</b> Michael Linhares, Pfizer, Inc.
	Sponsored by: 
9:00 am	<b>Using Electronic Forms to Implement Lean Process Improvements for the QC Laboratory;</b> Chris Stumpf, Waters Corporation
9:30 am	<b>A Standards-Based Method for Processing and Archival of Multi-Technique Experiment Data;</b> Burkhard Schaefer, BSSN Software
10:00 am	<b>Incorporating ELN Software Into a System for Recording GMP Manufacture of Clinical Trials API With Improved Quality Management;</b> John Leonard, AstraZeneca
10:30 am	<b>Use Your ELN Implementation to Shift the R&amp;D Paradigm;</b> Robert OHara, ResultWorks, LLC
9:00–11:00 am	<b>Evolving Applications of Laboratory Automation, Featuring Agriculture and Food—Track 5</b> <b>Applications of Separations and Detection to Food and Agriculture</b> <b>Chair:</b> Yolanda Fintschenko, Thermo Fisher Scientific
9:00 am	<b>Find Out What Is In Your Food—FAST!;</b> Yolanda Fintschenko, Thermo Fisher Scientific
9:30 am	<b>Screening Foods for Unknown Chemical Contaminants by Non-Targeted LC/MS Analysis;</b> Steve Musser, U.S. Food and Drug Administration
10:00 am	<b>Facilitating High-Throughput Analysis of Chemicals and Food Solids by Using Metal and Magnets to Permit Rapid Quality Control;</b> Brian Musselman, Ionsense, Inc.
10:30 am	<b>BIST TECHNOLOGY: A Novel Fully Automated Multiplex System for Food Allergen Testing;</b> Carl Hilliker, Precision System Science
11:00–11:15 am	<b>Break</b>
11:15 am–12:45 pm	<b>Special Sessions</b> <b>The MFS Center: Pioneering Commercialization From Academia to Market</b> <b>The SiLA Consortium for Standardization in Laboratory Automation</b>
12:45–2:30 pm	<b>Awards Luncheon &amp; Closing Ceremony</b> <b>Special Speaker:</b> Bruce Sterling, American Science Fiction Novelist, Former Twilight Zone Writer/Actor Self-Proclaimed Blogger and Design Critic, and Columnist for <i>WIRED</i> and <i>MAKE</i> Magazines <b>ALA Innovation Award Announcement:</b> \$10,000 Cash Award
	Sponsored by:  

Celebrate Innovation

LabAutomation  
2010

Where Science, Technology and Industry Come Together

## LabAutomation2010: A Multi-Disciplinary Forum Devoted to Education and the Advancement of Automation in the Laboratory



Pictured from Left: Erik Rubin; R. Scott Martin; 2009 ALA Innovation Award Winner Hyongsok (Tom) Soh, and William Sonnefeld, ALA Innovation Award Chair.



Vinu Venkatraman, Portland State University, LabAutomation2009 Student Poster Competition First Place Winner.

- The \$10,000 ALA Innovation Award**—recognizes the LabAutomation podium presentation that is the most unique and innovative, and that demonstrates independence of thought, clarity of vision, extraordinary technical originality, and seminal integration and automation strategies. Additionally this year, ALA Innovation Award finalists (up to 10) will travel to Beijing, China, June 2–5, 2010 to present their work at AICHEMAsia 2010.
- Academic Travel Award**—ALA proudly accepts over 80 percent of all Academic Travel Award applications for presentation at the LabAutomation conference. Academic Travel Awards include airfare or mileage reimbursement, conference registration and shared accommodations.



- Student Poster Competition**—ALA selects the top student posters from around the world to be presented at LabAutomation2010. These posters automatically qualify for ALA's Student Poster Competition, which offers a \$1,000 cash award for the most outstanding poster presentation, a \$500 cash award for second place and \$250 for third place.
- JALA Readers' Choice Award**—recognizes the author/article which proved most popular from the past year of JALA issues. The winning author will be announced at the reception celebrating JALA Authors, which will be held in the Exhibit Hall on January 25. Reprints of the winning article will be available in the ALA Member Center.



### A Convergence of Global Significance

ALA has transcended the traditional approach to emerge as a vital, tightly-knit global community of thought-leaders. Our members represent science, technology, industry professionals and students from around the world. Participants come from the following countries as well as others:

Australia	Denmark	Hungary	Morocco	Poland	Syria
Austria	El Salvador	India	Netherlands	Singapore	Taiwan ROC
Belgium	Finland	Ireland	Nigeria	South Korea	Ukraine
Brazil	France	Israel	Norway	Spain	United Kingdom
Canada	Georgia	Italy	Pakistan	Sweden	United States
China	Germany	Japan	Peru	Switzerland	Venezuela



## LabAutomation2010 Opening Night Launch Celebration

Sponsored by:



Agilent Technologies



### Come Jam With ALA's Very Own Mark Russo, Lead Guitarist for The River Dogs Band

Join us poolside, under the desert stars at the LabAutomation2010 Opening Night Launch Celebration, generously sponsored by Agilent Technologies, and be ready to rock out to the classics.

With three days of intense conference sessions ensuing, what better way to kick off this industry-leading event than being surrounded by friends and colleagues, fine wine, gourmet food, and the sounds of The River Dogs Band, with ALA Charter Member Mark Russo on lead guitar. We already know about his technology talents, now let's see how his musical talents compare!

After an evening of jamming to the music of the Beatles, Stones, Petty, Grand Funk, Free, Springsteen, and Eddie Money, you'll be revved up and ready to take on the full line-up of educational sessions, conduct important business on the exhibit floor, and make the absolute most of your LabAutomation2010 experience.



