Program-at-a-Glance

Program subject to change. For additional information go to SLAS.org/LA11

LabAutomation 2011

Where Science, Technology and Industry Come Together

Saturday, January 29, 2011					
8:30 am–4:30 pm	**Short Courses:** Automated Liquid Handling in Accredited or Forensic Environments; Automation for *In Vitro* Diagnostics; Electronic Laboratory Notebooks; Introduction to the Design of Experiments (DOE); Introduction to Laboratory Automation; Liquid Handling Boot Camp; XML for the Laboratory **Saturday and Sunday (two-day courses):** Getting Started With Excel and VBA in the Laboratory; Microfluidics I/II				
Sunday, January 30, 2011					
8:30 am–4:30 pm	**Short Courses:** Applied Information Technology for the Laboratory; Intermediate Excel and VBA in the Laboratory; Introduction to Bar Code Technology; Introduction to Laboratory Automation; Liquid Handling Boot Camp; Molecular Diagnostic Automation; Technical Project Management; Writing Testable and Verifiable User Requirements **Saturday and Sunday (two-day courses):** Getting Started With Excel and VBA in the Laboratory; Microfluidics I/II				
4:30–7:00 pm	**Opening Reception in Exhibit Hall**				
5:00–6:00 pm	**Student and Early Career Professionals Mixer**—SLAS Member Center				
7:00–9:00 pm	**LabAutomation2011 Opening Night Celebration** — Agilent Technologies				
Monday, January 31, 2011					
7:00-8:00 am	**Maximize Your Conference Experience Through Effective Networking**				
8:00–9:00 am	**Laboratory Products Association to Announce Preliminary Results for 2010 North American Laboratory Purchasing Trends Report**				
8:30 am	**Plenary Session Chair:** Adam Woolley, Brigham Young University				
9:00 am	**Opening Keynote Speaker:** Chad A. Mirkin, George B. Rathmann Professor of Chemistry and Director of International Institute for Nanotechnology at Northwestern University; Member of the President's Council of Advisors on Science and Technology Informatics — Thermo Scientific				
10:00 am	**Break**				
10:00 am–6:00 pm	**SLAS Career Connections Open**				
10:00 am–6:30 pm	**Exhibits Open**				
	Track 1: Detection & Separation	**Track 2: Micro- and Nanotechnologies**	**Track 3: High-Throughput Technologies**	**Track 4: Informatics**	**Track 5: Evolving Applications of Laboratory Automation, Featuring Agriculture and Food**
10:30 am–12:30 pm	Session 1				
	Nanomaterials	Nanotherapeutics/ Nanoparticles	Improving Cellular Models Using High Content Imaging	Taking the First Steps into the Cloud	Renewable Bioenergy and Bioproducts
12:30–1:00 pm	**Lunch Break in Exhibit Hall**—Sponsored by: **Laboratory Products Association**				
12:30–2:00 pm	**Industry-Sponsored Workshops**				
1:00–3:00 pm	**Posters**				
3:00–5:00 pm	Session 2				
	Innovation in Commercialization of Separation Devices	Integrated Nano and Microsystems	Advances in Academic Screening (SLAS Sponsored)	Practical Cloud Computing	Ag Biotechnology Applications
5:00–6:30 pm	**Reception in the Exhibit Hall Celebrating JALA Authors**				
7:00–9:00 pm	**Late Night With LRIG: Rapid-Fire Innovation Session**				
Tuesday, February 1, 2011					
7:00–9:00 am	**Analytical & Life Science Systems Association (ALSSA) [Invitation Only]**				
8:00–11:00 am	**Life After Graduation & Your First Year on the Job**—Presented by: **American Chemical Society**				
9:00 am	**Plenary Session Chair:** Daniel Sipes, Genomics Institute of the Novartis Research Foundation **Featured Plenary Speaker:** Daryl Lund, Editor-in-Chief, *Journal of Food Science*, Institute of Food Technologists; Emeritus Professor at the University of Wisconsin, Madison — Thermo Scientific				
10:00 am	**Break**				
10:00 am–6:00 pm	**SLAS Career Connections Open**				
10:00 am–6:00 pm	**Exhibits Open**				
10:30 am–12:30 pm	Session 3				
	Molecular Recognition and Separations	Microfluidics for Single Cell Analysis and Cellular Assays	Bio-Store Automation	Integration Challenges in the Modern Era of Automation	Automated Imaging and High-Throughput Phenotyping
