

# CLARION

A Publication of the Colorado Lake and Reservoir Management Association



Colorado Lake and Reservoir Management Association  
P.O. Box 9504 Denver, CO 80209  
www.clrma.org

## President's Dock



The seasons are changing again, and the fall turnover has likely occurred in most Colorado lakes and reservoirs. As many know, fall turnover occurs in thermally stratified lakes when the upper water layer (epilimnion) begins to cool due to the shorter sunlit days and cooler nights during the

fall. As the thermocline begins to erode and the water temperature approaches the temperature of the bottom water layer (hypolimnion), strong winds push the surface water towards the leeward side of the lake and the bottom water is forced upward along the windward side of the lake creating a circulating pattern and eventually mixing the entire water column. This wind driven mixing event during the fall signifies a change in lake conditions. Similarly, this time of year represents a changing of the CLRMA Board members too. Our Fall Conference and Business Meeting will be on November 16<sup>th</sup>, and will provide an opportunity for CLRMA members to exercise their voting privileges. If you are not attending the conference, please e-mail your vote to Elizabeth Brown, CLRMA Secretary ([elizabeth.brown@state.co.us](mailto:elizabeth.brown@state.co.us)) by November 11th. Our Fall Conference will focus on urban lakes, reservoirs and watersheds along the front-range with presentations covering topics related to challenges and advancements of associations and their efforts to protect water quality and their uses such as drinking water, aquatic life, recreation, and agriculture. The conference also will have topics related to reservoir management approaches and urban stream corridor improvements, and presentations on the cooperative efforts taken by organizations to protect our water resources. Please take the opportunity to attend and support our Fall Conference and Business Meeting--- and Service Awards Presentation. Over the past year or two, CLRMA has made some great improvements with our website including the ability to contact our President and Board members via our [ColoradoLRMA@gmail.com](mailto:ColoradoLRMA@gmail.com) account. Our gmail account has proven to be a useful tool for many online searchers seeking information on Colorado Lakes and Reservoirs.

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Most recently, we received an inquiry from a local HOA whether CLRMA could provide resources or possibly assist them in developing a Management Plan for their lake. Fortunately, through NALMS and the Certified Lake Manager Program we were able to gather many out-of-state resources to provide examples and DIY steps to develop a “living” management plan, but nothing in-state yet. A CLRMA member has even volunteered their services to help the HOA get started down the management plan path; however, this has shown the CLRMA Board that we can still improve on lake and reservoir management skills. Thus, in the future CLRMA will hopefully be able to add a Colorado Management Plan resources page to our website too. If you have developed any Management Plans related to Colorado Lakes and Reservoirs, especially with respect to small HOA situations and would be willing to share them with CLRMA, we would greatly appreciate reviewing the management plan.

As you might have surmised by now, I am in my final stretch as President and I would like to take this opportunity to introduce our President-Elect – Josh Baile. Josh will become CLRMA President in January 2012, so check out [Josh's bio](#) on our website. As I have written my last President's Dock, at least for a while, I have enjoyed sharing my family experiences and working with the other Board members this past year. Once again, I encourage you to attend CLRMA's Fall Conference and Business Meeting, and to help shape the Board by exercising your opportunity to VOTE!

By Craig Wolf

## July, 2011, Lake Appreciation Month Events

July, 2011 was National Lake Appreciation Month and CLRMA hosted successful events at several reservoirs throughout the state. On July 16, events were held at Grand Lake and Ridgway Reservoir, two of Colorado's aquatic treasures. As usual, great food and fun events attracted the public as well as the dedicated enthusiasts who manage and protect Colorado's water resources.

### Grand Lake

The Grand Lake Chamber of Commerce graciously allowed CLRMA to set up our booth again during Grand Lake's Western Week Buffalo BBQ. CLRMA Members Vic Lucero, City of Thornton, and Ben Carver and Jane Tollett, Grand County Water Information Network (GCWIN), helped CLRMA Board Members Elizabeth Brown, Colorado Division of Parks and Wildlife, and Sarah Clements, Three Lakes Watershed Association (TLWA) with the booth filled with water and lake related displays and activities. CLRMA Members Esther Vincent and Staff, Northern Colorado Water Conservancy District, set up a booth and additional water displays next to the CLRMA booth, so there was room for all of the day's activities. H2O Joe was again a huge crowd pleaser and greatly added to the festive spirit.



