

CITY OF RAPID CITY
TRAVEL REQUEST

Person requesting travel DAVE VAN Cleave Department 7072

I hereby request permission to travel for the following purpose: (Give specific nature of business and interest of the City to justify cost involved.)

WEF/AWWA Conference

List all other City employees, if any, making the trip for the same purpose: _____

Robert Druckrey

Place of meeting or destination: Denver, CO

Date of meeting April 15-18, 2007

Date trip to begin April 14 Date trip will end April 18

Method of transportation requested City Vehicle

Estimated transportation cost \$ 225⁰⁰

Meals 426⁰⁰

Lodging 65 days 690⁰⁰ 508⁰⁰

Other costs - description Registration 1160⁰⁰

PARKING

126⁰⁰ 105⁰⁰

Total estimated cost of trip \$ ~~2427⁰⁰~~ 2424⁰⁰

Signed David Van Cleave Date 9 JAN 07 Dick Callanni Date 1/9/07
(person requesting travel) (Department Head)

When the cost of the trip will exceed \$500, per employee, this section must be signed.

In accordance with the provisions of Rapid City ordinances and travel regulations, consent is hereby given for travel as requested in the foregoing application. Maximum cost of trip authorized is \$ _____

Approved: _____ Date _____
Mayor

When the cost of the trip will exceed \$1,500, per event, Council approval is required.

Approved by Common Council on _____ (Date)

White copy - Mayor

Yellow copy - Finance

Gold copy - Department copy



WEF/AWWA

Joint Residuals and Biosolids Management Conference 2007

Conference: April 15-18, 2007

Exhibition: April 15-17, 2007

Colorado Convention Center & Hyatt Regency Denver

Denver, Colorado USA

Innovation and Sustainability



The conference is a collaboration of the Water Environment Federation's Residuals and Biosolids Committee, the Rocky Mountain Water Environment Association (RMWEA), American Water Works Association (AWWA), and the Rocky Mountain Section of AWWA.



The Joint Residuals and Biosolids Conference held by WEF and AWWA is designed to educate and inform you about the innovative, yet sustainable approaches to the safe and effective handling, processing, and reuse of Biosolids and Water Treatment Residuals.

Specifically Designed For:

- Agronomists and Soil Scientists
- Farmers and Agriculturalists
- Landscapers
- Design Engineering and Construction Professionals
- Municipal Wastewater and Water Treatment System Managers
- Pollution Control Equipment Manufacturers
- Local, State, and Federal Regulatory Agency Personnel
- Industrial Water and Wastewater Treatment Professionals
- Residuals and Biosolids Generators and Appliers
- Organic and Inorganic Residuals Managers

Conference Topics Include:

- Research & Development Activities
- Land Application, Land Reclamation and Managing Nutrients
- Marketing of Biosolids & Residuals Products
- Success Stories
- National Biosolids Partnership Activities/ Environmental Management Systems
- Building Public Support & Addressing Political Aspects
- Advances in Stabilization Technologies
- Conditioning and Dewatering Technologies
- Bioenergy Technologies
- Odor Control
- Regulatory or Legal Issues and Changes
- Colorado / Rocky Mountain Regional Issues
- Water Treatment Plant Residuals

Cover photo courtesy of WEF/IRMWEEA Member Steve Frank, Public Information Officer for the Metro Wastewater Reclamation District, Denver.

Conference Learning Objectives:

- Explore current and emerging technologies for biosolids and residuals management
- Provide a regulatory update on current environmental standards for residuals and biosolids management practices both national and regional
- Focus on Biosolids management options and the impact they have on the future

Opening General Session

Monday, April 16 | 9:00 am – 11:45 am

Please join us as we celebrate the opening of the 21st annual Residuals and Biosolids Specialty Conference.

The Opening General Session will provide engaging discussions on the need for innovation and sustainability and capture the regional attributes of Colorado. Take a virtual tour of the state with a nationally renowned photographer from Colorado, look deep into the Antarctic Circle and take a trek up Mt. Everest.

