PROACTIVE WORKSHOP PROPOSAL

TITLE - Low Impact Development: A New Comprehensive Technological Solution to Urban Stormwater Management and Wet Weather Flow Control.

PURPOSE - This workshop will provide a thorough overview of the new low-impact development (LID) objectives, economic / environmental benefits, design principles and management practices. The course will introduce the innovative LID principles and practices for protection and restoration of watershed hydrology, the physical and biological integrity of receiving waters and nonpoint pollution control. Attendees will be introduce to a new perspective in urban stormwater management and a practical understanding of how to apply this powerful new technological solution for watershed and water resources protection objectives. *Highligts* - The course will demonstrate how to develop land and maintain the predevelopment hydrologic regime by using new stormwater techniques to create a hydrologically functional landscape. *Materials* – Attendees will receive copies of the "Low Impact Design Manual" and handouts on public education, bioretention and presentation materials. *Contex*t – LID is a more environmentally and economically sustainable technology for the protection of local receiving waters and the Chesapeake Bay. The effectiveness, economic sustainability and applicability of conventional end-of-pipe stormwater BMP technology to achieve essential hydrologic, water quality and aquatic habitat protection objectives have come under serious question. To achieve dramatic improvements (efficiency, affordability and sustainability) in urban runoff management and restoration of watershed functions it will be necessary to fundamentally rethink current approaches and radically redesign and reengineer urban management technology. LID is a fundamental change in watershed management technology that is less costly, more effective and more economically sustainable than conventional approaches.

WHO SHOULD ATTEND - This new technology involves multiple disciplines and has far reaching impacts in urban stormwater management, land use planning, water resources protection, site planning / design, best management practices, building requirements and construction and maintenance of stormwater infrastructure. LID will be of interest to local, state and federal government administrators and regulators; developers, builders, contractors; land use / development planners, civil / environmental engineers, landscape architects; environmental professionals / consultants; environmentalists and interested citizens.

LEARNING OBJECTIVES - Course participants can expect to achieve an understand of the economic, environmental and watershed protection limitations of conventional stormwater management and environmental mitigation technology. Understand the new paradigms, principles and practices of LID watershed management technology and public participation in pollution prevention. Understand the application of this new technology to meet the requirements and objectives of federal and state stormwater regulations and retrofitting existing urban to protect receiving waters. Know where to get more specific information about LID planning and design criteria.

FORMAT - A one / two day lecture course presented primarily with instructional and diagrammatic slides, and handouts. Handouts will include outlines of slides and overheads and papers on various aspects of LID technology. Open discussion and questions will be encouraged throughout the session.

ESTIMATED COST - For a One day course including continental breakfast, lunch, facility, materials and afternoon refreshments approximately $3000

COURSE OUTLINE - (Introduction) I. Limitations of Conventional Stormwater Management; II. Overview of LID Philosophy, Principles and Practices; III. LID Hydrologic Analysis; IV. LID Site Planning; V. LID Site Design and Management Practices; VI. LID Public Participation and Pollution Prevention; VII. Economic / Environmental Benefits of LID – Case Studies; VII. New Technology and Roadblocks to Implementation.

INSTRUCTOR - Larry S. Coffman, Associate Director of Prince George's County, Maryland's Department of Environmental Resources. He has managed Prince George's County's stormwater management and water resources protection programs for the past 20 years. Prince George's County is on the national vanguard of research and development in innovative stormwater management technology and watershed protection programs. He is the architect of the LID technology and the pioneer of "Bioretention" an innovative best management practice. He has authored numerous papers on stormwater management and has extensively lectured nationally on stormwater management techniques and programs.