

R8PA Voting Members 2017-2018

Chair	Spencer Parkinson South Valley Water RF, UT sparkinson@svwater.com Region8pa@gmail.com
Vice Chair	Chris Scott Security Water & Sanit. Dist., CO c.scott@securitywsd.org
Secretary	Jeff Macfarlane North Davis Sewer District, UT jmacfarlane@ndsd.org
Treasurer	Adam Butterfield Jordan Basin WRF, UT adamb@jordanbasin.com
Colorado Member at Large	Nancie Hinline Parker Water & Sewer, CO nhinline@pwsd.org
Montana Member at Large	Vacant
North Dakota Member at Large	Bill Gefroh City of Bismarck, ND bgefroh@bismarcknd.gov
South Dakota Member at Large	Leah Harris City of Rapid City, SD leah.harris@rcgov.org
Utah Member at Large	Brad Jones Logan City, UT bjones@loganutah.org
Wyoming Member at Large	Vicki Dowdy Cheyenne BOPU, WY vdowdy@cheyennebopu.org

Workshop Schedule

Monday, May 7, 2018

Time	Event
4:00 - 5:30 PM	Early Registration
6:00 PM	Networking

Tuesday, May 8, 2018

6:45 - 7:45 AM	Breakfast Provided by R8PA
7:00 - 7:45 AM	Registration
8:00 - 10:00 AM	Technical Session
10:00 - 10:15 AM	Break
10:15 - 12:00 PM	Technical Session
12:00 - 1:30 PM	Lunch Provided by R8PA
1:30 - 3:00 PM	Technical Session
3:00 - 3:15 PM	Break
3:15 - 5:00 PM	Technical Session
6:30 PM	Networking

Wednesday, May 9, 2018

6:45 - 7:45 AM	Breakfast Provided by R8PA
8:00 - 10:00 AM	Technical Session
10:00 - 10:15 AM	Break
10:15 - 12:00 AM	Technical Session
12:00 - 1:00 PM	Lunch on your own
1:00 - 5:00 PM	Networking Activities

Thursday, May 10, 2018

6:45 - 7:45 AM	Breakfast Provided by R8PA
8:00 - 10:00 AM	Technical Session
10:00 - 10:15 AM	Break
10:15 - 12:00 PM	Technical Session
12:00 - 1:30 PM	Lunch Provided by R8PA
1:30 - 3:00 PM	Technical Session
3:00 - 3:15 PM	Break
3:15 - 5:00 PM	Technical Session
6:00 PM	Networking

NETWORKING ACTIVITIES

VISIT-

GLEN CANYON DAM

BIKE RIDE-

MOUNTAIN BIKE THRU
THE GLEN CANYON
NATIONAL RECREATION
AREA

HOSPITALITY SUITE-

OPEN MONDAY-THURSDAY
NIGHTS
6PM-12PM

DRINKS & HORS'DEVOURS
PROVIDED

SOUTH DAKOTA & NORTH DAKOTA ATTENDEES

PLEASE MEET WITH
AL GARCIA IN THE
HOSPITALITY SUITE AT
5:30 PM ON TUESDAY TO
DISCUSS STATE UPDATES

Region 8 Pretreatment Association 28th Annual Workshop Page, Arizona May 8-10, 2018 Agenda		
Monday PM		
4:30 — 6:00 PM	Early Registration	
Tuesday AM		
7:00 - 7:45 AM	Registration	
8:00 AM	Logistics, Introductions and General Information	Spencer Parkinson, R8PA Chairman
8:10 AM	Opening Speaker	Lexi Woodward, Page Chamber of Commerce
8:20 AM	State Updates	State Coordinators
8:30 AM	EPA Update	Al Garcia, EPA Region 8
9:00 AM	Mad as a Hatter about Mercury Local Limits	Terry Alber, City of Boise
10:00 AM	Break	
10:15 AM	Controlling Hauled Waste - Small Volumes with Big Impact	Brian Allen, Shealy Consulting
11:00 AM	Member's Only Session	R8PA Board Mem- bers

NOTES

Region 8 Pretreatment Association
28th Annual Workshop
Page, Arizona
May 8-10, 2018
Agenda

Tuesday PM

Noon	Lunch	
1:30 PM	Vendor Introductions	
1:45 PM	Environmental Enforcement: A Team Approach	Ron Lund, SLVHD
3:00 PM	Break	
3:15 PM	Dental Amalgam Rule Implementation	Al Garcia, Region VIII EPA
4:00 PM	Controlling Toxicity Caused by Industrial Users	Laura Davis, Shealy Consulting

Wednesday AM— Local Limits

8:00 AM	Local Limits 101, 201, 301, & 401	Jennifer Robinson, Utah DWQ
10:00 AM	Break	
10:15 AM	Local Limits 101, 201, 301, & 401	Jennifer Robinson, Utah DWQ

Networking Activities

12:00 PM	See Page 5
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NOTES

Region 8 Pretreatment Association
 28th Annual Workshop
 Page, Arizona
 May 8-10, 2018
 Agenda