12:30–1:00 pm	**Lunch Break in Exhibit Hall**—Sponsored by: **Analytical & Life Science Systems Association**				
12:30–2:00 pm	**Industry-Sponsored Workshops**				
1:00–3:00 pm	**Posters**				
3:00–5:00 pm	Session 4				
	Remote and Automated Analysis	Innovative Microfabrications Techniques	Advances in Automation for GPCR and Ion Channel Discovery	Data Collection, Manipulation and Visualization	High-Throughput Processing and Analysis of Food
5:00–6:00 pm	**Reception in the Exhibit Hall**				
9:00–10:30 pm	**JALA VIP Reception (Invitation Only)**				
Wednesday, February 2, 2011					
7:30-8:30 am	**The SiLA Consortium for Standardisation in Laboratory Automation**				
9:00–11:00 am	Session 5				
	DNA, RNA and Oligo Analyses	Nanopore Technologies	Profiling for Drug Discovery	Collaborating and Communicating Effectively Around the World	Emerging Technologies
11:00 am	**Break**				
	Special Sessions				
11:15 am-12:30 pm	**A Glimpse Into the Future of Laboratory Automation**				
	Leveraging the Academic/Industry Interface for Education and Research				
12:45–2:30 pm	**Award Luncheon & Closing Ceremony** **Special Speaker:** John M. Butler, NIST Fellow & Group Leader; Applied Genetics Group; Biochemical Science Division; Chemical Science & Technology Laboratory; National Institute of Standards and Technology **SLAS Innovation Award Announcement: $10,000 Cash Award** — Thermo Scientific				

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9:00–10:00 am	**Opening Keynote Speaker:** Chad A. Mirkin, Ph.D. George B. Rathmann Professor of Chemistry and Director of International Institute for Nanotechnology at Northwestern University; Member of the President's Council of Advisors on Science and Technology Informatics Sponsored by: Thermo Scientific
10:00 am–6:00 pm	**SLAS Career Connections Open**
10:00 am–6:30 pm	**Exhibits Open**
10:30 am–12:30 pm	**Detection and Separation—Track 1** **Nanomaterials** **Chair:** Linda McGown, Rensselaer Polytechnic Institute
10:30 am	**Self-Assembled Nanomaterials for Separation Science;** Susan Olesik, Ohio State University
11:00 am	**Encapsulated SERS-Active Au Nanotags: New Applications for Old Nanomaterials;** Michael Natan, Oxonica Materials Inc.
11:30 am	**Induction of Centrosome Fragmentation, Mitotic Spindle Aberrations and Aneuploidy by Occupationally Relevant Doses of Single Walled Carbon Nanotubes and Multi-Walled Carbon Nanotubes, Implications for Monitoring of Acutely Exposed Workers;** Linda Sargent, CDC/NIOSH
12:00 pm	**Enzyme-Nanomaterial Conjugates for Decontamination of Biological Warfare Agents;** Cerasela Zoica Dinu, West Virginia University
10:30 am–12:30 pm	**Micro- and Nanotechnologies—Track 2** **Nanotherapeutics/Nanoparticles** **Chair:** Glenn Walker, North Carolina State University
10:30 am	**Lipid Membrane Editing With Peptide Cargo Linkers In Cells and Synthetic Nanostructures: New Approaches to Cancer Therapy;** Samuel Wickline, Washington University
11:00 am	**Nano-Flares for Detecting and Quantifying mRNA and Small Molecules in Living Cells by Fluorescence;** David Giljohann, AuraSense LLC
11:30 am	**Plasmonic Eu-virus for Targeting, Delivery, and Molecular Imaging;** SoonGweon Hong, University of California, Berkeley
12:00 pm	**Nanodiamond-Based Therapeutic Delivery Platforms for Cancer Treatment;** Dean Ho, Northwestern University
10:30 am–12:30 pm	**High-Throughput Technologies—Track 3** **Improving Cellular Models Using High Content Imaging** **Chair:** Jonathan Lee, Eli Lilly and Company
10:30 am	**Small Molecules in the Differentiation of ES Cells Toward Pancreatic Lineage;** Malgorzata Borowiak, Harvard Stem Cell Institute
11:00 am	**Automating Image Acquisition and Analysis of Multicellular Organisms;** Andreas Vogt, University of Pittsburgh
11:30 am	**Contextual Drug Discovery and Development Via High-Content Analysis of Cellular Networks;** John Westwick, Odyssey Thera, Inc.
