



slas  
2015

4<sup>th</sup> annual  
CONFERENCE & EXHIBITION

february / **seven - eleven**

WASHINGTON, DC / [SLAS2015.ORG](http://SLAS2015.ORG)  
WALTER E. WASHINGTON CONVENTION CENTER

**SHORT COURSES:** february / seven - eight

**CONFERENCE:** february / nine - eleven

**EXHIBITION:** february / eight - ten

Register by October 31 for deepest discounts



COME  
**TRANSFORM**  
RESEARCH

**CONFERENCE** PREVIEW

[SLAS2015.ORG](http://SLAS2015.ORG)

Premier Sponsor: **HAMILTON**

 **slas** SOCIETY FOR  
LABORATORY AUTOMATION  
AND SCREENING



# COME TRANSFORM RESEARCH

## Dear Colleague:

As Program Committee Co-Chairs for SLAS2015, please accept this invitation to join us for this engaging and innovative event taking place February 7-11 in Washington, DC. In the company of more than 5,000 fellow researchers and technologists, you will benefit from an insightful scientific program that was selected by your peers. SLAS2015 also features an extensive products and services exhibition where you can experience the latest scientific technologies for consideration in your organization. Along with the education and new technology aspects, SLAS2015 is rich in professional networking opportunities and an ideal venue to build your personal circle of contacts that you can call upon year-round. See complete event details and register today at [SLAS2015.org](http://SLAS2015.org). We hope to see you in Washington, DC, next February.

## YOUR SLAS2015 CO-CHAIRS



**Jim Inglese**  
National Institutes of  
Health (NIH)



**Elliot Hui**  
University of  
California, Irvine

# WHAT'S NEW AT SLAS2015

SLAS strives to continually improve the quality of all the Society's programs. SLAS2015 is no exception. Check out these new and improved aspects on tap for **SLAS2015**:

## **WASHINGTON, DC, LOCATION:**

SLAS2015 marks the first time SLAS convenes in Washington, DC. In addition to the conveniently accessible location and cultural attractions, DC enables a truly unique roster of high-profile presenters and participants, including NIH Director Francis Collins and NCATS Director Chris Austin. For more details on programming geared specifically towards government scientists, see **SLAS2015.org/government**.

## **SPECIAL SESSIONS:**

Program planners have curated several special sessions, each comprised of multiple presentations. These include European Government/Foundation Drug Discovery Initiatives, An Evening With NIH, and The Commercialization of Laboratory Technologies: From Ideas to Reality (presented by the *Journal of Laboratory Automation*).

## **REVAMPED SHORT COURSES:**

SLAS2015 features a completely updated lineup of Short Courses, including seven brand new offerings. See pages 4 and 5 for the complete list of Short Courses.

## **CAREER CONNECTIONS AND STUDENT PROGRAMMING:**

A host of career services and educational workshops are offered to help you set or redirect your career trajectory. See details on page 9.

## **NEW SIG - AUTOMATED SAMPLE PREPARATION OF PHARMACEUTICAL DOSAGE FORMS:**

Get in on the ground floor with this new SLAS Special Interest Group dedicated to those interested in the current and future state of automation platforms used in sample preparation of pharmaceutical dosage forms. See page 7 for a list of SLAS2015 SIGs.

## **2015 SLAS LEADERSHIP FORUM:**

SLAS will host its first Leadership Forum at SLAS2015. This unique program, tailored to the needs and interests of executive-level professionals, features a distinguished collection of participants and attendees discussing strategic-caliber issues in life science R&D. A highlight is a panel discussion on Rescuing US Biomedical Research From Its Systemic Flaws. See **SLAS2015.org** for details on this invitation-only program.

## **CELEBRATE 20 YEARS OF JOURNAL PUBLISHING:**

2015 marks 20 years of publishing for SLAS's two peer-reviewed, MEDLINE-indexed scientific journals, JALA and JBS. Join in the festivities with a number of author meet-and-greets, instruction on how to improve the quality and discoverability of your own research, and other special programming.

