

The 2012 Joint Workshop on Disaster Response

presented by

The Information Products Laboratory for Emergency Response & Center for Geohazards Studies

The Rochester Institute of Technology (RIT) and University at Buffalo (UB) Information Products Laboratory for Emergency Response (IPLER) and the UB Center for Geohazards Studies are pleased to announce a joint workshop on the application of remote sensing for disaster response and the science of geohazards, to be held **May 30-June 1, 2012**, at the RIT campus in Rochester, NY.

Disaster can strike anywhere and at any time and place; however, our "geospatial response" to disasters can be improved through the use of remote sensing technology and knowledge of geohazard phenomenology. The RIT-UB IPLER program seeks to stimulate innovation in the remote sensing industry by (i) working with the disaster response community to understand their information needs and operational limitations, (ii) introducing them to the capabilities of remote sensing technology, and (iii) conducting research to improve our response to and mitigation of disaster events.

Highlights:

- Keynote speakers from federal agencies and the commercial sector
 - **Ms. Brenda Jones** (United States Geological Survey; Disaster Response Coordinator)
 - **Dr. Matthew Pritchard** (Cornell University; Earth and Atmospheric Sciences)
 - **Mr. Ron Eguchi** (ImageCat Inc.; President & CEO)
 - **Mr. Shay Har-Noy** (TomNod Inc.; CEO)
- Meet fellow attendees from industry, academia, and government
- Listen to talks and roundtable discussions, including student presentations on their latest research and hear about IPLER remote sensing support to the 2011 Japan earthquake and tsunami and recent flooding in New York State (storms Irene and Lee)
- Participate in learning workshops dealing with the use of remote sensing systems (selection, tasking, and data processing)
- Travel by complimentary bus to an on-site workshop, hosted at UB by the Center for Geohazards Studies
- Observe a demonstration of an airborne remote sensing system, image collection, processing, and dissemination, all in real-time (weather permitting)
- Free lunch (yes there is such a thing) and dinner will be provided to attendees on Days 1 and 2

Details:

- **Registration cost:** Free
- **Lodging:** Available at the Radisson Hotel Rochester Airport, located on the RIT campus, as well as other nearby hotels (please see hotel list at <http://www.rit.edu/emcs/admissions/hotels>)
- **Registration:** Please register at <http://ipler.cis.rit.edu/node/59> by **April 30, 2012**
- **Contact:** Via e-mail Mr. Don McKeown (mckeown@cis.rit.edu) or 585-475-7192
- **Posters from both the industry and students/researchers are encouraged** – please indicate this during the registration process and contact Mr. Don McKeown (mckeown@cis.rit.edu) for more details.

Sponsors:

- The National Science Foundation's Partnerships for Innovation Program (NSF PFI)
- RIT Digital Imaging and Remote Sensing Lab (<http://dirs.cis.rit.edu/>)
- UB Center for Geohazards Studies (<http://www.geohazards.buffalo.edu/>)

Day 1:**Wednesday, May 30, 2012**

<i>Time</i>	<i>Event</i>	<i>Location</i>	<i>Organizer</i>
8:00	Registration	76-Lobby	RIT
8:30	Welcome: Dr. Ryne Raffaele (RIT) and Dr. Sarah Nerlove (NSF)	76-Auditorium	IPLER
9:00	Keynote I: Ms. Brenda Jones (USGS Disaster Response Coordinator); followed by Q&A	76-Auditorium	IPLER
10:00	Session 1: IPLER disaster response activities Don McKeown (RIT): Update on 2012 Haiti earthquake, 2011 Japan earthquake, Hurricane Irene, and Tropical Storm Lee response Jason Faulring (RIT): IPLER real-time response via in-flight workflow integration	76-Auditorium	IPLER
10:30	Morning coffee break	76-3215	RIT
11:00	Session 2: IPLER disaster response research I Bin Chen (RIT): Multi-modal image classification Jan van Aardt (RIT): Lidar-based building damage assessment	76-Auditorium	IPLER
11:30	Session 3: IPLER geospatial modeling research - floods Chris Renschler (UB): Hydrologic Modeling Tools Graham Hayes (UB): Schoharie Creek Flood Assessment	76-Auditorium	IPLER
12:00	Lunch break & Poster session: Industry & Research	76-Lobby 76-1155	RIT/ UB
13:30	Keynote II: Dr. Matt Pritchard (Cornell; Earth and Atmospheric Sciences); followed by Q&A	76-Auditorium	IPLER
14:30	Session 4: CGHS overview Mike Sheridan (UB): CGHS Past, Current and Future Activities Don Goralski (UB): The ECLIPSE Campus - A GeoHazard Experimental Field Station for Integrated Research	76-Auditorium	CGHS
15:00	Afternoon coffee break	76-3215	RIT

