

ORDER NOW!

Register 30 days early! Save \$50 on BNR; \$100 on ASPC, Microscope, or Troubleshooting!

Date & Location	No. Students	Sub-total
Activated Sludge Process Control (\$995)		
Mar 4-6 Seattle, WA (9001)	___	\$ ___
Apr 21-23 Las Vegas, NV (9002)	___	\$ ___
Oct 27-29 Las Vegas, NV (9003)	___	\$ ___
Activate Sludge Troubleshooting & Optimization (\$895)		
Nov 10-12 Las Vegas, NV (9004)	___	\$ ___
Biological Nutrient Removal (\$595)		
May 13-14 Ann Arbor, MI (9005)	___	\$ ___
Aug 12-13 Denver, CO (9006)	___	\$ ___
Under the Microscope (\$995)		
Jul 14-16 Las Vegas, NV (9007)	___	\$ ___
RTW Diploma Enrollment (\$199)		
	Sub-total	\$ ___
	- Less Discounts	\$ ___
	Classes Total	\$ ___

	Unit Price	S&H	Qty.	Ttl.
16' Filter Bed Media Expansion Measurement Tool	\$225	(\$30)	___	\$ ___
20' Filter Bed Media Expansion Measurement Tool	\$250	(\$30)	___	\$ ___
Ciliated Protozoa Micro-Identification Keys	\$27.50	(\$5)	___	\$ ___
Activated Sludge Troubleshooting Chart, 2nd ed.	\$69.95	(\$10)	___	\$ ___
Biological Nutrient Removal Troubleshooting Chart	\$69.95	(\$10)	___	\$ ___
Activated Sludge Microorganisms Chart	\$59.95	(\$10)	___	\$ ___
RTW Operations ToolSet - Activated Sludge	\$159.95	(\$10)	___	\$ ___
Activated Sludge Microorganism Screensaver	\$9.95	(\$5)	___	\$ ___
RTW Bacteriological Stain Kit	\$309	(\$30)	___	\$ ___
Guide to Microscopy & Staining of Activated Sludge	\$12.95	(\$5)	___	\$ ___
	Products Total			\$ ___
	Grand Total Due=			\$ ___

PRIMARY STUDENT SHIP TO:

NAME _____ TITLE _____

COMPANY _____

STREET _____

CITY _____ STATE _____ ZIP _____

PHONE _____ EMAIL _____

ADDITIONAL STUDENTS:

NAME _____ TITLE _____

NAME _____ TITLE _____

Check payable to Tetra Tech Purchase Order Visa MC AmEx

CARDHOLDER _____

CARD NUMBER _____ EXPIRATION DATE _____

NAME _____ TITLE _____

Tetra Tech RTW, Education & Training (Registrations)
 1576 Sherman St, Ste 100, Denver, CO 80203
 Tel: 303.825.5999 Fax: 303.825.0642
 RTW.Training@tetratech.com

To register for classes, fill out this form and send to Tetra Tech RTW above, or visit www.tetratechrtw.com to register online.

TRAINING & TECHNICAL PRODUCTS FOR WATER & WASTEWATER TREATMENT & OPERATIONS



Rothberg, Tamburini & Winsor is now Tetra Tech RTW and brings the same quality training and technical products clients know.

www.tetratechrtw.com or www.rtwengineering.com

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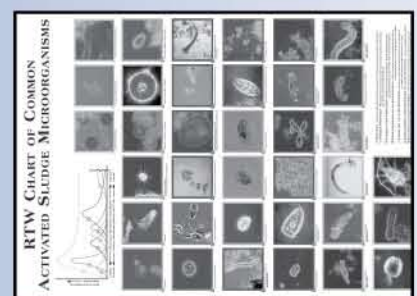
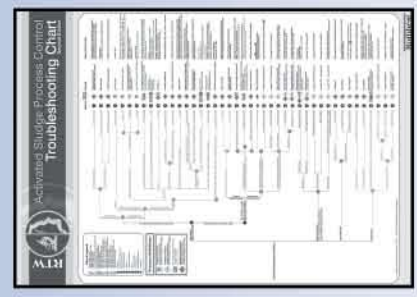
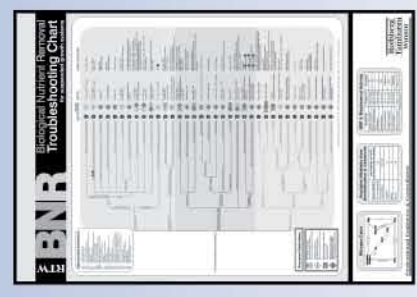


