

Asset Management and CMOM Programs for Gravity Sewer Systems

January 13-15, 2003
Birmingham, AL

WHAT

Asset Management Business Practices needed to successfully manage gravity sewer systems.

WHY

Gravity sewer systems must provide a high level of customer service and comply with federal, state and local regulations and laws, particularly the SSO rule and CMOM requirements.

WHERE

Radisson Hotel
802 20th Street South,
Birmingham, AL 35205

LODGING

Available at the
Radisson Hotel
(205) 933-9000
or the
Pickwick Hotel
(205) 933-9555.

WHO SHOULD ATTEND

Utility Managers
Collection System Managers
Collection System Operators
Engineering Managers
O&M Staff

INSTRUCTORS

Rick Arbour

Vice President, Brown and Caldwell
Business Consulting Practice

Richard Cunningham

Superintendent, Bureau of Street and
Sewer Repair, City and County of
San Francisco, CA

Roy Herwig, P.E.

Associate and Senior Consultant, Brown
and Caldwell Business Consulting
Practice

Gary Skipper, P.E.

Co-founder and Principal, MGD
Technologies Inc.

Mel Young

President, Northeast Consulting Inc.

DAILY SCHEDULES

Monday: 1/13/03, 8 a.m. to 5 p.m.

Tuesday: 1/14/03, 8 a.m. to 5 p.m.

Wednesday: 1/15/03, 8 a.m. to 5 p.m.

PARKING

Park in the Radisson Hotel deck.
Hotel registrants park free.
Do NOT park in UAB Deck 3.

REGISTRATION INFORMATION

Online: www.eng.uab.edu/epd

Phone: (205) 934-8994

Mail: UAB Professional Development
BEC Room 253, 1150 10th Avenue South
Birmingham, AL 35294-4461

Participant registration fee of \$975 includes course materials and lunch all three days.

MORE INFORMATION

For more information, contact
Rick Arbour at rarbour@brwncald.com

BROWN AND
CALDWELL

PROFESSIONAL DEVELOPMENT COURSE

Asset Management and CMOM Programs for Gravity Sewer Systems

JANUARY 13-15, 2003 | BIRMINGHAM, AL

Monday, January 13, 2003

7:30	8:15	8:30	9:30	10:00	11:00	12:00	1:00	2:00	3:00	3:30	5:00
Registration	Welcome and Introductions—UAB	EPA Draft SSO Rule (Herwig) <ul style="list-style-type: none"> • Development, History, Process • Components: Prohibition, CMOM, Reporting, Legal and Satellite Systems • Current Status of SSO Rule • Update of EPA Regions' Approach 	Break	Asset Management Practices Wastewater Collection System (Arbour) <ul style="list-style-type: none"> • System Inventory and Attribute Data • Condition Assessment • Work Management • Financial and Administrative Support Services • Information Management • Optimized Decision Making for CMOM Compliance 	Pipeline Preventive Maintenance Program (Arbour) <ul style="list-style-type: none"> • Maintenance Program Goals • Components of a Preventive Maintenance Program • Benefits • Maintenance Program Evaluation 	Lunch (Provided)	Inspection, Evaluation and Condition Assessment of the Collection System (Cunningham) <ul style="list-style-type: none"> • Asset Management Goals for Inspection Programs • Inspection Methods • Inspection Criteria and Condition Ratings • Creating Asset Management Profiles from Condition Ratings 	Advanced Methods of Asset Inspection and Condition Assessment (Skipper) <ul style="list-style-type: none"> • Sonar Inspection • Conductivity/Salinity Testing • Concrete Pipe Corrosion Testing • Force Main Pressure Tests • Debris Mapping 	Break	Trenchless Technology for Repair, Rehabilitation, Replacement and New Construction Projects (Young) <ul style="list-style-type: none"> • Mainlines • Performance and Design Specifications • Comparison of Different Methods and their Effectiveness 	Announcements and Adjourn

Tuesday, January 14, 2003

8:00	9:00	10:00	10:30	12:00	1:00	2:00	3:00	3:30	5:00
Trenchless Technology for Repair, Rehabilitation, Replacement and New Construction Projects (Young) <ul style="list-style-type: none"> • Manhole Rehabilitation • Lateral Rehabilitation • Performance and Design Specifications • Comparison of Different Methods and their Effectiveness 	Auditing and Assessment of CMOM from a Regulatory Perspective (Herwig) <ul style="list-style-type: none"> • Management Programs • Operations Programs • Maintenance Programs 	Break	Mechanical and Hydraulic Cleaning Program (Arbour) <ul style="list-style-type: none"> • Mechanical and Hydraulic Cleaning Equipment • Establishing Corrective and Preventive Maintenance Cleaning Programs • Grease Control Programs • Performance Indicators and Best Industry Practices 	Lunch (Provided)	Fleet Asset Management (Cunningham) (Participants will receive a CD of current collection system equipment specifications.) <ul style="list-style-type: none"> • Evaluation of Fleet Requirements Including Replacement Cycles • Specification Development and Purchasing • Preventive Maintenance Approaches for Extending Asset Useful Life • Federal DOT Fleet Management Requirements 	Capacity Assurance Program — The C in CMOM (Skipper) <ul style="list-style-type: none"> • What are Capacity Assurance CMOM Requirements • Hydraulic Design Capacity vs. Actual • Developing a Capacity Assurance Program • Implementing the Capacity Assurance Program 	Break	Maintenance Program Organization and Staffing (Arbour) <ul style="list-style-type: none"> • Organizational Structure • Classifications • Certification and Training 	Announcements and Adjourn

Wednesday, January 15, 2003

8:00	9:00	10:00	10:30	12:00	1:00	2:00	2:30	3:30
Flow Monitoring as an O&M Tool (Skipper) <ul style="list-style-type: none"> • Flow Data Indicators for O&M • Inflow and Infiltration • Management, Planning and Engineering Use of Flow Data 	CMOM Reporting (Herwig) <ul style="list-style-type: none"> • Record Keeping • Reporting • Performance Data • Frequency of Reporting • Reporting for Small Systems 	Break	Information Management Systems for Collection System Asset Management (Cunningham) <ul style="list-style-type: none"> • Asset Management Reporting: Requirements and Options • Asset Definitions • Approaches to Asset Management Computerization • Asset Management Tools • State of Current Technology 	Lunch (Provided)	Information Management — cont. (Cunningham) <ul style="list-style-type: none"> • Computer-based Management Tools • Current Technology • Case Histories 	Break	Regional CMOM Approach for Satellite Systems (Arbour) <ul style="list-style-type: none"> • SSO Rule and Satellite Systems • Approaches to Managing Satellite Systems 	Open Forum and Conclusion