Wednesday AM— Inspections 101

8:00 AM	Cerakoting? What is it and is it Metal Finishing	Adam Butterfield, South Valley Sewer District
8:30 AM	The World of Inspections	Sarah Leavitt, Payson City
9:00 AM	Dental Amalgam Rule Q&A Session	Al Garcia, Region VIII EPA
10:00 AM	Break	
10:15 AM	Medical Institution Inspections	Spencer Parkinson, SVWRF
11:00 AM	Business Inspections	Sheri Duren, City of Boulder
11:30 AM	The Art of Inspection	Lindsay Lefe- vor, Salt Lake City

Wednesday AM— Program Implementation

8:00 AM	Assorted Roundtable Topics	R8PA Board Members
10:00 AM	Break	
10:15 AM	Assorted Roundtable Topics	R8PA Board Members

NOTES

Region 8 Pretreatment Association 28th Annual Workshop Page, Arizona May 8-10, 2018 Agenda		
Thursday AM		
8:00 AM	Announcements	
8:10 AM	Professional Challenge Area: Pretreatment & Storm Water	John Rowe, Office of Water Programs
9:00 AM	"What to Expect from a Pretreatment Compliance Inspection"	Emilio Llamozas, Region VIII EPA
10:00 M	Break	
10:15AM	Using GIS in Pretreatment	Nick Seals, City of Rock Springs
11:15 AM	Pretreatment Program Management: A Seamless Transition	Terrence Price, Salt Lake City
Noon	Lunch	
Thursday PM		
1:30 PM	Isolation and Containment: A grease management strategy to help your worst offenders comply	Jane Debbage, Thermaco
2:00 PM	Importance of Partnerships Between Industry and Government	Chris Perez, Allegion
2:30 PM	EPA/CID Cases	Jude Densley, EPA CID
3:00 PM	Break	
3:15 PM	Developing a Criminal Case	Alex Huggard & Ron Lund, Enviro Crimes Task Force
4:45 PM	Closing Remarks -	Spencer Parkinson, R8PA Chairman

NOTES

Presenters and their contact information:	
Terry Alber City of Boise- Talber@cityofboise.org (208) 608-7523	Brian Allen Shealy Consulting ballen@shelayconsulting.net (803) 317-4811
Adam Butterfield South Valley Sewer adamb@svsewer.com (801) 617-1071	Laura Shealy Davis Shealy Consulting ldavis@shealyconsulting.net (803) 582-7996
Jane Debbage Thermaco jane@thermaco.com (800) 633-4204	Jude Densley EPA CID densely.jude@epa.gov (801) 524-5174
Sheri Duren City of Boulder durens@bouldercolorado.gov (303) 413-7362	Al Garcia EPA Region 8 garcia.al@epa.gov (303) 312-6328
Alex Huggard Salt Lake County District Attorney Office ahuggard@slco.org (385) 468-7764	Sarah Leavitt Payson City sarah.leavitt.paysoncity@gmail.com (801) 465-5277
Lindsay Lefevor Salt Lake City Corp. Public Utilities lindsay.lefevor@slcgov.com (801) 799-4041	Emilio Llamozas EPA Region 8 llamozas.emilio@epa.gov (303) 312-6407
Ron Lund Salt Lake Valley Health Department rlund@slco.org (385) 468-3902	Chris Perez Allegion chris.perez@allegion.com (719) 896-3119
Spencer Parkinson South Valley Water sparkinson@svwater.com (801) 495-5452	Terrence Price Salt Lake City Corp. Public Utilities terrence.price@slcgov.com (801) 799-4041
Jennifer Robinson Utah DWQ jenrobinson@utah.gov (801) 536-4383	John Rowe Office of Water Programs john.rowe@owp.csus.edu (386) 961-1397
Nick Seals City of Rock Springs nick_seals@rswy.net (307) 352-1466	

Region 8 Pretreatment
Association
28th Annual Conference
Page, Arizona
May 8-10, 2018

Notes

Overview of Presentations

Tuesday - May 8, 2018
General Session

8:00-8:10 AM- **General Session**

Logistics, R8PA introductions and general information.

8:10-8:20 AM- **Opening Speaker**

8:20-8:30 AM- **States Updates**

The representative from the States will be giving a update of things occurring in their area.

8:30-9:00 AM- **EPA Updates**

The EPA Updated Presentation is intended to provide outreach and education to Pretreatment programs regarding upcoming rules, guidelines, and policies currently in development by EPA.