# TRANSFORM



# TRANSFORM YOUR KNOWLEDGE

## SCIENTIFIC PROGRAM

**SLAS2015** presents seven in-depth educational tracks that will enlighten you to the latest research, introduce you to innovative strategies, and help you drive more value to your organization. The program is carefully vetted and selected by a group of your peers, so you can count on high quality, relevance and applicability to your professional priorities. Build a customized itinerary from among 140 podium presentations, hundreds of posters, three insightful keynotes and 17 Short Courses (additional fee required).

1

### ASSAY DEVELOPMENT AND SCREENING

HIGHLIGHTED PRESENTATION:

**Cell-Based Assays for Biologics Drug Discovery**

Caroline Colley, MedImmune

2

### AUTOMATION AND HIGH-THROUGHPUT TECHNOLOGIES

HIGHLIGHTED PRESENTATION:

**From Brackets to Body Parts – How 3D Printing is Changing the Way We Work**

Stephen Trowbridge, GlaxoSmithKline

3

### BIOANALYTICAL TECHNIQUES

HIGHLIGHTED PRESENTATION:

**Novel Acoustic Loading of a Mass Spectrometer – Towards Next Generation High-Throughput MS Screening**

Jonathan Wingfield, AstraZeneca

4

### BIOMARKER DISCOVERY AND APPLICATIONS

HIGHLIGHTED PRESENTATION:

**Biomarker Qualification at CDER, FDA**

Shashi Amur, FDA/CDER

5

### DRUG TARGET STRATEGIES

HIGHLIGHTED PRESENTATION:

#### **Allosteric Stabilizers of Protein Structure for Gaucher's Disease**

**Juan Marugan**, National Institutes of Health (NIH)/National Center for Advancing Translational Sciences (NCATS)

6

### INFORMATICS

HIGHLIGHTED PRESENTATION:

#### **Real Time Predictive Modeling of Clinical Samples in Transit to Ensure Sample Viability**

**Jarie Bolander**, Lab Sensor Solutions

7

### MICRO/NANO TECHNOLOGIES

HIGHLIGHTED PRESENTATION:

#### **Digital Microfluidic Immunocytochemistry in Single Cells (DISC)**

**Aaron Wheeler**, University of Toronto

## KEYNOTE

### PRESENTATIONS

#### MONDAY FEBRUARY 9



**Donald E. Ingber, M.D., Ph.D.**

Founding Director, Wyss Institute for Biologically Inspired Engineering at Harvard University

#### WEDNESDAY FEBRUARY 11



**Francis Collins, M.D., Ph.D.**

Director, National Institutes of Health (NIH)

#### WEDNESDAY FEBRUARY 11



**Laurie Garrett**

Author, journalist and authority on global health issues

See complete bios and additional details on [SLAS2015.org](http://SLAS2015.org).



## SHORT COURSES

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17 Short Courses will kick-off **SLAS2015** on **Saturday-Sunday, February 7-8**. This completely revamped lineup is sure to help your research proficiency, increase your understanding of prevalent automation techniques, and improve your value to your organization. These courses provide in-depth instruction and, often, hands-on experience to make your take home skills that much more valuable. Instructors are recognized subject matter experts with proven ability to impart even complex lessons in a style and pace suited to all students. SLAS2015 Short Course attendance is limited and requires an additional registration fee. **For course descriptions, costs and other details, visit [SLAS2015.org](http://SLAS2015.org).**

### saturday, february seventh

#### **ESTABLISHING CELL-BASED ASSAYS FOR SCREENING**

**Instructors:** Terry Riss, Promega; Lisa Minor, In Vitro Strategies, LLC; Geoffrey Bartholomeusz, UT M.D. Anderson Cancer Center

#### **NEW LAB-ON-A-CHIP: FROM TECHNOLOGY TO BIOANALYSIS ON CHIP**

**Instructors:** Sabeth Verpoorte, University of Groningen; Johan Nilsson, Lund University; Jörg P. Kutter, University of Copenhagen