At 10 AM, Ben Carver, Sarah Clements, and Grand Lake Trustee Elmer Lanzi joined John Saye and Patrick Rhoads, of the Arapaho National Recreation Area (ANRA), US Forest Service (USFS) Boat Patrol, for the National Secchi Dip-In. Elmer Lanzi volunteered due to Mayor Judy Burke being out of town. Mayor Burke had taken the Official Secchi Dip-In Measurement previously in 2005 and 2010. Ben Carver assisted Trustee Lanzi with the Secchi measurement.

The Official Secchi disk measurement with the Aqua Scope was 15.25 ft. and 12.6 ft without the Aqua Scope. CLRMA thanks the ANRA Staff for their help and use of their boat; GCWIN Staff Ben Carver for assisting in the Secchi measurement; Grand Lake Trustee Lanzi for volunteering; and all for taking their valuable time in taking Grand Lake's Official Secchi Dip-In measurement.

Other Water Festival activities throughout the day included a water conservation activity for adults, a fish bean bag toss for kids, educational handouts, and a self-guided lake tour. Live music and the famous Buffalo BBQ rounded out the local festivities. Positive feedback for next year's activities includes a lake clean-up, kid's fishing, and a canoe or paddle boat race.

GCWIN surveyed the crowd and compiled 'Grand County Conservation Voices,' a list of things people do to conserve water. See page 13 for the list.

*Grand Lake Trustee, Elmer Lanzi records the official Secchi-disk measurement*

## Ridgway Reservoir

On Saturday July 16, at Dutch Charlie in Ridgway State Park, the Lake was appreciated by locals and visitors from as far away as Texas and Sweden. Lake Appreciation Day was a fabulously organized event to celebrate our lake and watershed, put on by Arlene Crawford of Ridgway State Park and the Uncompahgre Watershed Partnership, with help from Friends of Ridgway State Park and the Tri-County Water Conservancy District. The day fit in with the National Lake Awareness Month of the Environmental Protection Agency, meant to draw attention to the importance of our lakes and reservoirs. Lakes and reservoirs provide us with drinking water, irrigation water, energy, recreation, wildlife habitat, and flood protection. The event was also part of First Lady Michelle Obama's *Let's Move Outside Campaign* that promotes being out of doors and physical activity.

If lying on the beach and eating hotdogs and sno-cones (which sold out as usual) wasn't enough for you, there was a multitude of other activities to enjoy - from learning how to cast a fly rod with the Gunnison Gorge Anglers, checking the clarity of the water with a secchi disk, looking at plankton from a net tow with Andrew Madison and Erin Warrem of the National Park Service, to going on a boat tour with the Park Ranger and exploring the reservoir. There were hourly raffle prizes for the kids, which they managed to take over and announce themselves. The raffle was almost as popular as the enviroscape model Matthew Jurjonas of the UWP used to demonstrate how pollutants move through the watershed. As eager hands sprayed "rain water" down on the watershed, the cinnamon (loose soil), peppercorns (cow poop), and soy sauce (motor oil) moved into the streams and the reservoir to the evident dismay of the young observers. Of course H2O Joe, the giant blow up water quality symbol, kept his watchful spectacled eyes on the day's festivities.



The thunderstorms stayed away and allowed the beach volleyball and swimming to run well into the afternoon. The State Park celebrated another record attendance day for the summer. Lake Appreciation Day remains as popular as ever and continues to bring people out for a day in the sun with ketchup, mustard, and lots of learning. Thanks again to Friends of Ridgway State Park and Tri-County Water Conservancy for making it possible.



## Day on the Reservoir 2011, Boulder Reservoir

The weather was great, light breeze and clear skies. Three boats were available for use. George Ingersoll from USGS and Steve Lundt provided two of the boats. This was a huge effort on their part because of ANS concerns and launching the boats prior to scheduled demonstrations on the water. Kelly Cline and Steve Lundt demonstrated zooplankton tows and sampled for aquatic vegetation. George Ingersoll demonstrated USGS sediment coring methods and equipment.