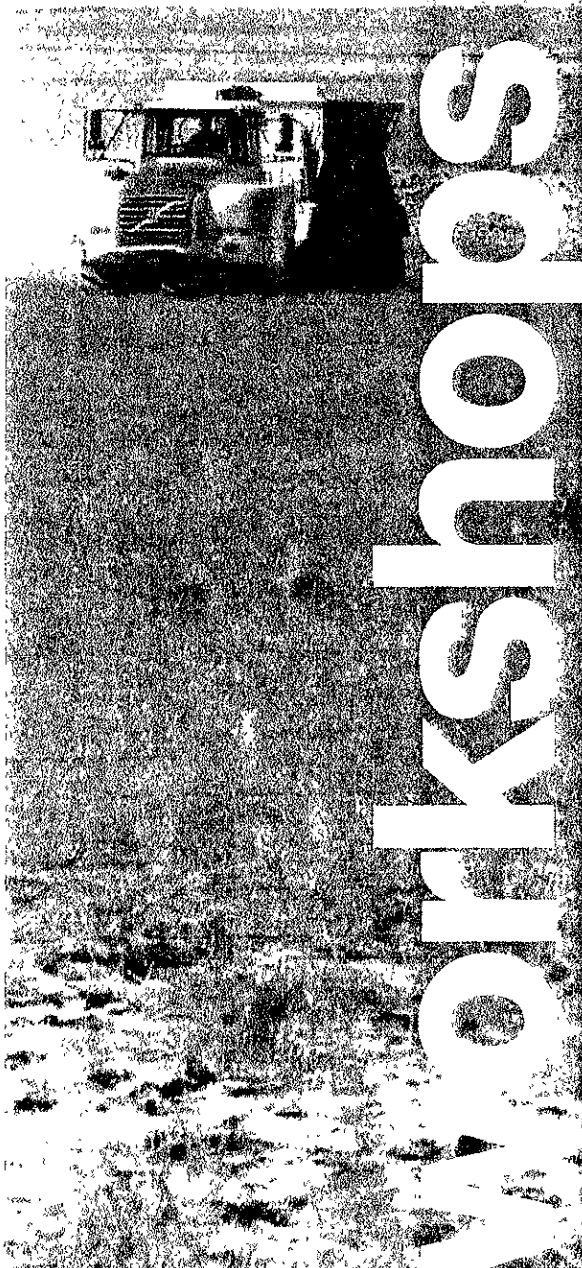
Invited Speakers Include:

Nathan W. Biletnikoff, Raytheon Polar Services
Bob Hite, Denver Metro Wastewater Reclamation District
John Fielder, John Fielder's Colorado
Eric Alexander, Adventures Beyond Limits

Conference-at-a-Glance

Sunday, April 15, 2007	
7:30 am – 5:00 pm	Registration
8:30 am – 12:00 pm	Workshop A: Energy Balancing in Bioenergy Utilization Systems
	Workshop B: Perspectives on Reactivation and Regrowth of Indicators after Digestion
	Workshop C: Class A Options for the Smaller Generator
1:00 pm – 5:00 pm	Tour A: Plum Creek Wastewater Authority
1:30 pm – 4:45 pm	Afternoon Technical Sessions
	Session 1: Research
	Session 2: Marketing
	Session 3: Land Application
	Session 4: Regulations
5:00 pm – 6:30 pm	Exhibition, Welcome Reception
Monday, April 16, 2007	
7:30 am – 5:00 pm	Registration
9:00 am – 11:45 am	Opening General Session
10:00 am – 5:45 pm	Exhibition (Includes Happy Hour)
1:00 pm – 5:00 pm	Tour B: Denver Metro Wastewater Reclamation District
1:30 pm – 4:45 pm	Afternoon Technical Sessions
	Session 5: Bioenergy I
	Session 6: Stabilization Technologies
	Session 7: Digestion I
	Session 8: Hot Topics
	Session 9: Success Stories
6:30 pm – 8:30 pm	Social Event: Comedy Works
Tuesday, April 17, 2007	
7:30 am – 5:00 pm	Registration
8:30 am – 11:45 am	Morning Technical Sessions
	Session 10: Public Acceptance
	Session 11: Colorado Regulation Update
	Session 12: Odor I
	Session 13: Agriculture Issues I
	Session 14: Water Plant Residuals I
10:00 am – 3:45 pm	Exhibition
1:00 pm – 5:00 pm	Tour C: Broomfield Wastewater Reclamation Facility
1:30 pm – 4:45 pm	Afternoon Technical Sessions
	Session 15: Bioenergy II
	Session 16: Western Issues
	Session 17: Odor II
	Session 18: Agriculture Issues II
	Session 19: Water Plant Residuals II
Wednesday, April 18, 2007	
8:00 am – 12:00 pm	Registration
8:30 am – 11:45 am	Morning Technical Sessions
	Session 20: Digestion II
	Session 21: Dewatering
	Session 22: Environmental Management Systems
	Session 23: Special Interests
	Session 24: Success Stories