Day 1:

Wednesday, May 30, 2012 (continued)

<i>Time</i>	<i>Event</i>	<i>Location</i>	<i>Organizer</i>
15:30	Session 5: CGHS research I: mass flow modeling Abani Patra (UB): The Titan2D Modeling environment Eliza Calder/Abani Patra (UB): Modeling & Analysis of Geophysical Massflows	76-Auditorium	CGHS
16:00	Session 6: CGHS Research II: Cyberinfrastructure Jorge Bajo (UB): VHub – A research and risk mitigation platform not only for Earth Systems Scientists Bea Csatho (UB): New approaches for monitoring surface topographic changes and opportunities through the ICESat-2 NASA mission	76-Auditorium	CGHS
16:30	Panel Discussion: The short- and long-term needs of the disaster response community (Brenda Jones, Dan O'Brien, Ron Eguchi, Don McKeown) + Q&A	76-Auditorium	IPLER
17:30	Disaster response open house event:	RIT-76	IPLER
20:00	<ul style="list-style-type: none">• IPLER airborne collection demonstration• Research posters• Industry booths• Multi-media activities		

Day 2:

Thursday, May 31, 2012

<i>Time</i>	<i>Event</i>	<i>Location</i>	<i>Organizer</i>
8:00	Registration	76-Lobby	RIT
8:15	Welcome: Dr. Jan van Aardt (RIT) and Dr. Chris Renschler (UB)	76-Auditorium	IPLER
8:30	Keynote III: Mr. Ron Eguchi (CEO, ImageCat Inc.); followed by Q&A		
9:30	Workshop 1 (session 1): Disaster Imaging (Don McKeown; RIT) - image sourcing, processing, analysis, interpretation	76-2155	IPLER
10:30	Morning coffee break	76-3215	RIT
10:45	Workshop 1 (session 2): Disaster Imaging (Don McKeown; RIT) - image sourcing, processing, analysis, interpretation	76-2155	IPLER
12:30	Lunch break & Poster session: Industry & Research	76-Lobby 76-1155	RIT/ UB
14:00	Keynote IV: Shay Har-Noy (CEO, Tomnod); followed by Q&A	76-Auditorium	CGHS
15:00	Session 7: IPLER disaster response research II Shagan Sah (RIT): A multi-temporal analysis approach for land cover analysis in support of nuclear incident response Paul Romanczyk (RIT): Assessing vegetation structure towards ecosystems resilience	76-2155 TBD	IPLER CGHS
15:30	Coffee break	76-3215	RIT
16:00	Session 8: IPLER collaborative research I Mike Long (RIT): Agent-based modeling for improved disaster response Sumita Mishra (RIT): The iDawg project and disaster response	76-Auditorium	IPLER
16:30	Session 9: IPLER collaborative research II Cindy Ebinger (UoR): Lake Kivu system Brian Tomaszewski (RIT): Visualization and modeling using geospatial disaster response products	76-Auditorium	IPLER
17:00	Wrap-up (15 minutes)	76-Auditorium	IPLER/CGHS
18:00	Dinner		

Day 3:

Friday, June 1, 2012 (Workshop 2 & Field Visits)

<i>Time</i>	<i>Event</i>
7:45	Bus leaves from RIT at 7:45 sharp: Pickup additional people at Buffalo Airport at 9:00 am
9:45	Field Visit I (Chris Renschler, UB): Lower Part of Cattaraugus and Clear Creek Watersheds (IPLER) & Seneca Nation of Indians (SNI) Cattaraugus Territory
10:45	Workshop 2: Flood and Emergency Management Chris Renschler/Graham Hayes (UB): Geospatial modeling with GeoWEPP, ArcSWAT, HEC-RAS – Computer Hands-on and Discussion
12:00	Lunch break at SNI facility Lunch Speaker: Mike Gates (SNI): Reality and Needs of Emergency Response in a rural setting
13:00	Field Visit II (Mike Sheridan, UB): Landslides in the Cattaraugus Creek Watershed
14:15	Field Visit III (Don Goralski, UB): CGHS Experimental Field station (ECLIPSE)
15:00	Bus leaves from ECLIPSE
16:15	Drop off at Buffalo Airport
17:30	Bus Arrives at RIT at 17:30 - End of workshop

Thank you to our sponsors:

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