9:00-10:00 AM- **Terry Alber, City of Boise Mad as a Hatter about Mercury Local Limits**

The City of Boise initiated mercury reduction activities in 2004 and accomplished a 40% reduction in mercury discharges to the system by 2012. The City of Boise's 2012 Wastewater NPDES permits contained new low numeric mercury limits (9 ng/L monthly average and 19 ng/L daily maximum) based on aquatic life standards that appeared to be attainable based on high quality historical discharge data. Even though Boise historically had very low observed effluent mercury levels, the West Boise Water Renewal Facility (WRF) immediately experienced numerous, unexplainable, and substantial exceedances of the new low mercury permit limits. In response to other permit requirements, Boise City initiated a Local Limits Assessment. Utilizing EPA's 2004 Local Limits Development Guidance and EPA Region 7 Local Limits spreadsheet, Boise City developed a mercury Local Limit. EPA approved the Local Limit Assessment and mercury local limit, City Council approved the ordinance modification, and Pretreatment began to implement the new Local Limit for mercury. Implementation of the mercury Local Limit is four-pronged: (1) All industrial users are required to meet the 0.7 µg/L concentration limit; (2) Larger Significant Industrial Users (SIUs) (i.e. those discharging over 1000 gallons per

day) are also required to meet a monthly average mass loading limit; (3) the existing voluntary dental Best Management Practice (BMP) program was enhanced to include mandatory amalgam separators; and (4) the West Boise WRF ceased accepting septage. This four-pronged approach to implementation is protective of the sewer system and plants, equitable in its treatment of the various classes of Users, and enforceable. It also focuses on two of the remaining controllable sources of mercury within the system, septage and dental amalgams. Post septage-receiving data trends show additional reductions below 2010 effluent discharge levels to the river.

10:00-10:15 - Break

10:15-11:00 AM- **Brian Allen- Shealy Consulting**

Controlling Hauled Waste - Small Volumes with Big Impact

There is a need to improve on regulatory control of hauled wastewater in order to comply with the POTW's National Pollution Discharge Elimination System (NPDES) requirements and to protect the wastewater treatment facility. Hauled waste generally is associated with small volumes, however this type of waste can have a considerable impact to your wastewater treatment facility. Unregulated Waste Haulers can put your facility at risk and the environment you are responsible to protect. This presentation will discuss ways to control this type of high strength wastewater and develop a program to keep waste haulers honest about what they are discharging into your facility.

11:00 AM-Noon- **R8PA Board**

"Member's Only Session"- Open discussion to be led by members of the R8PA Board. Anonymous questions have been submitted and will be displayed for discussion purposes. Regulators are dismissed during this section.

Noon - 1:30 PM - Lunch

1:30-1:45 PM- **Vendor Introductions**

Come and meet this years vendors that assist in promoting the conference.

Summary of Presentations:

1:45-3:00 PM- **Ron Lund, Salt Lake Valley Health Department**

Environmental Enforcement: A Team Approach

This presentation will review permits and services provided by the Health Department and opportunities to partner with a Health Department for pollution prevention education, enforcement, and resource to improve pretreatment outcomes. Salt Lake County has a pollution prevention program that educates specific business types about hazards they present to the community if the waste streams are not properly managed. The Department's enforcement processes include businesses providing a pollution prevention plan and employee training, increased grease trap pumping, and other actions when illicit discharges occur.

The presentation will include a case study that asks participants to discuss questions like: What partners should be involved? What enforcement tools may be used to resolve the violation? Provide education or do more? What are short and long term steps to prevent or limit reoccurrence? What information does pretreatment have that benefits an investigation? And what can be done to have a better team and improve outcomes.

3:00-3:15 - Break

3:15-4:00 PM- **Al Garcia, Region VIII EPA**

Dental Amalgam Implementation

If you are concerned with implementing the new dental amalgam rule come hear from the Region VIII EPA Pretreatment Coordinator about how to apply this rule to your program.

4:00-5:00 PM- **Laura Shealy Davis, Shealy Consulting**

Controlling Toxicity Caused by Industrial Users

Despite much controversy between science and policy over the use of toxicity testing as an enforcement tool, permits with whole effluent toxicity testing requirements have become commonplace in NPDES programs nationwide and are bound to be part of the permitting landscape for years to come. With the increased use of WET testing in the US and regulatory-driven WET limits, concerns regarding the role that industrial

Summary of Presentations

users have on toxicity failures continue. This presentation will discuss the implementation of specific measures that can be used to support a municipal facility's industrial pretreatment program to ensure that industrial users do not cause WET exceedances. Two case studies will also be discussed.

Wednesday - May 9, 2018

Local Limits Breakout

8:00-Noon- **Jennifer Robinson, Utah DWQ**
Local Limits 101, 201, 301, & 401

Have you ever wanted to determine how to develop local limits for your own facility? Does the guidance manual seem daunting and overwhelming to you? Come and learn about the guidance manual, some tips, and calculations necessary to develop defensible local limits. Bring a computer if you have one available.

Wednesday - May 9, 2018

Roundtable Breakout

8:00-Noon- **Assorted Moderators**

Roundtable Topics:

- Special Discharge request considerations
 - Inspection Techniques
 - Industrial Waste Survey Processes
 - Implementing BMPs in Permits
 - Dental Inspections - What to Look for
 - Local Limits, are They Needed?
 - Understanding and Interpreting Lab Data
 - Tips for Investigating Non-Compliance
 - Zero Discharge Permits
-

Wednesday - May 9, 2018- Networking Networking Activities



GLEN CANYON DAM TOURS



**Wednesday - May 9, 2018 - Networking
Networking Activities**



**FOR MOUNTAIN BIKING SEE
AL GARCIA OR EMILIO LLAMOZAS**



Summary of Presentations

**Wednesday - May 9, 2018
Inspections Breakout**

8:00 AM-8:30 AM- Adam Butterfield, South Valley Sewer District

Cerakoting? What is it and is it Metal Finishing

This class is design to educate Pretreatment personnel on fundamental understanding of Pretreatment specific process under Metal Finishing. Overview on core processes and the requirements found in 40 CFR 433 Metal Finishing with emphasis on Coatings. Provides understanding on techniques on how to identify these specific processes that use different names or company specific names such as Cerakoting or Alodining. Help in identifying sources of these processes.

