

The Particle Society of Minnesota Newsletter

Vol.1, No.4

November, 2002

A Note from the President.

The Particle Society celebrated its fourth year with our annual Fall Program in October. This year's Program, focusing on particle science in the fields of microelectronics and semiconductors, was a great success, technically and socially.

Now it's off to next year. We are planning our activities for the coming year, but we need a critical component--you, the members. We have a number of great ideas for lunch time talks and Fall Program topics, but we'd rather hear from the membership. **Please take a minute to fill out and return the short survey, located at the end of this newsletter.** With this survey, we hope to continue to provide programs that are valuable to our membership. Thanks for your continued support.

Jim Marti, President of the Particle Society

You can always get up-to-date information on Particle Society activities at our web site, www.particlesociety.org. If you no longer wish to get PSM notices, please see the end of this newsletter for instructions on removing your name from our list.

In this issue

-The Fourth Annual Fall Program
-Upcoming seminars
-Planning for 2003--return the Survey!

THE 2002 ANNUAL FALL PROGRAM: Focus on the Semiconductor Industry

The Particle Society of Minnesota held its fourth annual meeting on October 9 at the Radisson Hotel South in Bloomington. The program featured seven presentations on particle technology related to the semiconductor and microelectronics industries. The speakers included

Mark Litchy, of C.T. Associates Inc, who presented the results of a comparison of different particle detectors to monitor the condition of CMP slurries;

Juergen H. Scherer, of Evans PHI, describing applications of Auger electron spectroscopy for detecting particulate defects in semiconductor materials;

Eric Funkenbusch, of the 3M Super Abrasives and Microfinishing Systems Division,

speaking on the use of high performance abrasive particles for demanding electronic/semiconductor applications;

Chuck Lockhart, of Particle Measuring Systems, Inc, who presented two talks in one. He first addressed the use of statistics in selecting and using particle counters, then presented results from recent work in “mini-environment” (i.e., fabrication environment) monitoring;

William Puskas, Blackstone-Ney Ultrasonics, who explained the pitfalls in using ultrasonics for removing surface contaminant particles, and how to overcome them; and

Kathleen Gross, 3M Company Electronic Adhesives and Specialties, who presented recent advances in specialty adhesives used for microelectronics applications.

The keynote speaker was **Prof. Stephen Campbell**, of the University of Minnesota’s Electrical and Computer Engineering department. He gave a review of particle-related work in microelectronics, and described cutting edge work in nanoparticle synthesis and deposition.

The Particle Society warmly thanks all of our 2002 Fall Program Speakers for contributing to a very successful program. In particular, we thank Mark Litchy and Kathleen Gross, who were called upon to present at relatively short notice.

UPCOMING PARTICLE SCIENCE/ENGINEERING SEMINARS

The following information was supplied by Microtrac Inc., and is being passed on to PSM members. The Particle Society does not endorse any instrument or equipment vendors.

The 2002 Microtrac Seminar will arrive in the Twin Cities area on December 9. Dr. Philip Plantz, Microtrac Applications Manager, will address

- Why light can be used to measure particles in the range 0.003 to 3000 microns
- Mie scattering, refractive index, and graphical manipulations
- Applications of light scattering
- Advanced particle size software capabilities.

The seminar will be held from 9:00 AM to 1:00 PM; breakfast will be provided. For location and more information, contact Jay Schild at 727507-9770 or 888-643-5880 Ext 13. The Microtrac website is www.Microtrac.com.

The Survey

THE PARTICLE SOCIETY IN 2003 SEND IN YOUR VOTE!!!

Allright...now's the time for feedback. Please look over this SHORT survey and reply by return email.

A. PROGRAM PREFERENCES: On a scale of 1 (low) to 10 (high), please indicate how likely you are to attend

___ a one hour lunch seminar with one speaker

___ an all-day program with 5-7 speakers with lunch

___ a half-day program with 3-4 speakers (no lunch)

B. PROGRAMS TOPICS: On a scale of 1 (low) to 10 (high), please indicate your interest in attending programs on these topics:

Processes

___ Grinding, milling

___ Classification

___ Powder Conveying and Handling

___ Spray Drying

___ Other (please list)

Measurement

___ Particle Sizing: Instruments

___ Particle Sizing: Theory and Fundamentals

___ Other (please list)

Systems

___ Granular materials

___ Powders

___ Aerosols

___ Colloids, suspensions

___ Droplets, sprays

___ Other (please list)

Applications/Industries

___ Food

___ Consumer goods

___ Electronics

___ BioMedical

___ Commodity

___ General Chemical

___ General Industrial

___ Other (please list)