12:00 pm	**Motility Contrast Imaging in Three-Dimensional Tissue-Based Drug Screening;** David Nolte, Purdue University

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10:30 am–12:30 pm	**Informatics—Track 4** **Taking the First Steps into the Cloud** **Chair:** James DeGreef, GenoLogics
10:30 am	**Implementation of a Cloud-Based Biorepository Informatics Solution at a Community Hospital Research Facility;** Marty R. Jacobson, St. Mary's Saccomanno Research Institute
11:00 am	**Developing a National Computing Infrastructure to Support Early Cancer Detection For the NCI EDRN-Canary Foundation;** Daniel Crichton, NASA JPL
11:30 am	**A Change in the Weather – Using the Cloud to Manage Business and Development Operations;** Cliff McCollum, GenoLogics Life Sciences Software
12:00 pm	**Synergizing Clinical Modeling Using Cloud Computing;** Mohammad Shaikh, Bristol-Myers Squibb Company
10:30 am–12:30 pm	**Evolving Applications of Laboratory Automation – Track 5** **Renewable Bioenergy and Bioproducts** **Chair:** Masood Hadi, Sandia National Labs/Joint BioEnergy Institute
10:30 am	**j5: Scar-Less Multi-Part DNA Assembly Design Automation;** Nathan Hillson, Joint BioEnergy Institute
11:00 am	**RIBOENGINE: Wheat Germ Cell-Free Protein Production System for Rapid Functional and Structural Genomics Screens and Scale-up;** Yaeta Endo, Ehime University
11:30 am	**Cellulosic BioFuels: Automation Challenges for Enzyme Test Bench;** Masood Hadi, Sandia National Labs/Joint BioEnergy Institute
12:00 pm	**An Automated Method of Preparing Algae Samples for Analysis of Fatty Acid Profile and Content;** Andy Thompson, Aurora Algae
12:30–1:00 pm	**Lunch Break in the Exhibit Hall** Sponsored by: LPA Laboratory Products Association
12:30–2:00 pm	**Industry-Sponsored Workshops**
1:00–3:00 pm	**Poster Session in the Exhibit Hall**
3:00–5:00 pm	**Detection and Separation—Track 1** **Innovation in Commercialization of Separation Devices** **Chair:** Carlos Garcia, University of Texas, San Antonio
3:00 pm	**A Modular, Multi-Task Immunoaffinity Device Connected to Capillary Electrophoresis for the Enrichment, Separation and Identification of Protein Biomarkers;** Norberto Guzman, Princeton Biochemicals, Inc.
3:30 pm	**Capacitively Coupled Contactless Conductivity Detection: An Open Project;** Claudimir do Lago, Universidade de Sao Paulo
4:00 pm	**Automated Modular Interface for Microfluidic Separations and Fluorescent Detection;** Yolanda Fintschenko, Labsmith
4:30 pm	**Significant Advances in Peptide/Protein Analysis by Mass Spectrometry;** Jean-Marc Busnel, Beckman Coulter, Inc.
