

2001 Professional Activities of District Staff

Scott Tucker, Executive Director

- *Lecturer, Department of Earth and Atmospheric Science, Metropolitan State College, Denver, in April.
- *Speaker on Overview of Site-specific Streamgaging Activities in Colorado, Colorado Streamgaging Symposium, Breckenridge, CO, in May.
- *Session Chair, Session on Zero and Deminimus Impact Policy Issues, Engineering Foundation Conference on Linking Stormwater BMP Designs and Performance to Receiving Water Impacts Mitigation, Snowmass, CO, in August.
- *Chaired Workshop session at National Association of Flood and Stormwater Management Agencies (NAFSMA) annual conference, in Charlotte, NC, in November.
- *Participant in Stormwater Managers Roundtable Meeting, Johnson County Kansas Stormwater Management Program, Overland Park, KS, in November.
- *Member of Board of Directors and Co-Chairman of the Stormwater Management Committee of NAFSMA.
- *Member of Board of Directors, Chairman of Future Programs Committee, member of Executive Committee of the Metro Wastewater Reclamation District.
- *Member of American Public Works Association, American Society of Civil Engineers, and Water and Environment Federation.

Bill DeGroot, Chief, Floodplain Management Program

- *Chair of the Floodplain Management Committee of the National Association of Flood and Stormwater Management Agencies (NAFSMA), and chaired a session on Floodplain Management Issues at NAFSMA's annual meeting in Charlotte in Nov.
- *Co-authored, with David Lloyd, Bryan Kohlenberg, and Mark Hunter, "Mitigating Stream Erosion in the Denver Metropolitan Area."
- *Presented a slide show on the District's 2001 flood experience at the Colorado Association of Stormwater and Floodplain Managers (CASFM) annual conference in Steamboat Springs in Sept.

Kevin Stewart, Information Systems Manager, Floodplain Management Program

- *Chair of National Hydrologic Warning Council (NHWC), representing Southwestern Association of ALERT Systems
- *Member of Advisory Committee on Water Information (ACWI), Subcommittee on Hydrology, Washington DC.
- *Co-author with James C. Y. Guo and Ben Urbonas of publication entitled: *Rain Catch under Wind and Vegetal Cover Effects*, ASCE Journal of Hydrologic Engineering, Vol. 6, No. 1, January/February, 2001.
- *Attended Interstate Council of Water Policy (ICWP) Washington Roundtable & USGS Streamgaging Workshop in Washington DC in February.
- *Member of NWS Service Assessment Team responsible for evaluating National Weather Service performance during *Tropical Storm Allison Heavy Rains and Floods, Texas and Louisiana, June 2001*.
- *Attended Colorado Governor's Conference on Emergency Management and annual CEMA meeting in Breckenridge in August.
- *Guest speaker at Environmental Hazards Class, University of Colorado at Denver in November.

Ben Urbonas, Chief, Master Planning & South Platte River Programs

- *Continues as a principal co-investigator (Eric Strecker & Jonathan Jones principal co-investigators) for an EPA funded ASCE effort to develop Nationwide BMP Evaluation Data Management software and to accumulate and evaluate BMP data for performance and their relationships to design parameters.
- *Co-authored with Eric Strecker, Marcus Quigley, Jonathan Jones and Jane Clary, "Determining Urban Storm Water BMP Effectiveness," in the, May/June Issue of ASCE's *Journal of Water Resources Planning and Management*.
- *Co-authored with Jane Clary, Jonathan Jones, Eric Strecker, Marcus Quigley and John O'Brian, "Developing, evaluating and maintaining a standardized stormwater BMP effectiveness database," on the EPA-sponsored ASCE-BMP database project for the Novatech 2001 conference in Lyon, France.
- *Co-authored, with John Doerfer, and presented "Testing of an Underground Stormwater Treatment Vault in Denver, Colorado, USA," at Novatech 2001 in Lyon, France.
- *Authored a paper, "Protecting Our Receiving Waters With BMPs," in the *Water Resources IMPACTS*, Published by AWRA, November Issue.
- *Presented at a "BMP Effectiveness Seminar" at NAFSMA conference in Charlotte, NC in November.
- *Organized, served as chairman and edited proceedings of a United Engineering Foundation conference on *Linking Stormwater BMP Designs and Performance to Receiving Water Impact Mitigation*, held in Snowmass, Colorado, August 19-24, 2001.
- *Appointed by Governor Bill Owens to a two-year term on the Board of Directors of the Cherry Creek Basin Water Quality Authority.
- *Appointed by the Water Resources Research Foundation Board of Directors to the inaugural Stormwater Technical Advisory Committee.

