

KATRIN SCHOLZ – BARTH

1246 Duncan Place NE, Washington, D.C. 20002
phone: (202) 544-8453 ♦ e-mail: katrin@scholz-barth.com

PROFESSIONAL EXPERIENCE

Lecturer at the University of Pennsylvania. Nationally recognized expert in Green Roof technology and sustainable planning and design for watershed protection. Helped establish green roof technology in the U.S. through education and by demonstrating that green roofs are an integral and functional building element for stormwater control and pollution prevention. Recipient of Green Roof Award in 2003.

Technical engineering background allows to proficiently combine ecologically-sound, energy-efficient, and cost effective planning solutions with conservation efforts.

EDUCATION AND DEGREES

M.S., Civil / Environmental Engineering, University of Rostock, Germany, 1992

B.S., Civil / Environmental Engineering, University of Rostock, Germany

Vocational Training, Professional Worker in Masonry and Bricklaying, Halle, Germany 1984-87

EMPLOYMENT HISTORY

Consultant, Katrin Scholz-Barth Consulting – Washington, D.C. **2003 to present**

Principal. Green roof and low impact development consulting. Grant writing. Lectures.

Director for Sustainable Design, HOK Planning Group – Washington, D.C. **1999 to 2003**

Responsible for green roof business development, marketing and project execution; integration of ecological planning and design to reduce impervious surface area and stormwater runoff while creating multi-functional landscapes that improve urban ecology.

Expertise includes low impact development and watershed protection, environmentally sound planning and smart development, streambank and coastal zone stabilization and innovative stormwater permitting. Work demands a high degree of interaction with policy groups and multi-disciplinary professionals.

Wastewater Engineer, North American Wetland Engineering – St. Paul, MN **1997 to 1999**

Designed constructed wetland systems for treatment of domestic sewage, landfill leachate, stormwater, and industrial wastewater varying in size from 500 gallons per day to 26,000 gpd as a research and development engineer with North American Wetland Engineering in Minnesota. Consulted to developers of residential and commercial developments about on-site wastewater treatment in environmentally sensitive areas combined with best management practices to preserve open space. Delivered technical and marketing presentations to City Councils, Review Boards, Planning and Zoning Commissions, and other regulatory agencies.

Remediation Engineer, Delta Environmental Consultants, Inc. – Forest Lake, MN **1993 to 1997**

Designed bio-remediation systems to clean up contaminated soil and groundwater. Grand Award Winner in the Minnesota Consulting Engineers Council 1997 Engineering Excellence Awards Program for the design of a cascade aerator and a constructed wetland within a complex ground water extraction system treating solid waste landfill leachate.

GREEN ROOF PROJECT EXPERIENCES

U.S. Department of Interior - Washington, D.C.

KATRIN SCHOLZ - BARTH

Page 2 of 5

Feasibility Study administered by the National Renewable Energy Laboratory for a Green Roof retrofit of a 100,000 SF roof area. Completed December 2001.

Human Rights Campaign Headquarter Office - Washington, D.C.

Designed 2,000 SF Green Roof and supervised of installation – first green roof in Washington, D.C.'s Business District. Secured a \$21,000 grant for green roof installation. Completed May 2003.

Montgomery Park Business Center - Baltimore, Maryland

Green Roof Award of Excellence 2003. Designed 30,000 SF Green Roof and lead ecological site planning. Secured a \$92,000 grant for green roof installation. Facilitated and coordinated with engineers, landscape architects, and city planning to incorporate and maximize bio-retention areas on previously 28-acre impervious site. Completed June 2002.

Takoma Park - Washington, D.C.

Lead permitting negotiations with the City to include 700 SF intensive Green Roof into stormwater management plan at mixed-use project. First green roof in the District of Columbia to be permitted as stormwater control. Under construction.

National Park Service - Washington, D.C.

Designed and wrote specifications for 8,300 SF extensive green roof for the Center for Urban Ecology.

Urban Redevelopment – Brooklyn, New York

Designed and administered installation of 1,000 SF flat and 1,200 SF 20-degree sloped extensive green roofs. Completed November 2003.

Earth Conservation Corps - Washington, D.C.

Designed 3,000 SF Green Roof and facilitated ecological site planning. Solicited material donations and coordinated installation of Green Roof. Completed October 2000.