Workshops



Workshop A Energy Balancing in Bioenergy Utilization Systems

Sunday, April 15 | 8:30 am – 12:00 pm

.325 CEUs

(half day workshop)

Bioenergy utilization is a critical part of many biosolids management plans. However, decision-makers on capital investment for bioenergy utilization systems can often become confused regarding the amount of bioenergy that is actually available, the efficiencies of equipment systems used to recover and utilize bioenergy and the offsets in energy requirements that may need to be made up with electrical power or fossil fuels. As energy costs rise, plant managers need to be more aware of the overall cost effectiveness of their bioenergy utilization systems and the tradeoffs between capital costs, operational savings, and environmental impacts through offset emissions.

Workshop Objectives:

This workshop will address the planning-design phase of bioenergy recovery capital projects to better understand and present these issues to capital investment decision-makers. Several different methods and combinations of processes will be provided to illustrate different methods of bioenergy recovery. In addition, operational approaches for optimizing solids processing systems already in place will be explored. Overall solids train energy balancing can lend insight into the interrelationships of upstream/downstream processes, transportation, and the implications of bioenergy-based decisions on operational costs and emissions. Such information aids in making trade-off decisions regarding bioenergy utilization and overall operating costs.

Specifically Designed for:

- Utility managers
- Operators
- Consultants or suppliers interested in the development and implementation of a bioenergy recovery project or the optimization of a bioenergy utilization system.

*Denver Metro's spreader applying biosolids in eastern Colorado.
Photo courtesy of Steve Frank*

Workshop B
Perspectives on Reactivation and Regrowth of Indicators after Digestion
Sunday, April 15 | 8:30 am – 12:00 pm
.325 CEUs (half day workshop)

This workshop will discuss the history of the reactivation/regrowth issue and present the latest findings from WERF sponsored research. Several case studies from utilities will be discussed, and perspectives from regulators and utilities will be presented.

Workshop Objective:

The objectives of the workshop are to provide the audience with the latest results from on-going WERF funded research related to reactivation and regrowth of fecal coliform. In addition, the workshop seeks to provide perspectives from utilities, consulting, and regulatory agencies on this topic.

Specifically Designed for:

- Operators
- Engineers
- Regulators

Educational Credits

Joint Residuals and Biosolids 2007
Educational Credits are Awarded for Attendance at Workshops, Opening General Session, Technical Sessions and Tours.
Upon successful completion, earn up to a maximum total of .325 Continuing Education Units (CEUs), 12 Professional Development Hours (PDHs) as well as 12 Contact Hours. CEUs are earned by participating in workshops. PDHs are earned by attending technical sessions. Contact Hours are earned by participating in tours. Please note: Conference participants are responsible for exploring their state requirements to have their Educational Credits approved for credit.

Workshop C
Class A Options for the Smaller Generator
Sunday, April 15 | 8:30 am – 12:00 pm
.325 CEUs (half day workshop)

Producing a biosolids product to meet Class A pathogen reduction standards has become a trend throughout the industry. However, systems and technologies designed for this purpose are often scaled to fit generators who produce a substantial mass of biosolids daily. Nevertheless, small generators (generally those operating plants <10 MGD) are also interested in meeting Class A standards.

This workshop will draw upon vendors of systems as well as representatives of smaller communities using such technologies. Each will provide a presentation regarding their specific process: vendors will address a standard scenario representing a small treatment plant while community representatives will describe why they sought Class A, what technologies they considered and their level of success in operations. Presentations will include alkaline, drying, and composting processes, along with others, but will be limited to those technologies with commercial operations in North America.

