

IMPROVING THE PRACTICE OF STREAM RESTORATION

Each year, millions of restoration dollars are being used to return degraded rivers and streams to a more natural condition that it is ecologically productive, aesthetically appealing, physically stable, and valuable from a conservation perspective. Restoration professionals will benefit greatly by joining the discussions with scientists and the field trips this workshop offers.

WORKSHOP REGISTRATION

Reservations can be made online at:

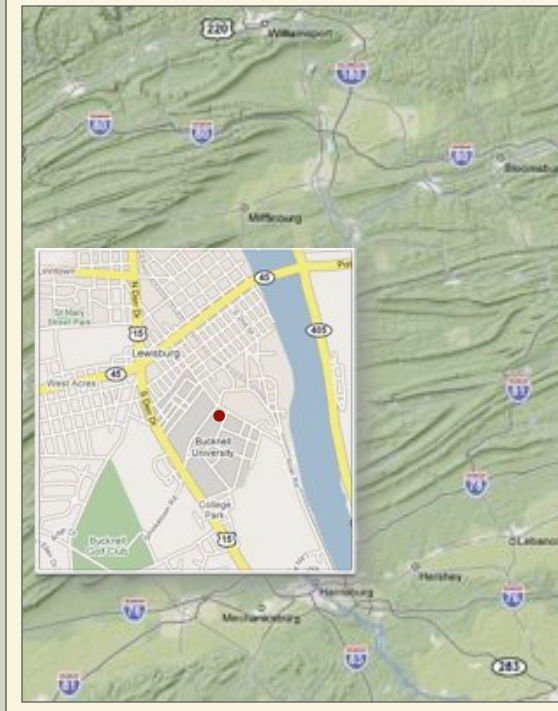
[http://www.departments.bucknell.edu/environmental_center/
2008_stream_restoration_workshop/reservations.html](http://www.departments.bucknell.edu/environmental_center/2008_stream_restoration_workshop/reservations.html)

Payments. Write checks to the amount of \$150 and payable to "Bucknell University". You can provide your check at the workshop or send beforehand to:

KIM DIROCCO
103 Coleman Hall
Bucknell University
Lewisburg, PA 17837
Tel: 570-577-3746
kim.dirocco@bucknell.edu

More Information. For technical details on the workshop sessions and field trips, please contact:

BENJAMIN HAYES
Restoration Workshop Coordinator
Tel: 570-577-1830
benjamin.hayes@bucknell.edu



LOCATION

Dept. of Geology - O' Leary Building, Rm 232,
Bucknell University Lewisburg, PA 17837

COST

\$150 - includes workshop materials, refreshments, lunch, and field trips. Participants are responsible for breakfast, evening meals, and lodging.

LODGING

A number of hotels or bed & breakfasts are located nearby. Visit the website for more information:

[http://www.departments.bucknell.edu/environmental_center/
2008_stream_restoration_workshop.html](http://www.departments.bucknell.edu/environmental_center/2008_stream_restoration_workshop.html)

SUSQUEHANNA RIVER INITIATIVE

BUCKNELL UNIVERSITY ENVIRONMENTAL CENTER
835 FRATERNITY ROAD, LEWISBURG, PENNSYLVANIA 17837
http://www.departments.bucknell.edu/environmental_center



This workshop is sponsored by
Henry Luce Foundation
and
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GEOMORPHIC & ECOLOGICAL FACTORS TO CONSIDER IN STREAM RESTORATION: HOW SCIENCE CAN INFORM THE PRACTICE



May 19-21, 2008

BUCKNELL UNIVERSITY
ENVIRONMENTAL CENTER

LEWISBURG, PENNSYLVANIA



SEEKING WAYS TO IMPROVE THE PRACTICE OF STREAM RESTORATION

Watershed-scale criteria must be considered when assessing the need for stream restoration and when designing and installing structures. Changes in sediment and water yield due to historical land use changes and/or major flood events in upstream portions of the drainage basins affects downstream reaches over very long periods of time, often decades to even centuries.

In Pennsylvania, the situation is further complicated because extensive logging, coal mining, and urbanization over the past 100 years has greatly altered the watersheds. As a result, most channels remain in a protracted phase of morphologic adjustment, making restorative efforts ineffective or require high maintenance.

Geomorphic and Ecological Factors to Consider in Stream Restoration: How Science Can Inform the Practice

MAY 19-21, 2008

BUCKNELL UNIVERSITY, LEWISBURG, PA

The goal of this workshop is to present the science of fluvial geomorphology and aquatic ecology in a way that the interested public or practitioners of stream restoration will be more aware of the complex dynamics of natural rivers and how to incorporate these factors into their decisions.

WORKSHOP LEADERS

The workshop will be led by a team of scientists specializing in fluvial geomorphology and aquatic ecology:

BENJAMIN HAYES, PH.D., *Susquehanna River Coordinator, Bucknell University Environmental Center*

R. CRAIG KOCHER, PH.D., *Department of Geology and Environmental Center, Bucknell University*

MATT MCTAMMANY, PH.D., *Department of Biology, Bucknell University*

DOROTHY MERRITTS, PH.D., *Department of Earth and Environment, Franklin and Marshall College*

JERRY MILLER, PH.D., *Department of Geosciences and Natural Resources Management and Department Institute for Watershed Research and Management, Western Carolina University*

JOHN FIELD, PH.D., *Consulting Geomorphologist and Department of Natural Sciences, University of Maine at Farmington*

WHO SHOULD ATTEND

Environmental scientists, stream restoration consultants, watershed groups, land use planners, fisheries biologists, and regulators.

DESCRIPTION

The workshop will include teaching seminars in the mornings and outdoor field trips in the afternoon, in a format that will foster interactive discussion on various scientific issues associated with stream ecology and habitat restoration and improvement.

SCHEDULE

	MORNING INDOOR SEMINAR	AFTERNOON OUTDOOR FIELD TRIP
MONDAY MAY 19	RIVER DYNAMICS WATERSHED FACTORS	LAND USE IMPACTS ON CHANNELS AND FLOODPLAINS
TUESDAY MAY 20	HISTORICAL FACTORS ECOLOGICAL FACTORS	IMPACTS OF DAMS AND DAM REMOVAL HISTORIC MILL DAMS AND LEGACY SEDIMENTS
WEDNESDAY MAY 21	STREAM RESTORATION SCIENTIFIC PERSPECTIVE INNOVATIVE APPROACHES	ECOLOGICAL AND GEOMORPHIC CONNECTIVITY IN RIVERS VISIT TO LOCAL RESTORATION SITES



MORE INFORMATION

Visit the following website for a detailed schedule, location, lodging, and additional information:

http://www.departments.bucknell.edu/environmental_center/2008_stream_restoration_workshop.html