Other Green Roof Projects:

- **Residential**
 - **Pasadena, MD:** 600 SF extensive green roof on straw bale house (porch).
 - **Minneapolis and Forest Lake, MN:** 200 and 300 SF green roofs on garages.
- **Commercial**
 - **Rice Creek Gardens Nursery – Blaine, MN:** 400 SF green roof on a 40 degrees slope.
 - **Long Lake Conservation Center – Palisade, MN:** 100 SF green roof on pump house.

PROJECTS EXPERIENCES

U.S. Air Force Sustainable Facilities Guide

Developed web-based sustainable design guide as a process management tool for Air Force.

NATO Headquarter Competition - Brussels, Belgium

Ecologically site planning.

State University of New York - Buffalo, New York

Concept design for University master plan incorporating ecological site planning and design principles.

Drury University - Springfield, Missouri

Concept design for rainwater collection system and ecological site planning and landscape design.

Villa Erques Eco-Resort - Tenerife, Canary Islands

Concept Design for integrated water conservation and biological wastewater treatment.

KATRIN SCHOLZ - BARTH

Page 3 of 5

U.S. Department of State, New Office Buildings

Abu Dhabi, United Arab Emirates; Nairobi, Kenya; Zagreb, Croatia; Dar es Salaam, Tanzania
Secured constructed wetlands for onsite wastewater treatment in Abu Dhabi. Identified opportunities in sustainable design based on the US Green Building Council's Leadership in Energy and Environmental Design (LEED) rating system, specific to site planning, water conservation, and wastewater treatment.

PUBLICATIONS

"Green Roofs and their Benefits" – Main Essay for *Green Roofs: Ecological Design and Construction*. Earth Pledge Foundation (Schiffer, forthcoming Fall 2004)

Federal Technology Alert "Green Roof Technology". National Renewable Energy Laboratory (Washington, D.C. 2004)

"Green Roofs in the District of Columbia: A Calling, Challenge and Craving," *Potomac International Urban Watershed Management Exchange* (Glynwood Center, New York, US Environmental Protection Agency Office of International Activities, National Park Service - National Capitol Region, May 2003)

"Green Building Roofs for Stormwater Management," *Investing in Natural Capital-2001 National Urban Forest Conference Proceedings* (Washington, D.C. September 2001), 106

"Applying Green Roofs to Schools," *School Construction News* (July/August 2001)

"Green on Top," *Urban Land* (June 2001), 82-87, 96-97

"Stormwater Management from the Top Down," *Environmental Design and Construction*, (Jan/Fe. 2001), 63-69

Assistant-Editor, *The HOK Guidebook to Sustainable Design* (Wiley & Sons, New York, August 2000)

Co-Author: "An Integrated Natural System for Leachate Treatment", Proceedings of the 1997 International Wetlands Symposium, Detroit, Michigan - June 1997

TEACHING EXPERIENCE

University of Pennsylvania – Department of Landscape Architecture

"Ecological Landscape Design for Watershed Protection"

Designed and lectured full Graduate Course - Fall Semester, 2001, 2002, 2003

"Where You Live: Sustainable Alternatives in Housing and Landscape" – 3 Guest lectures.

Philadelphia, PA - Spring Semester, 2001

Georgetown University – Science, Technology and International Affairs, Center for the Environment

"Restoring a Healthy Urban Environment" – Guest Lecture

Washington, D.C. – March, 2003

Virginia Tech University – Washington Alexandria Architecture Center

"Rethinking Master Planning and the Built Environment" – Half day Seminar

Washington, D.C. – November, 2003

Parson School of Design

"Green Roofs: Their Place and Role in Urban Metropolis" – Guest lecture.