Chart of Common Activated Sludge Microorganisms, \$59.95



Activated Sludge Troubleshooting Chart, \$69.95



Biological Nutrient Removal Troubleshooting Chart, \$69.95



Ciliated Protozoa Micro-Identification Keys, \$27.50



Operations Toolset-Activated Sludge, \$159.95



Bacteriological Stain Kit, \$309



Filter Bed Media Tools, 16' - \$225, 20' - \$250

Don't forget the RTW-Licensed software sold through AWWA: Water Softening Calculation Model, Model for Water Process & Corrosion Chemistry, Blending Application Package

Education & Training

WATER AND WASTEWATER

- Mar 4-6:** Activated Sludge Process Control • Seattle
- Apr 21-23:** Activated Sludge Process Control • Las Vegas
- May 13-14:** Biological Nutrient Removal • Ann Arbor
- Jul 14-16:** Process Control thru Microbiology/Microscope • Las Vegas
- Aug 12-13:** Biological Nutrient Removal • Denver
- Oct 27-29:** Activated Sludge Process Control • Las Vegas
- Nov 10-12:** Activated Sludge Troubleshooting & Optimization • Las Vegas



TETRA TECH RTW

Rothberg, Tamburini & Winsor is now Tetra Tech RTW

WATER & WASTEWATER TRAINING

Tetra Tech RTW offers training for industrial and municipal clients in pre-scheduled classes, and in customized on-site training at the clients' facilities.

Over the past 15 years, the trainers of Rothberg, Tamburini and Winsor (RTW), now Tetra Tech RTW, have developed a program of courses, troubleshooting tools, and software applications that provide insight, best practices and operational tips designed for performance optimization of water and wastewater processes. By sharing our operational and design experiences through these different programs, we can help facilities realize significant savings and improved operational performance. Tetra Tech RTW has trained over 8500 students from 20 countries, including operators and managers from over 1500 U.S. plants.

ACTIVATED SLUDGE PROCESS CONTROL (ASPC)

CONTACT HOURS: 24



Take control of your activated sludge process through an understanding of the complex biological processes, and applying solid laboratory techniques and updated control technologies. This course teaches monitoring and process control for the benefit of the microorganisms while improving operations and effluent quality. (3 day) \$995

Tetra Tech RTW's ASPC also includes your own personal copy of the Activated Sludge Process Control Troubleshooting Chart- 2nd Edition with a cd-rom User's Guide.

"In my 36 years in this field this is the best class I have attended"

Day One Process Control Program Process Variations & Overview Basic Activated Sludge Microbiology Representative Data Collection	Day Two Settleometer Test Return Control Mass Balance Oxygen Uptake/Respiration	Day Three Nitrification/Denitrification Physical Observations Filament, Foams & Slime Control Pressures & Process Control Plan Step Feed
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ACTIVATED SLUDGE TROUBLESHOOTING & OPTIMIZATION

CONTACT HOURS: 24



Enhance process knowledge and plant performance through advanced problem-solving in essential microbiology and biochemistry, analytical procedures and data evaluation for process control, mass balance, aeration optimization and wasting, and return control. (advanced ASPC students, 3 day) \$895

"I really enjoyed the Activated Sludge Troubleshooting and Optimization class ...I would highly recommend Tetra Tech RTW for anyone desiring high quality, cutting edge wastewater training."

Day One Physical Observations Return Control Mass Balance, SOUR Data Analysis	Day Two Data Collection programs ORP Bulking Control Wasting Control	Day Three Data Analyses System Loadings Trend Charting Unit Capacity Analysis
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Using prepared case studies of actual plants whose operations were improved by Tetra Tech RTW during site visits, you will learn from the experience of others and identify how you might be able to achieve process improvements and dollar savings at your plant.

www.tetrattechrtw.com

BIOLOGICAL NUTRIENT REMOVAL

CONTACT HOURS: 12.5



Learn techniques to save money and improve effluent quality at the same time, and also improve Nitrogen and Phosphorus removal. Save energy, improve controls and design, and conduct proper sample and data collection. Identify the value of VFDs, off peak usage, reduction of demand charges. Students can return to their facilities with ideas for optimizing process controls, cutting costs, producing higher quality effluent, and improving sludge settleability. (2 day) \$595

"I thought your BNR class was the best thing I've been to in a long time."