The four main aquatic plants collected were Potamogeton crispus, Ranunculus aquatilis, Potamogeton spp and Elodea canadensis. Potamogeton crispus although invasive, isn't as persistent as Eurasian water milfoil due the fact that it has a tendency to die off in early summer allowing natives to grow. George collected some sediment cores that were over a foot in length. It was interesting to see the equipment in operation that makes it possible to cut thin slices of the lake sediment core sample. Zooplankton tows in Boulder Reservoir are always a little disappointing because they are comprised mainly of copepods and not many cladocerans. According to Kelly copepods are typically dominant in fairly turbid lakes like Boulder Reservoir.

Three multi-probe vendors (Geo-Tech/YSI-Jassen Savoie, Hach/Hydromet-Patrick Jensen and In situ-Steve Combe) demonstrated their equipment side by side on the water working from a floating platform. This was an opportunity to observe and ask questions concerning the three different brands. These vendors also exhibited their respective Boulder Reservoir profile data and graphs on-shore. The reservoir was stratified with zero oxygen at the bottom, perfect for demonstration purposes.



Solar Bee set up one of their large circulators for all to see while Chris Knud-Hansen from Solar Been described and answered questions concerning its operation and maintenance.

After lunch with full stomachs the canoe race was conducted. Jim Evely a City of Boulder water treatment plant operator and George Ingersoll with USGS won the race, Steve Lundt and Paul Clukies came in a close second. Steve must have gotten to my (Jim Shelley's) canoe prior to the race because the center main structural brace was broken in two!!

On-shore in addition to the multi-probe vendors other display presenters were Paul Clukies with Clean Marinas Colorado, Gary Girolimon with Ted Miller and Associates (ISCO autosamplers), Elizabeth Brown with the Colorado Division of Wildlife ANS display and Bruce Galoob and Doug Druliner with USGS.

George Ingersoll presented information on the 2007 EPA national lakes survey. It was interesting to find out that poor lakeshore habitat is the biggest problem impacting the biological health of our national lakes; over one-third of the lakes studied exhibit poor shoreline habitat condition. It was also interesting to find out that high nutrient levels are the second biggest problem impacting the biological health of our lakes. Elizabeth Brown gave an excellent presentation on Colorado's ANS program. Bruce Galoob and Doug Druliner with USGS brought their sampling camper and presented USGS stream sampling protocols.

About the time everyone was ready for a change of pace Sara Rodriguez from Boulder Reservoir Parks and Recreation provided pints of hand packed organic ice cream. I didn't think I could eat a whole pint but it was amazing how quickly it disappeared.

**Barr Lake**

Lake Appreciation Day at Barr Lake State Park was an extremely successful event and well attended by many volunteers that achieved a variety of clean-up projects around the lake that included shoreline cleanup, tree planting, invasive weed removal, and planting native grasses.

The morning activities were followed by the lunchtime BBQ with special prize drawings. The afternoon activities rewarded many volunteers for their hard work, especially the youthful ones, with educational and recreational activities such as learning about the Ferruginous Hawk often found in the Colorado prairies, creating boating safety T-shirts, rock climbing wall, and archery.

The likely highlight of the afternoon was the boat tour on Barr Lake, whether a self-propelled tour by a canoe or the speedier one of the pontoon boat or even the State Park Ranger boat, provided many smiles on faces that afternoon. The Wolf family certainly had a great day at Barr Lake and we even got the special tour of the limno-corrals on the Park Ranger boat.

A special thanks to Colorado Parks and Wildlife, Barr Lake State Park and the numerous sponsors that made the Barr Lake Appreciation Day another successful event supporting the National Lake Appreciation Month promoted by the North American Lake Management Society.



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*Barr Lake Appreciation Day*

*Ferruginous Hawk—Left*

*Archery Lessons—Right*



### **Potamogeton crispus— Curly Leaf Pondweed**

Curly Leaf Pondweed is an invasive plant native to Europe and was probably introduced to the United States in the 1800's as an ornamental plant.

This plant matures earlier than many native aquatic plants and plants tend to enter a reproductive cycle in early summer. During this cycle, the larger parts of the plant recede as flowers and turions (special buds that allow aquatic plants to overwinter) form. The turions then germinate in late summer and form small plants that overwinter, allowing them to start their life cycle early in the following year.

