

**Dynamics of Forest Growth and Resource Use Symposium**  
**February 22-23, 2018**  
**Clark Hall, University of Virginia**

**THURSDAY FEB 22**

8:00-9:00 – Welcome Coffee and Bagels (Clark Hall 133 – Brown Library Classroom)

9:00-9:40 – (Todd Scanlon) Project Overview and Symposium Logistics (Clark 133)

**Session I – Oral Presentations, Moderator: Jake Malcomb (Clark 133)**  
**20 minute talks, with 10 minutes for questions/discussion**

9:40-10:10 – (Matt Vadebonceour, University of New Hampshire) Review of existing growth and isotope chronologies at Hubbard Brook and Fernow

10:10-10:40 (Matt Lanning, IUPUI) Intensified vegetation water use due to soil calcium leaching under acid deposition

10:40-11:10 (Mary Beth Adams, USFS) An update on the Fernow Watershed Acidification Study and related research

11:10-11:40 (Tim Forrest, Rider University) Exploring the effects of environmental gradients on growth patterns of tree populations at Fernow Experimental Forest

11:40-12:10 (Dan Druckenbrod, Rider University) Past forest dynamics in watersheds at Fernow Experimental Forest and Shenandoah National Park

**12:10-1:30 – Lunch (Clark 133)**

**Session II – Oral Presentations, Moderator: Matt Lanning (Clark 133)**  
**20 minute talks, with 10 minutes for questions/discussion**

1:30-2:00 – (Larry Band, UVA) Hillslope scale forest biodiversity impacts on watershed streamflow regime

2:00-2:30 (Richard Thomas, West Virginia University) Tracing historical stomatal conductance using stable isotopes

2:30-3:00 (Justin Mathias, West Virginia University) Using a multi-proxy approach to explore recent growth increases in red spruce trees in the Central Appalachian Mountains

**3:00-3:30 Break / Informal Discussion (Clark 133)**

3:30-4:30 – UVA Environmental Sciences Department Seminar (Clark 108) Geosciences

4:30-6:00 – Department Social (Odum Room, Clark Hall)

**6:30 – SYMPOSIUM DINNER – TBD**

## **FRIDAY FEB 23**

8:30-9:00 – Breakfast (Odum Room)

### **Session III – Oral Presentations, Moderator: Lixin Wang (Clark 133)**

**20 minute talks, with 10 minutes for questions/discussion**

9:00-9:30 – (Jeff Atkins, Virginia Commonwealth University) The forest and the trees: a look at how ecosystem complexity is shaped by landscape position and disturbance

9:30-10:00 – (Ellen Stuart-Haëntjens, Virginia Commonwealth University) Primary production resistance and resilience to extreme drought across a global precipitation gradient

### **10:00-11:00 Enviroday General Session II or Break (Clark Hall 108) – see Addendum**

11:00-11:30 (Matt Lanning, IUPUI)  $\Delta^{13}\text{C}$  helps identify causes of intensified forest water use in an acidified catchment

11:30-12:00 (Matt Vadebonceour, University of New Hampshire) Height and canopy position artifacts in tree-ring C isotope chronologies

**12:00-12:30 – Lunch (Odum Room, Clark Hall)**

**12:30-2:00 – Enviroday Poster Session – Clark Hall Atrium)**

### **Session IV – Oral Presentations, Enviroday Special Session (Clark Hall 108)**

2:00-2:15 (Yvonne Dinh, UVA) Topographic controls on nitrogen and water, and their effects on tree growth in Shenandoah National Park

2:15-2:30 (Charles Scaife, UVA) Non-stationarity in Threshold Response of Stormflow in Southern Appalachian Headwater Catchments

2:30-2:45 (Jake Malcomb, UVA) Examining acid deposition and tree sensitivity to climate in an Appalachian forest

2:45-3:00 (Katherine Coughlin, UVA) Effect of the emerald ash borer on stream nitrate concentrations in Shenandoah National Park

**3:00-4:00 Project Discussion (Clark 133)**

**4:00-5:00 – Enviroday Keynote Presentation (Dennis Baldocchi, University of California Berkeley) The Physics and Ecology of Mining Carbon Dioxide from the Atmosphere by Plants, Trees and Ecosystems (Clark Hall 108)**

**5:00-7:00 – Enviroday / Symposium Reception (Odum Room, Clark Hall)**

**7:00 - ADJOURN**

**ADDENDUM – Enviroday General Session II Presentations (Clark Hall 108)**

10:00 - 10:15 - Libby Milo: "Developing an Urban Nitrogen Footprint Calculator for the Baltimore Area"

10:15 - 10:30 - Brynn Cook: "A tale of two beetles: specialist and generalist beetles respond differently to pollution-altered plumes of their host plant Cucurbita pepo."

10:30 - 10:45 - Ross Palomaki: "The effect of a solar eclipse on thermally-driven winds in a small valley"

10:45 – 11:00 - Cal Buelo: "Algal blooms and ecosystem metabolism in a managed drinking water reservoir"