

KATRIN SCHOLZ – BARTH

Doha, Qatar

phone: (+974) 516 2764 ♦ e-mail: katrin@scholz-barth.com ♦ www.scholz-barth.com

PROFESSIONAL EXPERIENCE

Civil and environmental engineer with seventeen years of experience in sustainable buildings and landscapes design, green campus planning, and green infrastructure to reduce the environmental and carbon footprint. Expertise includes innovative technologies, green roofs and constructed wetlands for biological wastewater treatment, water conservation and energy efficiency. Taught at Harvard University and the University of Pennsylvania. LEED trained.

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, DC and Doha, Qatar 2003 to present

Principal. Sustainable Design Consulting. Green roof and low impact development.

Lecturer at Harvard University and the University of Pennsylvania.

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 to create 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. Work demands a high degree of interaction with policy groups and multi-disciplinary professionals.

Wastewater Engineer, North American Wetland Engineering – Forest Lake, MN 1997 to 1999

Designed constructed wetland systems for treatment of domestic sewage and industrial wastewater as research and development engineer. Consulted developers about economic and environmental benefits of on-site wastewater treatment wetlands. Delivered technical and marketing presentations to City Councils, Review Boards, Planning and Zoning Commissions, and other regulatory agencies.

Remediation Engineer, Delta Environmental Consultants, Inc. – St. Paul, MN 1993 to 1997

Designed bio-remediation systems to clean up soil and groundwater from hydrocarbon spills. 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.

KATRIN SCHOLZ - BARTH

phone: (+974) 516 2764 ♦ e-mail: katrin@scholz-barth.com

Page 2 of 5

PROJECT EXPERIENCES (SELECTED)

American School of Doha, Doha English Speaking School, Doha College – Doha, Qatar

Designed Outdoor Classroom, shade and sensor gardens to facilitate environmental education.

U.S. Department of State, US Embassy – Abu Dhabi, United Arab Emirates

Secured constructed wetlands for onsite wastewater treatment and use of treated effluent for irrigation in Abu Dhabi. Identified opportunities for 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.

Federal Reserve Bank of Richmond Charlotte Office – Charlotte, North Carolina

Assisted Bank with input and alternatives for green roof design and specifications for 80,000 SF on Bank's existing roof. Completed May 2008.

Queens Botanical Garden – Flushing, NY

Specialty Construction Administration for grey and rainwater systems. Completed Fall 2007.

National Institutes of Health – Bethesda, Maryland

Designed and wrote specifications for 20,010 SF (0.5 acre) green roof areas on the new Gateway Visitor Center. Provided green roof specialty construction administration. Completed June 2007.

O'Hare Airport Modernization Project – Chicago, Illinois

Worked with the City of Chicago, Federal Aviation Administration, and airlines to assist with feasibility, design, and installation of 15 acres of green roofs on cargo replacement facilities. 2007.

Montgomery Park Business Center – Baltimore, Maryland

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

Elevation 314, Takoma – 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 permitted to comply with required stormwater regulations. Installed July 2004. Project received AIA Catalyst Award in 2005 and VA Chapter of ASLA Special Commendation for Sustainable Design.

National Park Service – Washington, D.C.

Designed and wrote specifications for 8,300 SF thin-profile green roof for the Center for Urban Ecology. Installed August 2004.

State University of New York – Buffalo, New York

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

Villa Erques Eco-Resort – Tenerife, Canary Islands

Concept Design for integrated water conservation and biological wastewater treatment.

