

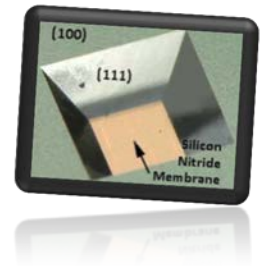


**Southwest Center for Microsystems Education  
Big Things from a Tiny World Workshop  
Monday & Tuesday, February 13 - 14, 2012**

Career Academy and Technical Center Building - CTE Center  
Bismarck State College  
1221 College Drive  
Matthias W. Pleil (UNM) and Carrie Leopold (NDSCS)

**Monday, February 13**

- 8:00 Introduction/Overview SCME Pre-survey
- 8:30 Sense of Scale – Micro Vs Nano - Matt
- 9:30 MEMS Applications – Matt
- 10:00 MEMS in the iPad Prototype - Carrie
- 10:30 Break
- 10:45 MEMS: Making Micromachines Film w/ Integration Discussion – Matt/Carrie
- 11:45 Lunch
- 12:30 Pressure Sensor Model Kit – Matt/Carrie
- 2:30 Break
- 2:45 PS Testing Demo – Kit Implementation Discussion - Matt
- 3:15 Crystallography Kit – Hands-on Miller Indices and Breaking Wafers - Matt
- 4:00 Adjourn



**Tuesday, February 14**

- 8:00 Cantilever Kit and Chemical Sensor Arrays - Matt
- 10:30 Break
- 10:45 Video data acquisition and analysis – Matt/Carrie
- 11:30 Lunch
- 12:30 Introduction to DNA - Carrie
- 1:30 “GeneChip” Model Kit – Carrie
- 2:30 Break
- 3:45 Implementation discussion, wrap Up and post survey
- 4:00 Adjourn

