



EMILY MCCOY, PLA, ASLA

ASSOCIATE PRINCIPAL & DIRECTOR OF INTEGRATIVE RESEARCH

Emily McCoy is the Director of Integrative Research and an Associate Principal at the ecological planning and landscape architectural firm Andropogon Associates. Emily's passions are rooted in both design and understanding of the natural world, which is reflected in her past educational, professional, and research experience in design, ecology, and horticulture. As Director of Integrative Research at Andropogon, Ms. McCoy shares her enthusiasm and love of design and the natural world with her students and strives to contribute to the knowledge base of landscape architecture by exploring the interplay between professional practice and research. She also serves on the Landscape Architecture Foundation's Education Committee and the Advisory Board for the Landscape Architecture Department at NC State University. She is a Registered Landscape Architect in Pennsylvania and North Carolina.

EDUCATION

North Carolina State University, Raleigh, NC 2005-2008

Degree: Master of Landscape Architecture

Certificates and Course Focus: Geographic Information Science, Natural Resource Management

Thesis: Choreographing Urban Sustainability with Communities: How can community building and the improvements of stormwater management systems support one another in low-income, urban neighborhoods?

Appalachian State University, Boone, NC 1999-2002

Degree: Bachelor of Science in Ecology, Evolution and Environmental Biology

Minor and Coursework Focus: Sustainable Development and Landscape Ecology

PROFESSIONAL PRACTICE

Andropogon Associates, Raleigh, NC 2008-present

Director of Integrative Research and Landscape Architect

POD Design, Cary, NC 2007-2008

Landscape Designer

Hayes, Seay, Mattern and Mattern, Inc./ AECOM, Raleigh, NC 2005-2007

Landscape Designer

Riverbend Nursery, Riner, VA 2002-2005

Head Grower/ Director of Production

CURRENT RESEARCH INTERESTS

- Ecosystem service performance
- Long-term monitoring
- Maintenance best practices

RECENT PROJECTS

New England Wild Flower Society, Garden in the Woods, Framingham, MA—Master Plan

Dickinson College, Carlisle, PA – Design Guidelines, Landscape Maintenance and Management Plans

Phipps Conservatory Center for Sustainable Landscapes, Pittsburgh, PA – Construction Administration and Research

Panther Hollow Watershed Restoration, Pittsburgh, PA – Watershed Restoration Planning & Design, Construction Administration

Richardson Olmsted Complex South Lawn, Buffalo, NY – Planting Design

GSA Redevelopment of St. Elizabeths Campus, Washington, DC – Site Inventory & Analysis, GIS Database Management, Planting & Ecological Restoration Plans, Construction Administration

United States Coastguard Headquarters, Washington, DC – Site & Planting Design

The Summit Bechtel Family National Scout Reserve, Mount Hope, WV -- Master Planning, Planting & Site Design

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RESEARCH

Ecosystem Service Performance of Shoemaker Green 2012-present

Role: Research Director and Grant Writer

Research Team: Andropogon Associates and the University of Pennsylvania, Philadelphia, PA

Created and managed research project with the University's Department of Earth and Environmental Science to monitor the stormwater quality, stormwater quantity, vegetation, soil and social performance of the site.

Watershed Education for Communities and Officials (WECO) 2008

Role: Research Assistant - Burnt Mill Creek Watershed Restoration

Research Team: North Carolina State University Cooperative Extension, Raleigh, NC
Authored questionnaire and performed survey of community members to assess the educational effectiveness of watershed restoration efforts made by WECO.

Natural Learning Initiative, Laboratory for the Design of Healthy and Sustainable Communities 2008

Role: Research Assistant - Investigating Parks for Active Recreation for Kids (I-PARK)

Research Team: North Carolina State University Cooperative Extension, Raleigh, NC
Performed behavior mapping and interviews of park users in Durham, NC public parks.

Community Design Initiative, Laboratory for the Design of Healthy and Sustainable Communities 2005-2007

Role: Research Assistant - Water Quality Impacts of Alternative Build-out Scenarios for Brunswick County, NC

Research Team: North Carolina State University Cooperative Extension, Raleigh, NC
Developed alternative subdivision designs for water quality modeling.

Community Design Initiative, Laboratory for the Design of Healthy and Sustainable Communities 2006

Role: Research Assistant - Community Design Charette in Crossnore, NC

Research Team: North Carolina State University Cooperative Extension, Raleigh, NC
Participated in a three-day design charette for the town of Crossnore, NC and compiled post-charette materials into a report.

ASU Department of Biology Greenhouse 1999-2002

Role: Research Assistant and Director of Integrated Pest Management

Research Team: Appalachian State University, Boone, NC

Managed research projects housed in the greenhouse and performed research for integrated pest management practices.

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TEACHING

**North Carolina State University, Department of
Landscape Architecture, Raleigh, NC** **2015**

Lead Instructor - Introduction to Landscape Performance (graduate course)

**Temple University, Department of
Landscape Architecture and Horticulture, Ambler, PA** **2013-2014**

Lead Instructor - Research Design Methods (graduate course)

**Temple University, Department of
Landscape Architecture and Horticulture, Ambler, PA** **2011-2013**

Lead Instructor - Public Lands Design Studio (graduate course)

**Temple University, Department of
Landscape Architecture and Horticulture, Ambler, PA** **2011**

Guest Reviewer - Wetland and Riparian Design Studio

**North Carolina State University,
Department of Landscape Architecture, Raleigh, NC** **2007**

Teaching Assistant - Digital Design Media in Landscape Architecture

Assisted professor with course development and gave workshops in AutoCAD, ArcGIS, SketchUp, Photoshop, Illustrator and InDesign.

