

**Interfacial and Processing Sciences
News Notes**

June 30 1999

**Environmental and Molecular Sciences Laboratory
Pacific Northwest National Laboratory**

News Notes, established to help keep our Users and others who have had a connection with us up-to-date on activities, events, capabilities, and interesting results, including short summaries of the work of users.

If you receive this message directly, you are on our external mailing address list. If you want to receive the Notes, you need to do nothing. If you would like to be removed from the list, please respond by email to terry.law@pnl.gov. If this message has been forwarded to you, please contact Terry if you want to be added to the email list.

This issue includes:

- **Welcome to Many Summer Student and Visitors**
- **Increased Summer Activity Emphasizes Need for Equipment Users to Plan Ahead**
- **Recent Research Award**
- **Help Us Improve EMSL Access**
- **Users Meeting and Surface Tools tutorial reminder**

I&PS Welcomes Summer Visitors Including 31 Students

Summer is a delightfully busy time for I&PS. Our summer population of temporary staff and visitors can double our normal "staff" populations. The following partial list of summer users and students shows the diversity of locations and institutions currently involved with I&PS.

Thomas Hurt, *Cornell University*
David LaMont, Clyde Washington, and Kim Priest, *Washington State University*
Janet Chuang and Mursalin Anis, *University of California, Berkeley*
Eric Hill, *Columbia Basin College (Washington)*
Chrysoula Tzemos and Amy Arbeit, *University of Washington*
Ryan Boger, *University of Notre Dame*
Jackson Davis, *Walla Walla Community College (Washington)*
Bob Rozmiarek, *Iowa State University*
Tom Moretto, *University of Iowa*
Amanda Hedges, *Eastern Oregon University*
Rachel Sager, *Pima Community College (Arizona)*
Monesh Kapadia, *Tulane University*
Kim Priest, *Washington State University*
Charles Shawley, *Pomeroy High School/Whitworth College*
Brian Palmer, faculty member, *Hanford High School*
Chad Cooper, *Yakima Valley Community College (Washington)*

Summer Schedule Issues (Some instruments on Outlook calendar)

The large number of visitors and users in the summer, as well as a busy staff conference and vacation schedule, stresses the need for us to schedule specific time on our instruments, to the extent possible, for Users. Although we will be able to fit in some unexpected or unpredicted "short" time use, we need Users to let the instrument operators know their equipment needs as far ahead as possible. It is important for you to confirm that both the

operators and the instruments are available during your planned visit to EMSL. Please keep in mind that all instruments must be included in your schedule. In the past, we have run into difficulty when Users have scheduled the primary instrument only, and secondary "critical" instruments or operators are not available. Please plan ahead and if there is any uncertainty, call ahead. If you don't know the proper person to contact about an instrument, call Terry Law or Don Baer.

The major surface and interface analysis instruments (Quantum 2000 XPS, 680 Auger, Multi-technique (Kratos Axis) and TOF-SIMS) now have schedules available on Outlook. These can be found in the public folder area of Outlook. Link down the folder list as follows: All public folders/Battelle Pacific Northwest/EMSL/Interfacial and Processing Science/Instrument.

Evaluation of access to EMSL

We're in the process of evaluating our user services-those which help get the user, visitor or student in the door and ready to work. If there are any special concerns which you would be willing to share with us, please send an email to Terry Law (terry.law@pnl.gov).

EMSL Scientist and Engineers win R&D 100 Award

A research and development team, including I&PS's A. Lee Tonkovich, Gary Roberts, Yong Wang, Jennifer Marco and Sean Fitzgerald, were recognized for their development of the Compact Microchannel Fuel Vaporizer. Other team members from PNNL consisted of Michael R. Powell, Robert S. Wegeng, Peter M. Martin, Donald C. Stewart, and Dean W. Matson.

Users Meeting Symposia and Tutorial on Surface Analysis Methods - Reminder

Registration forms and other information about the Users Meeting and a range of tutorials are available on the EMSL web page <http://www.emsl.pnl.gov>. There is no charge for attending any of the tutorials, but a fee to cover breaks and meals associated with the symposia is being charged.

The one-day tutorial on Surface Analysis Methods is scheduled for **July 22, 1999**. This tutorial is being scheduled in conjunction with the Environmental Molecular Sciences Laboratory (EMSL) Users Meeting on **July 21 - 24, 1999**. I&PS has organized the Mini-Symposium on the **Physics and Chemistry of Oxide Surfaces**. Other symposia include a) **Environmental Chemistry and Transport**; b) **Computational Science: New Advances and Recent Applications**; and c) **Structural and Functional Proteomics**. The combined tutorial and Users Meeting provides an excellent way to learn about EMSL capabilities and to see some of the research being conducted.

For more information, contact Terry Law (509/376-2418), Don Baer (don.baer@pnl.gov; 509/376-1609), or see the EMSL web page.

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