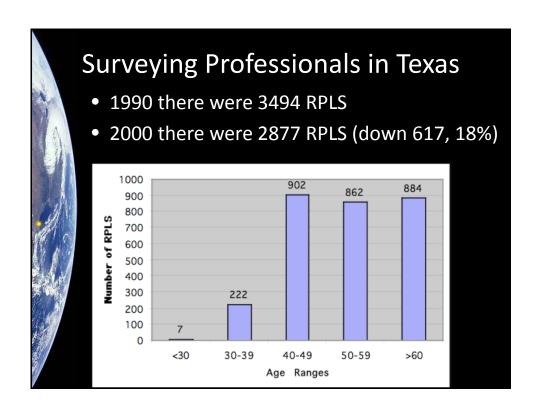


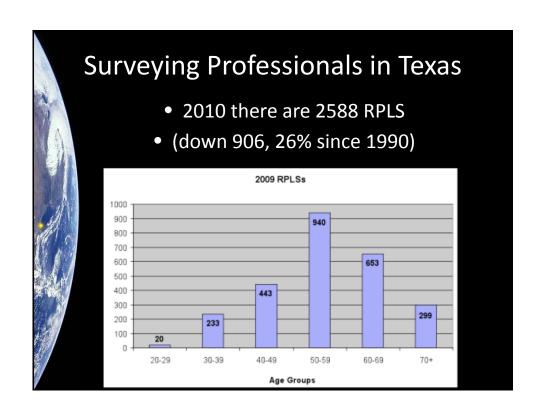


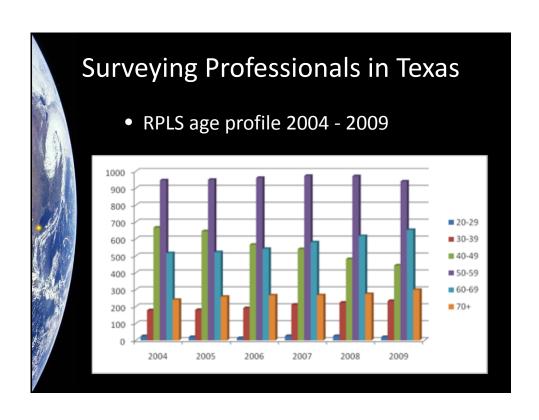


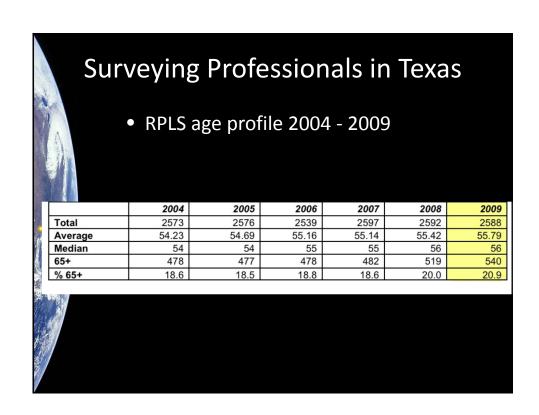
- 1. Recent changes in surveying.
- 2. The aging surveying profession.
- 3. Challenges to surveying education.