**8:30-9:00 AM- Sarah Leavitt, Payson City
The World of Inspections**

- Intro and purpose of inspections
- Documentation during inspections
- Lessons learned

9:00 AM-10:00 AM- Al Garcia, EPA Region VIII

Dental Amalgam Q&A Session

Come and ask any questions that you have yet to receive answers for pertaining to the dental amalgam ruling.

10:00 - 10:15 AM - Break

10:15-11:00 AM- Spencer Parkinson, South Valley Water Reclamation Facility

Medical Institution Inspections

What do medical facilities, nursing homes, and pharmacies do with all their expired prescription waste? Not to mention all the other issues that are derived from these types of facilities. Should we be monitoring these facilities under a sector control program?

Summary of Presentations:

Wednesday - May 9, 2018 Inspections Breakout

11:00-11:30 AM- **Sheri Duren, City of Boulder**

Business Inspections

Does the thought of inspecting small commercial businesses freak you out? This presentation will provide tips and tricks to use to prepare and conduct these important inspections.

Why inspect non-significant users when most will never be permitted? Our mission is to know what businesses are in our service area so that we can characterize them accordingly. The types of businesses that usually fall into this category include breweries, biotech, pharmaceutical research & development, and restaurants.

Part of the presentation will outline to how to create a non-permitted database to keep all this information readily available. All business information goes into the database even establishments that have no process discharge. The presentation will introduce you to using the

Secretary of State's website in your state to find more information on a business.

The discussion will move to information you should gather in order to characterize the business process and discharge. This will allow you to determine confidently if a permit or further follow-up is needed.

11:30-Noon- **Lindsay Lefevor, Salt Lake City**
The Art of Inspection

Conducting inspections is part art, part science, and a large part preparation. Inspections are a fundamental tool for evaluating Industrial User compliance with Federal and local pretreatment standards and regulations and help accomplish the Pretreatment Program goal of preventing pass-through and interference at the Publicly Owned Treatment Works (POTW). While the fundamentals of an inspection remain, the vastly different industry types encountered in the Pretreatment each present a unique challenge. This presentation will provide examples of two categorical industrial inspections, highlight important questions to ask, focus on specific needs of those industries, and identify possible deficiencies.

Summary of Presentations:

Thursday - May 10, 2018 General Session

8:00-8:05 AM- **Announcements**

8:05-9:00 AM- **John Rowe, Office of Water Programs California State University Sacramento**

Professional Challenge Area: Pretreatment & Storm Water

To implement an effective industrial pretreatment program, public wastewater treatment facilities must have an industrial pretreatment inspection program. Inspection programs must have a clear definition of strategy, defined expectations, resources, and finances. This session helps wastewater treatment plant personnel to develop strategies and implement techniques for optimizing a program.

Learner Outcomes:

Describe an effective industrial pretreatment inspection protocol.

Outline the components of an industrial pretreatment inspection checklist.

Explain the purpose of an industrial pretreatment inspection.

9:00-10:00 AM- **Emilio Llamozas, EPA Region VIII**

"What to Expect from a Pretreatment Compliance Inspection"

The focus of this presentation is to discuss pretreatment compliance inspections and EPA guidance manuals that could help POTWs address some of the common findings found during the inspections. This presentation will provide the audience with general information of a pretreatment compliance inspection and some common findings identified during pretreatment compliance inspections. The presentation will provide the attendees with information from EPA Guidance Manuals that could help improve their pretreatment programs. Some of the EPA guidance materials that will be discussed are the 2017 Industrial User Inspection and Sampling Manual for POTWs and the 2012 Industrial User Permitting Guidance Manual.

Summary of Presentations:

10:00 - 10:15 AM - Break

10:15-11:00 AM- **Nick Seals, City of Rock Springs**

Using GIS in Pretreatment

Geographic Information Systems, GIS, is a fancy term for mapping. Knowing where stuff is at can help every day. GIS can help with simple tasks, directions, to more complex data management techniques, industrial user inspections. This presentation will take a look at some of the uses of GIS in Pretreatment

- Sewer line location and flow direction can help with pollutant backtracking.
- Industrial user mapping can show the broad picture of sewer line loading.
- Analytical results can help backtrack to the source of pollutants.
- Mobile GIS can simplify everyday tasks.