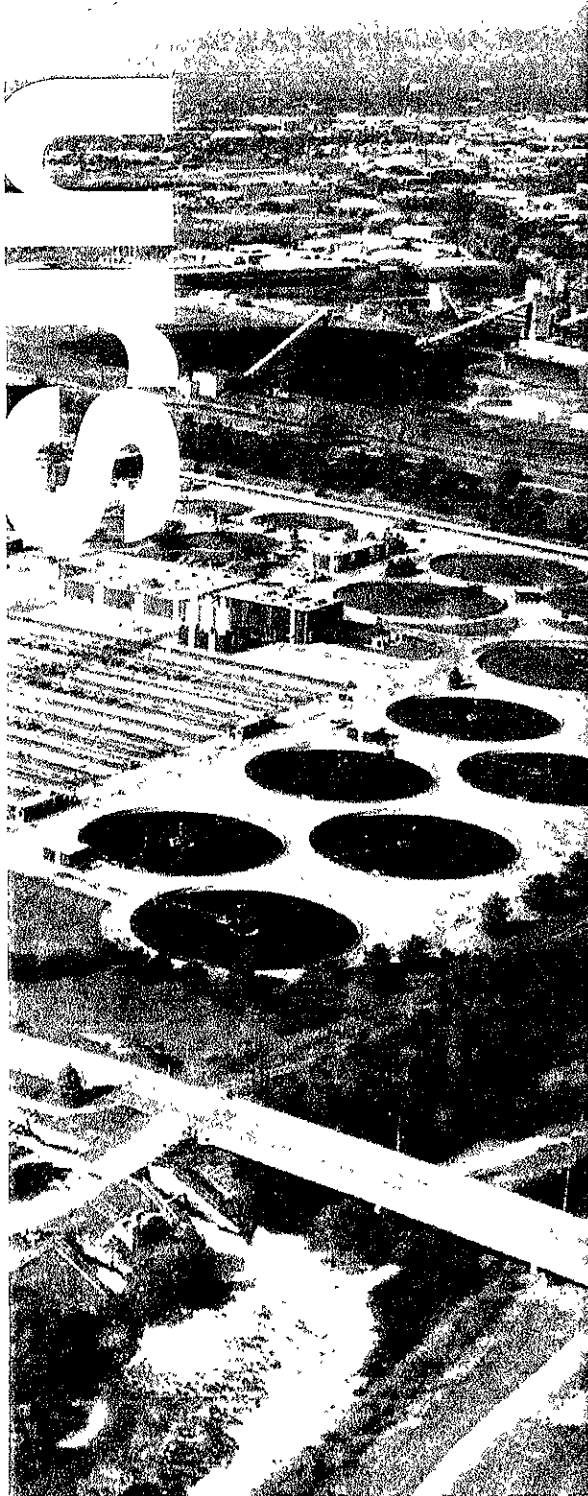
Workshop Objectives:

- Identify and present commercial/case history information on a number of newer technologies for producing Class A biosolids with special focus on smaller generators (<10 MGD, generally). Systems presented will have at least one commercial application in North America.
- Attendees should anticipate that they will be presented with new approaches/ideas for meeting Class A Pathogen Reduction Standards.

Specifically Designed for:

- Engineers
- Generators seeking Class A technology

Tours



Tour A

Plum Creek Wastewater Authority

Sunday, April 15 | 1:00 pm – 5:00 pm

Come tour a 7.5 MGD biological nutrient removal (BNR) wastewater treatment facility located south of Denver at the base of pine bluff buttes and the foothills of the Rocky Mountains. Plum Creek Wastewater Authority is a wholesale treater of wastewater for three surrounding communities and produces reuse water for some of Colorado's finest golf courses. The summer of 2005 marked the end of a \$26 million dollar plant expansion project which included the construction of three oxidation ditch trains, filtration, ultraviolet disinfection and expansion of solids and centrate processing. The knowledgeable staff at PCWA will give small group tours of the facility and share with guests the highlights of the new plant and lessons learned now that the facility is operational.

