



REGISTRATION FORM

MicroTAS 2014 CONFERENCE

October 26 – 30, 2014

San Antonio, Texas, USA

Institution: Industry ☐ Academia ☐ Research/Lab ☐ Government ☐

Region: Americas ☐ Europe/Africa ☐ Asia/Oceania ☐

Gender: Female ☐ Male ☐

First/Given Name: _____ Last/Family Name: _____

Preferred First Name on Name Tag: _____ Degree: _____

Position: _____

Organization: _____

Department: _____ Division: _____

Street: _____

City: _____ Zip/Postal Code: _____

State: _____ Country: _____

Phone No.: _____ Fax No.: _____

Email: _____

Classification: Participant ☐ Conference Presenter ☐ Author ☐ Paper No. _____

Please note that at least one author has to register for each paper in order to publish it in the conference proceedings and the final program. For this reason, please insert your paper number.

Email included on Participant's List for all attendees? Yes ☐ No ☐

Authorization for name and contact information to be provided to commercial supporters: Yes ☐ No ☐

If you require special arrangements, please indicate your request below:

Dietary: _____ Physical: _____

CONFERENCE FEE

	Early Bird On or Before July 31, 2014	Advanced From August 1, 2014 to September 10, 2014	Standard From September 11, 2014 to October 17, 2014	On-site After October 17, 2014	
Participant	\$795	\$850	\$945	\$995	\$ _____
Student (with confirmation*)	\$625	\$650	\$725	\$750	\$ _____

* Include Student Advisor's Name: _____

DAILY CONFERENCE FEE

	Registration Rate per Day	Number of Days	Which Days?	
☐ Participant Daily Rate	\$500	x _____	_____	\$ _____
☐ Student Daily Rate	\$350	x _____	_____	\$ _____

Pre-registration will close on October 17, 2014. After October 17, 2014, all prospective attendees will register on-site at the on-site rate. Please bring this registration form with payment to on-site registration.

Registration payment, in US Dollars (\$) only, is due within 10 days of receipt of your registration. Registration is not valid or complete until payment is received unless other arrangements are made. The registration fee includes program material, (1) **Electronic Technical Digest**, exhibit hall access, welcome reception, refreshment/coffee breaks, and a 20% nonrefundable cancellation fee. A \$50 fee will be charged for all substitutions. All requests for refunds must be received in writing no later than October 17, 2014. No refunds will be made after this date.

A variety of 3-6 hour workshops will be offered on Sunday, 26 October 2014. Two full-day workshops and three half-day (1/2) workshops will be offered. Morning sessions begin at 09:00 and the afternoon sessions begin at 13:30. Fee includes entrance to one short course or the workshop and attendees must choose which prior to arrival to the MicroTAS 2014 Conference.

	On or Before September 30, 2014	After September 30, 2014	
Workshop 1 (Full Day)	\$50	\$75	\$ _____
Workshop 2 (Full Day)	\$50	\$75	\$ _____
Workshop 3 (Morning)	\$35	\$50	\$ _____
Workshop 4 (Afternoon)	\$35	\$50	\$ _____
Workshop 5 (Afternoon)	\$35	\$50	\$ _____
Workshop 6 (Afternoon)	\$35	\$50	\$ _____
Workshop 3 & 4 (Morning & Afternoon)	\$50	\$75	\$ _____
Workshop 3 & 5 (Morning & Afternoon)	\$50	\$75	\$ _____

Name of Guest (if applicable) _____

☐ **Bankwire** (bankwire transfer information will be sent via email to you upon receipt of this form)

☐ **Check/Money Order** – Make checks payable to in US Dollars (\$) Only: **MicroTAS 2014 Conference**

☐ **Credit Card Payment** (circle one): VISA MasterCard American Express

Cardholder signature:

Country:

Phone: +1-619-232-9499
Fax: +1-619-232-0799
Email: info@microtas2014.org



Workshop 1 - Full-day

Title: Microfabrication via 3D Printing

Presenters:

[Dr. Michael Breadmore](#) - University of Tasmania, Australia

[Dr. Rosanne Guijt](#) - University of Tasmania, Australia

Target Audience: This workshop is aimed at students, postdocs, and faculty looking for an introduction to 3D printing and how it can be applied in their research.

Learning Objectives: Additive manufacturing techniques like 3D printing are seeing increasingly widespread use as the cost of these instruments has become more affordable. The ability to rapidly build and test new designs makes them particularly attractive as versatile microfabrication tools. This workshop will provide an introduction to 3D printing technologies and show how they can be used to construct microfluidic analytical systems. In addition to learning the basics of 3D printing, the workshop will provide attendees with a hands-on opportunity to create and print their own designs.

Workshop 2 - Full-day

Title: Paper-based Microfluidics

Presenter: [Dr. Charles S. Henry](#) - Colorado State University, USA

Target Audience: This workshop is aimed at students, postdocs, and faculty with interest in learning how to design paper-based microfluidic devices and assays.