11:00-Noon- **Terrence Price, Salt Lake City**

Pretreatment Program Management: A Seamless Transition

Is your program prepared for the loss of key staff? When long-term management staff depart the program, key institutional knowledge can be lost. The insight and knowledge gained over time to effectively administrate and manage your pretreatment program often partially or wholly resides in the mind of key staff. Documentation of program procedures and decision-making logic is critical for continued consistent implementation of a pretreatment program. Internal program audits can be an effective tool to identify shortfalls in operating procedures and documentation of decision making protocols and also help to ensure the robust capture of knowledge when staff changes occur. The identification and correction of data and documentation shortfalls can provide your program with more seamless program transitions, facilitate continued compliance, provide continuity to industrial users, and generate a higher degree of program management certainty for city administrators.

Due to recent staff changes, the Salt Lake City Pretreatment Program had the opportunity to fully

Summary of Presentations:

vet their program and identify areas where institutional knowledge was lost creating transitional challenges. This presentation will provide a summary of their challenges and efforts to provide for better knowledge retention and future seamless program transition.

Noon - 1:30 PM - Lunch

1:30-2:00 PM- **Jude Densley, EPA CID**

Criminal Pretreatment Enforcements

When people and businesses violate the CWA standards they can be prosecuted. Come and learn about two pretreatment specific criminal cases that occurred in Region VIII.

2:00-2:30 PM- **Chris Perez, Allegion**

Importance of Partnerships Between Industry and Government

- Overview of Company
- Wastewater Permit
- Commitment to compliance Values
- Graph
- Staffing qualifications
- Training
- Partnership summary

2:30-3:00 PM- **Jane Debbage, Thermaco**
Isolation and Containment: A grease management strategy to help your worst offenders comply.

Isolation and containment is a grease management strategy involving an interior point source solution installed as close as possible to the 3-compartment and pre-rinse sink to catch a majority of the grease at the source. This is considered the first-line of defense. As secondary protection, an outside grease interceptor is installed to collect any additional grease production. This reduces the risk of emulsification as the effluent from the 3-compartment and pre-rinse sink travels through the pipes to the outside grease interceptor, which can be a long run. Isolation and containment can be an additional methodology to properly protect a city's sewer system against grease blockages.

Summary of Presentations:

3:00-3:15 Break

3:15-4:45- Lt. Alex Huggard & Ron Lund, Salt Lake County Enviro Crimes Task Force

Developing a Criminal Case

This presentation will discuss teamwork in building a case, using all enforcement options available, and the tools to build a criminal case. The presentation will include insight to case management as a regulator that benefits law enforcement in a criminal case investigation. There will be two case studies that requires participants to apply their experience and knowledge from the presentation, decide on steps to build a civil and criminal case, partners to include in an investigation, enforcement tools available to solve the environmental issues, and the impacts regulators may have on a criminal case, good

4:45 PM-Close R8PA Chairman

Closing Remarks

Bios of Presenters

Terry Alber, City of Boise-

Terry Alber is the Pretreatment Coordinator for the City of Boise. He has worked for the City for 14 years in the Pretreatment Program and as program manager since 2014. He holds a Master's of Science degree in Environmental Science from the University of Colorado-Denver and is a State of Idaho Environmental Engineer-in-Training.

Brian Allen, Shealy Consulting, LLC-

Brian, a NC Air National Guard veteran, has worked in the pretreatment field for almost 30 years. Brian was employed by the City of Rock Hill, South Carolina for 28 years before joining Shealy Consulting, LLC as Director of Pretreatment Services. Brian is familiar with all aspects of pretreatment including the new dental amalgam requirements and FOG programs. He has a C level operator license in both Physical/Chemical and Biological Wastewater. On a personal note, Brian has three children and his hobbies include spending time with family, cooking, camping, and community volunteering.

Adam Butterfield, South Valley Sewer District-

In 2006 while working for Salt Lake City Corporation, Adam changed jobs from the clean water side into Pretreatment as a Wastewater Quality Assurance Sampler/Inspector. During his time with SLC, Adam helped in the complete reorganization of the SLC Pretreatment Program to meet Federal and State requirements. In 2011, Adam was hired as a Pretreatment Inspector/Sampler by South Valley Sewer District to help develop a new Pretreatment Program. Adam has his Collections IV and Wastewater Treatment II certificates. Adam loves being in Pretreatment.

Laura Shealy Davis, President Shealy Consulting-

Laura is a graduate of the University of South Carolina and is a native South Carolinian. She has performed toxicity testing and toxicity identification evaluations for over 30 years and has authored hundreds of technical reports and presented at meetings across the US and Canada. She has been involved with dozens of toxicity and site specific development projects in the Carolinas, Virginia as well as numerous other states and Canada. In 2003, she was awarded the Water

Bios of Presenters

Environment Federation (WEF) National Laboratory Analyst Excellence Award and in 2013 was inducted into the 5S Society and received the Noel M. Hurley Membership award from the SC Water Environment Association (SCWEA). Laura has been the Chair of the Water Environment Association of South Carolina (WEASC) Industrial Pretreatment Committee 2012, 2013, 2014, 2017 and again in 2018. On a personal note, Laura is a pilot and with her husband has four children and two grandchildren.

Jane Debbage, Thermaco-

Jane Debbage is the Sales and Marketing Manager for the Trapzilla Grease Interceptor line. She works to make it easier for restaurants and commercial kitchens to properly protect their city's sewer system from a variety of grease related issues. Jane holds a BS in business administration from NC State and a MBA from the UNC-Greensboro.

