

ULTRAPURE WATER®

-Micro 2010 Phoenix, AZ

**Technical Conference on
High-Purity Water Treatment**
November 16-17, 2010
Hilton Hotel--Mesa (Phoenix)

EXECUTIVE FORUM

Technical Papers on State-of-the-art Technologies

TABLETOP DISPLAYS

Displays by leading suppliers of water treatment equipment

For latest information on conference, visit
www.ultrapurewater.com

EXECUTIVE FORUM

Semiconductor Water Treatment Technology Developments Technical Program

Tuesday, Nov. 16

Session 1: Semiconductor Water Treatment Enabling Technologies

Session Moderators: Andreas Neuber, Ph.D., *Applied Materials*; and Rich Riley, *Intel*

9:00 AM—Session Introduction

9:15 AM— ITRS Update

Jeff Chapman, *IBM*

9:45 AM— Development of Guide for Ultrapure Water Used in Semiconductor Processing

Slava Libman, Ph.D., *M+W U.S., Inc.*; Marty Burkhart, *Hi Pure Tech Inc.*

10:30 AM— Particle Control in UPW Through the Use of Filtration Validated for Removal Performance

Barry Gotlinsky, Ph.D., Vivien Krygier, Ph.D., and Glenn Dado, *Pall Corp.*

11:00 AM— The Future of Cost-Effective UHPW Processing Awaits in the Measurements of the Past

John Morgan, *H2Morgan*; Charlotte Hill and Gert Burkhardt, *Georg Fischer Signet*

11:30 AM— Next Generation of UPW Distribution System for the Next Generation of Semiconductor Fabs

Slava Libman, Ph.D., *M+W U.S. Inc.*; Dave Buesser, *Plant Engineering Consultant*, and Brandon Ekberg, *M+W U.S. Inc.*

Noon-1:30 PM—Lunch Break

Session 2: Semiconductor Water System Improvements

Session Moderators: Rich Riley, *Intel*; and Slava Libman, Ph.D., *M+W U.S. Inc.*

1:30 PM— Modular Design Approach for UPW Supply Utilizing the High-Efficiency RO Process

Bill McClain and Michael Holland, *GE Power and Water, Water & Process Technologies*

2:00 PM— Material Selection in Heat Exchangers for Hot UPW Applications

Michael Pischke, Scot Seifert, and Paul Hagen, *Alfa Laval Inc.*

2:30 PM— Thermoplastic Welder Qualification Standards

Ted Hutton, *Arkema Inc.*

3:15 PM— RO Performance Modeling and System Dashboarding for a Multi-Stage RO System

Lindsey Stahl, *IBM*

3:45-5:00 PM—ITRS Roundtable Discussion

5:00-6:30 PM—Reception in Exhibits Area

Wednesday, Nov. 17

Session 3: Metrology and Data Processing Improvements

Session Moderators: Slava Libman, Ph.D., *M+W U.S. Inc.*; and Rich Riley, *Intel*

9:00 AM— Semiconductor Industry Market Trends

Mike Henley, *ULTRAPURE WATER*

9:30 AM— TOC Measurement Standards and the Impact of Nano/Microfabrication

Tim Miller, *Purdue University*

10:15 AM— Innovative Presentation Techniques for Process Quality Data and Data Quality of UPW Water Systems

John Morgan, *H2Morgan*; Greg Carr, *TBD*; Robert McIntosh, *Solar World*

10:45 AM— Technical Concept, Specifications and Limitations of an On-line Trace Sodium Analyzer

Markus Bernasconi, *SWAN Analytische Instrumente AG*

11:15 AM— Verifying the Calibration of Optical Particle Counters below 100nm

David Blackford, *Fluid Measurement Technologies, Inc.*; and Gary Van Schooneveld and Don Grant, *CT Associates, Inc.*

11:45 AM-1:00 PM—Lunch Break in Exhibits Area

Session 4: Wastewater Reclamation, Reuse, Water Conservation

Session Moderators: Andreas Neuber, Ph.D., *Applied Materials*; and Slava Libman, Ph.D., *M+W U.S. Inc.*

1:00 PM— Use of Modeling in Predicting Impurity Removal and System Behavior in EDI for Process Applications

Azita Yazdani and José Chavez, *Exergy Technologies Corp.*

1:30 PM—Trace Contaminant Removal from Wastewater via an Adsorption Process

James J. Pardini PE, CPE, *MEL Chemicals, Inc.*

2:00 PM— Integrating the Cooling Tower into a Fab's Water Conservation Strategy

Barry Carroll, Brian Jenkins, and John Schellerberg, *Nalco Co.*

2:30 PM— Reclamation of Copper-CMP Wastewater

David Hubler, James C. Baygents, and James Farrell, *University of Arizona*

For program updates, visit
www.ultrapurewater.com

TABLETOP DISPLAYS

Displays by leading suppliers of water treatment equipment to the microelectronics industry will provide conference attendees with ample opportunity to obtain information on a wide variety of products and services. Attendance to exhibits is free to all conference registrants. The reception on Tuesday evening will be held in the exhibit area. **EXHIBIT HOURS: Tuesday: 1:00PM-7:00PM; Wednesday: 10:00AM-3:00PM.**

