

**SILVER STATE**



# Water Environment NEWS



The organization to educate and assist those who have an interest in water quality in Nevada

April/May 2009



## EXECUTIVE BOARD

### President

Dr. David James (702) 895-5804 - Las Vegas

### President Elect

Stephen Long (775) 677-5909 - Reno

### WEF Delegate

Rick Warner (775) 954-4621 - Reno

Eric Leveque (702) 792-3711 - Las Vegas

### Secretary

Angela MacKinnon (702) 878-8010 - Las Vegas

### Treasurer

Gary Hutchinson (775) 861-4100 - Reno

### Past President

Linda Peterson (775) 329-7757 - Reno

### PWO Representative

Charles Trushel (702) 229-2417 - Las Vegas

## CERTIFICATION BOARD

### Chairman

William Shepherd (702) 450-4417 - Las Vegas

### Vice-Chairman

Joe Crim, Jr. (775) 273-2356 - Lovelock

### Program Administrator

Harvey Johnson (775) 832-1289 - Incline Village

### Board Member Support

Jennifer McMartin (775) 465-2045 - Smith

### Board Members

Adrian J. Edwards (702) 267-2700 - Henderson

Kelvin Ikehara (775) 588-3558 - Douglas

Starlin Jones (775) 861-4104 - Reno

John Solvie (702) 229-6547 - Las Vegas



## Attention

There are numerous committee chairs positions that are vacant, Constitution and Bylaws, Water for People, Cal/Nev AWWA Liason and 2010 Conference committee volunteers.

Committee Chair duties and responsibilities can be found at <http://nvwea.org/responsibilities>

Please email Past-President Linda Peterson at [lpeterson@gbis.com](mailto:lpeterson@gbis.com).

# **C O N T E N T S**

**A p r i l / M a y  
2 0 0 9**

## **President's Preamble**

## **Water Environment Federation News & Updates**

## **Certification Board**

## **Professional Services**

**Cover Photo:  
Earth Day - Red Rock Natural Conservation Area**

Would you like to see your photo on the cover of the newsletter? Send in your photos for possible inclusion in an upcoming NWEA Newsletter:

Rob Davies, Publications, [rdavies@brwncald.com](mailto:rdavies@brwncald.com)



# **President's Preamble**

## **By Dr. James**

Greetings NWEA members and I hope you are having a great springtime in Nevada! We've just concluded another successful annual conference in Las Vegas April 14-16, 2009. Despite the down economy and restricted travel and education budgets for many of our members' employers, we had 150 paid attendees and 25 vendors and good turnout for the sessions, classes, receptions and meal functions. Many of our members willingly donated countless hours to making the conference a success, and that giving of our time and talents is essential to the continued success of an all-volunteer organization like NWEA. Our sponsors and vendors should also be thanked profusely for taking the financial risks

Next year, the conference will again be at Ascuaga's Nugget in Sparks, to be held in April 2010. The following week, NWEA was also well represented at two WEF events in Las Vegas, the Young Professionals Summit on April 23, and the WEFMAX meetings on April 24 and 25. We should especially thank Eric Leveque, Hannah Wilner and Candice Siwarga for organizing the WEFMAX and YP summit meetings.

As President, I look forward to serving the membership and the wider environmental community over the coming year. We face the challenges of maintaining the quality of our wastewater discharges, and our services to dischargers in a time of the economic decline since the end of the Great Depression. Municipal agencies and the firms that serve them are having to lay off staff, cut salaries and wages, and cancel or postpone purchases, often for the first time in living memory. The community is rising to this challenge by prioritizing expenditures on their budgets and carefully maintaining a core staff that can keep the plants running. Economic recovery is expected to begin at the end of this calendar year, with employment starting to recover in 2010 or 2011. The NWEA Board has carefully prepared a conservative budget for this coming year that was passed by the membership on April 15. We are confident that with this budget and our cash reserves, we can weather the downturn and still provide certification, communications and educational services to our members.

For the coming year, we hope make some modest changes that we hope will further improve NWEA's ability to serve its membership and the wider environmental community. First, we plan to transition from a mixed electronic/paper newsletter, delivered quarterly, to an all electronic format delivered more frequently to your email inboxes. We also plan to develop a series of professional development workshops, for both plant staff and consultants, meeting at least quarterly, that will increase the opportunities for our members to acquire state of the art knowledge in the principles and practice of treating and disposing of wastewater and biosolids. We hope that these Professional Development workshops will help our Certification Board implement voluntary participation in continuing education by our certified waste inspectors, collections staff, wastewater analysts, and maintenance technologists. Through the development of improved communications and educational services, we hope to provide a compelling case for more professionals in Nevada's water environment community to become members of WEF and NWEA.

Thank you for trusting me to serve you in this position, and I look forward to working with you this year.

Silver State Water Environment News is published quarterly as an information source for members of the Nevada Water Environment Association, a Member Association of the Water Environment Federation. Publication times are January, April, July, and October. Articles, news items, and other materials are welcome and may be directed to:

**Brown and Caldwell**

Rob Davies, Publications, [rdavies@brwnald.com](mailto:rdavies@brwnald.com)  
4425 West Spring Mountain Road, Suite 225, Las Vegas, Nevada 89102  
Phone (702) 938-4080 Fax (702) 938-4082

# 2009 NWEA ANNUAL CONFERENCE

## "GO WITH THE FLOW"

APRIL 14-16, 2009



WEF dignitary, Past-President Adam Zabinsky presents the Arthur Sidney Bedell service award to past president Leslie Long



NWEA Attendees at the NWEA 2009 conference bowling party on Tuesday night May 14



Dave James (aka Indiana James, or Henry Walton James, Jr.) and Dennis Hugh (aka fanatical Professor Henry Walton James, Sr.) issuing a signal call for a slide change during the annual Select Society of Sanitary Sludge Shovelers (SS) induction ceremony on the night of Wednesday, April 15, 2009.