Jude Densley, EPA CID-

Jude Densley is currently the Special Agent and Resident Agent-in-Charge for the U.S. Environmental Protection Agency, Criminal Investigation Division in Salt Lake City, Utah. Jude has been employed by EPA CID since September of 2010. Responsibilities include conducting investigations of alleged criminal violations of federal statutes, including the Clean Water Act, the Resource Conservation and Recovery Act, and the Clean Air Act, among others. Jude has over 21 years of investigative experience on a state and federal level to include crime scene, securities fraud, money laundering, narcotics, and child exploitation, among others.

Sheri Duren, City of Boulder-

City of Boulder - 1999—Present

- Water Quality and Environmental Services
- Water Quality Specialist
 - Permit writer and compliance specialist for 14 permitted industrial users, including metal finishers and pharmaceutical manufacturers.

Bios of Presenters

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- Industrial Pretreatment Inspector
 - Inspector for permitted industrial users and investigated spills and complaints
 - Wastewater Treatment Facility
 - Process Optimization

State of Tennessee - 1993—1999

- TN Department of Environment and Conservation - Water Pollution Control
- Various Field Offices
- Department of Energy (DOE) Oversight
 - Conducted inspections including wastewater, storm water, and pretreatment compliance at wastewater treatment facilities;
 - Investigated spills and other complaints
- BS Civil & Environmental Engineering - Tennessee Technological University

Al Garcia- Region VIII EPA

Al Garcia is the EPA Region 8 Pretreatment Coordinator. Region 8 directly implements and enforces the Pretreatment program in Colorado, Wyoming, and Montana. North Dakota, South Dakota, and Utah are authorized for the Pretreatment program.

Prior to being hired at EPA in 2008, Al "served in the trenches" and has significant local experience providing regulatory control to industrial and commercial facilities, including sampling, inspections, permit writing, and enforcement. Al has a BS degree in Biology and Chemistry from the University of Northern Colorado.

Lt. Alex Huggard- Salt Lake County District Attorney's Office

Experience

1974-1977	Park City Police Department
1977-2001	Murray Police Department
2001-2017	Salt Lake County District Attorney's Office/Environmental Crimes Unit

Bios of Presenters

Training & Expertise

41 years experience as a law enforcement officer.
4 years as a K-9 officer
2 years on Murray S.W.A.T.
10 years working undercover narcotics with F.B.I., D.E.A., Metro Narcotics Task Force, fraud investigations, white collar crimes, property crimes, sex crimes, adult and child homicides, arson crimes, officer involved shootings, officer involved critical incidents investigations and environmental crimes are just some of the many great assignments he feels he has had the good fortune to be involved. Expert court witness regarding firearms and use of force.

Instructor for the Utah State Police Academy regarding undercover narcotics, sex crimes, and officer involved critical incidents and firearms.

Instructor for the Utah Police Officers' Association regarding officer involved shootings, documentation of training and use of firearms, and handgun and rifle training.

Current Assignment

Since 2010, Lt. Huggard has been assigned to the Environmental Crimes Unit of the Salt Lake County District Attorney Office.

The Environmental Crimes Unit is a multi-agency collaboration with the Salt Lake County Health Department and all City, County, and Federal agencies investigating environmental crimes.

Since 2010, the Environmental Crimes Unit has investigated and criminally charged more offenders than in the previous 15 years combined.

Sarah Leavitt, Payson City-

I began working for Payson City January 2004 as a Utility Clerk. I transferred to the Sewer Department November 2005 to take the roll of Department Clerk. After four months in the sewer department, I was asked to take over the responsibilities of Pretreatment Coordinator. Needless to say, having limited knowledge of wastewater and industrial pretreatment, I received many hands on learning experiences. I have been fortunate over the past ten years to have many peers in the industry who have helped me learn and grow. I perform every task of the Pretreatment Program from

Bios of Presenters

inspections at industrial users and food establishments to the piles of paperwork that follow. While working for Payson City, I have earned my Grade IV Treatment Certification in 2007 and a Bachelor's degree from BYU in August 2013.

Lindsay Lefevor, Salt Lake City-

Lindsay Lefevor is the Compliance Specialist for Salt Lake City Corporation. Prior to coming to work for Salt Lake City, Lindsay worked as a Project

Manager Intern in Twin Falls, Idaho. Her work in wastewater includes time as a lab analyst, pre-treatment coordinator, and operations. She is a certified Wastewater Operator III and Wastewater Laboratory II. In her free time, she likes to travel and enjoys playing softball.

Emilio Llamozas, Region VIII EPA-

Emilio Llamozas works in EPA's Region 8 Office of Enforcement, Compliance and Environmental Justice specifically within the Water Technical Enforcement Program. Emilio's work involves performing pretreatment compliance inspections in addition to wastewater and stormwater inspections and leading enforcement actions when needed. Emilio began his EPA career in 2003 after graduating from college. He started in the Air and Toxics Technical Enforcement Program where he performed inspections at different air stationary sources (Oil and Gas processing facilities, Portland Cement Plants and landfills). In 2011, Emilio transferred to the NPDES Wastewater Program. His duties include State NPDES Coordinator for the state of North Dakota and Pretreatment Enforcement Lead. Emilio has a BS degree in Chemical Engineering from Brigham Young University.

