

**DAMON WEISS, P.E.**

Email: [damonweiss@ethoscollaborative.com](mailto:damonweiss@ethoscollaborative.com)

#### EDUCATION

- M.S. Advanced Infrastructure Systems, Carnegie Mellon University, 2008
- B.S. Civil Engineering University of Virginia, 1997

#### PROFESSIONAL REGISTRATION AND CERTIFICATIONS

- Registered Professional Engineer, PA, 2004
- Registered Professional Engineer, WV, 2009
- Certified Professional in Storm Water Quality (CPSWQ), 2008, inactive
- Certified Professional in Erosion and Sedimentation Control (CPESC), 2007, inactive

#### LEADERSHIP POSITIONS

- Allegheny Land Trust, Board of Directors, Since 2010  
Board Secretary, Since 2011
- Pennsylvania Environmental Council / 3RWW, Storm Water Advisory Panel Member, 2007
- Inter-Municipal Environmental Forum (IMEF), Member, 2009
- Green Building Alliance, Education Committee Member, 2007
- Pennoni GIS Expert Team, Founding Member, 2009

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers, 2002
- Environmental and Water Resources Institute (EWRI), 2004
- American Society of Highway Engineers, 2005

#### ON THE WEB

LinkedIn <http://www.linkedin.com/in/damonweiss>

#### REFERENCES

Professional, academic and personal references available upon request.

#### PROFILE

Over his seventeen year career as a civil engineer, Damon Weiss has developed both depth and breadth of expertise in resilient site design, water resources engineering, and infrastructure management. His water resources experience includes drainage and storm water management design, green infrastructure planning, H&H modeling of floodplains, bridges and culverts, environmental permitting and GIS-based watershed assessments and planning. Damon has also been very involved as an outspoken voice and leader on water resources issues throughout Southwest Pennsylvania, with long standing involvement in the Green Infrastructure Network and various other water related advisory group. Damon is Board member and Secretary for Allegheny Land Trust, a non-profit organization dedicated to preserving high-quality natural land across the Southwest Pennsylvania region, chairing the Urban Greening Committee.

#### SUMMARY OF EMPLOYMENT HISTORY

Principal, Ethos Collaborative  
Pittsburgh, PA, February 2015 to Present

Principal, Urban Rain Studio, LLC  
Pittsburgh, PA, January 2014 to Present

Project Manager / Senior Civil Engineer, AE Works Ltd  
Pittsburgh, PA, February 2013 to December 2013

Project Engineer, Pennoni Associates, Inc.  
Pittsburgh, PA, Transportation/Site-Civil, July 2005 to February 2013  
Doylestown, PA, Municipal, September 2002 to July 2005

Civil/Structural Engineer and Software Developer, Self-Employed  
Pittsburgh, PA, May 2001 to September 2002

Structural Engineer, SSI Services, Inc.  
Coraopolis, PA, February 2000 to May 2001

Structural Engineer, Haynes Whaley Associates, Inc.  
Reston, VA, September 1997 to February 2000

#### RELATED SKILLS – ENGINEERING AND PROJECT MANAGEMENT

Engineering Software – Hydrology: ArcGIS, Pond-Pack, StormCAD, SewerCAD, WaterCAD, Hydraflow Hydrographs, VTPSUHM, HEC-RAS, HEC-GeoRAS, HEC-HMS, PSU-IV

**LEADERSHIP INITIATIVES, PRESENTATIONS, AND PUBLIC SPEAKING**

**Pittsburgh Park Conservancy, Guest Speaker**

Presentation, "Workshop on Storm Water Modeling Approaches"

<http://www.slideshare.net/damonweiss/workshop-on-storm-water-modeling-approaches>

**REPRESENTATIVE PROJECTS – WATER RESOURCES, GIS AND PLANNING, COMMUNITY OUTREACH AND EDUCATION**

**Rosedale Runoff Reduction Project Nine Mile Run Watershed Association, Pittsburgh, Allegheny County, PA**

Worked closely with the watershed association staff and Board to provide grant support and design of three (3) urban high-performance green infrastructure installations in the Homewood neighborhood of Pittsburgh. Responsibilities includes coordination with the client and design team, consisting of civil engineering, landscape architecture and urban planning, schematic design of the proposed rain gardens, porous pavement sidewalks and stormwater streetscapes, preliminary construction cost estimating, and coordination of graphical renderings.

**Southside Green Design Charrette, Pittsburgh, Allegheny County, PA**

As a volunteer of the Green Infrastructure Network, assisted with the planning and implementation of the Southside Green Infrastructure Design Charrette, in April 2014. The three-day event brought together the region's most creative design and environmental professionals to design a green link along 21st St, a 12-block corridor that connects South Side Park to the Three Rivers Heritage Trail along the Mon. The goal of the charrette was to create a demonstration district of green infrastructure and green street strategies that can reliably remove stormwater from the region's overburdened sewer system, improve transportation corridors for all users, and serve as a template for green streets and community green space in Pittsburgh neighborhoods. Design professionals included landscape architects, engineers, planners, architects, ecologists, artists, and community members for the Thursday evening to Saturday evening event. The event was sponsored by over twenty local businesses and organizations. Responsible for planning, website design, event facilitations, presentations and fundraising.

**Urban Waters API, Allegheny County and surrounding areas, PA**

In partnership with SEEDS, University of Pittsburgh and CEC Inc., this project included the development of a grant proposal to the Allegheny County Conservation District to spearhead a new regional data collection and sharing initiative, aimed at pulling together water and green infrastructure data stakeholders and encouraging them to share data with one another through a common database interface. Stakeholders include Carnegie Mellon University, University of Pittsburgh, Chatham University, ALCOSAN, PWSA, and various watershed associations, water data research centers, and similar non-profits.

**Residential Passive House, Ligonier, Westmoreland County, PA**

This exciting project involves the development of a custom-designed residential property, located on a pristine green field site in Ligonier Township, Westmoreland County Pennsylvania. To the maximum extent possible, the design will include sustainable site and building design practices, with the intention of creating a model for Net Zero Energy and Net Zero Water, in residential construction. The home will be designed using Passive House technology – a rigorous, voluntary standard for energy efficiency. It will be heated by geothermal energy and receive electrical power from solar photovoltaic cells, located on the roof. The roof will also be designed to provide rainwater harvesting, treated to potable water standards. Sewage from the home will be treated using an innovative constructed wetland system, with drip irrigation used to water the native landscape. Stormwater runoff will likewise be utilized onsite, integrated into the natural landscape in the form of rain gardens, porous pavers, a green roof carport and similar green infrastructure measures. These facilities will be designed to promote water quality and groundwater recharge, while providing a natural landscaping aesthetic to the homeowners.

**Porous Pavement Parking Lot and Green Infrastructure at Scottdale Borough, Westmoreland County, PA**

This project consists of the construction of a porous asphalt pavement parking lot and integrated parking island rain garden, as a retrofit to an existing parking lot. This project is the product of a Growing Greener grant obtained Jacobs Creek Watershed Associate, in cooperation with Scottdale Borough. Responsibilities as civil engineering lead include utility design and coordination, drainage and storm water management design and E&S / NPDES permitting. Storm water management design includes the rain garden and porous pavement system with subsurface infiltration beds.