**North Carolina State University,
Department of Horticultural Science, Raleigh, NC** **2005**

Lab Instructor- Ornamental Plants

Led labs on the identification, distribution, growth, characteristics, adaptation, and usage of ornamental plants.

PUBLICATIONS

2015 McCoy, E.R. "Wet lab" in *Green Building + Design*, 5 (30), 99-101.

2010 Andropogon Associates. *St. Elizabeths West Campus - landscape preservation, integration and management plan*. Washington, DC: General Services Administration.

2008 Wright, J.D., Perrin, C.A., Hunt, W.F., McCoy, E.R. *Implementation of low impact development retrofits in a low income neighborhood in Wilmington, NC*. ASCE Conference Proceeding Paper, Seattle, WA.

McCoy, E.R. "Choreographing Urban Design with Communities" in *Collective Intelligence, Collaborative Design*. NCSU College of Design. Raleigh, NC.

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TECHNICAL REPORT CONTRIBUTIONS

2008 Camden County Green Industrial Park Feasibility Study

Principle Investigator: UNC Institute for the Environment. Golden LEAF Foundation.

Role: Research Assistant

Restoring the Burnt Mill Creek Watershed through Stormwater Management and Community Development

Principle Investigators: Wright, J.D., Perrin, C.A., Hunt, W.F., Beggs, P., Mallin, M., Burchell, M. NCDENR.

Role: Research Assistant

I-Park (Investigating Parks for Active Recreation for Kids)

Principle Investigators: Robin Moore and Perver Korca Boran. Robert Wood Johnson Foundation - Active Living Research.

Role: Research Assistant

2006 Water Quality Impacts of Alternative Build-Out Scenarios for Brunswick County, NC

Principle Investigators: Jay Tomlinson, Dr. Hugh Devine, Dr. Perver Korca Baran and Rajpreet S. Butalia. NC Dept of Environment and Natural Resources.

Role: Research Assistant

PRESENTATIONS

2015 Moving from Net-Zero to Wet-Positive: a biocentric approach to sustainable water management - ASLA Conference, Chicago, IL

Landscape Performance: Determining What and How to Measure - ASLA Conference, Chicago, IL

Woody plants for Managing Stormwater Green Infrastructure - Cultivate, Columbus, OH

Woody plants for Managing Stormwater Green Infrastructure - NC Green Industry Council Water Symposium

Performance-based Landscapes: A Look into the Design and Monitoring Data of Shoemaker Green at the University of Pennsylvania - PA DE ASLA, Philadelphia, PA

Creating places for people and stormwater with the spaces between: a look at Shoemaker Green, a SITES pilot project - Urban Design Conference, Raleigh, NC

Craft, Research, and Practice: performance-based design in landscape architecture - Lewis Ginter Winter Symposium, Richmond, VA

2014 Performance-based Landscapes: Shoemaker Green - Ecological Landscape Association, Springfield, MA 2014

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Can interstitial, remnant spaces in our cities make a difference? A look at the green infrastructure monitoring findings of Shoemaker Green at the University of Pennsylvania - American Water Resources Association Annual Conference, Tyson's Corner, VA

2013 Help Wanted: a call for trans-disciplinary collaboration in the urban environment - SER World Conference, Madison, WI

(R)evolution: planning for ecological change and resiliency at a public garden - ASLA Conference, Boston, MA

Fire, Water, and Pixels: catalyzing ecological resilience for cultural landscapes - ASLA Conference, Boston, MA

Performance Based Landscapes: A Look into the Design of Shoemaker Green at the University of Pennsylvania - 2013 Villanova University Urban Stormwater Partnership Symposium, Villanova, PA

Landscape Dialects: the language of listening - NCSU Charles Berger Memorial Lecture, Raleigh, NC

AWARDS AND EXHIBITIONS

2015 Earthy Abstraction Exhibition, Fayetteville, NC Arts Council judged exhibition, re-compose

2014 Delaware Valley Green Building Council Groundbreaker Award, Shoemaker Green

2013 DC PA-DE ASLA Merit Award, Analysis & Planning, St. Elizabeth's West Campus Landscape Integration Plan

2010 Conceptual Design Award, I-Park Thanatopolis Exhibition Submission, re-compose

2008 North Carolina State University College of Design Graduate Exhibition, Reinterpreting Tobacco Road

PROFESSIONAL ASSOCIATIONS

Landscape Architecture Foundation Education Committee

North Carolina State University Landscape Architectural Alumni Advisory Board

American Society of Landscape Architects

Ecological Society of America

The American Chestnut Foundation

International Society of Arboriculture

American Water Resources Association

Urban Land Institute

NC Green Building Council

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PROFESSIONAL DEVELOPMENT

2012 Life in the Soil Microscope Course, Rodale Institute

2006 Stream Restoration Workshop. River Course I - Stream Classification and Assessment. North Carolina Stream Restoration Institute. Asheville, NC