

# Micro-Computing Advancements in Environmental Monitoring

PRESS Jordan<sup>1</sup> and MORIN Tatiana<sup>2</sup>

<sup>1</sup>Atlas Scientific LLC

<sup>2</sup>New York City Soil and Water Conservation District

*The Sustainable Stormwater Management Plan 2008*, released by the Mayor's Office of Long Term Planning and Sustainability, has promoted the implementation of stormwater BMP (Best Management Practice) pilots. With this launch of implementation emerges the need to monitor and assess the design and performance standards of these BMPs. This has produced the fertile environment for Atlas Scientific to engage in the research and development that will bring modern computing technology into the world of environmental monitoring, satisfying the growing demands of the environmental science industry.

Current available equipment is not practical for today's large-scale and ambitious environmental monitoring projects. Thus the goal of this research and development has been to create customized equipment that directly suits monitoring needs while remaining flexible. The advantages of such equipment allows the user to manage simple and complex monitoring programs, large amounts of data, produce high resolution data and receive data remotely while maintaining quality assurance. The Soil Moisture Sensors, the W-4 Multi-Parameter Water Quality Meter and the Universal Data Logger are some of the products of this modern innovation that are being used today by the NYC Department of Parks and Recreation, New York University and eDesign Dynamics in research and monitoring. By participating in NYC's pilot projects, the development and improvement of this equipment is a direct result of ground experiments. This equipment has the potential of providing solutions to the limitations of current monitoring practices.

Keywords: Atlas Scientific, monitoring, sensors

Topic: C. Urban soils and ecosystem services

Sub-topic: C3. Urban soils and hydrology

Presentation type: Poster

Information of corresponding author

Full name: Jordan Press

Organization: Atlas Scientific LLC

Mailing address: 25 Summit Road, Chestnut Ridge, NY, 10977 USA

Tel.: 917-399-6961

Email: [jpress@atlas-scientific.com](mailto:jpress@atlas-scientific.com)