

7:30 - 8:15 AM | REGISTRATION AND BREAKFAST

8:15 - 10:00 AM

Welcome

Adam Paul, Mayor, City of Lakewood and MHFD Board Chair

State of the District

Ken MacKenzie, MHFD Executive Director

Never Underestimate What can be Accomplished in 10 Years

Project Partners is much more than an alternative project delivery option. It is a cultural mindset. This presentation will discuss what it means to be a partner, what we've learned over the past decade, and where we are headed together over the next decade. *(Laura Kroeger, MHFD)*

Lifetime Achievement in Construction Award Recipient

Dick Larson

Community-Based Science and Engineering: Collaboration 101

A discussion on changing our mindsets regarding how we work together in order to improve overall community knowledge and project outcomes. *(Jeffrey Sickles, Ingenuity Engineering Solutions)*

Collaborative Intelligence – How to Become Smarter Together

As the saying goes, "It takes a village". This has never been truer for us now that we are designing High-Functioning, Lower Maintenance Streams (HFLMS). This panel discussion will dive into the good, the bad, and the ugly of working as a multi-disciplined team and offer recommendations to achieve collaborative intelligence. *(Kurt Bauer, MHFD, and panelists: Moneka Worah, ERO Resources; Troy Thompson, ERC; Derek Rowland, Concrete Express; Mark Taylor, Architerra Group; Deb Ohlinger, Olsson)*

10:00 - 10:30 AM | MORNING BREAK

MHFD.org

**Protecting people, property,
and our environment
through preservation,
mitigation, and education.**

10:30 AM - 12:00 PM

▶ Video Highlight: Dahlia Outfall

This complicated retrofit project in unincorporated Adams County involved crossing the O'Brian Canal and digging through a landfill to provide badly needed flood relief to neighboring homes and businesses.

MHFD Education and Outreach

In 2020, over 160 people responded to our education and outreach survey. We will share what we heard along with our initiatives moving forward. *(Holly Piza, MHFD)*

Construction Lessons from the Field

A virtual field trip with Jeff Fisher of a maintenance project on Willow Creek.

Announcing: MHFD Confluence

This is MHFD's new web-based platform for data analysis, GIS mapping, project management, master plan and stream assessment deliverables and more. Welcome to MHFD 2.0! *(Jon Villines, MHFD)*

Like a Bomb Went Off – What a Disintegrated Stream Taught Us About Stormwater Management

The Marcy Gulch watershed in Highlands Ranch developed rapidly in the 1990s. It was assumed at the time that on-site water quality and detention would mitigate any impacts to the receiving stream. Observations on Marcy Gulch provide a lesson in hydromodification, Lane's Balance, and the District's Four-Step Process to Stormwater Management. *(Dave Skuodas, MHFD)*

USDCM Volume 3, Chapter 4 Updates – Let's Get Curious

MHFD began updating Volume 3 Chapter 4 (V3C4) over a year ago through a large stakeholder process. What are some of the changes that will be made to V3C4 based on this outreach effort and what can the stakeholders and communities expect next? *(Morgan Lynch, MHFD)*

Reflecting on Land Development

We have been partnering with local governments building projects for over 50 years. This collaboration has resulted in many spectacular projects that not only serve the community but also the environment. In recent years, MHFD has expanded this partnership to include our land development friends. *(Bao Chongtoua, MHFD)*

12:00 - 1:00 PM | LUNCH

1:00 - 2:35 PM

► **Video Highlight: McIntyre Gulch**

This video showcases a maintenance restoration project on McIntyre Gulch in the City of Lakewood, where a family literally lost part of their backyard.

Murphy Robinson, Deputy Mayor of Denver and MHFD Board Member Introduces the Five Points Youth Ambassadors

Should we rethink how we do public outreach for construction projects? This presentation is about the Five Points Youth Ambassadors (FPYA) and how they were successful in engaging their community to restore a local park. The FPYA will share what they have learned regarding community outreach and what projects they are working on within the District.

Lessons Learned with Underpasses

MHFD recently completed two maintenance projects for the City of Boulder to reduce the impact from flooding streams on pedestrian underpasses. We will discuss the problems that these underpasses experienced and the corrective action taken. *(Jim Watt, MHFD)*

Risk Rating 2.0 – What You Need to Know

Risk Rating 2.0 goes into effect October 2021 and will be the biggest change to the NFIP rating structure since the program's inception over 50 years ago. *(Brooke Seymour, MHFD)*

Flood Preservation Fund

In 2020, MHFD implemented an updated policy and funding reserve for its floodplain preservation acquisitions. Hear the intent of the program and how to access these funds. *(David Bennetts, MHFD)*

Not So Routine Maintenance

MHFD may be able to help with special programs within your local government. Hear how we helped with the Denver Day Works Program. *(Athena Gomez, Muller Engineering)*

What is the Stream Management Academy?

Since 2016, MHFD and its partners have worked together to elevate our understanding of stream management. Through a series of classes with multi-discipline students and instructors representing a wide range of expertise, the Stream Management Academy seeks to better our understanding of how streams function and how we can collaborate to achieve project goals. *(Mark Schutte, MHFD)*

HFLMS Framework

Management actions that address specific physical conditions of urban streams involve trade-offs between different aspects of stream functions. MHFD has established a framework that supports integrating High-Functioning Lower-Maintenance Streams (HFLMS) principles into urban stream management. This presentation summarizes the framework and five elements of urban stream management: hydrology, hydraulics, geomorphology, vegetation, and community connections and values. *(Brian Murphy, River Works)*

Bioretention Research Study

MHFD, with support from UWRI and CASFM, is collecting data across the region to inform decisions for designing bioretention basins. Hear about what we've learned so far. *(Brik Zivkovich, MHFD)*

2:35 - 3:05 PM | AFTERNOON BREAK

3:05 - 4:15 PM

► **Video Highlight : First Creek**

This capital improvement project on First Creek upstream of Tower Road in the City and County of Denver included stream restoration, regional trail construction, and formal and informal nature play features.

40+ Years of Flood Prediction—What have we learned?

This presentation explores the current state of the practice in flood prediction. *(Kevin Stewart, MHFD)*

Vegetation Establishment Best Practices, Start to Finish

What are some best practices MHFD is implementing to obtain high-functioning vegetation at final acceptance? *(Mary Powell and Mike Sarmento, MHFD)*

Closing Remarks

4:15 PM | SYMPOSIUM CONCLUDES



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