

**The Second Annual NCLT Faculty Workshop
on
Nanoscale Science & Engineering Education**

August 6-9, 2006
Cal Poly, San Luis Obispo

Agenda

Sunday, August 6, 2006

check into hotel: Quality Suites
1631 Monterey Street
San Luis Obispo, CA
805-541-5001
<http://www.qualitysuites.com/>

8:00 pm Welcome Reception (walking distance from hotel)
Vallarta's Mexican Food & Cantina Restaurant
1761 Monterey Street

Monday, August 7, 2006

8:00 am pick up from hotel to Cal Poly (mini-vans and cars)
Advanced Technologies Labs, Building 007

8:30-10:00 **Welcome/Introduction/Expectations of NCLT (Mason)**

Workshop #1: Expectations

- Program/NCLT Expectations – homework assignment
- Participants' Expectations

Introduction to the "Big Ideas" of nano

10:00-10:30 Coffee Break

10:30-12:00 **Big Ideas (Mason)**

- *"Teaching and Learning in Nanoscale Science & Engineering:
What do K-16 Students Need to Know?"*
Aldrin Sweeney, University of Central Florida

Workshop #2: What do our Students Need to Know?

- How do the “big ideas” play out in higher ed?
- Break out into disciplinary groups to discuss
- Regroup and report back to entire group

12:00-1:30

Lunch

1:30-3:00

Tech Talk Part I:

“The Scope and Attributes of Nano-Science and Technology”

Ya-Hong Xie, UCLA

Discussion

3:00-3:30

Afternoon break

3:30-5:00

Learning Goals/Outcomes (Light)

Workshop #3: Sketching out learning goals/outcomes

- Introduction to learning goals/outcomes
- Break out into small groups
- Regroup and report

5:00-5:15

Virtual tour of NCLT Clearinghouse (Mason)

5:15

rides to hotel

6:30 pm

Dinner at Apple Farm (walking distance from hotel)

2015 Monterey Street

<http://www.applefarm.com/>

Tuesday, August 8, 2006

8:00 am

pick up from hotel to Cal Poly (mini-vans and cars)

Advanced Technologies Labs, Building 007

8:30-10:00

Teaching and Learning I (Chen)

- *"Understanding Learning in the Nanoscience Context: Basic Research and Evaluation"*
Denise Drane, Northwestern University

Discussion

- *"Small steps towards incorporating nano concepts in the undergraduate physics curriculum"*
Melissa Eblen-Zayas, Carleton College

Discussion

10:00-10:30 Coffee Break

10:30-12:00 **Teaching and Learning II (Chen)**

- *"Team-based learning in a nanotechnology course: Enhancing critical thinking through course structure"*
Linda Vanasupa, Cal Poly

Discussion

Workshop #4: Teaching Methods (Light)

- Aligning teaching methods with learning outcomes
- Break out session for brainstorm
- Regroup and report

12:00-1:30 Lunch

1:30-3:00 **Tech Talk Part II:**
"In-depth Discussions on Selected Examples of Nano-Technology"
Ya-Hong Xie, UCLA

Discussion

3:00-3:30 Afternoon Break

3:30-5:00 **Nano Programs and Assessment/Evaluation (Light)**

- “ ‘Lessons Learned’ from Creation and Execution of a 2-year Multi-disciplinary Nanoscience Program”
Deb Newberry, Dakota County Technical College

Discussion

Workshop #5: Assessment & Evaluation

- Introduction to assessment and evaluation
- Break out session for brainstorming
- Regroup and report

5:15 rides to hotel

6:00 load bus (and cars) from hotel to Morro Bay

6:30 Dinner at Great American Fish Company
1185 Embarcadero Blvd, Morro Bay
<http://www.virtualslo.com/business/Business.php?id=42>

Wednesday, August 9, 2006

8:00 am pick up from hotel to Cal Poly (mini-vans and cars)
Advanced Technologies Labs, Building 007

8:30-11:30 Presentations by workshop attendees (Mason)
(coffee served)

11:30-12:00 Workshop evaluation

12:00-1:00 Departure, boxed lunch