



**NORTH SEATTLE  
COLLEGE**  
*One of the Seattle Colleges*

**MATH & SCIENCE DIVISION**

**Meeting Minutes**

Nanotechnology TAC Meeting  
Thursday, June 9, 2016  
4:30 – 5:30 PM  
MoIES Building (1st floor conference room)  
University of Washington

---

**MEMBERS PRESENT**

Alicia Cohn, *KEON*  
Dan Ratner, *University of Washington – Bioengineering*  
Mark Helsel, *Microvision*  
Len McNally, *Honeywell – Committee Chair*  
Qiuming Yu, *University of Washington – Chemical Engineering*

**NSC MEMBERS PRESENT**

Alissa Agnello – *Virtual*  
Brian Rucci  
Hrudya Nair  
Jim Hyder  
Kristine Schroeder – *Virtual*

---

I. Introductions

- The meeting was called to order at 4:30 PM. Each person introduced themselves and company/college/university they represented

II. Approval of Minutes

- Reviewed minutes from the December 10, 2015 meeting
- Minutes were approved as written

### III. Updates from North Nanotech Program & SHINE

- Introduction: the new SHINE Industry Liaison
  - Jim Hyder started as SHINE's Industry Liaison on February 1, 2016. He is based in Rio Rancho, NM as works for 50% FTE for SHINE
  - Jim discussed the Industry Liaison's primary role and shared information on how he plans to be a direct conduit from SHINE to Industry and from Industry to SHINE.
  - Specifically, Jim's role/duties will include:
    - Adapts SHINE's "Industry-driven" priorities to pragmatic deliverables that benefit both SHINE and Industry (i.e. the prioritization of Internships is win-win-win for SHINE-Industry-Student Body/NSC)
    - Creates, establishes, and/or improves industry-oriented surveys and/or a comprehensive survey based on what SHINE already has
    - Seeks synergistic opportunities between Industry/SHINE (i.e. SBIR)
    - Helps frame future grant proposals via an Industry-driven perspective
- Current enrollments
  - NANO 101 (Spring 2016) – 20 students (16 actually attending)
  - NANO 101 (Fall 2016) – 8 students as of 6/9/16
  - MSC 101 (Fall 2016) – 13 students as of 6/9/16
  - 11 currently enrolled students graduating with AAS-T Nano Degree or Certificate by end of Summer 2016; 3 more students will complete by Fall 2016
  - 4 students earned Nano AAS-T or Certificate this Spring through Project Finish Line assistance
- Current internship placement
  - In the 2016 winter and summer quarters a total of 17 students were placed in internships (a slide was shared with each internship site)
  - Potential summer internships: Modumetal, ImTech, EnerG2, Lawrence Livermore National Laboratory
- Personnel Changes
  - Graciela Matrajt → Resigned Jan 2016
  - Kristine Schroeder → Interim SHINE Center Director

- Jim Hyder → Industry Liaison
- Brian Rucci → Program Manager
- NSC Nano Faculty 2015 – 2016
  - NANO 101: Alicia Cohn
  - NANO 220: Hrudya Nair (Lecture), Darby McShain (Lab)
  - MSC 101 and NANO 230: Kevin O'Malley
  - NANO 250: Kristine Schroeder

#### IV. Curriculum Review

- Articulation to the UW
  - About 50% of students want to go directly into the workforce while the other 50% want to transfer to a four-year degree
  - Beginning discussion of possibly changing the North Seattle College Nanotechnology Program from a professional technical program to a transfer degree
  - Committee expressed concern about SHINE changing its focus, which could potentially dilute down the hands on aspect of the program
  - Dan Ratner recommended talking to Janice DeCosmo, Associate Dean, Undergraduate Academic Affairs and Scott Winter Director, Policy & Administration (cc Dan on emails to Janice or Scott)
- Characterization modules
  - 1-credit courses would reach a broader base of students (nano and non-nano) as well as industry members wanting a refresher on a specific pieces of equipment
  - Potential courses/modules:
    - Electron Microscopy (SEM, TEM, EDS, sample preparation)
    - Surface Probe Techniques (STM, AFM, Profilometry)
    - Optical and Confocal Microscopy
    - Electrical Characterization
    - Miscellaneous Techniques (DLS, Goniometer)

#### V. Industry Survey

- Jim will distribute an industry survey to 30 of SHINE's closest industry partners. The survey was developed and shared with us by NACK, SCME, MATEC and Georgia Tech

VI. State of the Industry

- Honeywell is looking to ramp up on technicians by the end of the year, expecting a big 2017

VII. Adjournment

- Meeting was adjourned at 5:30 PM