Like many other invasive plants, *Potamogeton crispus* causes problems with its bulky mass, by restricting flow and causing entanglement of recreational equipment. The die-off in early summer can release large amounts of phosphorus that can contribute to algae blooms as the summer progresses.

Source: USGS

<http://nas.er.usgs.gov/queries/factsheet.aspxSpeciesID=1134>



### **CVLM Update**

The Colorado Volunteer Lake Monitoring (CVLM) Program has just finished its 7<sup>th</sup> year. Over these past 7 years, dedicated volunteers have recorded close to 1,300 Secchi depth readings from across the state. This accomplishment is quite impressive considering that the volunteer season is only 4 months long, June through September.

Many thanks go out to each and every volunteer who has helped grow this program into an annual tradition. The two goals of the program are education and data collection. Volunteers are encouraged to speak to other lake users about what they are doing and how the Secchi Disk works. It is a great way to educate lake users and introduce them to water quality. The volunteers are trained and water clarity data is collected the same way around the state so that the data is reliable and useable to help make management decisions. Each winter, all of the volunteers receive a report card that summarizes their data and tracks the trophic status trend.

New this year was the partnership with the CDPHE/WQCD Watershed Unit that provided multi-parameter probes to volunteers who wanted to collect profile data. As this valuable program continues to expand, CLRMA hopes that more people will have a better understanding of water quality and reliable information to help make proper management decisions.

If you are interested in volunteering, please contact Steve Lundt, Volunteer Coordinator, at [slundt@mwr.dst.co.us](mailto:slundt@mwr.dst.co.us).

**Annual Fall Conference & Business Meeting**  
 Water Quality and Management Challenges of  
 Urban Lakes, Reservoirs and Watersheds

November 16<sup>th</sup>, 2011  
 9am to 4pm  
 Colorado Parks and Wildlife  
 6060 Broadway  
 Denver, CO

The urban corridor presents a diverse set of water quality and management challenges to watershed associations that include a variety of issues related to drinking water, water reuse, aquatic life use, and recreational uses, all of which vary greatly depending upon the location in the front-range. CLRMA's Fall Conference will provide a morning session for organizations to share the current challenges they are facing and the advancements or approaches they are taking to overcome them, as well as issues they will be facing in the future. The early afternoon session will provide some clarity into in-reservoir management approaches that are currently being implemented in a few front-range reservoirs, as well as urban stream corridor improvements along the South Platte River and its tributaries. The late afternoon session will focus on the cooperative efforts and basin wide approaches taken by some organizations to pull a variety of stakeholders together to achieve desired goals, as well as the opportunities to work together in 2012.

The Fall Conference will bring together many organizations that are closely tied to the management and protection of the water quality and beneficial uses in urban lakes, reservoirs, and watersheds from Chatfield Reservoir on the southern end to the Big Thompson River watershed on the northern end. Please come join CLRMA and support our invited speakers as well as participate in our Board Elections and Annual Service Awards Ceremony. We hope to see you there.

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## Upcoming Rulemaking Hearing on Statewide Nutrients

The Colorado Water Quality Control Commission (WQCC) has scheduled a public Rulemaking Hearing in March of 2012 to consider changes to Regulation 31: The Basic Standards and Methodologies for Surface Waters and the addition of a new Regulation 85: Nutrients Management Control Regulation. This is an important opportunity for people interested in protecting our lakes and reservoirs from eutrophication to participate at the hearing.

Regulation 31 would establish numeric values for phosphorus and chlorophyll that could be applied to specific lakes and streams in future basin specific rulemaking hearings. These standards were developed to protect the classified uses of recreation, agriculture, aquatic life, and water supply. Initially, the lakes and streams considered would be upstream of major wastewater treatment plant discharges. Another category of lakes where additional protection could apply is where a reservoir is used as a drinking water supply. These reservoirs would have a plant intake located in the reservoir, or a man-made conveyance from the lake or reservoir used to provide raw water directly to a water treatment facility. A numeric chlorophyll standard could be adopted at the discretion of the WQCC on these specific Direct Use Water Supplies. If the water quality on these reservoirs is exceeded, the water body could be listed as impaired, and placed on the 303d list, requiring a Total Maximum Daily Load be developed to help determine the cause of impairment.

