Oregon STEM

General Education
Oregon: Benefits of Education

- No High School Diploma: $384
- High School Diploma: $533
- Some College: $598
- Associates Degree: $677
- Bachelor Degree or higher: $960+

Oregon Dept Labor 2006

Oregon STEM Careers
Oregon State Statistics

Employment Projections

National Picture:

2010 Predicted increase in jobs
{requiring 4-year degrees}

15.2% all occupations

75% increase in IT jobs.

U.S. Department of Labor Bureau of Labor Statistics
STEM Problems

Where are the women?

- 2005 - 88% of computer scientist were men
- US women engineering grads from 37% ('84) down to 20% ('99); worse since
- 15% of CS AP Exams - high school girls
International Problem:

Effects most of us:

- Health fields
- Business
- Tech fields
- Industry
Solutions?

National:

- Software:
  - Alice
  - BlueJ – GreenFoot
  - Karel
  - Scheme

- Programs:
  - Project Lead the Way (PLTW)
  - Robotics
North Salem’s Solutions:

- NBA – No Boys Allowed
- Tech Conference – professional, student driven
- Curriculum:
  - Interdisciplinary (specialized, PLTW),
  - Types of problems,
  - Groups,
  - Presentations,
- Internships,
- Role models – panels, mentors

In the works:

- Survey of administrators and teachers
- Presentations:
  - COSA,
  - OACTE,
  - Math Leaders,
  - ...

Why should we care?

- Selfish – more students = more cs courses
- Students –
  - Better job opportunities
  - Living wage jobs
- US – diversity is strength
  - Problem solving
  - All population involved

Get The Picture?

No Boys Allowed Tech Conference 2007