In April, Denver's weather can be unpredictable. For all tours, participants should be dressed appropriately to be exposed to whatever weather Denver is having that day. Comfortable, closed-toe shoes are a must.

*This page: Metro Wastewater Reclamation District.
Photo courtesy of Steve Frank.*

Opposite Page: Photo courtesy of Kenneth D. Rutt, Wastewater Division Superintendent, City and County of Broomfield, CO.

Tour B

Denver Metro Wastewater Reclamation District

Monday, April 16 | 1:00 pm – 5:00 pm

The rolling tour begins with the wet process portion of Metro's Central Treatment Plant, which is rated for a design flow of 227 million gallons a day (30-day average) and is the largest wastewater treatment facility in the Rocky Mountain West. The facility provides advanced secondary treatment, including partial nitrification and denitrification, and is undergoing a substantial rehabilitation and upgrade program that includes more than \$500 million in treatment improvements over the next 10 years.

The rolling tour will bring visitors to two new, 1.8-million gallon anaerobic digesters. The new digesters are part of the District's dual-purpose complex that contains 12 digesters and has the capability to operate in either a conventional or two-phase (or acid-gas) mode.

The tour then proceeds to Metro's cogeneration facility, where the methane produced from the digestion process is burned to produce heat and electricity. Next the tour will visit the centrifuge facility to see four Alfa Laval DS 706 high-solids centrifuges that Metro recently installed. Participants will then see the cake storage facility, hear a brief overview of Metro's biosolids management program including the land application program (although they will not see an actual application site) before moving to Metro's 17-acre composting facility where Resource Recovery & Reuse personnel will discuss Metro's composting operations and equipment using a static demonstration. The tour will conclude with screening and storage of the finished compost.