Regulation 85 is a unique approach to incrementally improving water quality in Colorado. This approach requires wastewater treatment facilities greater than 0.5 MGD (or lagoon systems greater than 1.0 MGD) to install Biological Nutrient Removal to decrease the levels of nitrogen and phosphorus entering our lakes and rivers. Long compliance schedules will be provided to allow facilities to plan, finance, and construct the upgraded systems.

This is just a very brief snapshot of these proposed regulations! Please visit the Commission website: <http://www.cdph.state.co.us/op/wqcc/index.html> for more information on how you can participate in this important rulemaking hearing!

# Advertise in the Clarion!

The CLRMA Clarion is a great way to connect with lake and reservoir managers, municipalities, environmental firms, outdoor enthusiasts and others involved in monitoring, managing and protecting Colorado's water bodies.

**If your company provides products or services related to the following, our readers are looking for you!**

- ⇒ Analytical Instruments
- ⇒ Sampling and Monitoring
- ⇒ Recreational Equipment
- ⇒ Water Treatment Chemicals
- ⇒ Environmental Services
- ⇒ Recreation/Use Planning
- ⇒ Mechanical Equipment
- ⇒ Invasive Species Control
- ⇒ Fisheries Management



Available Sizes and Frequency:				
Category	1 issue	2 issues	3 issues	4 issues
Full Page	\$60	\$120	\$180	\$200
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**CLRMA members are always looking for new sources for the supplies and services they need to keep our lakes and reservoirs clean, natural and enjoyable.**

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### Interesting Questions are coming in from CRLMA's *Lake'spert* Webpage

A steady stream of lake questions have been coming in lately from the general public. It is interesting to see what people are thinking about lakes and reservoirs in Colorado. Examples of the questions include: Is it okay to dump old concrete into a lake? Is there a list of private lakes that have lake front property on them? Where can athletes train for a triathlon in open water swimming during the winter? Is it true that some of Colorado's lakes are stocked with a shrimp to help with fisheries?

Many of the professionals who work with lakes and reservoirs might find these questions odd or not related to CLRMA's mission but they are. It is important that we answer these general public questions so that we can educate people about the proper way to treat our lakes and reservoirs. Do we really want people dumping concrete in our lakes? (No) Do lake front property values support our city's drinking water plant budgets? (Yes) This *Lake'spert* webpage is becoming an important tool for CLRMA. Please pass this on or send in questions if you have them.

### Common Summer Time Question – What is this stuff, did someone spill paint in the lake?

During the peak algae growing season, when the days are the longest and hottest and the water is at it warmest, Blue-green algae (cyanobacteria) love to bloom at the surface of water that will support growth.



Cyanobacteria have the unique ability to increase their buoyancy and float to the surface to get to the sun and to shade out other algae species. They do this by the use of gas vacuoles, basically hollow chambered vesicles that are on the inside and outside of the cell. But like your mother always told you, you can have too much of a good thing. When cyanobacteria get too close to the surface and are pushed up to the top by more cyanobacteria rising to towards the surface, the sun's intense light destroys and ruptures the algal cells. This rupturing or cell senescence, is the death of the algae and the lysis of the membranes.

The main problem when this condition occurs, besides the odor, is that the cyanotoxins that form inside the cell are released into the water along with the other intracellular fluids. The bluish green "paint" that you see on the water's surface is from the destruction of cyanobacteria cells caused by too much sunlight. It is important to avoid human and animal contact when this occurs.



**COLORADO LAKE & RESERVOIR  
MANAGEMENT ASSOCIATION**



**CLRMA ANNUAL BUSINESS MEETING  
ELECTION!**

Please bring this ballot to the Association Business Meeting at the Annual Fall Conference on November 16<sup>th</sup> to submit your vote. If you are not attending the conference, please e-mail your vote to Elizabeth Brown, CLRMA Secretary (elizabeth.brown@state.co.us) by November 11<sup>th</sup>.