Dave Lloyd, Chief, Design and Construction Program

- *Co-authored, with Bryan Kohlenberg, Bill DeGroot, and Mark Hunter, and presented "Mitigating Stream Erosion in the Denver Metropolitan Area" at the Engineering Foundation conference in Snowmass in August.

Cindy Thrush, Project Engineer, Maintenance Program

- *Vice-Chair of the Board of Directors for the Colorado Association of Stormwater and Floodplain Managers (CASFM).
- *Editor of the CASFM newsletter.

Ken A. MacKenzie, Project Engineer, Design and Construction Program

- *Presenter at the 12th annual conference of the Colorado Association of Stormwater and Floodplain Managers (CASFM).
- *Presenter at *Urban Storm Drainage Criteria Manual Volumes 1 and 2 Update Seminar*.
- *Developed spreadsheet-based design aid software with Dr. James C.Y. Guo, department of Civil Engineering, University of Colorado at Denver, and Wright Water Engineers.
- *Developed AutoCAD™ details for the *Urban Storm Drainage Criteria Manual Volumes 1 and 2*.

Bryan Kohlenberg, Project Engineer, South Platte River Program

- *Co-authored, with David Lloyd, Bill DeGroot, and Mark Hunter, “Mitigating Stream Erosion in the Denver Metropolitan Area.”
- *Continued as NSPE’s scoring coordinator for the Jefferson Chapter and Colorado State MATHCOUNTS competitions for 7th and 8th graders.

Paul Hindman, Project Engineer, Design and Construction Program

- *Member of site selection committee for APWA’s 2008 Congress and Exposition.

John Doerfer, Project Hydrologist, Master Planning Program

- *Chairman of Awards Committee, Colorado Association of Stormwater and Floodplain Managers, 2001 Annual Conference.
- *Chairman of Municipal Workgroup, Colorado Stormwater Task Force.
- *Speaker on construction-site sediment control measures and enforcement procedures at International Erosion Control Association Mini-Conference, June 5-6, in Denver.
- *Co-authored paper with Ben Urbonas, “Testing of an Underground Stormwater Treatment Vault in Denver, Colorado, USA,” NOVATECH 2001 conference, June 25-27, in Lyon, France.
- *Co-authored article with Matt Gavin, Wright Water Engineers, “Retrofit of an Extended Detention Basin in Denver, Colorado,” Water Resources IMPACT, Journal of American Water Resources Association, Vol. 3, No. 6, November.

Mark Hunter, Chief, Maintenance Program

- *Committee member for the IECA-Mountain States Chapter.
- *Member of IECA Technical Review Committee and Awards Committee.
- *Co-authored, with David Lloyd, Bill DeGroot, and Bryan Kohlenberg, “Mitigating Stream Erosion in the Denver Metropolitan Area.”

David Bennetts, Project Engineer, Maintenance Program

- *Guided a field trip on riparian zone plant species, with Deb Kemmerer at the 12th Annual CASFM Conference in Steamboat Springs in September.

Maintenance (from page 9)

control, but by the time Tributary M reaches Huron Street the erosion is severe with 12 to 15 foot tall vertical banks and a headcut undermining the Huron Street culvert. Our project will include five drop structures and extensive bank reshaping.

One of this year's projects includes the elimination of an 18-inch diameter trickle flow/underdrain pipe. The **East Toll Gate Tributary** in Aurora has several grouted rock drop structures with deep stilling basins that drain into the 18-inch trickle flow pipe. The pipe is damaged or plugged in several areas. The drops are deteriorated and have become a safety problem because of the deep stilling basins. Rebuilding the drop structures and regrading the channel will allow all runoff to flow on the surface through the improved corridor. Aurora plans to upgrade the site to an irrigated bluegrass park.

The City of Denver also had a channel with a troublesome underdrain pipe. **Harvard Gulch** flows through DeBoer Park in south Denver. The underdrain was connected to multiple surface inlets with the intent of keeping the area dry during low flow periods. The thin slope-paved concrete of the trickle channel through the park had become displaced and broken-up to the extent that the trickle flows went under or around the inlets and never made it to the underdrain pipe. With the coordination of Denver Parks the five-foot wide concrete trickle channel was replaced with a boulder-edged low flow channel that varies from 10 to 15 feet wide.

With the acquisition, by Foothills Park District, of a parcel of land west of Wadsworth Boulevard a final link was made in the **Lilley Gulch** corridor in Jefferson County. The additional public land allowed us to incorporate a re-aligned trail, streambank protection, and several

areas of wetlands. Four drop structures will also be built to control the grade through this new open space park.



DeBoer Park low flow channel before and after.