President Linda Peterson handing President-Elect Dave James the gavel, the official transfer of office from one President to the next



# 2009 Presentations



## Presentors

Description	Lead Author	Title of Paper	Email
Collections Infrastructure Planning and Design	Atwood, Denis	A Systematic Approach to Route Selection	AtwoodDenis@stanleygroup.com
	Christensen, Scott	Getting from Here to There - A Pipe Route Selection Process	AtwoodDenis@stanleygroup.com
	Callahan, Keli	Keeping Pace with the Las Vegas Strip, Design and Construction of Large Diameter Interceptors	KCallahan@carollo.com
	Okamura, Kyle	High Level Asset Risk Assessment, or How to Help your Director Sleep Better at Night	kyle.okamura@cityofhenderson.com
Collections - Lift Stations	Capo, Shelby	Design and operation of Lift Stations	
Collections - Condition Assessment	Baker, Dave	Open Channel Flow Monitoring – Methodologies and Advancement in Technology	
	Ratliff, Allison	Trenchless Technology versus Rehabilitation	
	Villalobos, Jose	Force Mains, the Sleeping Giant and Concrete Corrosion in Wetwells and MH's	
Collections Safety	Bannen, John	Status of Safety in the Wastewater Industry	johnb@
Advanced Contaminant Removal and Disinfection	Drury, Doug	Designing Treatment Plants for Reliable Phosphorous Removal	ddrury@cleanwaterteam.com
	Gerrity, Daniel	Novel AOPs for the degradation of trace organic contaminants and microbial inactivation	daniel.gerrity@snwa.com
	Scoble, Jason	Do Side Streams Really Count	jason.scoble@cityofhenderson.com
	Wert, Eric	Application of Ozone for Contaminant Oxidation in Wastewater	eric.wert@snwa.com
Nonpoint Sources	Lawson, Cliff	The Stormwater Program – What is it ALL about?	clawson@ndep.nv.gov
	Eubanks, Kevin	LVV MS4 program development, EPA Audit response	Keubanks@regionalflood.org
	Svetich, Terri	How Much LID is Enough?	etsvetich@gmail.com
	Bolton, Chris	Stormwater Sampling In Las Vegas Valley – From Rainfall Monitoring To Stormwater Sampling	christopher.j.bolton@mwhglobal.com

Continued on following page

## Presentors

Description	Lead Author	Title of Paper	Email
Advanced Wastewater Treatment	Analla, Howard	BNR Process Control - It's Easy, Trust Me!!	howard.analla@cityofhenderson.com
	Begum, Shamim	Impacts of Denitrification on Biological Phosphorus Removal	begums@unlv.nevada.edu
	Carr Portillo, Mary	Membranes 101	mary.c.carr@mwhglobal.com
	Peterson, Kirk	Nevada's First Membrane Bio-Reactor (MBR) Facility	kcpeterson@gbis.com
	Hoyle, Julian	North Las Vegas New Membrane Bioreactor (MBR) Reclamation Facility – Choosing and Applying Control System Architecture	Julian.Hoyle@CH2M.com
	Risso, Leanna	Membrane Technology vs. Dual Media Sand Filters: A Water Quality Comparison	Irisso@cleanwaterteam.com
	Caothien, Scott	Membrane Technologies Increase the Value of Wastewater by Recycling	scott_caothien@pall.com
Wastewater Recycling and Reuse	Cook, Katie	UV Disinfection as Part of a State of the Art Sewage Treatment and Water Reuse facility	Katie.Haubner@itt.com
	Goldwasser, Sean	Regional Goal Setting for Water Recycling	GoldwasserSM@bv.com
	Mills, Rick	Easy - Locate to Where the Water is Needed!!	rick.mills@cityofhenderson.com
SCOP/Lake Mead	Bazel, Larry	"Introduction to Environmental Laws Applicable to Lake Mead and the SCOP Project"	lbazel@briscoelaw.net
	Schiefer, Scott	What are we Discharging?	sschiefer@LasVegasNevada.GOV
	Cooke, Jay	Systems Conveyance and Operations Program Boulder Islands Outfall System	jay.d.cooke@mwhglobal.com
	Abusaba, Kahlil	Dilute, Divert and Dry-Up: The Las Vegas Wash Selenium Management Plan	KAbusaba@BrwnCald.com
	Zegers, Ronald	Las Vegas Valley Watershed Advisory Committee's Regional Water Quality	ron.zegers@lvvwd.com
Sustainability	Batista, Jaci	A Dynamic Model for Water Sustainability in the Las Vegas Valley	jaci@ce.unlv.edu
	Peterson, Kirk	Advanced Integrated Pond System (AIPS) and Energy Savings	kcpeterson@gbis.com
	Voss, Guy	Creating Sustainable Solutions to Water and Energy Challenges	VossGA@bv.com
Project Delivery	Jensen, Marcus	Project Delivery Contracting Alternatives	marcus.jensen@lvvwd.com
	Devlin, Jim	SCOP Project Delivery Method	jdevlin@cleanwatercoalition.com
Asset Management & Data-driven Decisions	Brumley, John	SCOP Financing	jbrumley@cleanwatercoalition.com
	Campbell, Nancy	Data Framework- Building the Foundation for Data-Driven Decisions	Nancy.Campbell@cityofhenderson.com
	LaRance, Dana	Report Development Implementation and Use	dana.larance@cityofhenderson.com

