

## **Authors Sought for Update to Joint WEF/ASCE/EWRI Manual of Practice for Design of Urban Runoff Controls**

The Water Environment Federation's Technical Practice Committee is looking for individuals willing to serve as authors and reviewers in the effort to develop a Manual of Practice (MOP) to be titled *Design of Urban Runoff Controls*, which will be an update to the manual originally co-published with the American Society of Civil Engineers in 1998 as *Urban Runoff Quality Management*. The current manual was recently reviewed and comments received indicate that it is now in need of revision. The effort to update the manual is being led by Dan Medina of CH2M HILL, and Christine Rohrer of Colorado State University, who will serve as Co-Chairs of the Task Force of authors and reviewers to undertake the development of the MOP. The MOP will again be a joint publication by ASCE and WEF.

Authors will be responsible for preparing detailed chapter outlines according to the proposed audience, purpose, and scope of the manual. Authors will also be responsible for preparing chapters for the publication and addressing or incorporating all technical review comments received. Authors must follow the publication development process outlined in the Technical Practice Committee Procedures Manual and meet all deadlines to ensure that the manual is developed on a 20-month schedule. Reviewers will be responsible for providing written comments at the outline and draft stages according to the development schedule.

The following is the outline of the MOP:

- 1) **Introduction** – Purpose of the manual, audience, brief description of chapters.
- 2) **Impacts of Stormwater on Receiving Waters** - Overview on how urban development affects urban stream hydrology, geomorphology, water quality and aquatic ecology, and the need to integrate these four areas into stormwater controls.
- 3) **Municipal Stormwater Management Programs** – Chapter aimed at municipal stormwater managers. Guidance on the need for stormwater controls, watershed approaches and drivers; expected outcomes, resource needs. Review of common sizing criteria in municipal regulations and relationship to mitigation of stormwater impacts. Components of successful stormwater management programs. Funding mechanisms.
- 4) **Selection of Best Management Practices for Stormwater Control** - Inventory of BMP types and their intended application. Selection criteria: physical, performance-related, environmental, societal, permit-related, and others. Advantages and disadvantages.

- 5) **BMP Design** - Design guidance for BMPs taking a unit processes approach and applied to conventional as well as Low Impact Development (LID) approaches for new development and retrofits.
- 6) **Cost and Maintenance of Stormwater Facilities** - Maintenance needs for BMPs. Protocol for estimating whole life costs of runoff control facilities.
- 7) **Performance Assessment** – Methods to evaluate performance of BMPs: what to measure, when to measure, where to measure. Statistical analyses needed for reliable performance assessment.
- 8) **Analytical Tools for BMP Simulation** - Survey of analytical tools available to assist with urban runoff management planning and design. Summary of capabilities and limitations of each tool.

If you are interested in participating as an author or reviewer and will be able to work closely with other WEF volunteers, the Task Force Co-Chairs, and WEF staff and dedicate your expertise and time to ensuring that a quality manual is developed according to the 20-month publication development schedule, please contact WEF's Technical Publications Manager, Lorna Ernst, with a brief resume at [lernst@wef.org](mailto:lernst@wef.org) or FAX 703-836-1794 (please indicate whether you are interested in serving as an author or reviewer; authors should also indicate in which chapter they are interested).