Learning Objectives: Paper has long been used as a substrate for chemical measurements, starting from simple litmus paper and advancing to more elegant methods like lateral flow immunoassays. Interest in paper-based analytical devices (also referred to as Lab-on-Paper or Capillarity-Based Microfluidics) has grown exponentially owing to their ease of manufacturing and incredible versatility to perform increasingly sophisticated assays with minimal external power. Attendees of this workshop will gain a working knowledge of the fundamentals governing design of paper-based microfluidic systems, and have an opportunity to build and test their own functional lab-on-paper devices.

Workshop 3 - Half-day, Morning

Title: Diagnostics Technologies for Point of Care and Resource Limited Settings

Presenters:

[Dr. Aydogan Ozcan](#) - University of California at Los Angeles, USA

[Dr. Dino Di Carlo](#) - University of California at Los Angeles, USA

[Dr. David Erickson](#) - Cornell University, USA

Dr. Sandeep Kumar Vashist - IMTEK, University of Freiburg, GERMANY

[Dr. Rachel McKendry](#) - University College London, UK

Dr. Avi Rasooly - National Institutes of Health, USA

[Dr. Aman Russom](#) - KTH Royal Institute of Technology, SWEDEN

[Dr. Bruce Tromberg](#) - University of California at Irvine, USA

Target Audience: The workshop will be of interest to a wide range of R&D scientists and engineers, grad students/postdocs, medical doctors, decision makers, and product developers, active in microsystems technology and applications in diagnostics.

Learning Objectives: Whether in doctors' offices, at clinics, or out in the field, Point-of-Care (PoC) devices enable the fast and reliable identification of risks on a molecular level in an automated way. The microTAS community has played a key role in the emergence of these platforms into the mainstream where they serve an increasingly broad array of diagnostic needs. This workshop will provide attendees with an opportunity to learn about the latest progress in this rapidly growing field directly from an interdisciplinary panel of presenters who have been actively leading their development.

Workshop 4 - Half-day, Afternoon

Title: Inertial Microfluidics

Presenter: [Dr. Dino Di Carlo](#) - University of California at Los Angeles

Target Audience: This workshop is aimed at students, postdocs, and faculty with interest in gaining a deeper understanding of inertial microfluidic phenomena and how they can be applied.

Learning Objectives: Inertial phenomena in microfluidic systems are of interest due to their unique ability to enable important operations like separations and mixing. But the underlying physics are surprisingly complex despite the fact that laminar flow conditions prevail. This workshop seeks to de-mystify inertial microfluidic phenomena using a combination of live demos and an open-source computational tool. Attendees will come away with a foundation to understand inertial phenomena and how they can be exploited in new and useful ways.

Special Requirements: Each attendee should bring their own laptop to run the μ Flow design software. Please see www.biomicrofluidics.com/software.php for more information on software platforms that support full μ Flow functionality.

Workshop 5 - Half-day, Afternoon

Title: Simulating Microfluidic Phenomena with STAR-CCM+

Presenters:

[Dr. Ravindra Aglave](#) - CD-adapco

[Dr. Victor M. Ugaz](#) - Texas A&M University, USA

Target Audience: This workshop is aimed at students, postdocs, and faculty with interest in simulating complex microfluidic phenomena.

Learning Objectives: This workshop will introduce attendees to STAR-CCM+, a powerful computational platform for simulation of complex microfluidic phenomena. Examples of advanced capabilities include simulation of 3D phenomena, coupled chemical reactions with spatially-dependent kinetics, and multiphase flows pertinent to separation applications. Upon completing the workshop, students will gain a working knowledge of STAR-CCM+ (www.cd-adapco.com/products/star-ccm®) and learn how its capabilities can be applied in the context of their own research.

Workshop 6 – Half-Day, Afternoon

Title: Diagnostics at the Point of Care: From Sample-to-Answer Empowered by Centrifugal Microfluidics

Presenters (tentative):

Mark Keller – HSG-IMIT, GERMANY

Daniel Mark – HSG-IMIT, GERMANY

Felix von Stetten – HSG-IMIT, GERMANY

Roland Zengerle – HSG-IMIT, GERMANY

Target Audience: The workshop addresses R&D scientists and engineers, medical doctors, decision makers, assay providers and product developers at universities and companies that are or want to become active in point-of-care diagnostics.

Learning Objectives: Microfluidics enables miniaturization, integration, automation and massive parallelization of biochemical and/or biomolecular assays. However, the implementation of integrated tests, from sample to answer can be an expensive, long-term and high-risk project. Therefore, the use of microfluidic platforms offering validated building blocks is mandatory.

In this course we present how to implement all necessary building blocks such as reagent storage & release, sample & liquid transport, metering, mixing, extraction, amplification, detection etc. by using centrifugal microfluidics. We show various integrated assay implementations such as infectious disease testing or controlling the quality of drinking water. The workshop ends with discussing challenges and solutions for the scale-up of chip fabrication.