



Keynote Speaker

Robert Jackson
Duke University

Dr. Robert B. Jackson

Nicholas Chair and Director of the Center on Global Environmental Change at the Nicholas School of the Environment
Professor, Biology Department, Duke University.

Dr. Jackson's research examines how people affect the earth, including studies of the global carbon and water cycles, biosphere/atmosphere interactions, energy use, and global change. He also directs the Department of Energy-funded National Institute for Climate Change Research for the south-eastern U.S. and co-directed the Climate Change Policy Partnership, working with energy and utility corporations to find practical strategies to combat climate change.

Dr. Jackson has received numerous awards, including the Murray F. Buell Award from the Ecological Society of America, a 1999 Presidential Early Career Award in Science and Engineering from the National Science, and is recognized as a Fellow in the American Geophysical Union. An author of more than 150 peer reviewed publications, he is in the top 0.5% of the most cited scientific researchers.



Continued Education

Certificates of participation will be provided for the following approved organizations:

**Environmental Education Criteria III
(6 hrs)**

**Water Treatment System Operators
(6 hrs) CEU #060146**

**Water Pollution Control System Operators
(6 hrs) CEU #CE08140101**

Conference Partners

Elon University Center For Environmental Studies

Elon University Sustainability Office

Cape Fear River Assembly

City of Burlington, NC

Piedmont Conservation Council

Piedmont Triad Regional Council



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Join us for the 10th Annual
Elon University Fall Environmental Forum

A River Runs Through Us



Stewardship of Our Water

A conference for leaders,
builders, developers, educators
and citizens with a vision for a
sustainable community

Friday, September 30, 2011

9:25—4:15

Moseley Center
McKinnon Hall
Elon University

*Presented by the Elon University
Center for Environmental Studies*

Plenary Presentations: Natural Gas Extraction in North Carolina

Moderator: Alice Bordsen,
Representative in NC General Assembly

9:25

Welcome Address - Dr. Alison Morrison-Shetlar, Dean of the College of Arts and Sciences, Elon University

9:30 – 10:30 Shale gas and its environmental footprint

Dr. Rob Jackson, Duke University
Dr. Jackson will speak on some of his most recent research which has focused on the environmental impacts of gas extraction from shale deposits, a process known as “fracking”. Osborn, SG, A Vengosh, NR Warner, RB Jackson. 2011. [Methane contamination of drinking water accompanying gas-well drilling and hydraulic fracturing. *Proceedings of the National Academy of Sciences, U.S.A.*](#)
108:8172-8176

10:30—11:15 A NC Environmental Health and Community Perspective on Hydraulic Fracturing

Dr. Hope Taylor, Executive Director, Clean Water for North Carolina

11:15—12:00 Potential for natural gas extraction in North Carolina

Dr. Kenneth Taylor, Geological Survey Section Manager, N.C Geological Survey

12:00—12:30

Panel Discussion facilitated by Joy Fields, Piedmont Triad Regional Council of Governments

12:30—1:15

Lunch (for registered participants) features products from the local farming community

Afternoon Sessions: Community Engagement in Stewardship of our water

Facilitator: Michael Layne,
Dept. of Water Resources, Burlington, NC

1:15—2:00 Water in an urban setting

Cyrus Buffum, Executive Director, Water Keeper for Charleston, SC

2:00—2:45 Equitable distribution of ecosystem services in the Triangle Region of North Carolina

Dr. Melissa Mchale, Assistant Professor, Forestry and Environmental Resources, North Carolina State University, Raleigh, NC

2:45—3:30 Piedmont Nutrient Reduction Sourcebook: A guide for managing and reducing nutrients in North Carolina Piedmont waters

Elizabeth Jernigan, Stormwater Outreach and Education Coordinator, Piedmont Triad Regional Council

3:30—4:15 Conservation through Recreation—the story of the Haw River Trail Partnership

Brian Baker, Haw River Trail Coordinator, Alamance County Dept. of Parks and Recreation



http://www.ee.enr.state.nc.us/public/ecoaddress/riverbasins/CapeFear_2011.pdf

Stewardship of Our Water

Forum Registration Fee \$15.00 (includes lunch)
Fee is waived for faculty, students, and academic staff of Elon University

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CEU credits provided for:

Continuing education credits (CEU) Water Treatment Operators = 6 contact hours. Operator # _____

Continuing education credits (CEU) Water Pollution Control Operators = 6 contact hours. Operator # _____

Continuing education credits (CEU) for Environmental Education = 6 contact hours.

Mail to:
Dr. Janet MacFall
Elon University Center for Environmental Studies
CB 2015
Elon, NC 27244

Phone: (336) 278-6202

Fax: 336.278.2227

macfallj@elon.edu

www.elon.edu/agreentomorrow