Ron Lund, Salt Lake Valley Health Department-

Ron Lund has been working in the Salt Lake County Health Department's Environmental Health Division for the past fifteen years. He is the Division's Enforcement and Training Coordinator and works on the after-hours emergency response team. He has been a part of the team for 11 years. He works closely with the County's Criminal Investigator, D.A.'s office and other agencies to assist with Environmental Health investigations. He has developed State Rules, County Ordinances and Health Department Regulations related to Environmental Health.

Bios of Presenters

He has experience in many environmental health fields including: food protection, drinking water, wastewater, e-cigarettes, storm water, pollution prevention education, household hazardous waste, housing, permitted facilities, chemically contaminated properties (meth) and other programs.

He obtained his Masters of Public Health Degree from the University of Utah, is a Licensed Environmental Health Scientist and a HAZMAT Technician. He enjoys time spent on the emergency response team, including; working with other agencies to solve problems, conducting investigations, taking enforcement actions related to Clean Water Act violations, Health Regulations, and State Rule. He educates industry and the public about environmental health and environmental crimes. A highlight of his career is the Health Department's food inspections web page that scores inspections and provides inspection reports online.

Ron is an avid cyclist and soccer player. He enjoys playing games and watching movies with his two daughters, playing soccer, cars, and holding NERF Wars in the basement with his boys. His twin boys are seven and other son, four, thinks they are triplets and keep him laughing. He enjoys dutch oven cooking, puzzles, playing games, and watching movies with his wife.

Spencer Parkinson, South Valley Water-

Spencer has been in the wastewater business for more than 20 years. He began as an entry level Operator and then worked up to a shift supervisor before changing departments. Once he joined Pretreatment he began as the Coordinator and is now the Director of Pretreatment at South Valley Water Reclamation Facility. Spencer holds a Grade IV Wastewater Operator certification, has an associates degree in Environmental Technology, and a bachelors of science degree in Public Administration from Franklin University. Spencer likes to say he got his BS from FU. Spencer is currently attending Brigham Young University (BYU) in the hopes of achieving a master's degree in Public Administration. Spencer has been a member of the Region 8 Pretreatment Association (R8PA) Board for the last six years, three of them as Chairman.

Bios of Presenters

Chris Perez, Allegion-

My name is Chris Perez, I have been with Allegion, formerly Ingersoll-Rand, for 17 years. I am a Registered Industrial Wastewater Professional out of the state of Indiana along with the credentials of Industrial Environmental Manager. I started on the shop floor in our hand polishing department and worked my way into wastewater treatment. While in wastewater treatment, I worked closely with Chris Scott, of Security Water, on permitting, sampling and general work. These days I am working in our EHS department as a Safety Specialist, but have strong ties to the wastewater treatment department, working with Security Water.

Terrence Price, Salt Lake City-

Terrence Price is the Pretreatment program Manager for Salt Lake City Corporation. Prior to his work in pretreatment, Mr. Price worked as an environmental consultant providing project management and quality assurance oversight on large-scale Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Superfund remediation programs on behalf of the Department of Defense (DOD), various municipalities, and multi-national corporations. Mr. Price was responsible to ensure remediation work was performed in compliance with CERCLA, Resource Conservation Recovery Act (RCRA), Toxic Substances Control Act (TSCA), Clean Water Act (CWA), and state and local regulations. During his off time, Mr. Price enjoys spending time in the outdoors and also the quiet solitude of woodworking.

Jennifer Robinson, Utah DWQ-

Jennifer Robinson started working for the Division of Water Quality as an intern in 2000 until 2002, working with Paul Krauth. She graduated from the University of Utah in Civil and Environmental Engineering in 2002. Her father sometimes wonders where she gets her dirty mind, since she works with and wanted to work with sewers. She worked for MWH for six weeks, and then was hired back with Water Quality working in the UPDES

Section regulating industrial and municipal discharges. In 2004, she became the pretreatment coordinator for the State of Utah. She married and became a Robinson. They have two boys and a pound puppy, they live in South Weber and love to

Bios of Presenters

John Rowe, Office of Water Programs CSUS-

I started at Florida Gateway College in 2000 as adjunct and became an Associate Professor of Human Anatomy and Physiology. Over the course of time, I was asked to develop and teach courses in Anatomy and Physiology for online delivery. I also taught courses in the classroom. In 2010, I taught courses in the prison system in the classroom.

A point came when I was asked to develop and teach a program that consisted of water treatment technologies and water quality. These courses lead to an Associate Degree in environmental technology. I became a Professor of Water Resources at Florida Gateway College. Recently, I have been pursuing a PhD in environmental sustainability in order to update my credentials. I should receive this degree in Mach of 2017.

