EBC Dam Management Program
Climate Change and the Critical Role of Dams in Flood Control

Thursday, November 5, 2015
Massachusetts Division of Fisheries and Wildlife
Westborough, Massachusetts

AGENDA

8:30 a.m. Welcome: Chad Cox, P.E., Chair, EBC Dam Management Committee
Civil Engineer/Principal, GZA GeoEnvironmental, Inc.

Introduction: Chris Haker, P.E., Program Co-Chair, Principal Engineer, Tighe & Bond
Matt Bellisle, P.E., Program Co-Chair and Moderator
Senior Vice President, Pare Corporation

8:45 a.m. Climate Impacts on Design Approach – A Consultants and Owners Review
• Chris Haker, P.E., Principal Engineer, Tighe & Bond
• Matt Bellisle, P.E., Senior Vice President, Pare Corporation

9:05 a.m. A Hydrologists View of Changing Precipitation Impacts
• Sarah Widing, Water Resources Engineer, VHB

9:30 a.m. NRCS and Flood Control
• Jim Lyons, Civil Engineer, Natural Resources Conservation Service
U.S. Department of Agriculture

9:50 a.m. U.S. Army Corps of Engineers Program Discussion
• Scott C. Michalak, P.E., Chief, Geotechnical/Water Resources Branch
U.S. Army Corps of Engineers – New England District

10:10 a.m. Networking Break

10:40 a.m. Panel Discussion
Moderator: Matt Bellisle, Pare Corporation
Panel Members:
• Chris Haker, Tighe & Bond
• Jim Lyons, Natural Resources Conservation Service
• Scott Michalak, U.S. Army Corps of Engineers
• Sarah Widing, VHB

11:30 a.m. Adjourn
Christopher D. Haker, P.E., Principal Engineer
Tighe & Bond
446 Main Street, 13th Floor, Worcester, MA 01608
508.320.3168 | cdhaker@tighebond.com

Christopher D. Haker, P.E. heads the Dam Engineering Group at Tighe & Bond. Chris has 20 years of experience in dam and geotechnical engineering. He holds a BS degree in Civil Engineering from Northeastern University and an MS degree in Civil Engineering from the Georgia Institute and Technology. He is a registered professional engineer in Massachusetts, New Hampshire, and Connecticut. He has been the project manager and lead designer for multiple concrete, stone masonry, and earth embankment dam rehabilitation projects.

Matthew Bellisle P.E., Senior Vice President
Pare Corporation
10 Lincoln Road, Foxboro, MA 02035
508.543.1755 | mbellisle@parecorp.com

Mr. Bellisle is a Senior Vice President with the civil engineering firm Pare Corporation (PARE). In this capacity, Mr. Bellisle leads PARE’s Geotechnical Division in the completion of the firm’s dam, geotechnical and waterfront engineering projects, which include inspection, instrumentation, evaluation, and design, as well as soils evaluations and foundation designs. Mr. Bellisle’s experience spans more than 23 years and includes more than 750 dam inspections and evaluations, the design of 2 new dams, and the repair of more than 75 dams throughout New England. Mr. Bellisle has provided presentations to numerous public agencies and has provided training sessions for other engineering professionals through FEMA, RIEMA, RISPE, NEWWA, MADCR and MADCR DWP.

Mr. Bellisle received a Bachelor of Science in Civil and Environmental Engineering and a Masters of Science in Civil Engineering from the University of Rhode Island and is a registered professional engineer in Massachusetts, Rhode Island, New Hampshire and New York.

James Lyons, Civil Engineer, Natural Resources Conservation Service
U.S. Department of Agriculture
52 Boyden Road, Suite 100, Holden, MA 01520
508.829.4477 x117 | Jim.Lyons@ma.usda.gov

Mr. Lyons is a civil engineer with NRCS. He is responsible for managing the NRCS-Massachusetts dam rehabilitation program. Mr. Lyons has 20 years of geotechnical and civil engineering experience in both the public and private sector. He holds a BS degree in Civil Engineering from Lehigh University and a BS degree in Geology from Lehigh University. He is a registered professional engineer in Pennsylvania.
Scott C. Michalak, P.E., Chief, Geotechnical/Water Resources Branch, Levee Safety Officer
U.S. Army Corps of Engineers – New England District
696 Virginia Road, Concord, Massachusetts 01742
978.318.8350 | scott.c.michalak@usace.army.mil

Mr. Scott Michalak joined the New England District in July 2000 as a Civil Engineer in the Geotechnical Engineering Section. In the section Mr. Michalak was a geotechnical engineer responsible for performing geotechnical analyses for planning, civil works, and HTRW projects. In 2006, Mr. Michalak became the District’s Levee Safety Program Manager (LSPM) when the Levee Safety Program began. As the District LSPM, his efforts led to a number of key and critical revisions within the North Atlantic region that influenced Corps national policy and procedures. Currently, Mr. Michalak is the Chief of the Geotechnical/Water Resources Branch which includes the Dam and Levee Safety Programs, Reservoir regulation Section, Geotechnical Engineering Section, and Hydraulics & Hydrology Section. Mr. Michalak serves as the District Levee Safety Officer and continues to be an active participant nationally within the Dam and Levee Safety Community. He has also served as the District Dam Safety Officer from August 2012 through April 2014.

Mr. Michalak attended the University of Massachusetts, Amherst where he earned his Bachelor of Science degree in Civil Engineering (Cum Laude) in May 1992 and his Master’s of Science degree in Civil Engineering in February 1995. Currently he is enrolled in a Graduate Certificate Program in Risk Management at the Notre Dame of Maryland University. He is a Registered Professional Engineer in the state of Vermont. Mr. Michalak is a member of: the American Society of Civil Engineers; the Society of American Military Engineers; Association of State Dam Safety Officials; and the Massachusetts Association of Conservation Commissioners (MACC). Mr. Michalak continues to perform community service in his hometown as a Commissioner with the town’s Conservation Commission since 2001 and the town’s Earth Removal Board 2001-2015.

Sarah Widing, P.E., Water Resources Engineer
VHB
Union Station, Suite 219, 2 Washington Square, Worcester, MA 01604
508.513.2720 | SWiding@VHB.com

Ms. Widing has eleven years of professional experience as a project manager and project engineer in water resources engineering including hydrologic and hydraulic design and modeling, stormwater and surface water management, stormwater permitting, and flood control and drainage design. She specializes in hydrologic and hydraulic studies for letters of map revision for federal, state, local, and private clients. She develops specialized applications in GIS and other software to automate and visualize the inputs and outputs of various hydrologic and hydraulic models. Her experience includes Phase I and Phase II dam safety evaluations, including hydrologic analyses, hydraulic analyses, and rehabilitation design.