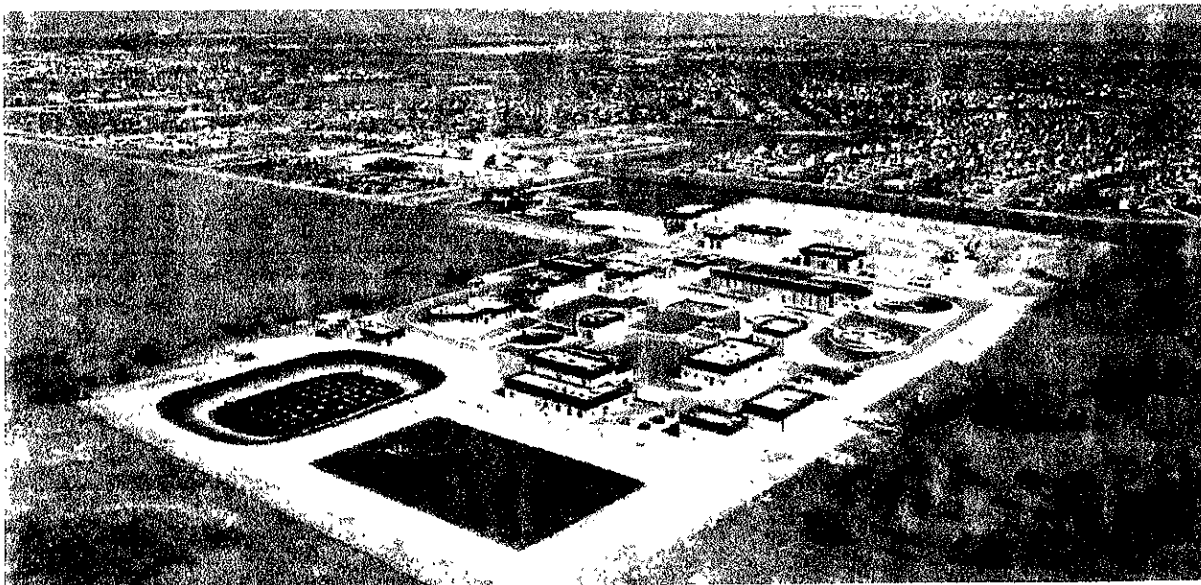
Tour C

Broomfield Wastewater Reclamation Facility

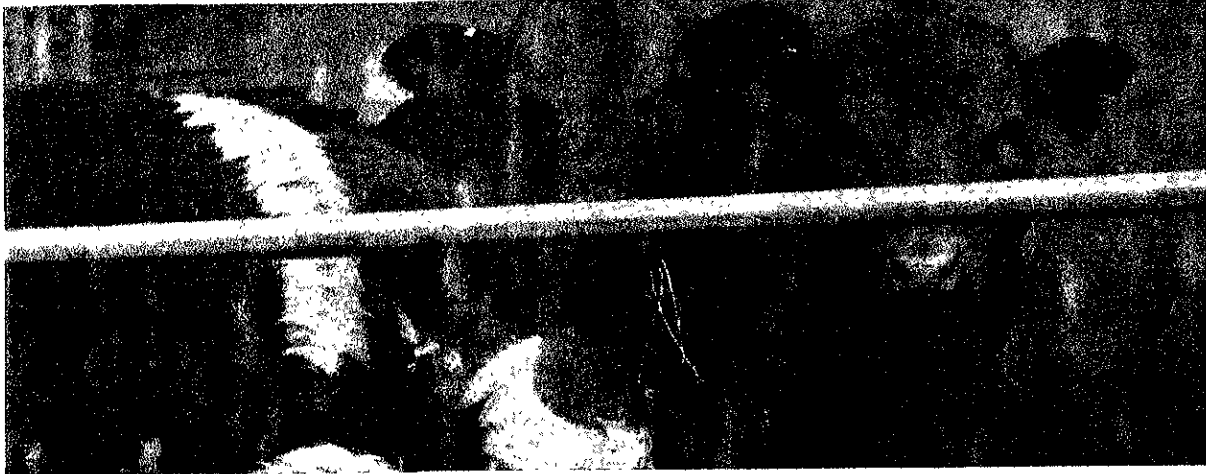
Tuesday, April 17 | 1:00 pm – 5:00 pm

Residents of Broomfield, like many other Coloradans, value the natural environment as a primary factor that contributes to their quality of life, and realize that we have finite natural resources. With this in mind, the City and County of Broomfield recently completed a major upgrade and expansion of its Wastewater Treatment Facility in May 2005. Visitors will be taken on a guided tour to learn about this successful project, which included:

- Expansion of a 5.4 MGD secondary treatment facility to an 8.0 MGD BNR treatment facility
- Retrofitted the existing aeration basins to integrated fixed film activated sludge (IFAS) to increase nitrification capacity coupled with biological nutrient removal (BNR) reactors for denitrification and phosphorus reduction
- Added reclaimed wastewater treatment for reuse irrigation using a continuous backwash, top-feed, up-flow, deep bed, single-media filter system; the reclaim program is a 3,200 acre-feet per year reuse system
- Upgraded to a low pressure, high intensity UV disinfection system
- Added a new biofilter to treat odors from the headworks, primary clarifiers, and solids handling facilities
- Biosolids handling upgrade to a solids dewatering operation using high solids centrifuges



Spotlight on Agricultural Issues



Animal manure management is a challenge. With an estimated 250 million dry tons of farm animal manure produced yearly, the public has become increasingly intolerant of degraded air and water quality. Proper facilities must be built and managed and maximizing the value of manure as a source of fertilizer, energy, and other value-added products should be encouraged.

A one-day track on agricultural issues focuses on the application and influence of

municipal technologies on animal residual management. Expectations in addressing the animal residual challenges are related to nutrient management, odor control, energy and climate change. Speakers from USDA, EPA, industry and academia will cover topics ranging from the value of municipal and agricultural partnerships, regulations as a driving force for change, and the costs and benefits associated with animal residual byproducts.

Social Event

Comedy Works

1226 15th St. Denver, CO
Monday, April 16 at 6:30 pm
Ticket cost: \$40

Join us for a laugh-out-loud evening at the Comedy Works! The ticket price includes show admission, dinner, dessert, and two drinks of your choice. Comedy Works is located within walking distance from the hotel.

Comedy Works sells out early. To ensure you have a seat, please purchase your tickets in advance.