I have 15-years of experience in the water resource industry and 12-years of experience of teaching online classes. I have operated water facilities, and managed treatment plants. I have an A level licenses in drinking water treatment and in wastewater treatment from the state of Florida. I have worked in the regulatory venue concerning water quality, and I have worked in the consulting arena troubleshooting and managing water quality problems for communities, corporations, individuals, and regulatory authorities.

I have been teaching Biology, Microbiology, and Human Anatomy and Physiology for the last 4-years at Coastal Pines Technical College. Recently I relocated to California State University at Sacramento in the position of process engineer. I am presently involved in updating the operator treatment manuals for the Office of Water Programs.

A. Professional Preparation

University of Tennessee, Knoxville, TN
Biological Sciences BS 1969

University of Tennessee, Memphis, TN
Biological Sciences MS 1972

University of Tennessee, Memphis, TN
Biological Sciences Doctorate 1975

Capella University, Minneapolis, MN
Biological Psychology PhD 2008

University of Maryland, Upper Marlboro, MD
Environmental Management, MS 2010

Bios of Presenters

Colorado Technical Institute, Colorado Springs, CO
Environmental Sustainability, PhD 2017

B. Appointments

Current Process Engineer for the Office of Water Programs at Sacramento State

Consultant and technical expert with Florida Environmental & Agricultural Services & Treatment, Inc. & Adjunct instructor at Coastal Pines Technical College

2011-2012 Adjunct Professor, Biological Sciences, Coastal Pines Technical College

2005-2016 Adjunct Professor, Water Resources Management, Florida Gateway College

2005-2012 Professor, Water & Wastewater Treatment, Florida Gateway College

2000-2005 Project Manager for Environmental Engineering Company, CH2MHill

1998-2000 Technical Expert in Water & Wastewater Treatment for Florida Rural Water Association

1975-1998 Designed and Managed Aquaculture Recirculation Facility

C. Publications Most Relevant (Journal Articles)

Rowe, J. (2010). Wastewater Disinfection with Ultraviolet Light. Water System Operator

Rowe, J. (2010). Arsenic Contamination and Remediation. Water System Operator

Rover, J. (2010). Arsenic Contamination. Water Wastewater Digest

Rowe, J. (2010). A Case of Over Pumping. Water System Operator

Rowe, J. (2011). Sources of Mercury Contamination and Remediation. Treatment Plant Operator

Rowe, J. (2011). Coagulation and Flocculation: Chemistry of Water Treatment, Water System Operator

Rowe, J. (2012). Understanding the Disinfection By-Products Rule. Water System Operator

Rowe, J. (2012). Chromium VI Contamination and Remediation. Water System Operator

Bios of Presenters

Rowe, J. (2012). Prevention of Disinfection By-Products. Water System Operator

Rowe, J. (2012). Removal of Taste and Odors from Drinking Water, Water System Operator

Rowe, J. (2013). Drinking Water Disinfection Using Sodium Hypochlorite. Water System Operator

Rowe, J. (2013). Removal of Mercury Contamination from Wastewater, Treatment Plant Operator

Rowe, J. (2013). Disinfection with Sodium Hypochlorite. Water Wastewater Digest

Rowe, J. (2013). Thallium Contamination and Remediation from Drinking Water. Treatment Plant Operator

D. Other Significant Publications (Textbooks)

Rowe, J. (compiled 2009). Water Treatment Operator. Pearson Publishing

Rowe, J. (compiled 2009). Wastewater Treatment Operator. Pearson Publishing

Rowe, J. (compiled 2010). Chemistry and Biology of Natural Waters. Pearson Publishing

Rowe, J. (compiled 2010). Process Control of Wastewater. Pearson Publishing

E. Synergistic Activities

Technical Expert in Water & Wastewater Treatment for Florida Rural Water Association, 2000-2001

Project Manager for Environmental Engineering Company, CH2MHill, 2001-2005

National Award for Public Private Partnership, 2003; Developing Continuing Educational Credits for Water and Wastewater Treatment Operators

National Award for Public Private Partnership, 2005; Conversion of Aerobic Digestion to Anaerobic Digestion for Utility Savings

F. Collaborators & Other Affiliates

Brevard County School District, Water Treatment Career Academy

St. John's County School District, Water Treatment Career Academy

Envirotech, Inc., Best Practices for Lift Station Remediation and Maintenance

Bios of Presenters

Envirotech, Inc., Remediation of Fats, Oils, and Grease in Wastewater Treatment

Editorial Board for Water Wastewater Digest Magazine

Editorial Board for Sage Publications

Nick Seals, City of Rock Springs-

I am the Pretreatment and Collections Supervisor for the City of Rock Springs Water Reclamation Facility. I have worked for the City since March 2009 and have been the Supervisor since July 2015. I currently hold a Level 4 Wastewater Treatment Systems License and a Level 2 Collections Systems License from Wyoming DEQ, as well as a Pesticide Applicator License from the Wyoming Department of Agriculture.

I have lived in Rock Springs my whole life (30 years with 2 years of practice). I married my wife, Mary, in 2011 and we have a beautiful daughter, Kennedy, born in 2017. I enjoy video games, riding my dirt bike and family trips with my girls.

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