

2006 HP Technology for Teaching
Worldwide Higher Education Conference

Forming a Community of Learners: Students and Instructors Working Together to Enhance Learning with Technology

**Physics Department
Colorado School of Mines
Golden, Colorado**





Colorado School of Mines (CSM):

**public institution*

**emphasis on
engineering and applied
sciences*

CSM

3250 undergrads, all
required to take at least
2 semesters of physics

Physics Dept.

currently 270 students
pursuing B.S. in
Engineering Physics





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Please choose 2 of
the following
break-out sessions:

#1 David Murrell



Preparing the Tablet PCs for Classroom Use

- Windows/Linux dual boot
- Open source software that supports tablet features
- Imaging

#2 Prof. Frank Kowalski



Using the tablets for classroom communication

- Web-based real-time feedback
- Active engagement and metacognition

#3 Thomas Wells



Learning resources made available through technology

- Applets
- Students
- Other professors
- E-mail communication

#4 Erich Hoover



Web-based collaboration
and communication in a
community of learners

- Campus wiki and forum as
alternatives to Blackboard and
LON-CAPA



#5 Luke Campagnola

Using the Tablet PCs to acquire and interpret quantitative data

- Advantages of coupling tablets with other data acquisition devices (sensors, transducers, cameras, microphones, etc.)

#6 Susan Kowalski



Management and administrative issues

- Checkout procedures; training; insurance
- Student administrative rights
- Online documentation
- Encouraging effective use of technology in the classroom



Classroom
Communication
Software

Web
Collaboration

Taking Advantage
of Technology

Making Tablets
Ready

Tablets as Lab
Machines

Tablet Management
and Administration



<http://www.mines.edu/academic/ticc/>