## Exclusive Special Educational Sessions and Market Place Briefings

# LabAutomation 2010

Where Science, Technology and Industry Come Together

## 2009 North American Laboratory Equipment Purchasing Trends Report

Monday, January 25, 7:30–8:30 am

Clark Mulligan, Executive Director, Laboratory Products Association  
KC Warawa, KC Associates, Littleton, Colorado



For the first time ever at LabAutomation2010, ALA and the Laboratory Products Association (LPA) will host an official briefing to unveil the preliminary results from the 2009 North American Laboratory Equipment Purchasing Trends Study. This study addresses: how the economy is affecting purchases in the laboratory; the effect of the stimulus money on organizations; which organizations are applying for economic stimulus grants; the probability and timeframe for receiving grants; and what products/services will be purchased with grants.

## Market Overview: India's Emerging Pharmaceutical Market

Monday, January 25, 12:30–2:00 pm

Maulik Jasubhai, Group Chief Executive, Chemtech Foundation, Mumbai, India



With India recognized as one of the fastest growing pharmaceutical markets in the world, ALA has invited Maulik Jasubhai, Group Chief Executive, of India's largest non-profit scientific society Chemtech Foundation, headquartered in Mumbai, to present a 90-minute symposium providing a comprehensive market overview of the growing pharmaceutical industry in India. According to Jasubhai, India's market volume now ranks fourth in the world, with exports expected to top \$22 billion by the year 2012 with most of the value generated by generics and active pharmaceutical ingredients (API).

## Late Night With LRIG: Rapid-Fire Innovation Session

Monday, January 25, 7:00–9:00 pm



Now in its fourth year, Late Night With LRIG is a highly-interactive assembly weaving together all the constituent audiences attending LabAutomation2010 to learn about and discuss the latest innovations in laboratory automation and technology products and services.

The evening offers quick, discerning information-bites from approximately 15 emerging and/or well-established companies serving the many industries employing the science of laboratory automation. This is specifically a venue for companies to showcase their latest products and technology improvements. The intent from the attendee perspective is to provide an efficient way to learn about news and trends on the commercial front. Attendee participants will enjoy fertile ground for questions-and-answers in an open-space atmosphere serving complimentary refreshments and beverages. Seating will be limited and on a first-come, first-served basis.

**Admission is FREE.** Registration simply requires all participants to register as an exhibits-only attendee.

## Exclusive Special Educational Sessions and Market Place Briefings, Continued

### The SiLA Consortium for Standardization in Laboratory Automation (SiLA)

Wednesday, January 27, 11:15 am–12:45 pm  
Carsten Etzold, Hamilton Company, Bonaduz, Switzerland



*Toolpoint for Life Science*, an association of life science instrument suppliers based in Zurich, Switzerland, is developing a new interface standard allowing for rapid integration of laboratory automation systems. Attend this up-to-the-minute session and learn how the Standard is progressing to cover all ISO/OSI levels of the device control interface from physical to application layer, and support three different integration levels, which standardizes the interface between laboratory automation devices and process management systems.

### The MF3 Center: Pioneering Commercialization from Academia to Market

Wednesday, January 27, 11:15 am–12:45 pm  
Abraham Lee, MF3 Center Director and Biomedical Engineering Professor, University of California, Irvine  
Gisela Lin, MF3 Center Development Manager, University of California, Irvine  
Bruce Peterson, Corporate Director, Douglas Scientific  
Wen-Chy Chu, Senior Research Manager, Pioneer Hi-Bred International  
Steve Pentoney, Director of Scientific Affairs & Technology Management, Beckman Coulter

The Micro/Nano Fluidics Fundamentals Focus (MF3) Center, based at the University of California at Irvine, is an industry-academia-government consortium performing fundamental micro/nano fluidic (MF) research that provides solutions to the United States Department of Defense and other commercial enterprises. Comprising 12 universities nationwide, the MF3 Center includes leading researchers in biomedical engineering, mechanical engineering, electrical engineering, and chemistry. This special session showcases every aspect of commercialization process from idea generation through manufacturing and finally to market:

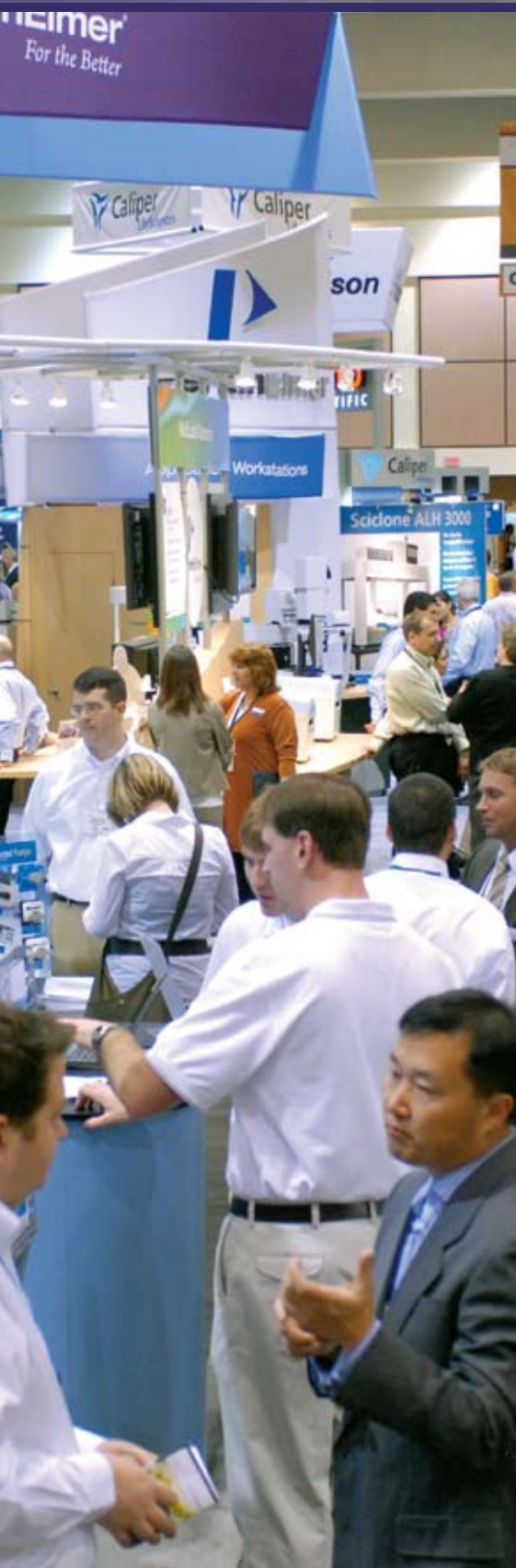
- **Academic Aspect**—MF3 faculty members serve as the catalyst for crystallizing and driving innovative ideas into prototypes for the market place.
- **Manufacturing Aspect**—MF3 corporate members produce, test and transition scalable prototype products through manufacturing to the market place.
- **End-user Aspect**—MF3 corporate partners emanating from diverse industries such as diagnostic, medical instrumentation, agricultural biotechnology, and defense incorporate these prototypes to streamline customer workflows.



## Exhibition Information

# LabAutomation 2010

Where Science, Technology and Industry Come Together



## Explore the World's Largest Laboratory Technology Exhibition at LabAutomation2010

LabAutomation2010 is the world's leading conference and exhibition exploring and celebrating leading-edge laboratory technologies and services. As an attendee or exhibitor, you will be among a highly diverse, scientific network of approximately 4,000 participants from more than 40 countries. Only at LabAutomation do you have exclusive access to approximately 250 multi-national companies showcasing their laboratory technologies. LabAutomation is full of opportunities to create successful partnerships and actively engage with the newest technology products and services. Don't miss this one place, one time of year for exploring the world of opportunity that is laboratory automation.

## Free! Biz-Dev Business Development Forum

### Explore Partnerships with ALA's Biz-Dev Business Development Forum

LabAutomation2010 provides a dedicated time and place for laboratory automation user companies, technology providers and original equipment manufacturers (OEMs) to explore business partnerships and collaborations.

#### Key features of Biz-Dev include:

- Automated Meeting Scheduling—one-to-one automated meeting scheduling prior-to and during LabAutomation2010.
- Quick-and-Easy Online Room Reservation Capability—open-space, round-table setting; discrete, private suites
- Monday–Tuesday, January 25-26, 8:30–10 am

In today's business climate, it's difficult for business and scientific leaders to find time to connect and cultivate strategic relationships. ALA's Biz-Dev Business Development Forum is a uniquely focused and powerful event that offers a time-efficient, cost-effective opportunity for high-caliber discussions and prospecting.

**Registration for the Biz-Dev Business Development Forum is free:** (<http://www.labautomation.org/LA09/BizDev>). When you register through the Biz-Dev scheduler, you can see who is participating, and contact those individuals by email to request and confirm meetings. You can even reserve your time and place for your meeting. **Register today! Space and time slots for meetings are limited and on a first-come, first-served basis.**



## Exhibition Information, Continued

### Reaching a Diverse Market Place

The LabAutomation exhibition has proven to be one of the most important venues for the introduction and demonstration of automation and technology products. There are still exhibitor sponsorship and media exposure opportunities available. For information, please contact:

#### Exhibits

Barry Sacks; +1.312.541.0567;  
bsacks@labautomation.org

#### Sponsorships

Mary Michalik; +1.312.541.0567;  
mmichalik@labautomation.org

#### Media Partners

Lauren Hammer; +1.630.305.0003;  
lhammer@labautomation.org



### ALA New Product Award (NPA) Competition Recognizes Top Innovative Companies

LabAutomation has become the platform event for launching the new products and services that kick off the calendar year. Each year, the prestigious New Product Award (NPA) competition highlights the newest and most innovative automation and technology products for research and discovery in the laboratory. In 2009 more than 25 new products were unveiled. The three top winners of the NPA competition will be announced at LabAutomation2010 on Tuesday, January 26. For more information about the NPA program, visit [labautomation.org/LA10](http://labautomation.org/LA10).

- **LabAutomation2009 winners:** Agilent Technologies—Agilent Direct Drive Robot; GeneFluidics—PROTEUS ROBOTIC SYSTEM; Mettler Toledo—QUANTOS QB1
- **LabAutomation2008 winners:** Formulatrix, Inc.—Formulator™; QIAGEN—QIASymphony SP; Viaflo Corporation—Vision Pipettors™
- **LabAutomation2007 winners:** Corning Incorporated—Corning® Epic® System; QIAGEN, Inc.—QIACube; Symyx Technologies—Symyx Benchtop Systems



### Free Exhibit Space for Start-Up Companies on Innovation AveNEW

Every company stems from the spark of an idea. Located in the Exhibit Hall at LabAutomation2010, Innovation AveNEW is the place to find those select-few companies that exemplify the entrepreneurial spirit in the laboratory automation and technology field.