2009 Exhibitors

● AHLSTROM FILTRATION INC. ● ASAH I AMERICA INC. ● CHRIST WATER TECHNOLOGY ● CONSOLIDATED WATER SOLUTIONS ● GENESYS NORTH AMERICA ● HCT CO., LTD. ● HYDRANAUTICS ● OZONE SYSTEMS & TECHNOLOGY ● SIEMENS WATER TECHNOLOGIES ● SWAN ANALYTICAL INSTRUMENTS ● THE PUROLITE COMPANY

ULTRAPURE WATER®

-2010

Phoenix, Arizona
November 16-17, 2010
Hilton Hotel-Mesa (Phoenix)
Hotel reservations: 480-833-5555, or 800-HILTONS
For special rates mention *Ultrapure Water Conference*
Please **DO NOT** Fax this form to the hotel

EXECUTIVE FORUM

**Microelectronic Industry Water Treatment
Technology and Business Developments**

- 2-day Exec Forum Registration \$520
- Tuesday Exec Forum \$300
- Wednesday Exec Forum \$300

Name _____
 Company _____
 Street _____
 City _____
 State _____ Zip _____ Country _____
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EXHIBITS

Tuesday: 1:00PM-7:00PM; Wednesday: 10:00AM-3:00PM;
Free for all Executive Forum Registrants and Guests

<p>Now... Register Online at:</p> <p>www.ultrapurewater.com/Zencart</p>	<p>Special Offers</p> <p><input type="checkbox"/> <i>Electronics Grade Water Preparation</i> by Avijit Dey, Ph.D., and Gareth Thomas, 973 pages hard cover. \$115. Regular price \$150.</p> <p><input type="checkbox"/> <i>Optimizing a High-Purity Water System</i> by Paul Tan, 281 pages, hard cover. \$50. Regular price \$60.</p> <p>Books ordered by November 10 will be delivered to conference for pick-up. Books ordered after this date will be delivered by UPS. Shipping charges will apply</p>
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PAYMENT

- P.O. # _____ PAID by Check # _____

Note: All purchase orders must be paid by conference date.

- Charge my card (VISA, MASTERCARD, AMEX)

Note: Your card will be processed a few days before conference date. **Your statement will show a charge by Tall Oaks Publishing.**

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How to Register

REGISTRATION INFORMATION

Use the registration form in this brochure. Please photocopy the form for additional registrations. To save time, simply fax your completed form to the number below. Please do not register by phone. *We cannot charge your credit card without your written permission to do so.*

Phone/Fax: 303-973-6700

Mail: Tall Oaks Publishing Inc.
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Littleton, CO 80127

Checks: Payment must be made in U.S. dollars, drawn on a U.S. bank. *Please make checks out to Tall Oaks Publishing, Inc.*

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HOTEL LOCATION

All ULTRAPURE WATER--Micro activities are held at the Hilton Hotel, Mesa (Phoenix). For your convenience, we recommend that you stay at this hotel for the duration of the conference. The Hilton is located at 1011 West Holmes Avenue Mesa, Arizona, USA, 85210. Phone: 1-480-833-5555, just 3.00 miles from city center.



Getting To And From The Airport:

Driving Directions From The Phoenix Airport: From the Sky Harbor International Airport, proceed to Loop 202 (East Valley). Travel approximately 7 miles east on the 202 to Loop 101 South. Proceed approximately 4 miles south on the 101 to Exit 55A (Superstition Freeway, US 60 East/Globe). Take U.S. Highway 60 East and proceed 1.5 miles to the Alma School exit. Turn left onto Alma School Road. Turn right at the second stoplight onto Holmes Avenue. The hotel entrance is on your right.

Complimentary Shuttle service is available from the Phoenix airport. Please visit: www.ultapurewater.com for details. The hotel also provides free internet access for all conference registrants staying at the hotel.

Super Shuttle: Typical minimum charge is \$15.

Taxi: Typical minimum charge is \$30.

ROOM RATES

☐ Single or Double-\$149. (All rates subject to additional city taxes.) When making hotel reservations, it is important that you mention the ULTRAPURE WATER Conference. These special rates, as well as a block of rooms, are guaranteed only through October 21, 2010. Don't miss out — phone in your reservations today at 480-833-5555, or 800-HILTONS. Refer to Tall Oaks Publishing, or Ultrapure Water in order to obtain this special rate. Or, visit: www.hiltonphoenixeast.com and use UWJ as the conference code.

ON-SITE REGISTRATION

You may register for the Executive Forum at the Conference. However, we encourage you to register in advance to save time and to insure your seat availability. In order to insure registration, we recommend you register early and pay by the conference date.

CONFIRMATION

Registrations will be confirmed only by email. You must be registered for admission to any session. Pre-registered attendees must pick up their badges at the Registration Desk at the conference. **Badges will not be mailed.** Please pick up your badges at least 30 minutes before the start of your session.

CANCELLATIONS/REFUNDS

Refunds cannot be granted on cancellations received after November 13, 2010. Cancellations prior to this date are allowed without penalty. There will be a \$30 processing fee on all refunds by check or credit card. If you need to change your plans to attend you may transfer your registration to another person at any time without incurring any penalty.

PHOTO RELEASE

We occasionally use photographs of show participants in our promotional material. By virtue of your attendance, you automatically agree to usage of your likeness in such material.

UNAUTHORIZED EVENTS

Unauthorized exhibitions, seminars, conferences or other functions held at or in close proximity to and during the ULTRAPURE WATER--Micro conference that could detract from, conflict, or interfere with ULTRAPURE WATER--Micro, are strictly prohibited.