KATRIN SCHOLZ - BARTH

phone: (+974) 516 2764 ♦ e-mail: katrin@scholz-barth.com

Page 3 of 5

PUBLICATIONS

“Green Roof Systems: A Guide to the Planning, Design, and Construction of Building Over Structure”, Susan K. Weiler and Katrin Scholz-Barth. (Release by Wiley and Sons, April 2009)

“Green Roofs in Doha, Qatar and the Middle East” - Contributing Author to “*Enhanced Water-, Energy-, and Waste Management in Arab Urban Ecosystems*”, UNESCO Better Building Guidelines for Qatar. (April 2009)

“Wet and Beautiful: Water Management in Public Gardens” *Public Garden*. (Vol 20, No. 4, 2005), 6-9

“Harvesting Dollars from Green Roofs,” *Urban Land*. (June 2005), 83-87

“From Grey to Green: environmental Benefits of Green Roofs” – Contributing Author for *Green Roofs: Ecological Design and Construction*. Earth Pledge Foundation (Schiffer, 2005)

Federal Technology Alert “Green Roof Technology”. National Renewable Energy Laboratory (Washington, D.C. June 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 to 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

Harvard University Graduate School of Design – Department of Landscape Architecture, Lecturer
"Green Roofs and Ecological Design for Watershed Protection" GSD 6312 – 2006 and 2007.

University of Pennsylvania School of Design – Department of Landscape Architecture, Lecturer
"Ecological Landscape Design for Watershed Protection" LARP 760 – 2001 through 2006.

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

KATRIN SCHOLZ - BARTH

phone: (+974) 516 2764 ♦ e-mail: katrin@scholz-barth.com

Page 4 of 5

Parson School of Design

"Green Roofs: Their Place and Role in Urban Metropolis" – Guest lecture.
New York City, New York - February 2001

INVITED CONFERENCE PRESENTATIONS (SELECTED)

United Nations Model Conference – Expert Debrief of ECOSOC Committee
Georgetown University – School of Foreign Services, Doha, Qatar – February 2009

3rd International Female Student Leadership Conference – Presenter
Qatar University, Doha, Qatar – March 2009

Earth Day 2009 – Keynote Speaker
College of the North Atlantic, Doha, Qatar – March 2009

American Society of Landscape Architects, Central States – Presenter
"Green Roof Technology: Understanding our Changing Landscape"
St. Louis, MO – April 2008

American Public Gardens Association 2007 Annual Conference - Presenter
"Green Roofs: Squeezing out the Most for Public Gardens"
Washington, D.C. – June 2007

US Society for Ecological Economics – 4th Biennial Conference, Pace University - Presenter
"Green Roofs: Relationship between Design Goal, Cost and Payback"
New York, NY – June 2007

3rd Annual Greening Rooftops for Sustainable Communities Conference, Awards and Trade Show
"Lets Cut to the Chase: How to Specify Green Roofs"
Washington, D.C. – May 2005

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

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

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

KATRIN SCHOLZ - BARTH

phone: (+974) 516 2764 ♦ e-mail: katrin@scholz-barth.com

Page 5 of 5

AWARDS / EXHIBITIONS

AIA Catalyst Award in 2005 and VA Chapter of ASLA Special Commendation for Sustainable Design

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.

“GSD Green Roof” Exhibition – Harvard Vision 2020: A Bridge to Campus Sustainability, April 2006. Harvard University. Cambridge, Massachusetts. Graduate School of Design student project GSD 6312.

“Green Roofs” Exhibition – United States Botanic Garden, June 22 – November 6, 2005.
Exhibition to raise awareness and educate residential homeowners about green roofs and their benefits.

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

Initiator and parent in charge of Outdoor Classroom “Urban Learning through Sustainability, Outdoor Play, and Watershed Protection” Tyler Elementary. Design, grant writing, permitting. Wash. DC. 2008.

“Gardening with Dr. John” – TV Show on Channel 10 Fairfax Public Access. June 2007.

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 Green Roof study for public arts.

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

- Sustainable Qatar – President, 2009
- Qatar Green Building Council. 2009
- ASTM E06.71. 07 – Green Roof Task Group
- U.S. Green Building Council – LEED Water Efficiency Technical Advisory Committee
- International Steering Committee: Greening Rooftops for Sustainable Communities Conferences