Innovation AveNEW provides a venue for positive, collaborative interaction and exposure for a start-up company's product and/or service concept. Only a select few start-up companies are chosen for this program each year. Again this year, two leading scientific organizations—BioAlps and DECHEMA—will each select one start-up company from their respective region of the world to be among the participants in this in-kind, cost-sensitive program. To apply, or learn more about Innovation AveNEW, visit [labautomation.org/LA10](http://labautomation.org/LA10).



### ALA's New Online Resource: *The Market Place* for Laboratory Automation™

*The Market Place* for Laboratory Automation is an online product directory dedicated to showcasing an accurate and complete collection of new and existing laboratory automation products and services. In addition, it provides quick links to technology provider company web sites; announces news in-and-about laboratory automation; includes technical notes, videos and event notices; and much, much more.

As the retail side of LabAutopedia™—ALA's award-winning wiki garnering thousands of unique visitors each month—*The Market Place* is the perfect place for anyone involved in laboratory automation to find relevant and valuable information and get a glimpse of the technology products and services currently leading the field of laboratory automation. Visit [labautomation.org/marketplace](http://labautomation.org/marketplace) for more details.

## Exhibitor List

(as of October 16, 2009)

# LabAutomation 2010

Where Science, Technology and Industry Come Together

**Each year, LabAutomation serves as the platform for new and emerging companies and ground-breaking innovation. This year is no different. LabAutomation2010 welcomes more than 30 new companies from around the world to its Exhibit Floor.**

**Explore Partnerships** with ALA's  
*Biz-Dev* Business Development Forum

**Plan Your Time** on the Exhibit Hall and for the  
Conference with *myALA* Conference Planner

**Over 25 New** Product Launches Last Year

**Worldwide Coverage** by Science and Consumer Media

4titude Ltd  
Accel Biotech, Inc  
Advanced Chemistry  
Development, Inc., (ACD/LABS)  
Advantage Business Media  
Agilent Technologies Inc.  
AllMotion  
Apricot Designs  
Art Robbins Instruments  
ARTEL, Inc.  
ArtusLabs, Inc.  
ASDI  
ASI / Applied Scientific  
Instrumentation Inc.  
Atlantic Lab Equipment LLC  
Aurora Biotechnologies, Inc.  
Axygen Scientific, Inc.  
Bal Seal Engineering, Inc.  
Ballista, Inc.  
Balluff, Inc.  
BC Tech Inc.  
Beckman Coulter, Inc.  
Biodirect Inc.  
BioDot, Inc.  
Biohit, Inc.  
BioMedTech Laboratories, Inc.  
BioMicroLab, Inc.  
BioNex Solutions, Inc.  
BioSero  
BioTechniques  
BioTek Instruments, Inc.  
Biotix, Inc.  
BioTrove  
bluechip Pty Ltd.  
BMG Labtech, Inc  
Bosch Rexroth Corporation  
BrandTech Scientific, Inc.  
Burkert Fluid Control Systems  
Cadence Science  
Caliper Life Sciences, Inc.  
Cell Press  
CETAC Technologies  
Chieftek Precision Co., Ltd.  
Cisbio US, Inc.  
CJ Miller Engineering, LLC  
Computype, Inc.  
Convex Co, Ltd.  
Corning Incorporated  
Covaris  
CSEM SA  
CyBio AG  
Diba Industries Inc.  
DigiLab Genomic Solutions

Dionex Corporation  
Douglas Scientific  
Drug Discovery News  
Dynamic Devices  
Dynetix AG  
E&K Scientific  
Eksigent Technologies  
Elmo Motion Control, Inc.  
Eppendorf North America  
EPSON Robots  
Essen Instruments  
Excel Scientific, Inc.  
Falcon Electric, Inc.  
FlexLink Systems, Inc.  
FluidX  
Formulatrix, Inc.  
ForteBio, Inc.  
Gamma Scientific, LLC  
Gems Sensors & Controls  
GeneFluidics, Inc.  
Global Cell Solutions  
Global FIA  
GNF Systems  
Greiner BioOne N.A. Inc  
Hamamatsu Corporation,  
Systems Division  
Hamilton Company  
HEIDENHAIN Corporation  
HEMCO Corporation  
Hettich Centrifuges  
HighRes Biosolutions  
HIWIN Corporation  
Hudson Robotics, Inc.  
IDBS  
IDEX Health & Science  
IKO International, Inc.  
ILS  
ImageXpert  
Inheco Industrial Heating  
& Cooling GmbH  
Intelligent Motion Systems, Inc.  
Invetech Instrument  
Development  
IVEK Corporation  
J-Kem Scientific  
JULABO USA, Inc.  
KBiosciences  
KBiosystems Ltd.  
KINOMEScan / Ambient  
Biosciences  
Kloehn / Norgren  
KNF Neuberger Inc.  
Lab Services B.V.