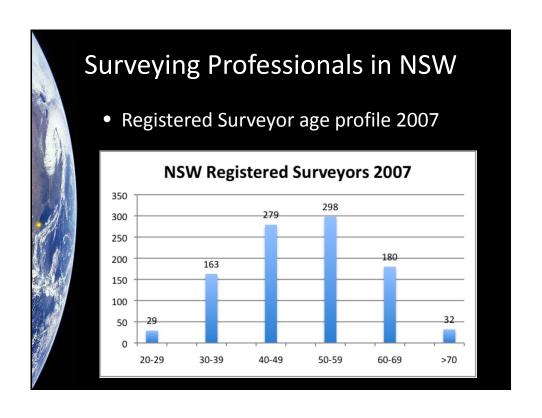




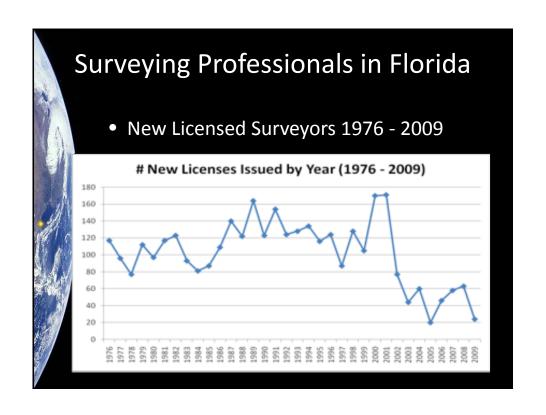


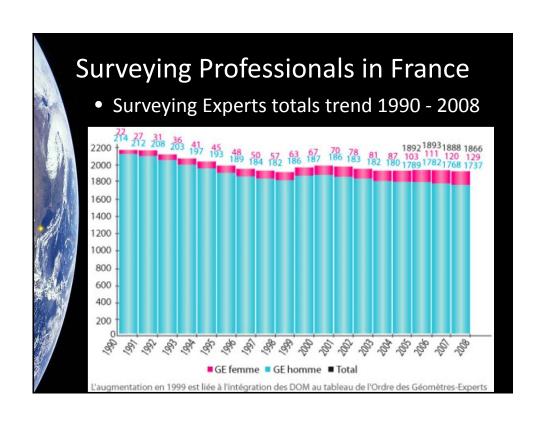




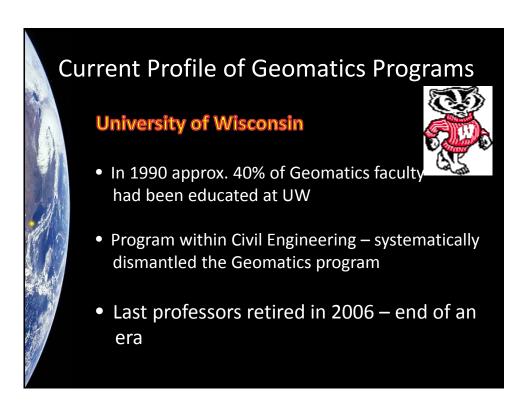












Ohio State University



- Separate Department within College of Math and Physical Sciences
- 1995 incorporated into Dept. Civil Engineering
- 2005 geodesy faculty transferred to the Department of Geological Sciences subsequently renamed the School of Earth Sciences
- Jointly offer graduate programs in geodesy, photogrammetry and mapping

University of Maine



- 2003 split into undergraduate surveying and spatial engineering
- Surveying housed in School of Engineering Technology
- Department of Spatial Information Science do not link to surveying profession
- Diversified disciplines psychology

Purdue University



- Geomatics treated as a specialization of civil engineering
- Developing an inter-disciplinary Masters degree in Geo-Sensing
- Engineering-centric focus

Texas A&M University-Corpus Christi

 Approach – surveying education as an integral component of the geospatial sciences



- Two-track system Geomatics & GIS
- 74% have selected the Geomatics track
- Faculty numbers have grown from 2 to 6 in the last 15 years

University of Florida



- Separately named Geomatics degree administered within civil engineering until 2004
- 2004 program transferred out of engineering college to School of Forest Resources & Conservation
- Within 3 years faculty number doubled from 4 to 8

Critical Issues facing Geomatics Education in the US

- Can Geomatics survive (and prosper) at major research universities?
- Shrinking and aging professionals...
- Who will teach tomorrow's surveyors?
- How will globalization and improving communication technology impact education?
- Is it time for a new paradigm?

Comparison of 1990 Profile of Geomatics Faculty with job application pool in 2006

1990 Profile

2006 Profile

- 80% American-born
- 5% American-born
- PhD in Photogrammetry, Cadastral Studies, Geodesy, GIS/LIS...
- 50% with a PhD in remote sensing
- Most had at least a BS in 80% with no surveying Surveying
 - background

This comparison shows an increasing divide between the origin, discipline and qualifications of aspiring Geomatics professors and the demands and requirements of the surveying profession in the US.

Conclusion



- Decreasing supply of surveyors
- Changing skills of educators
- No cohesive paradigm .. Intellectual focus
- Innovation in certain programs is a positive sign
- Need to diversify and contribute to the big global issues