# 2009 Exhibitors



I would like to thank each person who exhibited at Nevada Water Environmental Association 2009 Annual Conference held at the South Point Hotel Casino & Spa. It was a pleasure to meet and to work with each of you as it made my job very easy. I would like to thank the companies that you represent and to inform them how cooperative and professional each of you were. Each company should be proud of their staff as they did a great job. I know each company has a choice on where to spend their exhibit dollars. I'm honored that you chose to exhibit at Nevada Water Environmental Association 2009 Annual Conference. You made the exhibit area and the Conference a success. Together we can build on this success and make the exhibit area larger while growing the number of attendees. I look forward to working with you again for the 2010 Annual Conference in Reno. If you have any suggestions for future conferences or classes, please contact me at [rurat@cityofnorthlasvegas.com](mailto:rurat@cityofnorthlasvegas.com) or at (702) 633-1261. I welcome you to become involved with Nevada Water Environmental Association.

On behalf of the Nevada Water Environmental Association's Conference Committee and myself it's been a privilege and an honor to work with both vendors and attendees.

*Thomas Rura,*  
*City of North Las Vegas*

Exhibitors	
Cues Inc.	<a href="mailto:terrim@cueinc.com">terrim@cueinc.com</a>
D&D Engineering	<a href="mailto:jerry@sensorguys.com">jerry@sensorguys.com</a>
Flow Control Equipment Co.	<a href="mailto:flowcontrolequipment@hotmail.com">flowcontrolequipment@hotmail.com</a>
Goble Sampson Associates	<a href="mailto:dritter@goblesampson.com">dritter@goblesampson.com</a>
Haaker Equipment Company	<a href="mailto:billh@haaker.com">billh@haaker.com</a>
JBI Water and Wastewater Equipment	<a href="mailto:kylemenath@JBIwater.com">kylemenath@JBIwater.com</a>
Misco	<a href="mailto:pdarlington@miscowater.com">pdarlington@miscowater.com</a>
MRC Technologies	<a href="mailto:kent@mrctechnologies.com">kent@mrctechnologies.com</a>
Permaform	<a href="mailto:keith@permaform.net">keith@permaform.net</a>
Ponton Ind.	<a href="mailto:carl@pontonind.com">carl@pontonind.com</a>
Pro-Tech Environmental BioSystems	<a href="mailto:gfgeller@cox.net">gfgeller@cox.net</a>
Reline America	<a href="mailto:aroland@relineamerica.com">aroland@relineamerica.com</a>
Rockwell Engineering	
Southland Water Technologies	
Superior Tank Co., Inc.	<a href="mailto:george@superiortank.com">george@superiortank.com</a>
Syneco Systems, Inc.	
Tessengerlo Kerley, Inc.	<a href="mailto:bgraves@Tkinet.com">bgraves@Tkinet.com</a>
The Coombs-Hopkins Company	<a href="mailto:bronwyn@coombshopkins.com">bronwyn@coombshopkins.com</a>
Workplace Safety Specialists	<a href="mailto:johnb@workplacesafetyspecialists.com">johnb@workplacesafetyspecialists.com</a>
Clean Water Coalition	<a href="mailto:maria.stosich@ch2m.com">maria.stosich@ch2m.com</a>
Easy Liner, L.L.C.	<a href="mailto:Jamieq@easy-liner.com">Jamieq@easy-liner.com</a>
J.A. Crawford Co.	<a href="mailto:mkeating@jacrawfordco.com">mkeating@jacrawfordco.com</a>
Cortech Engineering	<a href="mailto:tim@cortechpumps.com">tim@cortechpumps.com</a>
Advanced Infrastructure Technologies	<a href="mailto:cvallejo@advancedworld.com">cvallejo@advancedworld.com</a>
Hadronez, Inc.	<a href="mailto:gquist@cox.net">gquist@cox.net</a>
Rain for Rent	
Jensen Precast	<a href="mailto:tbrown@jensenprecast.com">tbrown@jensenprecast.com</a>





## **Greetings from the 2009-2010 National Engineers Week Future City® Competition!**

The Future City® Competition introduces 7th and 8th graders to the wide world of engineering. This year's challenge is to create an affordable living space for people who have lost their home due to a disaster or financial emergency. The living space should use sustainable materials, have a low-carbon emissions footprint, and achieve the "Green Ideals" of energy efficient building. The students will blow you away with how much they learn and the wonderful ideas they come up with. It's a wonderful event and it's so rewarding to see the excitement on the kids faces! There is always a need for volunteers and engineering mentors. The mentors work with individual teams to help guide them and answer their questions and volunteers help out the day of the

competition. If you are interested getting involved by becoming a mentor or a volunteer, please contact your local coordinator. Thanks so much for helping us introduce engineering to the next generation.

