



Trajectories and Visions: What could the Catskills look like in 2070?

Day One: **Wednesday, October 26, 2022**

8:00 – 9:00 **Registration in Pavilion Hall**

(Continental Breakfast, Coffee & Tea Service)

9:00 – 9:30 **Welcome & Opening Remarks**

9:30 – 10:30 **Session 1: Old-Growth Catskill Northern Hardwood Forest**

Session Lead: Steve Parisio

Adding the Catskills to the old-growth forest network

Joan Maloof, Old-Growth Forest Network, Salisbury University

Envisioning the natural resiliency of forests from the memories of old-growth trees

Neil Pederson, Harvard Forest

**Tree-ring reconstructions, climate vulnerabilities of water resources,
and connections to people in the Catskills watershed region**

Nicole Davi, William Paterson University and Lamont-Doherty Earth Observatory of Columbia University

10:30 – 10:40 **Break**

10:40 – 12:00 **Session 2 - The Past and Future of Catskills Forests**

Session Lead: Joshua Ginsberg

**20 years of hemlock decline across the Catskills: Findings from a new,
practitioner-friendly remote sensing model**

Andrew Reinman, City University of New York Advanced Science Research Center

Witness trees, fire, and the Northeast tension zone

Melissa Thomas-Van Gundy, USDA Forest Service, Northern Research Station

**Peering into the future: Currents that will shape Catskill forests over the
next 50 years**

Charles Canham, Cary Institute of Ecosystem Studies

**How will the functioning of Catskill forest be affected by multiple interacting
stressors?**

Gary Lovett, Cary Institute of Ecosystem Studies

12:00 – 1:30 Lunch Buffet in Barn

1:30 – 2:50 Session 3: Climate Change Impact on Water Supply

Session Lead: Karen Moore

Identifying trends in climate change indicators for the NYC Water Supply Watershed

Jordan Gass, NYC Department of Environmental Protection

Hydroclimatology of the Catskills: 2070s and beyond

Rakesh Gelda, NYC Department of Environmental Protection

Historical climate change and impacts on Catskill region streamflow

Douglas Burns, U.S. Geological Survey

Carbon, nutrient, and sediment export from NYC watersheds under a changing climate

Rajith Mukundan, NYC Department of Environmental Protection

2:50 – 3:00 Break (Poster Set-up in the Barn)

3:00 – 4:00 Session 4: Contributed Presentations

Session Lead: Chuck Ver Straeten

Surficial geologic mapping in the upper Neversink River subbasin to support estimates of groundwater contributions to streams

Daniel Doctor, U.S. Geological Survey

Reconstructing long term climate changes in the Catskill Mountains with lake sediment from Andes, NY

William D'Andrea, Lamont-Doherty Earth Observatory of Columbia University

i-Tree HydroPlus enables forest cover scenario analysis to plan for cleaner waters & fewer heatwaves

Theodore (Ted) Endreny, SUNY College of Environmental Science and Forestry

4:00 – 4:45 Keynote Address

Andy Hines, University of Houston Foresight Program

A system for scanning and monitoring the future of forests

5:00 – 6:30 Networking Opportunity: Poster Session and Mixer

Barn (Cash bar and appetizers), *Session Lead: Tim Koch*

8:00 Campfire at the Road House

Day Two: Thursday, October 27, 2022

9:00 – 9:05 **Introductory Remarks**

9:05 – 10:25 **Session 5: Environmental Management Success Stories**

Session Lead: Ava Goodale

Connecting wetland science, policy, and protection: Past patterns and future trends in the Catskills

Laurie Machung, NYC Department of Environmental Protection

Invasive species on the horizon: What’s threatening the Catskills?

John Thompson, Catskill Center for Conservation and Development

Upstream/Downstream: Protection of stream networks in the Catskills

Lee Alexander, Catskill Center for Conservation and Development

Evaluating suspended sediment and turbidity reduction from stream restoration projects

Kezhen (Jenny) Wang, Hunter College of the City University of New York

10:25 – 10:40 **Break**

10:40 – 12:00 **Session 6: Catskill Recreation: Trends/Projections**

Session Lead: McCrea Burnham

Outdoor recreation trends in New York State

Laura DiBetta, NYS Department of Environmental Conservation

The Catskill Advisory Group Report

McCrea Burnham, NYS Department of Environmental Conservation

Cycling to the Future

Kevin Smith and Andy Mossey, Woodstock Land Conservancy

Trends in outdoor recreation on New York City Watershed lands

Tom Davidock, NYC Department of Environmental Protection

12:00 – 1:30 **Lunch Buffet in Barn**

1:30-2:50

Session 7: Social Trends, Ecosystem Response, and the Evolution of Environmental Management

Session Lead: Mark Vian

Economic impact from outdoor recreational activities in the Catskills

Brian Zweig, Business Opportunities Management Consulting

Demographic trends in the Catskills

Jan Vink, Cornell University Program on Applied Demographics

Scenic Hudson's solar mapping tool: A land-use planning approach to unite economics and environment

Alex Wolf, Scenic Hudson

VISION 2050: Fulfilling the promise of the Adirondack Park

Julia Goren, Adirondack Mountain Club, and Jackie Bowen, Adirondack Council

2:50 – 3:00

Break

3:00 - 4:20

Session 8: Contributed Presentations

Session Lead: Zion Klos

What could stream management in the Catskills look like in 50 years?

Mark Vian, NYC Department of Environmental Protection

Seeing climate adaptation through an equity lens: Lessons learned from community adaptation to flood risk in Ulster County, NY

Sarah Walker, University of Colorado Boulder

How team science bridges the research-implementation gap in the Catskills region

Ava Goodale, Cary Institute of Ecosystem Studies

Water memories: A Catskills heteroglossia

Karen Rauter, Resident, Town of Halcott

4:20 - 4:30

Closing and Adjourn

4:30 - 6:00

Networking Opportunity - Pavilion Foyer

6:00 – 8:00

Buffet Dinner with Invited Speaker in Pavilion Hall

Lindsey Rustad, USDA Forest Service

Why ice storms aren't cool: The latest research on forest response to these catastrophic events



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Day Three: Friday, October 28, 2022

8:00 – 9:00

Continental Breakfast in Pavilion Hall

Open to Field Trip participants and attendees not registered for the Student Research Symposium

8:00 – 11:00

Lodging Checkout at Valley View House Inn

9:00 – 10:15

Student Research Symposium in Pavilion Hall Loft

Hot Buffet Breakfast

Open to Registrants Only

10:00 – 10:30

Bag Lunch Pickup and Field Trip Assembly at Cafe'

Parking lot of Valley View House Inn & Cafe'

11:30

All Participants Depart the Full Moon Resort Grounds

CERM Conference use of the facility ends and an exclusive wedding party arrives at noon

10:30 – 4:30

Field Trips

Open to Registrants Only

Old Growth Forest Stands

River Restoration and Research

4:30

Conclusion of CERM 2022

Thank you for attending! Fill out a conference evaluation at:
<https://www.surveymonkey.com/r/WPK32Q5>

Conference materials will be posted at: cermconference.org