3:00–5:00 pm	**Micro- and Nanotechnologies—Track 2** **Integrated Nano and Microsystems** **Chair:** James P. Landers, University of Virginia
3:00 pm	**Acoustophoretic Cell Handling in Microfluidic Systems—Towards Clinical Applications;** Thomas Laurell, Lund Institute of Technology, Lund University
3:30 pm	**Defining Integrated and Portable Microfluidic Systems for Automated STR Analysis Applicable to Forensic DNA Analysis: the RapID™ System;** Joan Bienvenue, Lockheed Martin
4:00 pm	**Tackling Challenges in Food Safety With Lab-on-Chip Technologies;** Silja Senkbeil, DTU Nanotech
4:30 pm	**Self-Contained Microfluidic Systems Enabled by On-Chip Pneumatic Control Circuits;** Elliot Hui, University of California, Irvine

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3:00–5:00 pm	**High-Throughput Technologies—Track 3** **Advances in Academic Screening (SLAS Sponsored)** **Chair:** Bill P. Janzen, University of North Carolina at Chapel Hill
3:00 pm	**Drug Discovery in Academics: What Have We Learned?;** Marcie Glicksman, Brigham & Womens Hospital and Harvard Medical School
3:30 pm	**Probe Development in the Public Domain: Coupling Complex Biology With Novel Chemistry;** Michelle Palmer, Broad Institute of Harvard and MIT
4:00 pm	**High Throughput Flow Cytometry for Small Molecule Discovery in the NIH Molecular Libraries Initiative and Beyond;** Larry A. Sklar, University of New Mexico
4:30 pm	**Infectious Agents and Drug Discovery: How to Conduct HTS Screening Campaigns Under BSL-2 and BSL-3 Level Containment;** Lynn Rasmussen, Southern Research Institute
3:00–5:00 pm	**Informatics—Track 4** **Practical Cloud Computing** **Chair:** Stu Shannon, Illumina, Inc.
3:00 pm	**Cloud Computing: Driving Innovation Delivering New Efficiencies;** Matt Waldbusser, International Business Machines
3:30 pm	**Life Sciences Tech Implementation and Cloud Hosting;** Mick Gallagher
4:00 pm	**Lifting Lab Operations to the Cloud;** Thomas Kent, Sciformatix Corporation
4:30 pm	**Turning the Cloud Into Practical Reality;** David Brown, Neudesic
3:00–5:00 pm	**Evolving Applications of Laboratory Automation – Track 5** **Ag Biotechnology Applications** **Chair:** Wen-Chy Chu, Pioneer Hi-Bred
3:00 pm	**Near-Real-Time Field Sensing Systems for Precision Agriculture;** Lei Tian, University of Illinois
3:30 pm	**Formulating for the Future – High-Throughput Formulation Opportunities in Agrochemicals;** Catherine Piper, Syngenta
4:00 pm	**Harvesting Innovation by Accelerating Ideas: Engineering and Scientific Solutions for Plant Breeding;** Kevin Deppermann, Monsanto Company
4:30 pm	**Integrating High-Throughput Systems Into Commercial Bovine Genomics;** Jason Downing, Illumina, Inc.
5:00–6:30 pm	**Reception in the Exhibit Hall Celebrating JALA Authors**
7:00–9:00 pm	**Late Night With LRIG: Rapid-Fire Innovation Session**
Tuesday, February 1, 2011	
7:00-9:00 am	**Analytical & Life Science Systems Association (ALSSA) [Invitation Only]**
8:00-11:00 am	**Life After Graduation & Your First Year on the Job—Presented by the American Chemical Society**
9:00–10:00 am	**Plenary Session Chair:** Daniel Sipes, Genomics Institute of the Novartis Research Foundation Sponsored by: Thermo SCIENTIFIC **Featured Plenary Speaker:** Daryl Lund, Editor-in-Chief, *Journal of Food Science*, Institute of Food Technologists; Emeritus Professor at the University of Wisconsin, Madison
10:00–10:30 am	**Break**
10:00 am–6:00 pm	**SLAS Career Connections Open**
10:00 am–6:30 pm	**Exhibits Open**
10:30 am–12:30 pm	**Detection and Separation—Track 1** **Molecular Recognition and Separations** **Chair:** Lisa Holland, West Virginia University
10:30 am	**Development of Microfluidic Chips for Heterogeneous Receptor-Ligand Interaction Studies;** Frank Gomez, California State University, Los Angeles
11:00 am	**A Bio-Inspired Pathway to Aptamer Discovery;** Linda McGown, Rensselaer Polytechnic Institute
11:30 am	**Two-Dimensional Protein Separation in a Device with Microvalve Arrays;** Z. Hugh Fan, University of Florida