#### **NEW LIQUID HANDLING ESSENTIALS – A HANDS-ON WORKSHOP BRIDGING FUNDAMENTAL CONCEPTS TO PRACTICE**

**Instructors:** Nathaniel Hentz, North Carolina State University; Keith Albert, ARTEL; Dana Campbell, ARTEL

### sunday, february eighth

#### **3D CELL-BASED ASSAYS FOR DRUG DE-RISKING**

**Instructors:** Ursula Graf-Hausner, University of Applied Sciences Zurich; Jens M. Kelm, InSphero AG

#### **NEW CROSS FUNCTIONAL PROJECT MANAGEMENT FOR TECHNICAL PROFESSIONALS**

**Instructor:** Barry Weinstein, Barry M. Weinstein and Associates

#### **NEW DATA MANAGEMENT IN THE AGE OF BIG DATA, MOBILE, AND THE CLOUD**

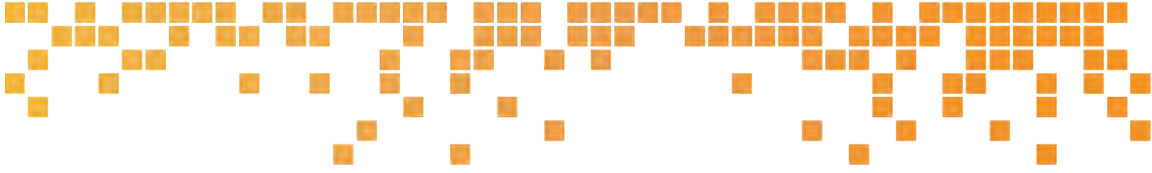
**Instructor:** Burkhard Schaefer, BSSN Software

#### **NEW DIGITAL IMAGE PROCESSING AND ANALYSIS FOR THE LABORATORY SCIENTIST: THEORY AND APPLICATION**

**Instructors:** Matthew Fronheiser; Mark F. Russo, Rowan University

#### **HIGH CONTENT SCREENING: INSTRUMENTATION, ASSAY DEVELOPMENT, SCREENING, IMAGE AND DATA ANALYSIS**

**Instructors:** Eberhard Krausz, ChemBioCon; Marc Bickle, Max Planck Institute of Molecular Cell Biology and Genetics, Technology Development Studio



**SLAS2015  
Short Courses**  
offer a deep  
dive into key  
scientific  
topics.

## sunday, february eighth (cont'd)

### **NEW** INTRODUCTION OF QUANTITATIVE TREATMENT OF BIOLOGICAL ASSAYS IN BIOANALYTICAL LABORATORY

**Instructors:** Liming Shi, Eli Lilly and Company; Robert Nadon, McGill University and Genome Quebec Innovation Centre

### **INTRODUCTION TO LABORATORY AUTOMATION**

**Instructors:** Steven D. Hamilton, SLAS Director of Education; James M. Gill II

### **INTRODUCTION TO THE DERIVATION AND MAINTENANCE OF HUMAN INDUCED PLURIPOTENT STEM CELLS**

**Instructors:** David J. Kahler, NYU Langone Medical Center; Justin Ichida, University of Southern California; Kelvin Lam, Simplex Pharma Advisors

### **NEW** LAB-ON-A-CHIP: BIOMEDICAL CASE STUDIES

**Instructors:** Sabeth Verpoorte, University of Groningen; Johan Nilsson, Lund University; Jörg P. Kutter, University of Copenhagen