**2011 CLRMA Election Ballot Form**

**Board of Director and Officers Openings**

*Please circle or highlight the candidate's name you are voting for, or write in a name to vote for someone not currently listed for that position.*

Write-Ins

Director (vote for 1):                      Paul Tedesco                      \_\_\_\_\_

West Slope Director (vote for1):        Sarah Clements                      \_\_\_\_\_

President-elect (vote for 1):              Kevin Tohill                              \_\_\_\_\_

## A Trip to Cedar Mesa Reservoir

by Craig Wolf

I was first introduced to Cedar Mesa Reservoir in the 1970's as a kid with my father during one of our many fishing trips to the Grand Mesa, near Grand Junction Colorado. I'll always remember Dad pulling out the set of USGS topo maps and tracing the four-wheel drive trails to some of the more difficult to reach alpine lakes and reservoirs. For the old schoolers out there, Cedar Mesa Reservoir is located on the USGS Leon Peak quad map. The Reservoir is on the southern edge of the Grand Mesa in Delta County, approximately 11 miles northeast of Cedaredge, Colorado. It is only about 1.5 miles off of the main road down a four-wheel drive trail mostly traveled by ATV's, so the road is certainly tamer these days. But as I recall in the 70's, there were two occasions when we could not make the 1.5 miles to the Reservoir due to the mud, and in fact ended up towing out another stuck four-wheel drive truck. The summer rainstorms on the Grand Mesa can be torrential at times, so be prepared.



Here are some basic Cedar Mesa Reservoir facts and information... The surface area is approximately 32 acres and it is roughly 22 ft deep. The elevation of the Reservoir is 9,960 ft and the dam has an overflow notch with a bottom gate release. Based on a conversation with a longtime Cedaredge resident (i.e., retiree that enjoys fishing Cedar Mesa and the surrounding alpine lakes), the Reservoir is used for late summer irrigation, and during mid-July 2011 the Reservoir was at full pool, but when we visited it in late August 2011, the water level had decreased by approximately 10 ft. This water is presumably a right of the Cedar Mesa Ditch and Reservoir Company. The fishery contains at least Snake River cutthroat trout, brook trout and rainbow trout, with the Snake River cutthroat and rainbow trout historically being part of the Colorado Parks and Wildlife fish stocking program.

In late August 2011, the Wolf family again visited Cedar Mesa Reservoir, but this time I had a GPS waypoint location from previous visits, so I selected the go to button and handed the GPS unit to our oldest son to see the trail we were going to follow. As you might recall by now, I am a traditionalist... so I still have Dad's old Leon Peak Quad, but to interact with Generation Y the electronic version is a must, so I have the Colorado USGS Quads loaded on the GPS unit too!

We visited the Cedar Mesa Reservoir during the early part of the week, so we were the only ones on the reservoir for the better part of 3 hours. That's always nice when you have two boys that want to get out and run like a pair of Labrador Retrievers in the water. At least my wife and I didn't have to worry about bothering any other fisherman or fisherwomen. Well, Michele will say I exaggerate a bit on the how loud the boys were... But I am sure you can envision the serenity of a peaceful lake until the Wolf Pack arrived!

The mid-day fishing was a bit slow which was to be expected, and soon the boys lost interest in fishing or maybe they never really had any that day since it was a beautiful mid-70's summer day. They were both quickly off exploring and found out that the lake was primarily filled from snow-melt run off and ground water seepage which was still occurring on the inlet side of the lake.

*Continued on Page 12*

### A Trip to Cedar Mesa Reservoir *Continued from page 11*

Because the water level was roughly 10 ft below the high water line, the boys found a nice mud zone between the high water line and the water level. Watching from afar, I could see the shoes come off and the pants being rolled up and the trek into the mudflat begin. Soon our oldest son was up to his knees in mud and I could tell the suction action was getting him a bit worried. I hollered across the lake for him to start backtracking, because I for one did not want to venture out into the mud to pull him out. After a bit of struggling, he finally got out of the mud and we encouraged both boys to play in a closer mudflat near the dam where Michele could take some photos and have fun with the boys too. All three of them played in the mud for another hour or so, while I patiently waited for the fish to bite. Cedar Mesa Reservoir has always produced some nice Snake River cutthroat trout for me in the past, and this time was no exception. I caught two cutthroat trout that afternoon, one 16 inches long and the other 14 inches, and one brook trout that was 12 inches long. The Wolf family had another awesome afternoon at Cedar Mesa Reservoir, and I would encourage everyone to take the more difficult road to a Grand Mesa lake if given the opportunity.



