MATH, SCIENCE & SOCIAL SCIENCE DIVISION

Meeting Minutes

Nanotechnology Technical Advisory Committee
Friday, June 17th, 2011
3:30 – 4:45 PM
ED 2843A (NSCC campus)
North Seattle Community College

MEMBERS PRESENT

Chad Goodwin, EnerG2/NSCC
Dan Graham, University of Washington
Mark Helsel, Microvision
Janelle Leger, Western Washington University
Sarah McQuaide, University of Washington / Silicon Designs
Kathleen Stamm, KMS Designs, LLC
Shaun Taylor, CMDITR - University of Washington

NSCC MEMBERS PRESENT

Alissa Agnello
Maureen Devery
Chris Sanders

I. Introductions

- The meeting was called to order at 3:40 PM. Each person introduced themselves and company/college/university they represented.

II. Approval of Minutes (Graham)

- Minutes of Winter Quarter meeting held on March 7th, 2011.
- Minutes were approved as written.

III. Updates from NSCC Nanotechnology Program (Agnello)

- Current enrollments
  - 32 students enrolled for two offerings of Nano 101 this year.
  - Goal is to have 90 students enrolled over the three year grant period.
  - Currently have 5 students enrolled for Fall 2011 (start date: 9/26/11).

- Six students have finished their internships and are ready to graduate.
    - Most of the students looking for work have gained employment in the industry.
- Micro/Nanotech Meeting – NSF ATE centers
    - Maureen and Alissa traveled to Albuquerque, New Mexico for the first annual Micro/Nanotech Meeting of the ATE centers.
    - Next NSF application process is coming up this fall which if accepted will have a start date of August 2012.
        - The hope is to broaden the current project grant to a regional center grant.
        - SHINE will be looking to the TAC for input.
    - Discussion on high school education and the resources they have available in the field of material science and nanotechnology.
        - State high school STEM standards are evolving.
- Changes in UW Nanotech centers
    - Discussion about the changes that are happening at the UW Nanotech centers.
        - Fluke hall has been taken over by the College of Engineering which will cause some changes (effective date: 7/1/11).
        - Good relationship should hopefully continue with the WTC and the Nanotech user facility.
        - Karl Bohringer was suggested as a good contact regarding nanotech at UW changes.
        - More information to come.

IV. <u>SHINE Updates</u> (Devery)

- Outreach Numbers
    - Goal for the 3 year grant is to provide outreach to 1080 people.
    - In the first year and a half SHINE has already reached out to over 1200 students in the classroom and over 5600 people throughout the community.
- Summer Workshop
    - This year's workshop will be held in Salem Oregon at Chemeketa Community College on August 3-5, 2011.
        - 15 people currently enrolled, with a goal of 25 people.
    - The following year's site will be in eastern Washington.

V. <u>State of the Industry</u> (Agnello)

- Any news to report on your company?
    - EnerG2
        - Starting to build new facility in Albany, Oregon.
        - Will be looking to hire machine operators this fall.
        - Always on the lookout for good interns.
        - Material science, electronics, and hands-on lab experience are strongly recommended.
        - Received new funding for battery research.
            - Test results look promising.
            - Will be looking for chemistry interns as that unfolds.
    - Microvision
        - Foresee minimal growth this next year.

- Silicon Designs
  - Just closed on a new building which will increase their space by 6 times.
  - Will be moving from Issaquah to Kirkland.
  - Jobs should be becoming coming available everywhere from assembly to engineering.
- Correspondence via email
  - Len (Honeywell) - *Regarding the state of the industry, Honeywell in Redmond in continuing to hire (through a contract service) at the 'assembler' level; however, sometimes these positions lead to technician-level work (i.e. operating and managing metal deposition processes or testing) and permanent employee status.*

VI. Adjournment (Graham)

- Students will be arriving for graduation reception
- Meeting was adjourned at 4:45 PM