**Olivia M. Furlan, P.E.**

Las Vegas Region Co-coordinator  
OFurlan@brwnald.com  
702-266-8086

**Signa Gundlach**

Las Vegas Region Co-coordinator  
Signa.Gundlach@snwa.com  
702-691-5281

**Trent Baldwin, P.E.**

Northern Nevada Region Coordinator  
tbaldwin@renoairport.com  
775-328-6968



# Certification Board

## CERTIFICATION CALENDAR

Exams are given on the 2nd Thursdays of March, June, September & December in Las Vegas, Reno, Ely and Elko. Below is a listing of upcoming dates. Please visit the website for more information at [www.nvwea.org](http://www.nvwea.org).

March 12, 2009 (South Exam Date - TBA)	<b>EXAMINATION</b>
April 23, 2009	Notification of pass or fail
May 11, 2009	Application deadline for June exam
May 25, 2009	Test approval/denial notification
June 3, 2009	March certificates mailed
June 11, 2009	<b>EXAMINATION</b>
July 23, 2009	Notification of pass or fail
August 10, 2009	Application deadline for September exam
August 24, 2009	Test approval/denial notification
September 2, 2009	June certificates mailed
September 10, 2009	<b>EXAMINATION</b>
October 22, 2009	Notification of pass or fail
November 10, 2009	Application deadline for December exam
November 24, 2009	Test approval/denial notification
December 2, 2009	September certificates mailed
December 10, 2009	<b>EXAMINATION</b>
January 21, 2010	Notification of pass or fail
February 11, 2010	Application deadline for March exam
February 25, 2010	Test approval/denial notification
March 3, 2010	December certificates mailed
March 11, 2010 (North Exam Date - TBA)	<b>EXAMINATION</b>
April 22, 2010	Notification of pass or fail
May 10, 2010	Application deadline for June exam
May 24, 2010	Test approval/denial notification
June 2, 2010	March certificates mailed

## CERTIFICATION CALENDAR

Exams are given on the 2nd Thursdays of March, June, September & December in Las Vegas, Reno, Ely and Elko. Below is a listing of upcoming dates. Please visit the website for more information at [www.nvwea.org](http://www.nvwea.org).

March 12, 2009 (South Exam Date - TBA)	<b>EXAMINATION</b>
April 23, 2009	Notification of pass or fail
May 11, 2009	Application deadline for June exam
May 25, 2009	Test approval/denial notification
June 3, 2009	March certificates mailed

### From your Certification Board!

The NWEA Certification Board is pleased to announce that computerized certification exams are now being offered! Many of you have requested computerized exams with flexible testing dates and we are very excited that this service is now available.

Pencil and paper exams will continue to be offered quarterly for the same fees. Computerized testing is available for all certification disciplines except Industrial Waste Inspector.

The examinations will be administered at testing centers in Las Vegas and Reno and over 170 other testing centers throughout the United States.

The Computerized Exam Application will need to be submitted along with the normal exam application. The Computerized Exam Application and Instructions can be found on our website [www.nvwea.org](http://www.nvwea.org). The cost for the computerized exam is \$68 in addition to the regular exam fee (mandatory wastewater exams \$60; voluntary exams \$150). The total fees to take a computerized exam will be \$128 for mandatory wastewater exams and \$218 for voluntary exams.

If you have any questions, please feel free to contact the Assistant Program Administrator, Jennifer McMartin at (775) 465-2045 or [jennifernwea@yahoo.com](mailto:jennifernwea@yahoo.com).

# Certification Board

## OPERATOR CERTIFICATION MARCH - APRIL 2009

The following have passed exams of certification for Wastewater Treatment Plant Operator (WW), Wastewater Quality Analyst (QA), Industrial Wastewater Inspector (IW), Collection System Operator (CSO), or Industrial Waste Operator (IWO):

### Grade I - WW

Bland, Christopher A.  
Boughter, Jay A.  
Carrigan, Jr., Thomas A.  
DuFresne, John P.  
McIntosh, Thomas P.  
Owens, David L.  
Seltenreich, Nate S.  
Sutton, Roger D.

### Grade II - WW

Alosi, Keith D.  
Balthazor, Michael P.  
Barnes, Thomas S.  
Carlson, Brian L.  
Christopher, Michael  
Combs, Daniel K.  
Ellis, Lyman E.  
Kuhlemeier, Chris H.  
Lewis, Richard K.  
Lorber, Leslie A.  
McBride, David J.  
Miers, John D.

### Grade III - WW

Haupt, Lawrence J.

### Grade IV - WW

Gannon, Gregory T.  
Johnson, Adrian K.

### Grade III - QA

Bugante, Elizabeth

### Grade IV - QA

Pereos, Jennifer C.

### Grade I - IW

Johnson, Floyd R.  
Schafer, Lloyd R.

### Grade II - IW

Gutierrez, Brynda L.  
Irwin, Mark A.

### Grade I - CSO

Datwyler, Cynthia  
Perkins, Joe  
Owens, David L.

*Is your contact data with  
WEF national up to date?*

If not, your data on file with  
NWEA probably isn't either.

Work and email addresses are critical to us in getting the word out to you. Current E-mail addresses save us thousands of dollars in postage each year.

*Please take a minute and  
visit:*

[https://www.e-wef.org/timssnet/memberships/tnt\\_membership.cfm](https://www.e-wef.org/timssnet/memberships/tnt_membership.cfm) . Go to "My Member Info", log in and check "address change" to verify your various addresses or perform an update.

Alternatively, email [CSC@wef.org](mailto:CSC@wef.org) or call 1-800-666-0206 for assistance.