12:00 pm	**On-line Biomolecule Characterization Using Phospholipid-Based "Nanodisk" Additives in Capillary Electrophoresis;** Stephanie Archer-Hartmann, West Virginia University

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10:30 am–12:30 pm	**Micro- and Nanotechnologies—Track 2** **Microfluidics for Single Cell Analysis and Cellular Assays** **Chair:** Ali Khademhosseini, Harvard-MIT
10:30 am	**A Novel High-Throughput Hemodynamic System for Biological and Drug Discovery;** Guillermo Garcia-Cardena, Harvard Medical School
11:00 am	**An Automation Compatible Microfluidic Liver Array for Metabolite Screening;** Philip Lee, CellASIC Corporation
11:30 am	**Microfluidics Enables Small-Scale Tissue-Based Metabolism Studies With Scarce Human Tissue;** Paul van Midwoud, University of Groningen
12:00 pm	**Deformability Cytometry: High-Throughput Label-Free Measurement of Cancer Cell Malignancy and Stem Cell Differentiation State;** Dino Di Carlo, University of California, Los Angeles
10:30 am–12:30 pm	**High-Throughput Technologies—Track 3** **Bio-Store Automation** **Chair:** Richard Kuo, Novartis Institutes for Biomedical Research
10:30 am	**Enabling Technologies in Sample Management of the World's Largest Prospective Health Study;** Paul Downey, UK Biobank
11:00 am	**Accelerating the Drug Discovery Process Via Global Distribution of Protein- and Nucleic Acid-Based Reagents;** Craig Mickanin, Novartis Institutes for BioMedical Research Inc.
11:30 am	**A Novel Robotic System for Optimizing the Processing and Protecting the Value of Critical Frozen Biospecimens;** Dale Larson, Charles Stark Draper Laboratory/ CryoXtract Instruments, LLC
12:00 pm	**Flexible, Application-Depended HTS Automation Concept in Genomics and Proteomics;** Timo Cuntz, Fraunhofer IPA
10:30 am–12:30 pm	**Informatics—Track 4** **Integration Challenges in the Modern Era of Automation** **Chair:** Stu Shannon, Illumina, Inc.
10:30 am	**Informatic Sample Handling Processes: A High-Throughput Genotyping Facility's Workflow for Sample Information Tracking;** Chrissie Ongaco, Center for Inherited Disease Research
11:00 am	**Feeding The Beasts: High Throughput Sample Preparation for Next Generation Sequencing Applications;** Andrew Barry, Broad Institute Genome Sequencing Platform
11:30 am	**An Information System for Supporting Large Scale DNA Extraction and Normalization;** William McGuire, Kaiser Permanente
12:00 pm	**LIMS to LIMS Integration Using RESTful Web Services;** Sean Kim, Illumina, Inc.
10:30 am–12:30 pm	**Evolving Applications of Laboratory Automation – Track 5** **Automated Imaging and High-Throughput Phenotyping** **Chair:** Keith Cromack, Monsanto
10:30 am	**Biomarkers at the Intersection of Agriculture, Nutrition and Human Health;** Mike Luther, David H Murdock Research Institute
11:00 am	**Translation of Clinical Imaging Technologies Into Plant Sciences;** John Kotyk, Washington University
11:30 am	**Applications of Remote Sensing and Automated Imaging for Field-Based Agriculture;** Randall Pearson, Southern Illinois University Edwardsville
12:00 pm	**Automating Plant Transformation;** David A. Somers, Monsanto Company
12:30–1:00 pm	**Lunch Break in the Exhibit Hall** Sponsored by: Analytical & Life Science Systems Association — Our members' technologies improve your performance
12:30–2:00 pm	**Industry-Sponsored Workshops**
1:00–3:00 pm	**Poster Session in the Exhibit Hall**

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3:00–5:00 pm	**Detection and Separation—Track 1** **Remote and Automated Analysis** **Chair:** Susan Olesik, Ohio State University
3:00 pm	**Development of Automated Micro-Total-Analysis Systems for Planetary Exploration;** Peter Willis, Caltech/Jet Propulsion Laboratory
3:30 pm	**Remote Chemical Analysis of Volatile Compounds Using Microchip—Capillary Electrophoresis and Electrochemical Detection;** Carlos Garcia, University of Texas at San Antonio
4:00 pm	**Thinking Out of the Box: Automated Magnetic Particle Purification Method for Purifying Picogram Quantities of DNA from Biologics;** Suzanne DeMarco, Pfizer Inc.
