

STRATUS 2026 Conference General Program Agenda

Registration includes the full conference package presented at the following table.

	Day 1: Monday May 18	Day 2: Tuesday May 19
8:00-8:30	Registration & Breakfast	Registration & Breakfast
8:30-9:00	Welcome, Opening Remarks Conference Co-Chairs: Dr. Emmett Ientilucci, RIT Dr. Bahram Salehi, SUNY-ESF RIT College of Science Dean: Dr. Andre Hudson	Welcome, Opening Remarks Conference Co-Chairs: Dr. Emmett Ientilucci, RIT Dr. Bahram Salehi, SUNY-ESF; RIT CIS Department Director: Jan van Aardt RIT Remote Sensing Associate Director: Joseph Sirianni
9:00-9:30	Keynote: Dr. Steven Thomson National Program Leader, USDA National Institute Food and Agriculture (NIFA)	<i>UAV related Research and Teaching at RIT and SUNY ESF</i>
9:30-10:50	Session M1: ROCX Data Collection and Outcomes M11: An Overview of ROCX 2025 by John Kerekes & Nina Raqueno, RIT M12: Orientation-Dependent Sub-Pixel Target Detection by Performance in Hyperspectral Imagery by Muskan Kingrani and John Kerekes M13: ROCX UXO Experiment: Large-Scale Multi-Platform Hyperspectral Dataset of PFM-1 Anti-Personnel Landmines by Charles Hamesse, Hannes De Meulemeester & Rob Haelterman M14: ROCX 2025: A Multi-Sensor UAV and Ground-Based Experiment for Surface PFM-1 Landmine Detection by Sagar Lekhak & Emmett Ientilucci.	Session T1: UAV for Construction & Building T11: Comparative Evaluation of Uncrewed Aerial Systems (UAS)-Based Bridge Inspection Results Against Routine Engineering Inspection by Samin Mirzaghanbarpour, Saeed Jafari Kang & Reihaneh Samsami T12: Integrating Uncrewed Aerial Systems (UAS)-Based 3D Photogrammetric Modeling and Deep Learning for Bridge Deck Crack Detection: An MDOT Case Study by Samin Mirzaghanbarpour, Sharmin Jahan Badhan & Reihaneh Samsami T13: Combining UAS Photogrammetry and Terrestrial Laser Scans to Create a Full 3D Building Model by William Stiteler, Adam Guadagnoli, Nikki Karpf & Donald Reed T14: UAS-Delivered versus Human-Placed Training Aids for Detection K9s by Katherine Baronowski & Eric Best
10:50-11:20	Coffee Break/Exhibit Hall	Coffee Break/Exhibit Hall
11:20-12:20	Session M2: UAV for Risk Assessment and Management M21: Evaluation of UAS for Landmine and Unexploded Ordnance Detection by Alaura Kanell & Jamey Jacob M22: A compact drone payload to monitor gaseous emission products by Robert Kremens, Emmett Ientilucci & Martin Held M23: UAV-Based 3D Reconstruction and Modeling of Blast-Induced Muck pile Formation by Fei Zhang, Michael Gartley & Emmett Ientilucci	Session T2: UAV Hardware and Sensor T21: Small UAS—Deployable Ultra-Light Time-Domain Electromagnetic Induction Sensor by Max Orman Kollmar, David Lozano, Michele Maxson, Brian Quinn & Fridon Shubitidze T22: A Community Powered, Multi Sensor System for Early Wildfire Detection and Coordinated Response by Daniel Rice, Ekaterina Gnedenko & Roman Rice. T23: Model-Based Hardware-in-the-Loop [HIL] Simulation Architecture for Vision-Based UAV Navigation by Daniel Kaputa and Atharva Patil
12:20-1:00	Lunch/Group Photo/ Networking/ Exhibit Hall	Lunch/Group Photo/Networking/ Exhibit Hall
1:00 - 1:30	Workshop - The Rochester Intelligent Imaging Initiative (RI³)	
1:30-2:50	Session M3: UAV for Vegetation and Forestry M31: AiDroneTree: A Software for Automatic Individual Tree Detection, Inventory, and Biomass Estimation Using UAV Point Cloud by Sina Jarahizadeh & Bahram Salehi M32: Enhancing Individual Tree Biomass Estimation in Dense Forest and Urban Environments Using UAV LiDAR Through Training Data Augmentation by Sina Jarahizadeh & Bahram Salehi M33: Subcanopy object detection by Jan Wasilewski, Jan van Aardt, & Bartosz Krawczyk M34: Surface2Terrain: A Web-Based Tool for Generating Digital Terrain and Canopy Height Models from Drone Imagery by Robert Chancia	UAV Trivia Game-2/ Awards and Closing Remarks Conference Co- Chairs: Dr. Bahram Salehi, SUNY-ESF Dr. Emmett Ientilucci, RIT Student Presentations and UAV Trivia Winners
2:50-3:10	Coffee Break/Exhibit Hall	
3:10-4:30	Session M4: UAV Data Processing M41: Low Costs Tools and Techniques for Characterization of Hyperspectral Imaging Sensors by Tom Chrien, Chris Chovit, Jacob Kuhlman, Evan Gould, Zachary Chrien & Seth Curtin M42: Establishing Baseline Forest Biomass and Carbon Stock Using UAV LiDAR: Evidence from AINU Bhatti Forest, Punjab by Muhammad Muzamil Khan, Shahid Imran and Rabia Munsaf Khan M43: A Quarriable Earth: Semantic Search and Change Detection in Aerial Imagery using Vector Embeddings by Matthew Hanson M44: Unsupervised Characterization of Vertical Atmospheric Structures for Adaptive UAS Sampling by Alejandro Medina, Hernan Moreno, Luis A De la Fuente, Elizabeth Smith & Miguel Velez-Reyes	
4:30-5:00	UAV Trivia Game-1	
5:30-7:00	Happy Hours/Social at Shamrock Inn: 300 Jefferson Rd, Rochester, NY	