Labcon North America  
Labcyte, Inc.  
Labtronics Inc.  
LabVantage Solutions, Inc.  
LabWare, Inc.  
Lathrop Engineering Inc.  
LEAP Technologies  
LiCONIC US, Inc.  
Lorring & Associates  
MagneMotion Inc.  
matrical bioscience  
MaxCyte, Inc.  
MéCour Temperature Control  
Metrohm USA, Inc.  
Mettler Toledo  
Micro/Nano Fluidics  
Fundamentals Focus (MF3)  
MicroFab Technologies, Inc.  
microfluidic ChipShop GmbH  
MicroLiter Analytical  
Supplies, Inc.  
Micronic North America, LLC  
Microscan Systems, Inc.  
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Millipore Corporation  
MiniFab (Aust) Pty Ltd.  
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Moeller Medical GmbH  
Molecular Devices  
Nanopoint, Inc.  
NanoScreen, LLC  
New England Small  
Tube Corporation  
Nexus Biosystems  
Norgren Systems, LLC  
Omega Bio-Tek, Inc.  
Omni International, Inc.  
Opticon, Inc.  
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Parker Hannifin Corp.  
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PHENIX Research Products  
Plastic Design Corporation  
Precise Automation  
Process Analysis &  
Automation Ltd.  
Progeny Software, LLC  
PSS USA, Inc.  
QIAGEN Sciences, Inc.  
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QuantiScientifics, LLC  
Quantum Analytics  
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SAGE Publications  
Sarstedt Inc.  
SCIENION AG  
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Seahorse Bioscience  
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Seyonic SA  
SGE Analytical Science  
Sias AG  
Siloam Biosciences, Inc.  
Solid State Cooling Systems  
Sotax Corp.  
SPEX SamplePrep LLC  
STaCS DNA, Inc.  
STARLIMS Corporation  
Stäubli Corporation  
STRATEC Biomedical  
Systems AG  
SurModics  
Tecan  
Tecnisco, Ltd.  
Tensor Imaging  
Thar Instruments, Inc.  
The Automation Partnership  
The Lee Company  
Thermo Scientific  
Tissue Gnostics USA  
Titian Software Ltd.  
TOMTEC  
TriContinent  
TTP LabTech  
TubeWriter  
TWD TradeWinds, Inc.  
UNIconnect  
Union Biometrika, Inc.  
USA Scientific, Inc.  
V&P Scientific, Inc.  
Vialfo Corporation  
VICI Valco Instruments  
Waters Corporation  
Watson-Marlow Bredel Pumps  
Weidmann Plastics  
Technology AG  
Wheaton Science Products  
Xiril AG  
Yole Développement  
Ziath, Ltd  
Zinsser Analytic

## General Information



### Beautiful Palm Springs Awaits LabAutomation2010 Participants

Once again, LabAutomation2010 returns to the Palm Springs Convention Center located just a few blocks from bustling downtown Palm Springs, CA. Rich in history and entertainment, Palm Springs is a preferred destination of travelers from all over the world. With near-perfect weather and easy access from all major domestic and international cities, Palm Springs is a spectacular travel destination suited perfectly for a conference and exhibition.

#### The LabAutomation2010 Smart-Savers Program— Extraordinary Discounts for Registration, Hotel and Travel

We are facing the most challenging economic times the world has experienced in decades. The day-to-day intensity to remain relevant, survive and thrive is extreme for sure. To stay competitive, it is vitally important to be in tune with the global laboratory automation community, continue learning, and strengthen your connections. LabAutomation2010 offers you this edge. We realize the choice to expend funds to attend any conference and exhibition is a tough decision. To help make the LabAutomation2010 experience both affordable and well-founded, ALA has developed the LabAutomation2010 Smart-Savers Program. The extraordinary cost-savings program offers LabAutomation2010 participants' discounts on everything from registration to hotel to travel including: the lowest local rates available on hotels, \$200 off airfare and much more.

Be sure to check out <https://www.labautomation.org/LA10/discounts.cfm>, to secure your savings.

ALA offers complimentary LabAutomation2010 registration for academics and unemployed professionals. For details visit, <https://www.labautomation.org/LA10/discounts.cfm>

#### Be a Hero. Be Like Charles Hawker.

"I was delighted with the 'Take Off With ALA' Flight Discount Program...When I turned in my expense report and bragged about the \$1,455 in savings, I instantly became a 'hero' within my company."

- Charles D. Hawker, Ph.D., MBA, FACB, University of Utah School of Medicine Scientific Director, Automation and Special Projects, ARUP Laboratories



Read the entire Hawker story and learn how to lock down your savings today at [labautomation.org/LA10/takeoff.cfm](https://www.labautomation.org/LA10/takeoff.cfm).



## General Information, Continued

# LabAutomation 2010

Where Science, Technology and Industry Come Together

### Air Travel Information

You may book your air travel online via the online **LabAutomation Travel Agent**, and clicking on "Flights." +1.800.756.2987 (*domestic*); +1.214.915.9448 (*international*)

American and United Airlines are the official carriers for LabAutomation2010. Receive a five percent discount off the lowest applicable fare on either airline. If you use your own travel agency, please reference **American Airlines Authorization Number A4910AF** or **United Airlines MGT10/529GA** to receive the discounts. Applicable service fees may be assessed for airline tickets issued by the LabAutomation Travel Agent. The five percent discount will automatically be reflected in the cost of the flight when using the LabAutomation Travel Agent.

### Hotel Information

The LabAutomation2010 Hotel Reservations Agency offers exclusive discounted hotel rooms at our official event hotels in Palm Springs.

- **Make your reservations online for immediate confirmation of hotel.** Please have your credit card and arrival/departure information ready, visit [www.labautomation.org/LA10/travel.cfm](http://www.labautomation.org/LA10/travel.cfm).
- **Email or Fax**—Download a hotel request form, complete and return via email ([reservations@attendeez.com](mailto:reservations@attendeez.com)) or fax (+1.402.505.7709) to secure your reservations at. Individual reservations must be received no later than Thursday, December 24, 2009.
- **Call the official LabAutomation2010 Hotel Reservations Agency** between 8:00 am–5:00 pm (CST), Monday through Friday to make your hotel reservations. Please have your credit card and arrival/departure information ready. +1.888.477.3803 (*domestic*); +1.402.505.7705 (*international*)

#### Hotel Information

##### Headquarters Hotel

**Wyndham Palm Springs Hotel**—Single or Double Occupancy: \$197

**Comfort Inn Palm Springs**—Single or Double Occupancy: \$140

**Hilton Palm Springs Resort**—Single or Double Occupancy: \$189

**Hotel Zoso**—Single or Double Occupancy: \$167

**Hyatt Regency Suites Palm Springs**—Single or Double Occupancy: \$190

**Palm Springs Courtyard by Marriott**—Single or Double Occupancy: \$171

**Spa Resort Casino**—Single or Double Occupancy: \$195



The LabAutomation2010 Hotel Reservations Agency offers exclusive discounted hotel rooms at our official event hotels in Palm Springs.