*Thanks and share with a friend  
who may not  
be getting important information  
from WEF and NWEA!*

Visit the Nevada Board of Certification Web site at [www.nvwea.org](http://www.nvwea.org) for the Complete Alphabetical Listing of Wastewater Treatment Plant Operators, Wastewater Quality Analysts, Industrial Waste Inspectors, Collection System Operators, and Industrial Waste Operators.

HOT LINE NUMBER (775) 465-2045

# The Nevada 104(g) Circuit Rider Program

By Linda Peterson

The Federal 104(g) Circuit Rider Program has been in Nevada since 1986. We have traveled every part of the State and to places many have never heard of. This program has provided operations training assistance to rural and Native American communities, including assisting utility management with budgeting and planning.

Around 1990, when NWEA was still young, Board Members chose to help support this program by providing financial assistance and volunteers to bring education and training to rural operators. Rural communities do not have the flexibility of larger or municipal utilities because of limited budgets. The person who is operating the wastewater plant has to wear a number of hats, if their job is full-time. (This means working on the garbage truck, working at the landfill, operating the water system, etc.) If the utility position is not full-time, they are working a regular job and the operations aspect is limited and hours can be minimal.

The 104(g) Program has been effective in providing training in rural areas. Presently, the 104(g) program has been providing training at NWEA's annual conferences. You may have seen one of our counterparts – Paul Krauth from Utah DEQ – providing training workshops in support of the program. 104(g) communities are provided the training for free; it is provided to other communities for a fee.

Due to budget cuts, the Program has been eliminated at the Federal level. However, because this program has proven to be of such value, the State of Nevada has decided to fund Program starting in the next fiscal year. NDEP has the goal to increase the knowledge of operators and managers by bringing them expertise that is not always available in rural areas.

NWEA would also like to continue sponsoring this program because they believe in its effectiveness and the importance of ongoing operator training. Bringing expertise to rural areas keeps those operators learning about their treatment process. Also, employee turnover in many of the communities can become an issue. The smaller communities have limited manpower

resources and having someone ready and able to bring them the training they need is of great benefit.

Training and facility oversight by experienced and seasoned operators can also produce real savings in operating expenses, manpower and capital outlays. The mentoring provided by seasoned operators helps to produce a well-rounded operator that can function within different disciplines with confidence. Savings can easily exceed the direct cost of operator training with many communities realizing substantial cost reductions.

As we look ahead, we hope this program will continue well into the future. Creating better wastewater professionals and providing education and training that will increase the value of the person and position is our goal. A knowledgeable and confident wastewater professional will help to protect and care for the system for which they provide oversight and become an invaluable asset to the community.

With the retirement of so many of our wastewater professionals and their knowledge within the next ten years, the need for training programs becomes even more vital. This situation will be exacerbated by the financial pressures currently being felt by communities (and into the foreseeable future) along with corresponding manpower reductions. We have always said “we should do more with less” and now we will have to.





## **BIG PROJECTS, BIG PROTECTION.**

### **You can't take chances on materials.**

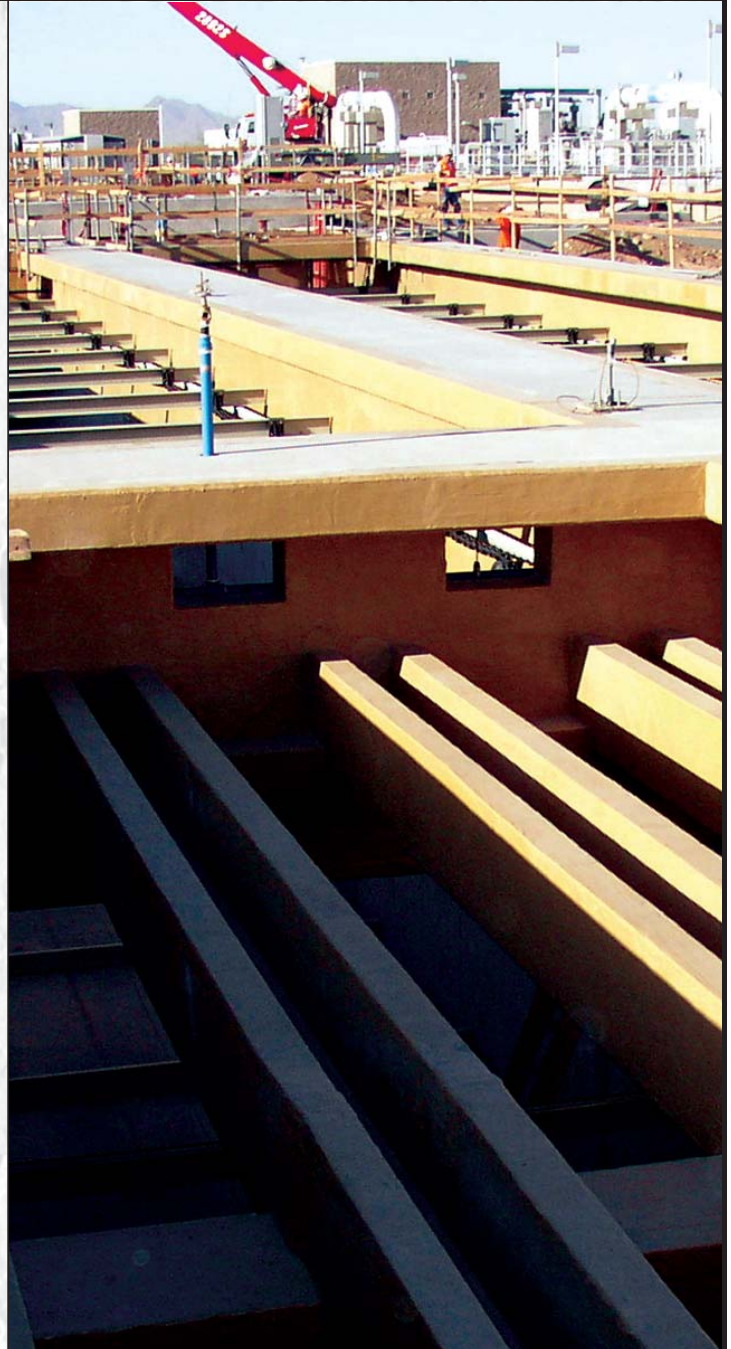
- SewerGard™ No. 210 protective coatings & linings for corrosion protection
- Concrete substrate repair and resurfacing materials
- 1/1 stoppage and prevention
- New construction and rehabilitation projects

