Geodesign Explorations: A Conversation

Presented by
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**Planning Process:**
- Determine Goals/Values
- Inventory Current Conditions
- Analyze Trends/Projections
- Form Planning Options
- Assess Impacts
- Develop Final Plan
- Implement Plan
- Evaluate/Monitor
- Update Plan

**Planning Functions:**
- Citizen Engagement
- Professional Support

**PLANNING ANALYST**

**Citizen Engagement**

**Planning Tools:**
- Cyber Civic
- ArcMenu
- ArcExplorer
- ArcView
- ArcInfo
- Spatial Analyst
- Model Builder
- What If?
- Place It!
- CommunityViz
- 3D Analyst
- World Construction Set
- Terrex
- ES Rapid Site

**1999**
Landscape Architecture Theory

- In 1953, Stanley White, Professor of Landscape Architecture at the University of Illinois formally introduces his "Blueprint" for systematic landscape design.

- "Geodesign"
Hideo Sasaki

• “Thoughts on Landscape Architecture.” Landscape Architecture XL. (1): 158-160.)
  – Systematic
  – Rational
  – Critical Thinking
  – Research
  – Analysis
  – Synthesis

Circa 1950
Phil Lewis – Environmental Corridors

50 Year Anniversary of the Lewis’ Resource Inventory

Statewide Environmental Corridors in Wisconsin
SYMAP Comes to WI

- Ian McHarg, Donald Belcher and Philip Lewis Review Delmarva SYMAP project 1967
- Niemann obtains Ford Foundation Scholarship to attend SYMAP Symposium
- Niemann recommends to UW-Madison to install SYMAP
Interstate 57 (43)
Lower Wisconsin Scenic River Way

Using View-It Algorithm from the U.S. Forest Service
Concept for a Multipurpose Land Information System

- UW-Madison Land Information and Computer Graphics Facility
  - Sullivan
  - Chrisman
  - Niemann
Room to Grow?
Growth Management Factors
Plan for the Town of Verona
Farmland Priority Zones

Citizen Exit Interviews

- “Process was more methodical and organized.” Less emotional.
- “I’m a visual person and this process provided information and decision results visually.”
- “It was easier to wrap your mind around this project” - because of the data provided.
- “Process to check up and validate model with field results was great. People need to know the county better before making decisions about it.”
Environmental Corridors
PLACE-IT

Verona

Citizens, assisted by Geodesign, are reasoning together over the future of their communities.
Preferred Land Use in Waupaca County using What if?

Geodesign used at 231 public meetings
Citizen Empowerment
Moose Lake, Wisconsin: 2010
Spatial Thinking that Permeates our Educational System

• ESRI Pledges $1B in Cloud-Based STEM Software to White House ConnectED Initiative
  – How will higher education engage a more spatially savvy student body?
  – How will higher education help existing professionals compete?

• Life Long Learning in GIS and Geodesign
  – UW-Flexible Option in Geographic Information Systems
  – Collaborative Capstone Certificate in Geodesign
Flexible Option in GIS

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—University of Wisconsin System President Ray Cross
University of Wisconsin Collaborative Capstone Certificate in Geodesign

• An integrated, interdisciplinary approach to Geodesign.
  – Blending a geographic perspective with Aldo Leopold’s Land Ethic.
  – Collaboration among UW-Madison and UW-Stevens Point
    • Landscape Architecture, Geography, Geology, Engineering, Natural Resources
  – Rooted in 50+ Years of Geodesign Research in Wisconsin.

• 15 credit post-baccalaureate certificate, delivered primarily online.