

**ASCE/ICEA Land Surveyors Conference**  
**Scheman Building, Iowa State University**  
(as of October 8, 2009)

**Wednesday, October 14, 2009**

7:15 - 8:30 AM      **Registration**

**Morning Session**

**Presiding: Jeff Hicks, City of Iowa City**

8:30 – 9:00

**Topic: *State of Iowa LIDAR Project Update***

- What is LIDAR/benefits/source of data
- Scope of Iowa project/status of project
- Distribution of data

Speaker: Chris Ensminger, Iowa DNR, Des Moines, IA

9:00 – 10:00

**Topic: *Utilization of LIDAR for Project planning and Design***

- Data format/post-processing requirements
- How to access data (where/cost?)
- Data applications
- Real-time example of accessing data and importing into design software (i.e. AutoCad Land Desktop/Map, Microstation, etc)

Speakers: Norman Friedrich, P.E., NRCS, West Union, IA and Curt Fopma, NRCS, Newton, IA

10:00 – 10:15

**Refreshment Break**

10:15 – 11:00

**Topics: *LIDAR and Traditional Site Survey Data – QA/QC***

Speaker: Dan Corbin, Dan Corbin, Inc., Cedar Falls, IA

11:00 – 11:45

**Topic: *Use and Understanding of Grid and Ground Coordinates in GPS Data Collection and Application.***

Speaker: Norman Miller, P.L.S., Preliminary Survey, Office of Design, Iowa DOT, Ames, IA

11:45 - 1:00

**Luncheon**

**Afternoon Session**

1:00 - 1:30

**Topic: *Legislative Update***

Speaker: Craig Johnstone, P.E., P.L.S., Johnstone & Associates, Newton, IA

1:30 - 2:00

**Topic: *Iowa DOT Construction Specs***

- Construction survey update – staking requirements
- Overlays
- Staking notation

**Speaker:** Travis Stewart, P.L.S., Clapsaddle-Garber Associates, Inc., Marshalltown, IA.

- 2:00 – 2:30      **Topic: Use of Flood Recovery Maps for Surveyors**  
**Speaker:** Bill Cappucio, Engineer, Flood Plain Program, Iowa DNR, Des Moines, IA
- Protocols and applications
  - The new Flood Plain Recovery Maps
  - What can the Flood Plain Recovery Maps be used for, what are the applications for land surveyors.
  - How to use these maps when someone says “tell me where the flood elevation is on my property.”
  - When additional surveying / modeling
  - How do the new maps differ from “Flood Prone Maps” and FIRMS?
  - Will LIDAR change the new maps?
- 2:30 – 2:45      **Refreshment Break**
- 2:45 – 3:15      **Topic: Section corners protocols.**
- Use
  - Certification
  - Restoration on overlay by county/surveyor
- Speaker:** Lee Gallentine, P.E., P.L.S., Ryken Engineering, Ackley, IA
- 3:15 – 3:45      **Topic: Multi-story building staking and control**  
**Speaker:** Dave Ford, Field Coordinator, Ryan Companies US Inc., Minneapolis, MN
- 3:45 – 4:30      **Topic: Legal Aspects of Construction Staking Notes.**  
**Speaker:** Todd Weidemann, Woods & Allen, LLP, Omaha, NE.
- 4:30              **Adjourn for the day**

**Thursday, October 15, 2009**

Presiding: Mark Nahra, P.E., P.L.S., Delaware County Engineer, Manchester, IA

- 8:00 – 9:00      **Topic: Iowa DOT RTK Status**
- Leica Rep – what have we learned?
  - Iowa DOT – where do we go from here?
- Speakers:** Wendy Watson, Vice President, Leica Geosystems GIS and Mapping, Inc., Norcross, GA; Steve Milligan, Iowa DOT Office of Road Design, Ames, IA
- 9:00 – 9:30      **Topic: Construction Survey Data Collection**
- Accuracy needs
  - Software modeling
  - Data collection methods
  - Vert and horizontal accuracy
  - Historical documentation (field books vs digital files?)
- Speaker:** Dan Wiese, Star Equipment Limited, Cedar Rapids, IA
- 9:30 – 9:45      **Break**

- 9:45 – 10:15      **Topic: *Stake-less Grading***
- Survey requirements
  - Limitations
  - TIN Development
  - Software compatibility
- Speakers:**    Josh Olson, Zieglar Inc., Altoona, IA;  
                      Doug McDonald, P.E., RCE, Iowa DOT, Marshalltown, IA,  
                      Jason Billerbeck, Peterson Contractors Inc., Reinbeck, IA
- 10:15 – 11:00      **Topic: *Stake-less Paving***
- Survey requirements
  - Limitations
  - TIN development
- Speakers:**    Lyle Brehm, P.E., Poweshiek/Tama County Engineer  
                      Brian Manatt, Manatts Inc., Brooklyn, IA  
                      Matt Morrison, Leica Machine Control, Grand Rapids, MI
- 11:00 – 11:45      **Topic: *Locating survey records (where/how/what)***
- *Surveyor/engineer*
  - *Auditors office*
  - *Recorders office*
  - *Drainage engr*
  - *GIS Admin*
- Speaker: Howard Stewart, P.L.S., County Surveyor, Jasper County  
 Engineer's Office, Newton, IA.
- 11:45 - 1:00      **Luncheon**  
**Program: Future Floodplain Mapping in Iowa**  
**Speaker:** Scott Ralston, P.E., Iowa DNR, Des Moines, IA
- 1:00 PM            **Conference Adjourn**