Sauereisen.

The right protection for big projects.

[www.sauereisen.com](http://www.sauereisen.com)

**CALL J.A. CRAWFORD CO.  
AT (800) 223-5883  
FOR THE PROPER MATERIAL  
RECOMMENDATION TODAY.**



**J.A. CRAWFORD CO.**


(800) 223-5883 • [SALES@JACRAWFORDCO.com](mailto:SALES@JACRAWFORDCO.com)

... since 1967

# Professional Services

A SUPPLIER OF PUMPS AND PROCESS EQUIPMENT

Tim Eklund  
Mobile 702.286-2280  
951.206-7181



Office 702.456-6950 • Fax 702.456-4150  
277 Merrick Way • Henderson, NV 89014  
tim@cortechpumps.com

Corporate Office 714.779-0911 • Fax 714.693-1715  
1241 N. Lakeview Ave. • Suite T • Anaheim, CA 92807 • www.cortechpumps.com

**BROWN AND CALDWELL**

Environmental Services Construction Management  
Water and Wastewater Treatment Water Reclamation And Reuse

For more information:

Carson City 3264 Goni Road Suite 153 Carson City, NV 89706 (775) 883-4118	Las Vegas 4425 W. Spring Mountain Road Suite 225 Las Vegas, NV 89102 (702) 938-4080	Reno 5865 Tyrone Road Suite 201 Reno, NV 89502 (775) 348-7997
---	---	---




**GREELEY AND HANSEN**

Designing for better urban environments

Water  
Wastewater  
Water Reuse

6236 W. Desert Inn Rd., Ste. 100 ■ Las Vegas, NV 89146  
702-736-7062 ■ www.greeley-hansen.com



**SHAW**  
ENGINEERING

Leaders in essential engineering expertise

Providing consulting and civil engineering services for the planning, design & construction of public infrastructure, principally for water and wastewater systems.

20 Vine Street  
Reno, Nevada 89503  
Phone: (775) 329-5559  
Fax: (775) 329-5406  
www.shawengineering.com

BUILDING A WORLD OF DIFFERENCE®



In our world, it's all about water: the best and most advanced ways to move it, control it, clean it, conserve it. If you're looking for resourceful water solutions, peer into our world. We know water.

LAS VEGAS 702-732-0448  
weknowwater@bv.com www.bv.com



**BLACK & VEATCH**  
Building a world of difference.®



72 years,  
and water  
professionals  
still ask us...

How'd they  
do that?



**CAROLLO**  
engineers

702.792.3711  
Las Vegas, NV

For more than 72 years, Carollo Engineers has been dedicated exclusively to one thing: providing the world's most innovative water and wastewater solutions. And that dedication has helped us become a recognized industry leader (ranked 8th), with 23 offices in 11 states. Visit us online or call us today. We're ready to help solve your toughest water and wastewater challenges—right now.

www.carollo.com

# Professional Services

Call Today!  
1-866-437-8076

Solar-Powered, Long-Distance Circulation for Improved Water Quality in:

- Freshwater**
  - Control blue-green algae without chemicals
  - Get dissolved oxygen where it's needed
- Potable Water**
  - Completely mix tanks of all sizes, to the boundary layers
  - Solve water age issues, low residual issues • Prevent ice buildup
- Wastewater**
  - Reduce energy consumption
  - Improve regulatory compliance • Reduce odors

[www.solarbee.com/NWEA](http://www.solarbee.com/NWEA) • [www.solarbee.com/NWEA](http://www.solarbee.com/NWEA) • [www.solarbee.com/NWEA](http://www.solarbee.com/NWEA)

**MWH**

**Ken Lykens**  
Business Unit Leader

MWH Americas, Inc.  
3010 West Charleston Blvd.  
Suite 100  
Las Vegas, Nevada 89102  
kenneth.lykens@mwglobal.com

Telephone: 702 878 8010  
Direct Line: 702 821 4361  
Facsimile: 702 878 7833

**BUILDING A BETTER WORLD**

**Tessenderlo KERLEY**

**Bruce Graves**  
Business Development Director

Telephone (559) 485-0114  
Facsimile (559) 264-1715  
Cellular (559) 289-3619  
Home (559) 432-6909  
E-Mail: bgraves@tkinet.com

TESSENDERLO KERLEY, Inc., member of TESSENDERLO GROUP

5427 East Central Avenue, Fresno, California 93725  
Internet <http://www.tkinet.com>

## WATER

Drinking Water  
Environmental  
Infrastructure Management  
Wastewater  
Water Resources

