

CITY OF RAPID CITY  
TRAVEL REQUEST

Person requesting travel Theresa Butsma Department 7073

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

Biological Nutrient Removal Short Course

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

Place of meeting or destination: Denver, Colorado

Date of meeting Aug 22-23, 2007

Date trip to begin Aug 21, 2007 Date trip will end Aug 24, 2007

Method of transportation requested \_\_\_\_\_

Estimated transportation cost \$ 180<sup>00</sup>

Meals 144<sup>00</sup>

Lodging 3 days 417<sup>00</sup>

Other costs - description Registration 395<sup>00</sup>

Total estimated cost of trip \$ 1336.00

Signed [Signature] Date 6-19-07 [Signature] Date 6/19/07  
(person requesting travel) (Department Head)

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

Original class scheduled May 15-17 was cancelled

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

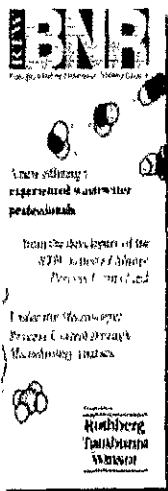
Gold copy - Department copy



Rothberg, Tamburini & Winsor, Inc.

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### Biological Nutrient Removal (BNR) 2007

**BNR 2007** is an updated two-day class with integrated troubleshooting workshops designed for mid- to high-level wastewater professionals. With more troubleshooting and updated real-world examples of plant applications, participants will obtain tools to improve controls and design, provide proper sample and data collection, and gain understanding of microorganisms. Through group discussion, problem-solving, and workshops, students will be encouraged to participate in active learning in order to return to their own facilities with ideas for optimizing process controls, cutting costs, producing higher quality effluent, and improving their plants' sludge settleability. For students new to RTW Training & Education, and for previous RTW BNR students, updated materials and discussions will foster advanced learning in: nitrogen and phosphorus chemistry; biochemistry and microbiology; nitrification & denitrification; and, nitrogen & phosphorus removal. Training will focus on creating lessons and operational strategies through Troubleshooting Workshops that students may take back and apply to their facilities to optimize performance.

**Other BNR Courses:**

**Biological Nutrient Removal with onsite visit - WWTP & WPCF - Las Vegas, NV**

**\*Note:** Each BNR course offers the same high quality curriculum, while the 3 day courses with tours offer added hands-on troubleshooting and additional contact hours.

**Return to Schedule.**

**What People Are Saying...**

"Best seminar I've attended." - *BNR student survey, August 2006*

"This course was amazing...I had some of the pieces, but needed to add the missing pieces and put it all together." - *City of Saskatoon*

**Who Should Attend?**

Wastewater operators & engineers seeking continuing education, students within RTW Diploma Program, personnel seeking to increase their knowledge of advanced treatment technologies, past students of RTW's ASPC & BNR courses.

**Learn more about RTW ASPC Diploma too!**

**Register NOW!**

**Dates:** August 22-23, 2007 (SC8846TR) Denver, CO.

**Tentative Schedule:**

Day One	Day Two
Introduction	Workshop- Nitrogen Control problem
Workshop-Chemistry for BNR	Intro to Biological Phosphorus Removal
Overview-Nitrogen Removal	Microbiology of Phosphorus Removal
Workshop- Microbiology Review	Process Configurations for Bio-P
Bacterial Growth & Its Measurement	Process Configurations for N & P Removal
Nitrification	Workshop- Bio-P problems
Denitrification	Summary & Next Steps
Workshop-Alkalinity & O2 Transfer	
Process Configurations	
Process Control for Nitrogen Removal	
Real World Examples	

**Where:** Las Vegas, Nevada  
Denver, Colorado

*\*Limited availability, register early.*

**Tuition:** \$595

Amount: \$500

Save \$50 if registered 60 days prior.

Contact Hours\*: 14

Your Instructors: **Ronald G Schuyler, P.E., B.C.E.E.**

**Register NOW!**

*\*Upon completion of a class, RTW will mail a Certificate of Completion and the number of professional contact (education) hours completed by the student. The C.E.U. or C.U. hours or credits accepted by each state's licensing or certification boards may vary, and students should submit within their own state for credit. Some classes are already approved in different states. For more information, and to contact the appropriate agency in your state, visit: **Wastewater Certification Information** or **Water Certification Information**.*

## Contact Info

For more information, contact **RTW Training** at **(303) 825-5999**, **(800) 473-5999**, or email, **Training@RTWeng.com**. Pricing, dates and availability subject to change. Contact RTW Training for more information.

**Register NOW!** or use the **Printable Registration Form**.

**Learn more about an RTW Diploma!**

**View the Biological Nutrient Removal (BNR) training course brochure in Adobe Acrobat PDF format.**



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