

# AmericaView Fall Technical Meeting/ ASPRS UMC Conference

October 5-7, 2009  
EROS Data Center, Sioux Falls, South Dakota

*Final Program*  
9/30/2009

## Monday, October 5

The AmericaView Consortium will focus on AmericaView and USGS Research, Technology and Education Presentations, along with USGS updates from EDC scientists.

- 6:00 am** The Park Place Café (in the Holiday Inn) opens  
**7:15 am** Bus departs from lobby of Holiday Inn Sioux Falls-City Centre, 100 West 8<sup>th</sup> Street, for transport to EDC.  
**8:00 am** Check in at EDC (see guidelines below). Continental breakfast available in Atrium. Presenters place posters for poster session (in Atrium) now through 10:20 a.m. on Tuesday

**Morning Session – Introduction and Meeting Overview** – AV Board, Staff, USGS in the EDC Auditorium (Room 1122)

**8:30 am** – *AmericaView and USGS Welcome, Overview, Logistics* (USGS, AmericaView Board, Staff)

**8:45 am** – *AmericaView Strategic Plan Update* (AmericaView Board, Staff)

**9:30 am** – *AmericaView Legislative Update* (**Matt Varilek**, Senator Johnson's Office, **Benjamin Ready**, Senator Thune's Office, and **Mark Gerhardt**, Congresswoman Stephanie Herseth Sandlin's Office)

**9:45 am** – **Break**

**10:00 am - Morning Research Session** – Introduction, Rick Landenberger

**10:05 am** – **Rick Lawrence** (MontanaView and AV Board Chairman)  
*Spatiotemporal Relationships between Climate and Whitebark Pine Mortality in the Greater Yellowstone Ecosystem*

**10:30 am** – **Jim Vogelmann** (USGS EROS)  
*Assessing Land Cover Status and Change Using Historical Landsat Data*

**10: 50 am – Bruce Gorham** (ArkansasView)

*Mapping Terrestrial Habitats in the Boston Mountain and Arkansas River Valley Ecoregions: A Multi-scale Approach*

**11:15 am – Gabriel Senay** (USGS EROS)

*Remote Sensing for Estimating Regional Evapotranspiration and Modeling Basin Water Balance*

**11:35 am – Panel Discussion** (Lawrence, Vogelmann, Gorham, Senay, Landenberger)

**12:00-1:00 pm – Lunch** – provided outside EDC Cafeteria

<b>AmericaView Featured Presentations – EDC Auditorium</b>
--

**1:00 pm – Russ Congalton** (New Hampshire View)

*Assessing the Accuracy of Remotely Sensed Data: Doing It Right!*

**1:30 pm – Gilbert Rochon** (IndianaView)

*Engaging Remote Sensing & High Performance Computing Technologies for Sustainable Development, Public Health & Disaster Mitigation in African Countries*

**1:50 pm – Break**

<b>2:10 pm – Technical Presentations and Panel Discussion</b> (Tyler Erickson, Tech Committee Chair, moderator) - <i>Technologies for Sharing Remote Sensing Data</i>
---

**2:10 pm – Alan Kittson** (SPOT USA)

*Imagery Solutions for Future Projects*

**2:30 pm – Larry Biehl** (IndianaView)

*PRESTIGE - Web-based Near-Real-Time Access to Satellite Image Data*

**2:50 pm – Sam Batzli** (WisconsinView)

*MODIS Today Images*

**3:10 pm – PR Blackwell** (TexasView)

*REDDnet for Emergency Response*

**3:30 pm – Dayne Broderon** (AlaskaView)

*AOI Extracts from Web Mapping Service*

**3:50 pm – Tim Smith** (SGT)

*USGS Data Archive and Distribution Update*

**4:15 pm – Panel-Audience Discussion** (Kittson, Biehl, Batzli, Blackwell, Broderon, Smith, Erickson)

**4:45 pm – Wrap-up**

**5:00 pm** – Board bus for return to Sioux Falls

**6:30 - 8:30 pm** -- AmericaView Dinner at Minerva's Downtown Sioux Falls, 301 S. Phillips Avenue. Dinner hosted by AV, no-host cash bar available.