To book your hotel reservations for LabAutomation2010 in Palm Springs, CA, visit <http://www.labautomation.org/LA10/travel.cfm>.

All hotels are located within walking distance of the convention center, so shuttle service is not required.

**Please Note:** Your patronage of these official meeting hotels makes it possible for ALA to secure the space necessary for this event at greatly reduced costs. The hotels not only offer discounted rates and the best networking opportunities, but staying in the group blocks helps ALA meet its obligation to the hotels, avoid penalties, and keep meeting registration prices down. Thank you in advance for your support!



## Benefits of ALA Membership

### Experience the Benefits of ALA Membership



#### The Knowledge, Resources and Networking You Need to Get Ahead

ALA works hard to deliver tangible programs and services to its members. The most valuable part of an ALA membership, however, is largely intangible. Professionals who actively invest their time and energy in their ALA memberships often experience immeasurable returns on their investments. Those who contribute as volunteers and committee members enjoy even greater advantages.

Scientific education, practical information, professional career-building, and valuable networking opportunities can open many doors to personal and professional success. Acknowledge your role in the unique scientific specialty of laboratory automation. Join the only international, non-profit association devoted exclusively to your best interests.

#### Join ALA today and start taking advantage of the following membership benefits:

- **Discounted registration** to LabAutomation as well as separate short course discounts
- **Access to LabAutopedia**—ALA's award-winning wiki that's filled with extensive, reliable and dynamic knowledge
- **Subscription to the Journal of the Association for Laboratory Automation (JALA)**
- **Access to 24/7/365 News Service** via the ALA Web site, providing Online access to full-text articles focused on lab automation
- **Access to The Market Place for Laboratory Automation**, housing product listings, product news, technical notes, event notices, and special connectivity to LabAutopedia
- **Networking opportunities** with world-renowned experts and organizations
- **Access to an all new ALA Career Connections**, the best source for career development
- **Access to LabSnap**, ALA's bi-monthly eNewsletter, which offers a snapshot of the latest in laboratory automation
- **Access to the Lab Man Blog and Podcast**, easy-to-use resources for answers to questions that arise everyday in your lab
- **Access to a collaborative community** where professionals share concerns, ideas and interests

For more information regarding ALA Membership, visit <http://www.labautomation.org/membership/information.cfm>

#### ALA Member Center—A Base Camp for ALA Members

ALA's Member Center serves as a base camp for ALA members and prospective members on the LabAutomation2010 exhibit floor. The Member Center will be packed with things to do and ways to engage. You can stop by to watch the top high school team from the state of California demonstrate their award-winning robots from the FIRST Robotics Competition; be entertained and informed as The Lab Man records live podcasts; review the winning student posters; and enter Passport to Prizes. The Member Center is also a great place to take a break, chat with friends or connect with colleagues.

And while at the Member Center don't forget to "Tell JALA What You Think," complete the JALA survey and become eligible to win a free registration to LabAutomation2011 or one of five \$100 bills.

## ALA Career Connections at LabAutomation2010



### ALA Career Connections

#### Monday–Tuesday, January 25–26

ALA Career Connections is one of the select few highly discrete, automated and integrated employment programs that intuitively brings together its online professional services with its respected career center and development sessions at LabAutomation2010 in Palm Springs, CA, USA.

#### Job Seekers

Job Seekers may submit résumés online through the ALA web site and onsite in Palm Springs, interview with top companies, browse the job boards, and network with recruiting professionals. Get started today: [www.careers.labautomation.org](http://www.careers.labautomation.org)

#### Human Resource Professionals & Recruiters

With approximately 4,000 participants concentrated at LabAutomation2010, our career center substantially narrows the applicant pool to very highly qualified prospects. Your company can conduct highly confidential and professional in-person interviews, and have a major presence in a quaint setting that nurtures networking and relationship building.

### Enhanced Career Coaching Services at LabAutomation2010

#### Marshall Brown & Associates and PharmaLogics Recruiting Partner With ALA to Provide FREE Services

#### Monday–Tuesday, January 25–26

In response to the constricting job market around the world and overwhelming positive response at last year's event, career coaching services through ALA Career Connections have been augmented with addition of two prominent career advisors at LabAutomation2010.

Once again, a representative from PharmaLogics Recruiting, Braintree, MA, will staff ALA Career Connections at the Palm Springs Convention Center to provide professional and discrete career services for LabAutomation2010 attendees. And, new this year, is the addition of an extra career advisor—Marshall Brown, PCC, Marshall Brown & Associates, Washington, D.C.

Career advisors are on-hand for private, one-to-one dedicated time to conduct mock interviews, review resumes, coaching, networking guidance, and to strategize market opportunities with job seekers and hiring managers. **This is a FREE service.**

### Life After Graduate School & Your First Year On The Job Presented by the American Chemical Society

Tuesday, January 26

Instructor: Professor Joel Shulman,  
Ph.D., University of Cincinnati

This program focuses on the transition from the academic world to the business world.