New York City, New York - February, 2001

KATRIN SCHOLZ - BARTH

Page 4 of 5

Penn State University - College of Agricultural Services and Urban Gardening
"Discovering Roofs for Urban Gardening & Intelligent Stormwater Management" – Guest lecture.
Philadelphia, Pennsylvania - February, 2000

The Catholic University of America, School of Architecture and Planning
"Sustainable Site Selection and Ecological Water Management" – Guest lecture.
Washington, D.C. - October, 1999

INVITED CONFERENCE PRESENTATIONS (SELECTED)

Airport Design, Planning and Construction Symposium – Presenter
"Green Roofs at Airports: A Contradiction or the Inevitable?"
Denver, Colorado – February 2004

Stormwater Management in Cold Climates – Presenter
"Green Roofs: Feasibility and Practicality for Stormwater Management in Cold Climates"
Portland, Maine – November 2003

Green Roof Seminar, Cleveland Green Building Coalition – Presenter
"Green Roofs Design and Construction"
Cleveland, Ohio – November 2003

Manitoga: Russel Wright Design Center – Presenter
"Green Roofs: Creating Beauty without Destruction" at Workshop: Restoring Russel Wright's Studio
Garrison, New York – February 2003

Potomac International Urban Watershed Management: Lessons Learned – Presenter
"Green Roofs in the District of Columbia: A Calling, Challenge and Craving"
Washington, D.C. – January 2003

Pre-Disaster Mitigation and Remediation Workshop: Living within Nature: Mountains to Sea - Presenter
"Green Roofs: Reducing Peak Runoff Rates and Mitigating Floods"
Roanoke, VA – November 2002

Earth Day Conference: Rethinking the Built Environment – Presenter
"Green Roofs: The 5th Building Façade of the Building Envelope"
New York, NY – May 2001 and 2002

National Council for Science and the Environment Conference- Presenter
"LEEDing Green Planning and Design"
Washington, D.C. – December 2001

Harvard University – Graduate School of Design, Braun Fields and Gray Waters Conference - Presenter
"Green Roofs: Using Rain Water Above Braun Fields"
Cambridge, Massachusetts – November 2001

Mid-Atlantic Governor's Conference on Greenways, Blueways and Green Infrastructure – Presenter
"Green Roof for Green Urban Infrastructure Planning"
Arlington, Virginia – September 2001

2001 National Urban Forest Conference - Presenter
"Green Building Roofs for Stormwater Management"
Washington, D.C. - September 2001

KATRIN SCHOLZ - BARTH

Page 5 of 5

"Green" D.C. – A Low Impact Development Workshop – Presenter
"Rooftop Stormwater Storage & Treatment: Design, Applications, Benefits and Costs"
Washington, D.C. - January 2001

Battery Park City Authority – Building Management Seminar - Presenter
"Incremental Retrofits: How to Go Green"
Battery Park City Authority, New York - January 2001

National Building Museum Buildings for the 21st Century, Smart Design Lecture Series - Presenter
"Green Roofs: Linking Stormwater Management with Energy Conservation and the Urban Ecology"
Washington, D.C. - September 2000

Annual Tributary Team Meeting for Chesapeake Bay - Presenter
"Urban Stormwater Management Using Living Green Roofs "
Baltimore, Maryland - January 2000 and 2001

AWARDS / EXHIBITIONS

Recipient of the *Green Roof Award of Excellence* Extensive Green Roof Retrofit Construction for Montgomery Park Business Center. *Greening Rooftops for Sustainable Communities: The First North American Green Roof Infrastructure Conference, Awards and Trade Show*. Chicago, IL, May 2003.

“Celebrating Women in Design” Exhibition – University of Pennsylvania, March 2003.

Global Green USA Award Winner – Designing a Sustainable and Secure World. Third Annual New York Gala Awards, April 2001.
Award for “*The HOK Guidebook to Sustainable Design.*”

Green Roof R&D Grant – FORECAST Public Artworks, Public Art Affairs 1999. Research and Development (R&D) project “Beauty and the Bees” – a study about Green Roofs and how to express public art through plants, water and landscape.

Grand Award Winner – Minnesota Consulting Engineers Council 1997
Engineering Excellence Awards Program.

Volunteer of the Year – Minnesota Advocates for Human Rights - B.I.A.S. Project, 1997
“Building Immigrant Awareness and Support”.

PROFESSIONAL AFFILIATIONS

- ASTM Green Roof Task Group
- Water and Environment Federation
- U.S. Green Building Council – Water Efficiency Technical Advisory Committee
- Urban Land Institute
- American Society of Civil Engineers
- Regional Steering Committee for the International Urban Watershed Management Exchange Program: a partnership between the National Park Service, National Capitol Region, the U.S. EPA, and Glynwood Center

LEGAL STATUS: Permanent Resident. Green Card.