

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