## Tuesday, October 6

The morning technical session will feature Education and Outreach presentations. This will be followed at 11:35 by the Poster Session. Workshops will fill the afternoon.

- 6:00 am** The Park Place Café (in the Holiday Inn) opens  
**7:15 am** Bus departs from lobby of Holiday Inn Sioux Falls-City Centre, 100 West 8th Street, for transport to EDC.  
**8:00 am** Check in at EDC (see guidelines below). Continental breakfast available in Atrium.

**8:00 am to 10:20 am** – Presenters place posters for poster session (in Atrium)

**Morning Session** – EDC Auditorium

<p><b>8:30 am</b> – <b>Education &amp; Outreach I Presentations and Panel Discussion</b> (Jay Morgan, Mueller Education Co-chairs, moderated) <i>Geospatial Science &amp; Technology Education</i></p>
--

**8:30 am** – Presentation of First Annual “**AmericaView K-12 GIScience Educator**” award to **Cassandra Soeffing** (Morgan, Mueller)

**8:35 am** – **Jeong C. Seong** (GeorgiaView) – *America View University*

**8:54 am** – **Pia van Benthem** (CaliforniaView) – *America View University with MultiSpec*

**9:13 am** – **Jay Morgan** (MarylandView) – *AmericaView’s Earth Observation Day Project*

**9:32 am** – **Jan Nelson** and **Pam Van Zee** (USGS EROS) – *USGS EROS Outreach and Education*

**9:51 am** – **Moderated Panel-Audience Discussion** (Seong, van Benthem, Morgan, Mueller, Nelson, Van Zee, Soeffing (invited))

**10:05 am** – **Break**

<p><b>10:20 am</b> – <b>Education &amp; Outreach II Presentations and Panel Discussion</b> (Rebecca Dodge Outreach Chair, moderated) <i>Outreach at the National and State level</i></p>
--

**10:20 am** – **Robin Gregory** (ArkansasView) – *Remote Sensing Endeavors in EAST™*

**10:40 am** – **Ramesh Sivanpillai** (WyomingView) – *Partnering with Government Agencies: Challenges and Opportunities*

**11:00 am** – **Rebecca Dodge** (TexasView) – *Outreach Resources That Work*

**11:20 am** – **Moderated Panel-Audience Discussion** (Dodge, Sivanpillai, Gregory, Landenberger)

**11:35 am – Poster Session in EDC Atrium**

Posters will highlight remote sensing research, technology / archive / distribution, and educational and outreach projects by AV, ASPRS, and students. Only lead authors of posters are listed.

**Robert Wright** (Hawai'iView) – *Monitoring the ongoing eruption of Kīlauea volcano, Hawai'i, using low spatial, but high temporal resolution, infrared satellite data*

**Jarlath O'Neil-Dunne** (VermontView) – *Object-Based Image Analysis: Going Operational*

**Luke Marzen** (AlabamaView) – *The Case for Best Management Practices to Improve Water Quality in a Rapidly Urbanizing Alabama Watershed*

**Kevin Czajkowski** (OhioView) – *Detection of Urban Heat Island Using Student Observations and My World GIS*

**Greg Easson** (MississippiView) – *Teaching GIS and Remote Sensing Through Community Based Projects*

**Robin Gregory** (ArkansasView) – *Remote Sensing Endeavors in EAST™*

**Rick Landenberger** – (AmericaView) – *West Virginia Watershed Dynamics – A Cooperative West Virginia View / National Science Foundation Geoscience Education Project in West Virginia*

**Christine Sommers-Austin** (MontanaView) – *MontanaView Outreach*

**Wei Gao** (ColoradoView) – *U.S. Department of Agriculture UV-B Monitoring and Research Program and Integrated Crop Modeling Activity*

**Scott Schrader** (New Mexico View) – *Acquisition, orthorectification, and object-based classification of unmanned aerial vehicle (UAV) imagery for rangeland monitoring*

**Scott Schrader** (New Mexico View) – *Object-Based Classification of Ultra-High Resolution Aerial Photography for Potential Integration into NRI CEAP for Grazing Lands*

