



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

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

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

(Continental Breakfast, Coffee & Tea Service)

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

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**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

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**10:30 – 10:40**      **Break**

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**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

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**12:00 – 1:30      Lunch Buffet in Barn**

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**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

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

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**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

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**4:00 – 4:45      Keynote Address**

**Andy Hines**, University of Houston Foresight Program

**A system for scanning and monitoring the future of forests**

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

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

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**8:00              Campfire at the Road House**

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## Day Two: Thursday, October 27, 2022

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**9:00 – 9:05**      **Introductory Remarks**

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**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

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**10:25 – 10:40**      **Break**

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**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

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**12:00 – 1:30**      **Lunch Buffet in Barn**

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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**