Las Vegas    Reno  
702.938.6000    775.337.4700

**HDR**    ONE COMPANY | Many Solutions™    [www.hdrinc.com](http://www.hdrinc.com)

**TONKA**  
WATER  
TREATMENT  
SYSTEMS

## Arsenic Removal 18 MGD

2007  
CELSOC  
Engineering  
Excellence  
Merit Award

**Bring your water system  
into compliance with Tonka's  
customized treatment solutions**

Represented by:

**COOMBS-HOPKINS COMPANY**  
Northern NV: (530) 795-5066  
Southern NV: (760) 931-0555  
[www.coombshopkins.com](http://www.coombshopkins.com)

**TONKA EQUIPMENT COMPANY**  
[www.tonkawater.com](http://www.tonkawater.com)



# Professional Services

To advertise in an upcoming issue of the *Silver State Water Environment News* please direct inquiries to Mark Briggs at:

Brown and Caldwell  
4425 West Spring Mountain Road, Suite 225  
Las Vegas, Nevada 89102  
Phone (702) 938-4080  
Fax (702) 938-4082  
E-mail mbriggs@brwnclad.com



**RYAN McCLOSKEY**  
SALES ENGINEER

**GIERLICH-MITCHELL, INC.**  
10533 PROGRESS WAY, SUITE A  
CYPRESS, CA 90630  
PHONE: (714) 236-6070  
FAX: (714) 236-6080  
CELL: (310) 489-8077  
E-MAIL: rmcloskey@gierlich-mitchell.com

## ECO:LOGIC

Consulting Engineers

### Water • Wastewater • Hydrogeology

Permitting • Planning • Design  
Construction Management • Operations • Municipal Finance

10381 Double R Boulevard • Reno, Nevada 89521  
Tel. (775) 827-2311 • Fax. (775) 827-2316  
email: linn@ecologic-eng.com  
www.ecologic-eng.com



**DAVE RITTER, P.E.**

Suppliers of Water and Wastewater  
Treatment Equipment for Over 45 Years

3500 S. Main St., Suite 200 (801) 268-8790  
Salt Lake City, Utah 84115 Fax: (801) 268-8792  
dritter@goblesampson.com Cell: (801) 550-1613

**RYAN PROCESS INC.** E-Mail [sales@ryanprocess.com](mailto:sales@ryanprocess.com)  
[www.ryanprocess.com](http://www.ryanprocess.com)  
925-837-0670  
800-839-0670  
925-837-4832 Fax

**WASTEWATER & WATER PROCESS SPECIALISTS**  
Representing Over 30 Manufacturers of Water & Wastewater Treatment Equipment

**TANKS**  
High Density Crosslinked & Linear Polyethylene  
Glass-Fused-to-Steel & Epoxy Coated Bolted Steel  
FRP & Welded Steel

**PROCESS EQUIPMENT**  
Municipal and Industrial Water and Wastewater  
Treatment Equipment  
Environmental Remediation Equipment

**INSTRUMENTATION**  
Turbidity, pH, Conductivity, DO, ORP & Specific Ion

**Kennedy/Jenks Consultants**  
Engineers & Scientists

**Water/Wastewater/Recycled Water  
Airport Engineering**  
Comprehensive Planning, Engineering,  
Construction Management and Operations Support

**Reno** 775-827-7900  
**Las Vegas** 702-270-3610

[www.KennedyJenks.com](http://www.KennedyJenks.com) Offices throughout the Western United States



**COOMBS-HOPKINS**  
[www.coombshopkins.com](http://www.coombshopkins.com)

**Richard J. Eisman, P.E.**  
Vice President

5411 Avenida Encinas, Suite 250 (760) 931-0555  
Carlsbad, CA 92008 Fax (760) 931-9115  
Email: rick@coombshopkins.com Cell (951) 206-4512

"Representing quality equipment for the treatment of water and wastewater"



**COOMBS-HOPKINS & DC FROST**

**Catherine M. Frost**  
Aftermarket Sales

2855 Mitchell Drive, Suite 215 (800) 964-9733  
Walnut Creek, CA 94598 Fax (925) 939-4457  
Email: cmf@dcfrostassoc.com Cell (925) 683-8149



**COOMBS-HOPKINS**  
[www.coombshopkins.com](http://www.coombshopkins.com)

**Dave Green**

P.O. Box 686 (530) 795-5066  
Winters, CA 95694 Fax (530) 795-5024  
Email: daveg@coombshopkins.com Cell (530) 304-0080

"Representing quality equipment for the treatment of water and wastewater"

## MANUFACTURERS

Aerator Products/USF  
 Aero-Mod  
 Andritz  
 ASA/Chemscan  
 Atlas Copco  
 Brentwood Industries  
 Capital Controls  
 ClorTec  
 CPC/Microfloc/USF  
 Custom Conveyor  
 DAVCO/USF  
 Davis Process/USF  
 Deskins  
 Enduro  
 Envirex Diffused Air/USF  
 Envirex/USF  
 Enviropax  
 FMC/USF  
 General Filter/USF  
 Golden Harvest  
 Hallsten  
 Hydro Clear Filters/USF  
 Jet Tech/USF  
 Jim Myers & Sons, Inc.  
 JWC Environmental  
 Kruger  
 Memcor/USF  
 MFG Fiberglass  
 Ozonia  
 \*PCI-Wedeco  
 Plasti-Fab  
 Precision Systems  
 Pulsco  
 RDP Company  
 RJ Environmental/USF  
 Rotork  
 Serpentix  
 TEMCOR  
 Tetra Technologies  
 TOMCO  
 USFilter  
 \*Wedeco/UV  
 Wilo-EMU  
 Zimpro/USF

