

## **SiWEDS Spring Review Meeting, March 19 and 20, 1998**

Our next SiWEDS meeting will be held at North Carolina State University (NCSU) on March 19 and 20, 1998.

We will start with a continental breakfast on Thursday (March 19), and finish Friday by 3.00 pm.

Please make your flight and housing arrangements. The airport is RDU (Raleigh-Durham), and it will take less than 30 minutes from the airport to the hotel/campus.

I have made reservations at the Velvet Cloak Inn hotel, which is a few minutes walk from the campus. The hotel can be reached from the airport by hotel shuttle bus for which you have to make your arrangements at the time of hotel reservation, by providing them your flight arrival details. The room rate is \$75/night single or double occupancy. Breakfast is not included.

Please make your reservations directly with the hotel and refer to the SiWEDS meeting to insure the \$75 rate.

**RESERVATION DEADLINE AT THIS RATE IS MARCH 2<sup>nd</sup>!**

Toll free: (800) 662-8829 (inside North Carolina)  
(800) 334-4372 (outside North Carolina)  
Phone: (919) 828-0333 (outside the US)  
Fax: (919) 828-2656

A meeting agenda will be sent after we solicit inputs.

Please acknowledge with a short response to me (rozgonyi@ncsu.edu) or Rene Gielen (rene\_gielen@ncsu.edu) and a statement whether you plan to attend, and with how many people from your organization. Info on speakers, titles of presentations and any other items you would like to have covered during the meeting, are much appreciated.

Looking forward to see you all at NCSU,

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## **SiWEDS March 1998 Program**

NCSU Centennial Campus/ABB (ASEA/Brown Boveri) Bld.

## Thursday, March 19

- 7:45 a.m. Rendezvous in Velvet Cloak Hotel lobby for car-pooling to NCSU Centennial Campus. Meeting will be held in ABB (ASEA/Brown Boveri) Bld., 2<sup>nd</sup> floor conference room. Open-air parking deck, ABB Visitors Lot. A parking sticker is required. They will be distributed in the lobby of the Velvet Clark. NCSU students will provide ride until 8:15 a.m. for those without a car.
- 8:00 Continental breakfast at ABB, 2<sup>nd</sup> floor conference room.
- 8:30 Welcome: George Rozgonyi
- Introduction of new participants
  - Update of NSF SiWEDS I/U CRC organizational structure
  - Review of agenda items to be considered during breakout sessions  
\*\*\* add your special interest .\*\*\*
- 9:00 Gettering Issues Overview: Kim Kimerling, Moderator  
Industry Perspective by Sergei Kovesnikov/SEH-A, including
- “Epitaxial Wafer Gettering via MeV Ion Implantation: Segregation vs. Relaxation Modes”, plus student poster preview (5 minutes) by Kevin Beaman/NCSU
  - “Lateral Gettering on Bulk and SOI Wafers”
- 9:30 UC-Berkeley Overview: Andrei Istratov, including
- “Interstitial Diffusion Coefficient for Cu in Si”, and student poster preview (5 minutes) by Henry Hieslmair
  - “Predictive Simulations of Relaxation & Segregation of Iron in Silicon”
- 10:00 MIT Overview (Bulk Issues): Kim Kimerling, including
- “Gettering Simulator” by Aimee Smith, and poster preview on
  - “Point Defect Reactions in Si”
- 10:30 Coffee Break and Poster Viewing
- 10:50 Breakout Session I  
Industry Members in Conference Room,  
Professors in Room \_\_\_\_
- 12:15 p.m. Lunch in Conference Room with Poster Discussions  
Informal tour of the NCSU Centennial Campus and EGRC --  
Engineering Graduate Research Center
- 1:30 Crystal Growth Defect Issues: George Rozgonyi, Moderator

Industry Perspectives on:

- “Approaches to Achieving Defect-free Si Wafers”, by Masakazu Sano/SiTIX, and
  - “Voids and Dislocations in CZ Crystals”, by Wataru Ohashi/Nippon Steel, plus student poster preview (5 minutes)
  - “Characterization of Radial Defect Distribution in Multi-Ring CZ Wafers”, by Ki-Man Bae/NCSU-PHC
- 2:15
- “Sematech/NCSU TEM Evaluation of 300 mm Wafers”, by Toshiaki Ono/NCSU-SiTIX
- 2:30
- Metrology Issues Overview: Dieter Schroder, Moderator
- “Generation Lifetime Characterization of Thin-film Layers”, by Sang-Yun Lee
- 3.00
- Arizona Overview presented by Skip Parks
- “Wafer Shipping and Oxide Degradation Issues” poster preview by Harry Kirk/NCSU
  - “MOS/EBIC Contrast Mechanisms”,
- 3:30
- Coffee Break
- 3:40
- Breakout Session II
- 5:00
- I/U Feedback Session
- 5:30
- Carpool to Velvet Cloak Hotel
- 6:30
- Rendezvous in Hotel lobby for  
Carpool to Rozgonyi home in Oakwood Historic District  
400 North Person St. @corner of Oakwood Av.  
Wine and Buffet Dinner

**Friday, March 20**

- 8:00 a.m.
- Continental Breakfast
- 8:30
- Surface Issues Overview: Larry Shive, Moderator, will speak on:
- "Surface Chemistry and Wafer Diagnostics"
- 9:00
- Stanford Overview presented by Ron Chiarello

- “Rinse Optimization for Reduction of UPW Consumption During Manufacturing”, plus poster preview on
  - “Al-Contamination Effects on Oxide Growth”
- 9:30
- “Detection of Cu Contamination Using SPV Diffusion Length Analysis” by Worth Henley,
- 10:00
- MIT Overview (Surface Issues)
- “Determinants of Si Wafer Surface Quality” by Jurgen Michel/MIT
- 10:30
- Coffee Break and poster viewing
- 10:45
- Breakout Session III
- 12:15 p.m.
- Lunch and Poster Viewing
- 1:15
- I/U Feedback Session and Open Discussion
- 2:30
- New Business:
- NSF University Partner/Affiliate Centers
  - Industry Associate Membership Options
  - Chemical Companies
  - Measurement Companies
- 3:30
- Adjourn
- Ad hoc meetings, visits to NCSU Campus facilities