### **LABEL-FREE/BIOPHYSICS METHODS FOR SCREENING**

**Instructors:** Christine Genick, Novartis; Delphine Collin, Boehringer Ingelheim

### **NEXT GENERATION SEQUENCING TECHNOLOGY FUNDAMENTALS AND APPLICATIONS**

**Instructors:** Dawei Lin, National Institutes of Health; Ryan Kim, University of California, Davis Genome Center

### **SAMPLE MANAGEMENT: BEST PRACTICE, TRENDS AND CHALLENGES**

**Instructors:** Sue Holland Crimmin, GlaxoSmithKline; Katheryn Shea, Precision for Medicine

## saturday, february seventh & sunday, february eighth

### **GETTING STARTED WITH EXCEL & VBA**

**Instructors:** William Neil, Martin Echols

### **PHARMACOKINETICS AND PHARMACODYNAMICS IN DRUG DISCOVERY**

**Instructor:** Terry Kenakin, University of North Carolina School of Medicine



# TRANSFORM

## YOUR APPRECIATION OF NEW TECHNOLOGIES

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### THE EXHIBITION

The exhibition at SLAS2015 features more than 300 leading scientific technology providers showcasing the latest products and services. This venue is a great way to see the latest technologies firsthand, ask questions of expert developers and product managers, and compare offerings that best fit the needs and business objectives of your laboratory. SLAS2015 fosters a friendly, welcoming environment where a spirit of collaboration precedes sales pitches. You will leave the SLAS2015 Exhibition better prepared to recommend new products, services and technologies to take your organization to the next level.

#### The SLAS2015 Exhibition includes:

- Exhibitor-led tutorials that provide technical education by exhibiting companies
- Innovation Ave*NEW*, a dedicated area of the floor that hosts a select group of emerging companies offering impressive new technologies
- The SLAS New Product Award (NPA) designation that recognizes up to three new products being showcased in the exhibition
- The SLAS Member Center, where you can relax with other attendees, meet SLAS leaders and professional team members, participate in SLAS Journal activities, and sign-up for Career Services offered at SLAS2015

Visit [SLAS2015.org](http://SLAS2015.org) for the latest list of exhibiting companies and a schedule of events in the exhibition.



# SPECIAL INTEREST GROUPS (SIGS)

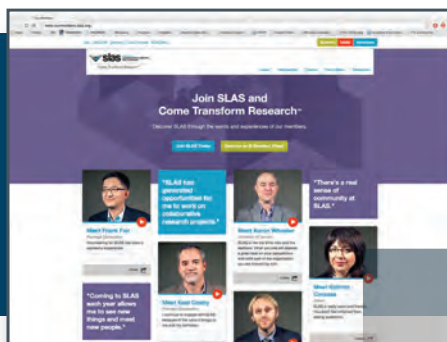
SLAS SIGs allow you to connect directly with peers who share similar interests and expertise in specific areas of scientific technology. SIGs are a great way to discuss leading-edge trends, meet recognized experts, and collaborate with like-minded peers. A listing of the SIGs scheduled to meet at SLAS2015 appears below.

- Academic Drug Discovery
- ADMET
- Automated Sample Preparation of Pharmaceutical Dosage Forms
- Automation Quality Control
- Drug Repurposing
- HCS/HCA Data and Informatics
- Informatics
- Labware Leachables
- Phenotypic Drug Discovery
- Sample Management
- Screen Design and Assay Technology
- Standards Initiatives
- Stem Cells and 3D Microtissues
- Technology Transfer and CRO/CMO Project Management
- Women Professionals in Science and Technology

For descriptions and a meeting schedule, visit [SLAS2015.org](http://SLAS2015.org).

## DISCOVER SLAS THROUGH OUR MEMBERS

SLAS assists members in advancing their knowledge and careers. Meet SLAS members – and hear their personal stories of success enabled by the Society – in a new video series posted at [ourmembers.slas.org](http://ourmembers.slas.org).



# TRANSFORM

## YOUR NETWORK

### NETWORKING

With more than 5,000 attendees from across the globe and a diverse set of industry backgrounds, SLAS2015 is an ideal venue to meet fellow researchers, share “tales from the front,” learn from others’ experiences and build a network of professional contacts that can be counted on year-round. Among the benefits, the SLAS Global Village in the Member Center will make international attendees feel welcome. Students and Early Career Professionals will enjoy an exclusive evening event on Sunday, February 8. From hallway conversations to evening receptions, SLAS2015 is a great way to build both personal and professional relationships. Bring a healthy supply of business cards.

