

The background is a dark blue field filled with various sizes of semi-transparent gears. On the left side, there is a vertical strip with a colorful, abstract, and pixelated pattern in shades of orange, yellow, and brown. The text is centered in the blue area.

Computer Science Task Force & OPAS Update

October 27, 2006

Computer Science Task Force

★ Marketing Campaign

★ Speaker's bureau

- Collaboration with Business Education Compact and National Engineers Month
- Have slide set suitable for high schools
- Considering interactive material for middle schools

★ Computer Science in High School Math Classes

- Excel as platform for the "ilities"
- Discrete Mathematics
- Programmable calculators
- Other programming
- Connecting with Oregon Math Education Council

★ Surveys

- Math Teacher Survey
- College student Survey



OPAS – Oregon Pre-engineering & Applied Science Initiative

- ★ ETIC RFP Program

- ★ Synopsis of projects linked to today's agenda
- ★ Received first quarterly report from grantees

- ★ OPAS Strategy Workshop on November 17th

- ★ Prioritize goals/strategies to identify top 3 to 6
- ★ Consider how to grow resource base

- ★ Co-curricular conference on Feb 5th

- ★ **“Network of Informal STEM Educators”**

Increasing Drop-out Risk

Alternative Post-High School Stem Education

Traditional STEM College Path Probable



OPAS has specific concerns for pre-college students ...

Academic stars

Rigorous STEM college prep curriculum makes these students prime STEM candidates

Academically successful

Taking college prep curriculum but weak preparation in STEM

OPAS concern: How to attract these students to engineering and applied science college majors and careers

Under performing

Capable of STEM success, but not academically engaged

OPAS concern: How to expand STEM interest and quality of preparation of these students

Struggling

Little evidence of academic success, engagement, or capability

OPAS concern: How to use STEM programs to increase academic engagement and success

OPAS concern: How to use STEM programs to achieve basic academic success

OPAS concerns should drive OPAS priorities and actions!

Harvesting Oregon's Natural Human Resources

