MATH, SCIENCE & SOCIAL SCIENCE DIVISION

Meeting Minutes

Nanotechnology TAC Meeting
Monday, November 14th, 2011
3:30 – 4:45 PM
Club Room, North Seattle Community College

MEMBERS PRESENT

April Wilkinson, CMDITR - University of Washington
Shaun Taylor, CMDITR - University of Washington
Kathleen Stamm, KMS Designs, LLC
Kai-Mei Fu, Electrical Engineering Dept. University of Washington
Len McNally, Honeywell
Sarah McQuaide, University of Washington / Silicon Designs

NSCC MEMBERS PRESENT

Alissa Agnello
Brian Rucci
Chris Sanders
Laura Chen
Maureen Devery

I. <u>Introductions</u>

- The meeting was called to order at 3:30 PM. Each person introduced themselves and company/college/university they represented.

II. <u>Approval of Minutes</u> (McNally)

- Minutes of Spring Quarter meeting held on June 17th, 2011.
- Minutes were approved as written.

III. <u>Updates from NSCC Nanotechnology Program</u> (Agnello)

- Current enrollments

- Nano 101 Fall Quarter 2011: 16 students
  - Will offer again Spring Quarter
  - On track to hit annual target of 30 students
- NSF ATE PI meeting and Regional Center proposal
  - Alissa, Maureen, and Pete attended the Annual ATE PI Conference in Washington DC.
  - In 3rd year of a 3 year Project Grant; applied for a five year Regional Center Grant.
    - New grant would be doing what we are currently doing except scaling everything up.
    - Will be working with schools from Oregon, Idaho and Washington to help create a Nano 101 introductory course that would then feed into our program for their more advanced courses.
    - Thank you to everyone who submitted a letter of support. It is important to show that there is industry interest in our program and our technicians once they graduate out of our program.
  - The only other Regional Centers doing two-year nanotech education are in Pennsylvania, Upstate New York, and the Minnesota area (through NanoLink); Edmonds CC has a Materials Center.

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

- Summer workshop follow up
  - 2nd annual summer workshop at Chemeketa Community College in Salem, Oregon.
    - 23 teachers from high schools and community college, mostly from Oregon.
    - An alternative high school from southern Oregon, which has no lab facilities, will be coming to North Seattle CC for two days to work on labs and to attend our quarterly NanoLunch, as well as tour the NTUF and EnerG2.
- Conference summaries
  - SHINE presented at four different conferences in October
  - STEMtech Conference in Minneapolis Minnesota; Material Science Education Conference in Greensboro North Carolina; ATE PI Conference in Washington DC.
- Request for Bios for website (Agnello)
  - Will be updating TAC roster.

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

- What's happening in your industry?
  - Honeywell
    - Redmond site seeing record numbers in 2010 and 2011.
    - Hired over 60 people; Honeywell hires through temp agency.
    - Possible progression for nanotech graduates: operator, lead, shift lead, associate engineer.
    - Tuition reinforcement for employees wanting to go to school.
    - May possibly have SHINE come and do short presentation on the NSCC program.
  - Silicon Design
    - Purchased building in Kirkland and will be building new clean-room facility.
    - Will be looking to hire once the product is ready and construction is complete – probably a year out.

- 3 out of 6 Silicon Design employees came from Panasonic.

- CMDITR - University of Washington
  - Funding will end sometime in July with a 3 to 6 month extension.
  - Will be hosting a 10 week 3 campus summer workshop - *Hooked on Photonics.* Joint summer workshop with Arizona and Georgia Tech.
    - Students receive stipend, housing, meal allowance, and travel assistance from out of state.
  - Looking at 10% budget cuts.
  - Applied for two year TUES (Transforming Undergraduate Education in Science) NSF Grant
    - RET Research Experience for Teachers – will bring community college teachers to UW to create curriculum to bring back to their college.
- Micro Fabrication Facility (formerly NTUF/WTC)
  - Since transition a lot of new people coming through.
  - New director started two months ago and seems to be working out very well.
  - Now having weekly user meetings.
  - Future plan is to expand the facility into the current office space.
- NSCC Nano Program
  - Former nano student did internship with a company called RJC and is now working there fulltime.
  - Most of the equipment in the nano lab was either donated or bought used.
  - Will continue to work in UW clean-room.

VI. General Questions for TAC (McNally)

- SHINE applied for a Regional Center NSF Grant and will find out sometime next year if it was approved.
  - Proposed four years with a possible extension of up to three years.
  - If approved there would be a seamless transition from the old grant to the new.

VII. Adjournment (McNally)

- Meeting was adjourned at 4:45 PM