



## 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**

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 Clean Water. Strong Communities. - How the successful fight for clean water requires the creative mobilization of communities and everyday citizens**

Cyrus Buffum, Executive Director, Waterkeeper 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



## Stewardship of Our Water

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

Name \_\_\_\_\_

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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.

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