



Computer Science Task Force & OPAS Update

January 26, 2007

Computer Science Task Force

★ Curriculum Enhancements

★ In science and math classrooms

- Feature Spreadsheets, e.g. Excel
- Teach Software design principles while using spreadsheet as a tool for math/science
- Option: Use Visual Basic Programming
- OSU has experience training teachers via NSF grant

★ Magnets to high school computer science

- Game programming
- Robot programming
- Teachers at a couple Oregon high school have received dramatic results
- Methods being disseminated via summer workshops

OPAS – Oregon Pre-engineering & Applied Science Initiative

- ★ OPAS Strategy Workshop on November 17th – 3 of 9 strategies selected:
 - Motivate: Add context to science and math classrooms with engineering examples
 - Prepare: Enhance active learning in science classrooms
 - Succeed: Enhance retention/success of under-represented groups
- ★ Co-curricular conference on Feb 5th
 - **“Network of Informal STEM Educators”**
- ★ Manufacturing Engineering Pathway under development