\* Northern Nevada Only

### HEADWORKS

Auger Monsters  
 Channel Monsters  
 Muffin Monsters  
 Bar Screens  
 Washer Compactors

### LIQUIDS/SOLIDS SEPARATION

Grit Removal  
 Water Screens  
 Circular Clarifiers  
 Rectangular Clarifiers  
 DAF Thickeners  
 Belt Thickeners  
 Gravity Thickeners  
 Fine Screens

### BIOLOGICAL TREATMENT

Fine Bubble Aeration  
 Coarse Bubble Aeration  
 Jet Aerators  
 Orbal Aerators/Oxidation Ditch  
 Sequencing Batch Reactors  
 Single Stage Compressors  
 Centrifugal Blowers  
 Plastic Media  
 Rotary Distributors  
 RBCs & SBCs  
 Nitrification/Denitrification  
 Floating Aerators

### SOLIDS TREATMENT & HANDLING

Digester Covers  
 Digester Gas Mixing  
 Sludge Heaters/Heat Exchangers  
 Centrifuges  
 Belt Press Dewatering  
 Plate and Frame Presses  
 Sludge Baggers  
 Sludge Dryers  
 Sludge Beds  
 Lime Pasteurization  
 ATAD  
 Belt Conveyors  
 Serpentine Conveyors  
 Sludge Handling Systems  
 Screw Conveyors

### DISINFECTION/CHEMICAL FEED

On-Site Chlorine Generation  
 Chlorinators  
 Cl<sub>2</sub> Analyzers  
 Chemical Metering Pumps  
 Static Mixers  
 UltraViolet  
 Ozone Generators  
 Reservoir Management Systems

### ODOR & VAPOR SCRUBBERS

Emergency Vapor Scrubbers  
 Carbon  
 Packed Tower  
 Biofilters  
 Digester Gas  
 FRP Covers/Ducting/Tanks  
 Aluminum Covers— Flat & Geodesic

### POTABLE WATER TREATMENT

Membrane Filters  
 Packaged Treatment Plants  
 Rapid Mixers  
 Flocculators—Vert./Horiz.  
 Solid Contact Clarifiers  
 Tube Settlers  
 Filter Underdrains  
 Pressure Filters  
 Reverse Osmosis  
 Iron/Maganese Filters  
 Backwash Water Recovery  
 Arsenic Removal  
 Plate Settlers

### SPECIALTY EQUIPMENT

Package Plants—Wastewater  
 Packaged Lift/Booster  
 Tertiary/Title 22 Filters  
 Groundwater Treatment  
 Dewatering Equipment Rental  
 Nitrate/Ammonia Analyzer  
 FRP Weirs, Baffles, Troughs  
 Submersible Pumps

### VALVES & GATES

Plug Valves  
 Butterfly Valves  
 Control Valves  
 Knife Gates  
 Sluice & Slide Gates  
 FRP Gates/Stoplogs  
 Electric Actuators

### CONTROLS & AUTOMATION

Valve & Gate Automation

*Partners  
 for*  
**CLEAN WATER**



# TRASH CHEWING UP YOUR PLANT? BITE BACK.

Protect your headworks, pumps and processes with JWC's family of fine screens and grinders. A full arsenal of powerful grinders and stainless steel fine screens can reduce blockages, downtime and emergency repairs. Ask your Nevada JWC rep for details on how we can reduce your facility's operating budget.



**PRODUCT:**  
**Bandscreen Monster®**

**APPLICATION:**  
**High-flow Fine Screen**  
*Perforated UHMW panels remove trash, rags and hair before they can damage MBRs. Prevents carryover with innovative flow pattern.*



**PRODUCT:**  
**Finescreen Monster®**

**APPLICATION:**  
**High-flow Fine Screen**  
*Perforated stainless steel panels (UHMW optional) remove more trash and rags than bar screens and help protect the entire treatment process.*



**PRODUCT:**  
**Channel Monster®**

**APPLICATION:**  
**Heavy duty pump station grinder**  
*High-flow channel grinder easily grinds almost everything. Easily installs on guide rails into almost any pump station.*



**PRODUCT:**  
**Muffin Monster®**

**APPLICATION:**  
**Sludge grinder**  
*A sludge grinder you never have to worry about - practically unstoppable. Prevents clogging and protects sludge pumps, heat exchangers, centrifuges and more.*

Authorized representatives:



Las Vegas & South  
**Roger Antonie**  
**(702) 966-5675**  
Northwest  
**William Sullivan**  
**(775) 747-4158**  
[www.miscowater.com](http://www.miscowater.com)



Northeast  
**Jeff Wiest**  
**(801) 463-9900**  
[waterfordsystems.com](http://waterfordsystems.com)



---

## **Nevada Water Environment Association**

**Brown and Caldwell, 4425 West Spring Mountain Road, Suite 225  
Las Vegas, Nevada 89102  
(Phone) 702-938-4080 (Fax) 702-938-4082**



***Not a Member of NWEA?  
Visit the NWEA Website at <http://nvwea.org/about-us> for information  
on the benefits of membership and how to become a member.***

