

IFPAC 2003: Wed PM-II Session

January 22, 2003  
Scottsdale, AZ

**"NeSSI: A Sampling Platform for  
Micro Physical  
and  
Micro Analytical Sensors"**

Session Chair: Peter van Vuuren

ExxonMobil Chemical Company  
Engineering  
Baytown, Texas

## AGENDA

# "NeSSI: A Sampling Platform for Micro Physical and Micro Analytical Sensors"

Announcement: NeSSI Special Session

- 1:10** NeSSI: The Good, the Bad and the Ugly - Early Implementations and Directions  
Rob Dubois - Dow Chemical Canada Inc., Fort Saskatchewan, AB, Canada;  
John Cumbus, ExxonMobil Chemical
- 1:35** NeSSI Generation I - A Solid Foundation  
Douglas A. Nordstrom, David M. Simko, John J. Wawrowski,  
Swagelok Co., Solon, Ohio
- 2:00** Between SAM and the Substrate - A Smart Valve for NeSSI  
Richard A. Ales, David M. Simko, Swagelok Co., Ohio
- 2:25** Networked Sampling System (NeSSI-Generation II) Development and Field Test  
J.Mosher, R.Nickels and U.Bonne, Honeywell International - ACS
- 2:50 - 4:00 :** *Break - Allow attendees to participate in the Grand Opening of the Exhibition*

## AGENDA (cnt'd)

### "NeSSI: A Sampling Platform for Micro Physical and Micro Analytical Sensors"

- 4:00** Microelectromechanical Systems for Process Analytics  
Berthold Andres, ABB Automation Products, Germany
- 4:25** PHASED, a Faster, Smarter and More Affordable Gas Analysis Device - Update  
U.Bonne, J.Detry, R.Higashi, K.Newstrom-Peitso, H.Pham, T.Rezacheck and S.Swanson Honeywell Labs, Plymouth, MN
- 4:50** Low Water levels in various solvents: on-line monitoring by a Miniature MIR Spectrometer  
Joseph P Sung and Jim Tatum, Rohm & Haas, Houston, TX, Yael Barshad and Yoav Barshad, Applied Analytics, Inc., Chestnut Hill, MA
- 5:15** Computational Fluid Dynamic(CFD) Analysis of Gas and Liquid Flow Through a Modular Sample System  
Tanios Y. Bougebrayel, John J. Wawrowski, Swagelok Co., Solon, Ohio
- 5:40** Surface Mount Technology Update - 2003  
Steve Doe, Parker Hannifin Corp., Jacksonville, AL
- 6:05** Adjourn

## Summary/Acknowledgments

- **All our Speakers and Co-authors - THANK YOU!**
- **CPAC - for their support in sponsoring the NeSSI initiatives**
- **Papers will be published on the CPAC NeSSI Website**

### **Ad-hoc NeSSI Session: Tomorrow (Thursday) Night at 5:00 PM**

Room 1A

#### Topics:

- \* how can NeSSI expose and promote the new generation micro-analytical sensors to the PA community (PAC)
- \* how to provide guidance form the PAC in terms of needs
- \* coordinate/facilitate new funding mechanisms for commercialization
- \* is there a role for a an Industry Group to perform the above roles
- \* DoE Proposal Feedback/Invitation to Participate

- **Until IFPAC 2004, may the force be with you - see you then**