**Brad Stricherz** (South Dakota State University) – *Assessing Catastrophic Wildfire Risk in California*

**Benjamin Helder** and **Geoffrey Henebry** (South Dakota State University) – *Assessing Changes at the Grassland Destabilization Experiment (GDEX) in the Nebraska Sandhills from 2006 to 2009 using Imaging Spectroscopy*

**Ruopu Li, James Merchant, Tao Sun, and Leiming Zhao** (University of Nebraska-Lincoln) – *Standardized Mapping of Groundwater Vulnerability Factors using National and State-Level Geospatial Databases*

Six prize-winning posters from the ASPRS-St. Louis Region Geography Awareness Week poster competition will also be displayed

**12:00-1:00 pm – Lunch** – provided outside EDC Cafeteria

### **Tuesday Afternoon Workshops – Software, Active Systems, and Education**

Workshops Sessions are scheduled for 1:00 to 4:45. Each session is open to all AV and UMC members.

#### **Software Session Workshops – EDC Training Room A ( Room 1127-A)**

- 1:00 pm** *Introduction to MultiSpec* – Learn the basics of MultiSpec, a powerful yet easy-to-use remote sensing freeware package (Larry Biehl - IndianaView)
- 2:45 pm** **Break**
- 3:00 pm** *Introduction to eCognition* – Learn how to apply object-based image analysis (OBIA) techniques using the Definiens eCognition software suite to extract features from high-resolution imagery and LiDAR. (Jarlath O’Neil-Dunne - VermontView, Bruce Gorham - ArkansasView)

#### **Active System Session Workshops – EDC Training Room B (Room 1127-B)**

- 1:00 pm** *Lidar* – Learn more about the theory and application underlying Light Detection and Ranging, including a new Lidar extension for ArcGIS (Ramanathan Sugumaran – IowaView)
- 2:45 pm** **Break**
- 3:00 pm** *InSAR* – Learn more about the theory and application underlying Interferometric Synthetic Aperture Radar (Russ Rykhus, Stinger Ghaffarian Technologies)

#### **Education Session Workshops – Executive Conference Room (Room 1106)**

- 1:00 pm** *SATELLITES* – Learn how to implement SATELLITES in your state (Kevin Czajkowski – OhioView, Rick Landenberger – AmericaView ED)
- 2:45 pm** **Break**
- 3:00 pm** *WETMAPP* – Learn how to implement WETMAPP in your state (Catherine Lockwood – Chadron College, Brent Yantis – LouisianaView)

**5:00 pm** – Board bus for return to Sioux Falls

### **Tuesday Night AmericaView – ASPRS UMC Mixer**

**6:00 pm** – Board bus to travel to an informal mixer jointly hosted by AV and UMC. We will meet at Falls Overlook Café, 825 N. Weber Ave. (Falls Park) from 6:15 to 8:15. Free munchies and no-host cash bar available.

## Wednesday, October 7

**7:15 am:** Shuttle departs from lobby of Holiday Inn Sioux Falls-City Centre, 100 West 8th Street, for transport to EDC.

**8:00 am:** Check in at EDC (see guidelines below). Continental breakfast available in Atrium.

### All meetings on Wednesday to be held in Training Room A/B (Room 1127)

**8:30 – 8:40 am:** Brad Rundquist, University of North Dakota and ASPRS UMC President, Welcome and Opening Comments

**8:40 – 9:10 am:** Matthew Hansen, South Dakota State University, *Mass Processing Landsat for Forest Change Estimation.*

**9:10 – 9:40 am:** Paul Harwig, Furgro Horizons Inc., *Make Geospatial Data Useful.*

**9:40 – 10:10 am:** Ron Hayes, SGT, *Assessing the Data: New Data Sources and How They are Evaluated at the USGS EROS.*

**10:10 – 10:30 am:** Break

**10:30 – 11:00 am:** Kevin Gallo, NOAA, and Robert Hale, Colorado State University, *Climatological Applications of Land Cover Conversion in the United States.*

**11:00 – 11:30 am:** Linda Jonescheit, SGT, *Commercial Remotely Sensed Data Available for Federal Users and Partners: Supporting the Commercial Remote Sensing Space Policy (CRSSP).*