Registration Information

Registration Information

Register EARLY and SAVE \$\$ -- All registration forms received by February 16, 2006 will qualify for the advance registration rate. All registrations received after February 16, 2007 will be charged the onsite rate. All registrations received by March 23, 2007 will receive confirmation notice by e-mail, fax, or mail within seven business days. Registrations received after March 23, 2007 will not be processed -- please register onsite at the WEF conference registration desk in the Hyatt Regency Denver. Badges and conference materials may be picked up at the WEF conference registration desk in the Hyatt Regency Denver.

Cancellation Policy

All cancellations for refunds must be submitted in writing on company letterhead with a detailed explanation by March 23, 2007. A 25% administrative fee will be deducted from all refunds. Registrants who fail to notify WEF of cancellation by March 23, 2007 are liable for the full registration fee.

FAX or MAIL cancellations or substitution requests on company letterhead to:

WEF: Disinfection 2007 Conference
Attn: Registration Department
601 Wythe Street, Alexandria, VA 22314
Fax: 1 703 684 2471

Faxed entries cannot be confirmed by phone.

Transportation Information

Airport: Denver International Airport

Big Sky Airport Shuttle Service

\$18 one way; \$24 round trip

Open 3:30 am until midnight seven days a week. Reservations are encouraged. Call 877-336-8267 or make your reservation online at www.bigskys Shuttle.com. Big Sky is located outside exit door 507 on the east side or exit door 510 on the west side of the terminal on Level 5. Shuttles board at island 3. If one of their vans isn't there when you arrive, one will be there shortly.

Hotel Information

Hyatt Regency Denver at Colorado Convention Center

650 15th Street
Denver, CO 80202

For hotel reservations, please call 1-800-233-1234

Hotel Phone: 1-303-436-1234

Hotel Fax: 1-303-486-4450

Conference Room Rate: \$182

Government Rate: \$127 (as of October 6, 2006)

Reservations may also be made online by going to http://www.wef.org/ConferencesTraining/Conferences/SpecialtyConference/RB_Management2007.htm and clicking on the Housing link.

Please make your hotel reservations as early as possible. The cut-off date for these discounted rates is March 23, 2007. WEF cannot guarantee the conference rate after this date.

Parking

Hotel Parking

Daily Valet Parking: \$16.00; Overnight Valet Parking- \$25.00

Daily Self Parking: \$5.00 for first hour \$2.00 each additional hour with a maximum of \$21.00; Overnight Self Parking: \$21.00

Convention Center located across the street from the Hyatt Colorado Convention Center, 700 14th Street, Denver, CO, 80202

Convention Center Parking

Event/Daily Rate: \$7.00 (All Days)

Park up to 8 hours

All Day Rate: \$12.00 (All Days)

Park up to 18 Hours

Registration Instructions

- Use one form per person. Please photocopy if more than one form is needed.
- Registration cannot be accepted without full payment (check or credit card) or government purchase order.
- Online, telephone and faxed registrations will be accepted with credit card payment only. To avoid duplicate charges, DO NOT mail the original.
- Make checks payable to the Water Environment Federation in US funds.
- Purchase orders are accepted from US Government agencies only and must be approved with all authorized signatures and the purchase order number referenced in the payment section of the registration form. You must include a copy of the purchase order with the registration form. Government purchase orders will not be accepted onsite.
- Wire transfers are accepted. For more information, contact WEF Registration at 1-800-666-0206, select menu option #2.
- WEF charges a \$25 non-refundable processing fee per registrant for Purchase Orders and Wire Transfers.

Online

www.wef.org

go to "Conferences and Training"

Online registration requires credit card payment.

Fax

1-708-344-4444 (No cover page)

Faxed registration requires credit card payment. Due to registration volume, we cannot confirm fax receipts by phone.

Mall (Please do not FAX and Mail)

WEF: Residuals and Biosolids 2007
c/o CSI
P.O. Box 591
Brookfield, IL 60513-05591
USA

Call

1-800-666-0206, Select menu option 2

All registrations received by March 23, 2007 will receive confirmation notice by e-mail, fax or mail within 7 business days of receipt.

 **Water Environment
Federation**
Residuals and Biosolids Management
601 Wythe Street
Alexandria, VA 22314 1994 USA

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