# ALLIED ORGANIZATIONS AT SLAS2015:

## TRANSFORM YOUR ACCESS

SLAS2015 features sessions, news, networking, innovation and unique access made possible by partnerships with other organizations whose missions are complementary to SLAS's charter of serving the scientific community:

### American Chemical Society (ACS)

Washington-area members of the American Chemical Society (ACS) will provide 1:1 mentoring and career advice to SLAS2015 attendees.

### Analytical, Life Science & Diagnostics Association (ALDA)

Invite-only session for senior executives featuring presentations on global trends in laboratory automation techniques, applications and their strategic implications.

### Association for Molecular Pathology (AMP)

AMP representatives deliver presentations on special diagnostics and biomarkers.

### Laboratory Products Association (LPA)

LPA and SLAS host a special session to announce the preliminary results of the annual North American Survey of Laboratory Purchasing Trends.

### LRIG

Late Night With LRIG – Rapid Fire Innovation Session: Sponsored by LRIG, ELRIG and local LRIG chapters; an interactive forum featuring an overview, discussion and open question-and-answer session about new technologies.

### Society of Biomolecular Imaging and Informatics (SBI2)

The HCS/HCA Data and Informatics SIG is presented in partnership with the Society of Biomolecular Imaging and Informatics (SBI2). The SIG actively addresses issues in the area of information technology and fosters discussions, information sharing and meetings among group members and SIG participants at SLAS2015.



# TRANSFORM YOUR CAREER

slas  
CAREER+CONNECTIONS™

**SLAS2015** provides unique access and resources to help you accelerate your career and distinguish yourself in a competitive job market.

## CAREER SERVICES

Review job postings in the newly redesigned Career Connections section of the SLAS Member Center. Post your résumé for prospective employers. Participate in an individual career coaching session, or have your résumé reviewed by a recognized scientific career expert.

## MENTORING

Benefit from a mentoring session with an established professional scientist local to DC. Members of American Chemical Society (ACS) will provide complimentary mentoring and career advice. Advance sign-up will be offered through **SLAS2015.org**.

## WORKSHOPS

Four different workshops, led by recognized scientific career experts Professor Dan Eustace, University of Connecticut, and Joanne Kamens, Addgene, will help you hone your credentials, polish your skills and stand out in today's job market. These workshops are free-of-charge to SLAS2015 attendees, and available on a first-come, first-served basis.

- *Mock Interviews: Preparation and Practice for Getting the Jobs You Want*
- *Not Networking 101 – Building Professional Relationships for Success*
- *Smooth Transitions – Top 10 List: Things Scientists Ask About Finding an Industry Job*
- *How to Choose Your Next Lab*



**Dan Eustace**  
University of Connecticut



**Joanne Kamens**  
Addgene

## REGISTRATION

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SLAS2015 is pleased to offer significant registration discounts to advance registrants, for groups of five (5) individual registrants from the same industry organization, for professionals from academic institutions and government agencies, and for students. Deepest early-bird discounts are available for SLAS members who register by October 31, 2014. (Become an SLAS member to take advantage of these discounts, plus receive year-round benefits through the end of 2015 for just one year's dues.) Advance discounts are available through January 9, 2015. **For complete rates and deadlines, visit [SLAS2015.org/registration](http://SLAS2015.org/registration).**

## HOTEL ACCOMMODATIONS

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SLAS has negotiated discounted housing rates at two premier hotels, the brand new Marriott Marquis Washington, DC (headquarters hotel) and the Renaissance Washington, DC Downtown, located adjacent to the Walter E. Washington Convention Center. Booking a room at one of these properties using official SLAS reservation methods will ensure you receive the exclusive SLAS attendee discount rate, plus other benefits and safeguards. **See complete information and access the unique SLAS attendee reservation link at [SLAS2015.org](http://SLAS2015.org).**

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