### Aurora's AWQUA Lounge – A place for kids to learn about lakes and reservoirs

AWQUA (Aurora's Water Quality Understanding and Appreciation) Lounge, pictured at right, is located at the Aurora Reservoir marina complex, just a few steps from the beach and the perimeter trail around the popular drinking water reservoir.

At the Lounge, kids and kid-minded adults can talk to a storm drain, dress up like a fish, play watershed roulette, AWQUA bingo, and look at water samples under a microscope.

During the summer season, several programs occur at the Lounge. For more information about the AWQUA Lounge, check out Aurora's Parks & Recreation Open Space website under reservoirs.

### NALMS News



CLRMA has just renewed their Affiliate membership with NALMS. As an affiliate member of NALMS through CLRMA, you have access to bookstore and conference registration discounts. Please make sure you check out the improved NALMS website at [www.nalms.org](http://www.nalms.org) to see what they have to offer.

The 31<sup>st</sup> annual international symposium will be held in Spokane, Washington this year. If you have never been to one, you should consider going. The symposiums are a great place to meet up with other lake and reservoir managers, lake users, volunteers, and scientists to talk about lake issues. Where else can you go to see excellent presentations on lake topics all day and then socialize late into the night with some of the great limnologists such as Eugene Welch, Dennis Cooke, and Bob Carlson?

Finally, our very own CLRMA president, Craig Wolfe, is running for the region 8 seat on the NALMS board. Wish him luck!



# Spotlight: Kevin Tohill

This Clarion Spotlight Features CLRMA member, Kevin Tohill

**Age...** 33

**Years with CLRMA/NALMS...** 5

**Years in CO...** 33

**What you do...** Sample and analyze treated and raw water, conduct cross-connection control surveys, respond to customer complaints and inquiries, coordinate invasive species control efforts for Arvada Reservoir, computerized distribution system modeling and anything else that comes up involving water.

**Family...** Wife Christine and our two Siberian Huskies, Desi and Sky.

**When I am not working I am...** Working on my house or cars, getting out into the wilderness, tending my vegetable gardens or taking a trip to somewhere new.

**Your idea of happiness...** Being able to choose what I do and where I do it.

**Not many people know that...** My first three semesters of college were dedicated to music school and I still listen to heavy metal, punk and just about every other genre of music.

**What I like to do most...** Cook gourmet food and eat it.

**If I won the lottery I would...** Have a really hard time deciding which of my desires to spend money on first.

**Last Book I read...** A History of the American People by Paul Johnson

**What political office would I like to hold?** Federal Reserve Chairman

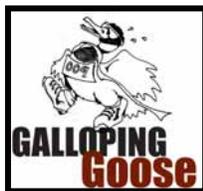
**Toughest aspect of my Job...** Requiring small businesses to spend significant amounts of money on backflow prevention. I also hate it when I can't completely resolve a problem.



## **Galloping Goose Run around Quincy Reservoir**

What a great way to get people out to see a lake or reservoir. Organize a 5K or 10K run around it. In the past, Barr Lake and Boulder Reservoir have had perimeter runs, and this year Quincy Reservoir is having one on October 24<sup>th</sup>. The event has been filled since early September!

To see more information about the reservoir run, go to:



[http://apps.auroragov.org/EventRegistration/\(S\(jn2jgx552f5h0qjwgvwc2sak\)\)/Event/EventDetail.aspx?gi=51b2DGVhnDs=&ei=BnwRrWMD1z4=](http://apps.auroragov.org/EventRegistration/(S(jn2jgx552f5h0qjwgvwc2sak))/Event/EventDetail.aspx?gi=51b2DGVhnDs=&ei=BnwRrWMD1z4=)

## **GCWIN — Grand County Conservation Voices**

What do you do to conserve water?

- 1 Rain barrels
- 2 Don't let water run while brushing teeth
- 3 Use a water filter instead of buying bottled water
- 4 Turn water off when shaving
- 5 Tankless water heater
- 6 Xeriscape your lawns
- 7 Shower less often
- 8 Drink more beer
- 9 Capture cold water in a bucket when waiting for water to get hot, use for gardening
- 10 Garden on the roof
- 11 Don't water when it is raining
- 12 Shower with a friend
- 13 If it's yellow let it mellow, if it's brown flush it down!



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