**11:30 – 12:00 noon:** Valeriy Kovalskyy and Geoffrey Henebry, South Dakota State University, *An Event-Driven Phenology Model.*

**12:00 – 1:00 pm:** Lunch

**1:00 – 1:30 pm:** Thomas Loveland, USGS EROS, *Entering a New Era – Enabling Global Studies of Environmental Change.*

**1:30 – 2:00 pm:** Xuexia Chen, ASRC, James Vogelmann, Matt Rollins, Carl H. Key, Limin Yang, Chengquan Huang, and Hua Shi, *Using Remote Sensing to Estimate Burn Severity and Monitor Vegetation Recovery.*

**2:00 – 2:30 pm:** Eric Wood, USGS EROS, *Solar and Wind Energy Resources Assessment (SWERA) Project.*

**2:30 – 3:00 pm:** Jason Stoker, USGS EROS, *Lidar Research and Applications.*

**3:00 – 3:30 pm:** Break

**3:30 – 4:00 pm:** John Strebeck, ASPRS, *Update on the St. Louis Region of ASPRS.*

**4:00 – 4:15 pm:** Business Meeting and Wrap-Up

**4:30 p.m.:** Board shuttle for return to Sioux Falls

## **Conference and Program Sponsors and Committees**

A special THANK YOU to:

- Tom Holm and EROS Data Center for hosting us
- USGS for providing funding for AmericaView's participation and attendance at this Conference
- Conference Chairs Rick Landenberger and Brad Rundquist for all their work pulling together a great program
- All of our presenters
- All the following people and groups who made this Conference such a success!

### **AmericaView**

Rick Landenberger (Chair), Debbie Deagen, Mary and Doug O'Neill, Tyler Erickson, Tom Mueller, Jay Morgan, Rebecca Dodge

### **ASPRS**

Brad Rundquist (Chair), Bobbi Lenczowski, Ramanathan Sugumaran, Kevin Dalsted, John Strebeck

### **USGS**

Tom Holm (Chair), Tom Cecere, June Thormodsgard, Mike Benson

### **Corporate Sponsor**

Definiens Developer software provided without charge for the Tuesday workshop. Twenty percent discount on Definiens software offered to AmericaView members participating in the workshop.

### **Augustana College** (for food and transportation)

Brad Heegel, Jackie Schmidtman, SODEXO

## **Logistics and Contact Information**

### Holiday Inn Sioux Falls City Centre Airport Shuttle

The shuttle operates 24 hours a day. Please use the courtesy phone in the Sioux Falls Regional Airport when you arrive to request a ride.

### Tips for check-in at EDC:

- Be prepared to provide a picture ID that is a Government issued ID. You will need it both at the entrance gate and once inside EROS at Security (don't leave it in the car).
- If anyone has a pacemaker, let EDC know in advance.
- Do not carry pocket knives or anything else that could be considered a weapon.
- Minimize bringing in personal items, it will just slow the check-in process.
- All laptops must be checked in and registered with Security.
- All external drives (USB thumb drives) used in EDC computers need to be scanned.

Emergency Contact Information

Holiday Inn Sioux Falls-City Centre Front Desk: (605) 339-2000

EDC Front desk: (605) 594-6511

Minerva's Downtown Sioux Falls: (605) 334-0386

Overlook Café Phone: (605) 367-4885

Rick Landenberger – (304) 216-6976 (cell phone)

Debbie Deagen – (406) 579-0728 (cell phone)

Brad Rundquist – (218) 779-5784 (cell phone)

Security Notice for EDC:

Please be advised that all visitors, vehicles and persons are subject to be searched by authorized security officials. Each visitor age 18 or older will be required to present some type of valid government-issued photo identification (federal, state, or local) for access. Example of authorized identification: driver's license or passport. All visitors are required to go through security before being granted access to the Center. To help make the passage through security as efficient and comfortable as possible, only bring in items that are necessary. Cameras and video recorders are authorized inside facility with some restrictions that will be identified at the time of the visit. Taking pictures outside Center is not authorized without prior permission. No person may bring dogs or other animals on Federal property for other than official purposes. However, a disabled person may bring a seeing-eye dog, a guide dog, or other animal assisting or being trained to assist that individual.