8:00–10:30 am

- Preparing For Life After Graduate School—(Breakfast Served)
- Résumé Preparation: There's Always Room for Improvement
- Effective Interviewing for Industry: A Trainable Skill

12:30–3:30 pm

- What to Expect: Your First Year on the Job—(Lunch Served)
- First Year on the Job: Getting Started in Your Career
- IP & Patents: What You Need to Know
- Business Economics for R&D: A Brief Primer
- Q&A Panel With Industry Leaders

#### Student & Early Career Professionals Activities at LabAutomation2010

ALA continues to expand the involvement of students and early professionals at LabAutomation2010. Besides ALA Career Connections and the new ALA Mentorship Program, don't miss these other great opportunities:

- Special Student Rates for Short Course and Conference Registration
- Student & Early Career Professionals Mixer
- Student Poster Competition
- Student & Early Career Professionals Committee Meeting

Visit [labautomation.org/LA10](http://labautomation.org/LA10)  
for more detailed information.

## Conference Chairs, Scientific Committee, and Board of Directors

### Conference Chairs



**Program Chair**

Robyn A. Rourick, M.S.,  
Pharmaceutical Consultant



**Associate Program Chair**

Adam Woolley, Ph.D.,  
Brigham Young University

#### Detection and Separation

**Track Chair:** Susan Lunte, Ph.D.,  
University of Kansas

**Associate Track Chair:** Lisa Holland, Ph.D.,  
West Virginia University

#### Micro- and Nanotechnologies

**Track Chair:** Aaron Wheeler, Ph.D.,  
University of Toronto

**Associate Track Chair:** Glenn Walker, Ph.D.,  
North Carolina State University

#### High-Throughput Technologies

**Track Chair:** Daniel Sipes, M.S.,  
Genomics Institute of the Novartis  
Research Foundation

**Associate Track Chair:** Timothy Dawes, Ph.D.,  
Genentech, Inc.

#### Informatics

**Track Chair:** Stan Piper, Ph.D., Pfizer, Inc.

**Associate Track Chair:** Jeffrey Christoffersen, Ph.D.,  
Eli Lilly and Company

#### Evolving Applications of Laboratory Automation, Featuring Agriculture and Food

**Track Chair:** Wen-Chy Chu, Ph.D., Pioneer,  
A DuPont Company

**Associate Track Chair:** Thomas E. Strader, M.S.,  
Heartland Biotech

### ALA Board of Directors

**Erik Rubin, Ph.D.**  
Bristol-Myers Squibb Company

**Jason Abbas, M.S.**  
Syngenta Seeds Inc.

**Malcolm Crook, Ph.D.**  
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**Chris Detter, Ph.D.**  
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**R. Scott Martin, Ph.D.**  
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**Kerstin Thurow, Ph.D.**  
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**Steven Vidakovic, Ph.D.**  
Naiad Dynamics

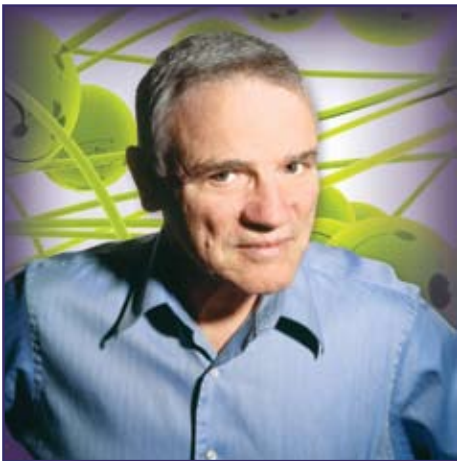


# LabAutomation 2010

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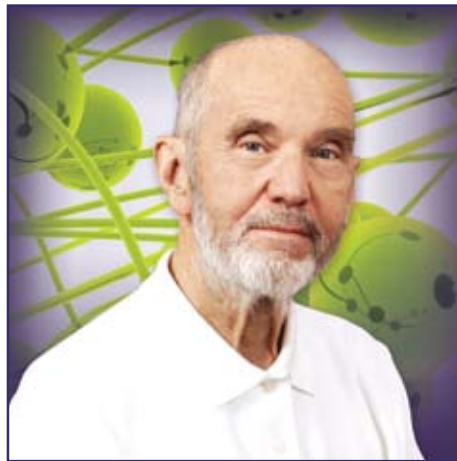
## Voices From the Community

LabAutomation2010 helps to enhance, leverage and care for your company's significant investment in laboratory technologies, and augment your personal development as a researcher and professional.



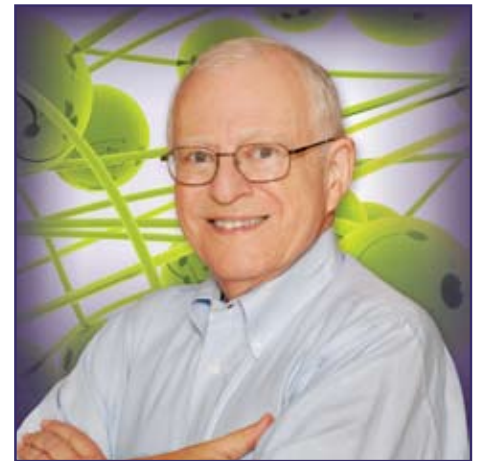
**“The LabAutomation Conference and Exhibition is a fascinating experience. It provides a wonderful venue for sharing ideas with scientists and engineers around the world.** Laboratory automation is a critical component of the high-throughput data measurements of modern biology and medicine. The LabAutomation community has a unique culture, is an integral component of the high-throughput data measurements for genomics, proteomics and phenotypes and thus provides a crucial foundation for modern biology and medicine.”