4:30 pm	**A New High-Throughput Micro-Chromatography Platform for Quantitative Analytical Protein Sample Prep;** Scott Fulton, BioSystem Development, LLC
3:00–5:00 pm	**Micro- and Nanotechnologies—Track 2** **Innovative Microfabrications Techniques** **Chair:** Elliot Hui, University of California, Irvine
3:00 pm	**Think Big...Then Shrink;** Michelle Khine, University of California, Irvine
3:30 pm	**The Drive to Low Ultra Low Cost Screening;** Bruce Peterson, Douglas Inc.
4:00 pm	**Preparation of Nucleic Acid Libraries for Ultra High-Throughput Sequencing With a Digital Microfluidic Hub;** Kamlesh Patel, Sandia National Laboratories
4:30 pm	**Transport of Ions, Polymers, and Gold Nanoparticles Through Nanopore-Based Device of Hierarchical Biogenic Silica Nanostructures;** Kai-Chun Lin, Arizona State University
3:00–5:00 pm	**High-Throughput Technologies—Track 3** **Advances in Automation for GPCR and Ion Channel Discovery** **Chair:** Eric Johnson, Merck
3:00 pm	**Automation-Enabled Screening Approaches for Discovering and Characterizing Allosteric Modulators of Seven-transmembrane Receptors;** Dave Weaver, Vanderbilt School of Medicine
3:30 pm	**Let the Biology Drive: The Complexity of Enabling Automated Multiparameter GPCR Assays;** Jonathan O'Connell, Bristol-Myers Squibb Company
4:00 pm	**Label-Free, Dynamic Monitoring and Screening for Modulators of GPCR Function Using the xCELLigence RTCA High-Throughput System;** Jeff Irelan, ACEA Biosciences, Inc.
4:30 pm	**Cross Assay Correlation in Ion Channel Screening;** Michael Finley, Merck
3:00–5:00 pm	**Informatics—Track 4** **Data Collection, Manipulation and Visualization** **Chair:** Jeffrey Christoffersen, Eli Lilly and Company
3:00 pm	**Standards Within Laboratory Environments;** Thomas Wedehase, Xavo Systems AG
3:30 pm	**BIO: A Unified Informatics Strategy for Biological Data Management in a Mid-Sized Pharmaceutical Company;** Jay Gill, Bristol-Myers Squibb Company
4:00 pm	**Computational Algorithms for Fully Automated Navigation Through Hyper-Complex High Resolution Accurate Mass LC-MS Datasets;** Serhiy Hnatyshyn, Bristol-Myers Squibb Company
4:30 pm	**Identifying Unexpected Associations in Integrated Biomedical Data Sets: Novel Navigation, Analysis & Visualization Interaction Patterns for Semantic TripleStores;** Christopher Bouton, Etagen
3:00–5:00 pm	**Evolving Applications of Laboratory Automation – Track 5** **High-Throughput Processing and Analysis of Food** **Chair:** Byron Brehm-Stecher, Iowa State University
3:00 pm	**Integrated Rapid Sample Processing/Detection of Waterborne and Foodborne Pathogens;** Daniel Lim, University of South Florida
3:30 pm	**Parallel Capillary Electrophoresis With Fluorescence Detection for Sensitive, Reproducible and Automated Analysis of DNA;** Pierre Varineau, Advanced Analytical Technologies
4:00 pm	**Automated Pathogen Identification and Simultaneous Antimicrobial Susceptibility Testing in 2 Hours;** May Chiu, GeneFluidics, Inc.
4:30 pm	**Imaging Flow Cytometry for High Content, High-Throughput Food Safety Assessment;** David Basiji, Amnis Corporation

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9:00–11:00 am	**Detection and Separation—Track 1** **DNA, RNA and Oligo Analyses** **Chair:** Frank Gomez, California State University, Los Angeles
9:00 am	**Exploiting the Microfluidic "Pinwheel Effect" for Label-Free DNA Quantitation, Cell Counting and Bacterial Detection;** James Landers, University of Virginia
9:30 am	**Multiplexing Respiratory Virus Surveillance and Screening;** Jeff Chapman, Beckman Coulter Inc.