"Instructors were amazing"

Day One
Workshop-Chemistry for BNR
Overview-Nitrogen Removal
Workshop- Microbiology Review
Bacterial Growth/Measurement
Nitrification / Denitrification
Workshop-Alkalinity & O₂ Transfer
Process Control for N-Removal

Day Two
Workshop- Nitrogen Control
Biological Phosphorus Removal
Microbiology of Phosphorus Removal
Process Configurations for Bio-P,
N & P Removal
Workshop- Bio-P problems

UNDER THE MICROSCOPE: PROCESS CONTROL THROUGH MICROBIOLOGY

CONTACT HOURS: 24



Get a working knowledge of microbiology in a laboratory setting, with hands-on microscopy exercises and staining techniques, identification of filamentous microorganisms, protozoa and metazoa. Learn proven Tetra Tech RTW techniques you can employ in the optimization of Activated Sludge Process Controls. (3 day) \$995

"Your course has repaid itself many times over in just the cost savings of chemicals used alone, not counting the benefit of a more efficient plant operation."

Day One Microbiological Basis of ASPC Protozoa & Metazoa Bacterial Growth & Metabolism Using Microscope- Lab Biological Nutrient Removal	Day Two Floc & Free-Water Analysis- Lab Other Process Control Tools Ciliated Protozoa Protozoa/Metazoa - Lab Filament Identification & Staining	Day Three Filament Identification- Lab Filament Control Evaluation of Lab Samples
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Diploma Series

Enroll in the Tetra Tech RTW Diploma series and join the ranks of the most highly-trained professionals in Wastewater. The Tetra Tech RTW Diploma is over 84 hours (4 classes above) of continuing education in the operation, optimization, maintenance and operational design of activated sludge systems. Save with course discounts and enhanced plant operations. \$199

- Tetra Tech RTW Ciliated Protozoa ID Keys (\$30 value).
- 10% off all purchases of Tetra Tech RTW Technical Products
- Credit of registration fee at final/4th class

www.tetrattechrtw.com/diploma

On-Site Training

Tetra Tech RTW can customize training and troubleshooting to fit the client's needs. Half-day, full-day and multi-day courses can be created to serve each facility's unique treatment needs while incorporating standard training materials, case studies and proven curriculums.

"I really enjoy your classes because of the practical applications and the fact that you are a very energetic and interesting lecturer. The troubleshooting exercises and operational considerations are things you just don't learn and cover in a college classroom." (Industrial, custom on-site student)

In addition to training, Tetra Tech RTW can provide engineering and consulting expertise to resolve some of the most challenging management, process, and planning issues in water and wastewater engineering today. With a diverse staff of civil, mechanical and electrical engineers, microbiologists chemists, and utilities consultants, Tetra Tech RTW can work with clients to solve complex operational, design, process, industrial, max-day, and performance challenges.

Ronald G. Schuyler, P.E., B.C.E.E. is a senior engineer and microbiologist who leads operator training, facility evaluations, process design, and troubleshooting. Ron brings nearly 40 years of training experience (CO Health Dept. and in treatment plants) with an M.S. in Microbiology and a B.S. in Civil Engineering. With a goal to increase the effectiveness and efficiency of students' facilities, saving time and money, Ron teaches tips and methodologies that can be put into practice.

"Ron Schuyler has fast become the country's most sought after process control activated sludge microbiologist!"

"Generally see no reason to look for another training source."

Joseph R. Tamburini, P.E. is responsible for training, troubleshooting, and capacity evaluations, as well as planning, design, and construction of wastewater and water treatment plants. Through ASPC training and CPEs, he targets improving performance, reducing operating costs, and enhancing existing systems to meet biological nutrient removal requirements. He is an expert in computer modeling and process simulations, and manages updates to RTW-licensed AWWA software.

Steven J. Tamburini, P.E. is an instructor for the BNR Course, and leads projects in facility design and planning, process troubleshooting, capacity evaluations, O & M Manuals and masterplans. He holds a B.S. in Environmental Engineering, and is an expert in biological nutrient removal. Steve incorporates computer simulated process modeling for use in design and consulting (fastest way to evaluate the complex interactions of different operational scenarios for wastewater

H. C. Liang, Ph.D. specializes in chemical processes for removal of inorganic contaminants and is Tetra Tech RTW's leader in examining the emerging field of endocrine disruptors (EDCs). H.C. has taught and conducted detailed research in environmental chemistry as a former Assistant Professor and holds a B.S. in Biochemistry, an M.S. in Environmental Engineering, and a Ph.D. in Inorganic Chemistry. He is a leader in water and wastewater treatment, including simultaneous arsenic, antimony, and manganese removal at plants.

Linda Firth, M.P.A. brings over 40 years of utilities employment and utilities consulting experience in conservation, public education, public involvement, public attitude research, training and meeting facilitation, and coordination and networking to bring diverse groups into cohesive units. She can assist clients with public relations and public process training.

** Other guest speakers may be added. Visit www.tetrattechrtw.com for complete instructor biographies and schedule of events.*

