International Low Impact Development Technology Conference 2020

Setting the Vision for the Next 20 Years

Proceedings of the International Low Impact Development Conference 2020

Bethesda, Maryland, USA 20 – 24 July 2020

Editor:

Neil Weinstein

ISBN: 978-1-7138-1506-8

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2020) by American Society of Civil Engineers All rights reserved.

Printed with permission by Curran Associates, Inc. (2020)

For permission requests, please contact American Society of Civil Engineers at the address below.

American Society of Civil Engineers 1801 Alexander Bell Drive Reston, VA 20191 USA

Phone: (800) 548-2723 Fax: (703) 295-6333

www.asce.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400

Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

Contents

to Facilitate Stormwater Resilience for Industrial Areas in Auckland
A Study on the Detention Tank Substitution Model for LID Facilities15 Li Jiang Yun, Lin Jin Chang, and Li Yao
Study on Flood Control in Multi-LID Model Based on SWMM
Evaluation Criteria of LID Performance Based on Detention Tank Model44 Jiangyun Li, Yao Li, and Yingling Jiang
RainScapes: Incentives Matter and Other Lessons Learned from 10 Years of Voluntary Retrofits on Private Property
NYCDEP Green Infrastructure
Regulation Capacity Evaluation of the Drainage System with Low Impact Development at a Watershed Scale in China
Early Treatment of Pervious Concrete with Carbonate Laden Waters85 Nara Almeida and Liv Haselbach
Underground Aggregate Stormwater Infiltration Bed Case Study
Low Impact Development Testbed to Study the Performance of Enhanced Bioretention Systems
Stressors, Ecosystem Services, and Restoration Strategies for a Central New Mexico Arroyo
Using a Complex TMDL Modeling System to Evaluate Water Quality Improvement in Receiving Waters Due to Sponge City Construction of Zhenjiang City, China

Establishment of Long-Term O&M Program and Sustainable Funding Stream for China "Sponge City" Initiative
Analyzing the Performance of a Rain Garden over 15 Years: How Predictable Is the Rain Garden's Response?
Ten Years of Campus LID Research and Practice in Tsinghua University163 Hailong Liu, Huaiyu Zhou, and Yi-Chang Chang
AI Application on LID Stormwater Management and Urban Planning in Guam, USA, and Southern China, PRC
Design and Evaluation of Rainwater Harvesting System in an Urban Residential Complex in Johannesburg
Evaluating Pollutant Concentrations in Urban Streams