10:00 am	**Rapid Detection Method Utilizing Raw Specimen Without Sample Purification or Target Amplification;** Vincent Gau, Genefluidics
10:30 am	**Development of a Multiplex PCR Assay for the Identification of Commercial Salmon and Trout Species (Oncorhynchus and Salmo) in North America;** Rosalee Rasmussen Hellberg, Oregon State University
9:00–11:00 am	**Micro- and Nanotechnologies—Track 2** **Nanopore Technologies** **Chair:** Jacob Schmidt, University of California, Los Angeles
9:00 am	**Understanding the Surface of Fused Silica Nanofluidic Channels Towards Efficient Biological Separations;** Sumita Pennathur, University of California, Santa Barbara
9:30 am	**An Artificial Cell Membrane Platform for High-Throughput Cell-Free Electrophysiology;** Jason Poulos, Librede
10:00 am	**Solid-Phase Based Nanobiotechnology Platform for Label Free Screening in an Array Format Interfacing Mass Spectroscopy for Analysis Read-Out;** Simon Ekstrom, University of Lund
10:30 am	**Novel Microfabricated HPLC Tools for Complex Chemical Analysis;** Don Arnold, Eksigent Technologies
9:00–11:00 am	**High-Throughput Technologies—Track 3** **Profiling for Drug Discovery** **Chair:** Michele Cleary, Merch & Co, Inc.
9:00 am	**Identification of Oncology Biomarkers by Integrating HTS With Molecular Profiling;** Bill Arthur, Merck & Co., Inc.
9:30 am	**Real Time Beat to Beat Contraction Profiling Based Cardiotoxicity Screening Using the xCELLigence RTCA Cardio System;** Biao Xi, ACEA Biosciences
10:00 am	**Phenotypic Screening: A Complementary Drug Discovery Paradigm;** Jonathan Lee, Eli Lilly and Co.
10:30 am	**High Throughput *In Vitro* Combination Profiling—Frontier of Acoustic Reformatting Technology and Novel Imaging;** Eric Tang, AstraZeneca PLC
9:00–11:00 am	**Informatics—Track 4** **Collaborating and Communicating Effectively Around the World** **Chair:** Jason Bronfeld, Bristol-Myers Sqibb Company
9:00 am	**Can SAP be Integrated Into Lab Processes?;** Steve Bolton, Labtronics Inc.
9:30 am	**Accelerating Adoption of Collaboration in R&D;** Mark Yuzuk, Bristol-Myers Squibb Company
10:00 am	**Toward a Distributed Research Model for Effecting Productivity Improvements in R&D;** Erik Rubin, Bristol-Myers Squibb Company
10:30 am	**Analytical Science Collaboration From Lab to Plant: Using an ELN to Streamline the Exchange of Analytical Methods Between the Laboratory and QA/QC Systems;** John McCarthy, Accelrys

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9:00–11:00 am	**Evolving Applications of Laboratory Automation – Track 5** **Emerging Technologies** **Chair:** Tom Strader, Pressure BioSciences
9:00 am	**The Challenges of Automating Sample Preparation in the Proteomics Era;** Gary Smejkal, Harvard
9:30 am	**A Revolutionary Automated Pipetting Paradigm;** Reed Kelso, Bionex Solutions
10:00 am	**A Droplet Microfluidics Based Miniaturized Total Analysis System for Point-of-Care Molecular Diagnostics;** Tza-Huei "Jeff" Wang, Johns Hopkins University
10:30 am	**High-Throughput Applications for Magnetic Separations in Molecular Biology and Cell Culture;** Veit Bergendahl, Miltenyi Biotec GmbH
11:00–11:15 am	**Break**
11:15 am-12:30 pm	**A Glimpse Into the Future of Laboratory Automation**
	Leveraging the Academic/Industry Interface for Education and Research
12:45–2:30 pm	**Awards Luncheon & Closing Ceremony** **Special Speaker:** John M. Butler, Ph.D., NIST Fellow & Group Leader; Applied Genetics Group; Biochemical Science Division; Chemical Science & Technology Laboratory; National Institute of Standards and Technology **SLAS Innovation Award Announcement:** $10,000 Cash Award

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SLAS INNOVATION AWARD