**Leroy Hood, M.D., Ph.D.,  
President, Institute for  
Systems Biology**



**“One of the very unique things about LabAutomation is that it cuts a wide swath across multiple disciplines.** From forensics and food science, to energy research, drug discovery, bioinformatics, quality control and clinical diagnostics, the LabAutomation Conference and Exhibition creates synergistic connections between different areas that all employ lab automation as a common infrastructure. The LabAutomation Palm Springs experience is the best place and time for you to efficiently network and exchange ideas with old friends and new colleagues. The careful blend of new directions in classic topics and exposure to future tools will keep you current in a rapidly changing field.”

**Raymond E. Dessy, Ph.D., D.Sc.,  
Professor Emeritus, Department  
of Chemistry, Virginia Tech**



**“It’s an ever more challenging world. We not only must solve more difficult problems, but we need truly innovative solutions, developed faster and delivered to the ultimate customer at lower cost.** As an entrepreneur, science and technology and a clear vision of compelling value to the end-user are the tools of innovation. The LabAutomation Conference and Exhibition is a unique forum for that innovation. Lab automation specialists, scientists, business professionals and trusted vendors can network, share and collaborate to create cutting-edge solutions to our healthcare, energy, environmental and other critical challenges. Only in this full context will we develop compelling and cost-effective solutions.”

**Frank Zenie, Chairman,  
The Zenie Group and  
the Zenie Foundation**



## With Thanks, Our Sponsors and Friends Make LabAutomation2010 Possible!

### Premier Sponsor

An exclusive sponsorship, ALA thanks Agilent Technologies for underwriting a number of this year's conference activities, student grants and the Sunday evening Opening Night Launch Celebration at the Wyndham Palm Springs Hotel.



### Platinum Sponsors



### Gold Sponsors



### Silver Sponsors



### Friends of ALA



# LabAutomation 2010

Where Science, Technology and Industry Come Together

## Media Partners



## Conference and Short Course Registration Information

### 2 Ways to Save

Join ALA today and save up to \$200 on the conference registration. You may use this form to register for membership by indicating as such below. For details on membership, visit ALA's Web site, labautomation.org.

### Special Discount for Members:

#### Short Course Discount for Members:

Save 20 percent on a Sunday short course by purchasing a Saturday course. This discount does not apply to the courses that are already two-days in length. Not available for student registrations. Does not apply to course books.

### Conference Registration

Check applicable box. Note: One-day conference registration will be available on-site.

	Member		Non Member	
	On/Before 12.14.09	After 12.14.09	On/Before 12.14.09	After 12.14.09
Industry	\$900	\$1,100	\$1,050	\$1,250
Academic	\$300	\$400	\$450	\$550
Student: by mail or fax +1.708.344.4444 only, include copy of student ID.	\$25	\$25	\$25	\$25
Exhibits-Only	FREE	FREE	FREE	FREE

### Short Courses

Check box of selected course.  
(Short Course registrations include entrance into the Exhibits.)

	Saturday, January 23, 2010, One-Day	Member	Non Member	
<input type="checkbox"/>	<b>NEW!</b> Automated Liquid Handling in Accredited or Forensic Environments	\$500	\$600	
<input type="checkbox"/>	Biostatistics and Exploratory Data Analysis (Computer Based)	\$600	\$700	
<input type="checkbox"/>	Electronic Laboratory Notebooks	\$500	\$600	
<input type="checkbox"/>	Introduction to Laboratory Automation	\$500	\$600	
<input type="checkbox"/>	Liquid Handling Boot Camp (Hands-On)	\$600	\$700	
<input type="checkbox"/>	Molecular Diagnostic Automation	\$500	\$600	
<input type="checkbox"/>	<b>NEW!</b> XML for the Laboratory (Computer Based)	\$600	\$700	
	Sunday, January 24, 2010, One-Day	Discount for 2 Classes		
<input type="checkbox"/>	Applied Information Technology for the Laboratory	\$500	\$400	\$600
<input type="checkbox"/>	Designing and Implementing the Paperless Laboratory	\$500	\$400	\$600
<input type="checkbox"/>	Intermediate Excel and VBA in the Laboratory (Computer-Based)	\$600	\$480	\$700
<input type="checkbox"/>	Introduction to Bar Code Technology (Computer-Based)	\$600	\$480	\$700
<input type="checkbox"/>	Introduction to Design of Experiments (DOE) (Computer-Based)	\$600	\$480	\$700
<input type="checkbox"/>	Introduction to Laboratory Automation	\$500	\$400	\$600
<input type="checkbox"/>	Liquid Handling Boot Camp (Hands-On)	\$600	\$480	\$700
<input type="checkbox"/>	Mass Spectrometry in Drug Discovery, Proteomics, and Metabolomics	\$500	\$400	\$600
<input type="checkbox"/>	Technical Project Management	\$500	\$400	\$600
	Saturday and Sunday, Two-Day			
<input type="checkbox"/>	Getting Started With Excel and VBA in the Laboratory (Computer-Based)	\$1,080		\$1,180
<input type="checkbox"/>	Microfluidics I/II	\$900		\$1,000

### Where to Register:

Register through the Web site at labautomation.org/LA10. Cancellation: \$50 will be deducted from cancellations received on or before December 24, 2009. No refund is available for cancellations received after December 24, 2009.

**Questions?** Call: +1.866.878.0747 (toll free in US Only) or +1.708.486.0747

### Student Registration:

Short courses are \$25 per day on a space available basis. Register by mail only and include a copy of your college student ID.



Should you require special assistance due to a medical disability, please contact ALA Headquarters at +1.630.208.6830.