



CLARION

A Publication of the Colorado Lake and Reservoir Management Association
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www.CLRMA.org

PO Box 206214 Highlands Ranch, Colorado 80163

2004 NALMS SYMPOSIUM VICTORIA, BRITISH COLUMBIA

Colorado was well represented at the 2004 NALMS Symposium with eleven CLRMA members in attendance at the Empress Hotel from November 1 – 5, 2004. President Steven Heiskary opened the Symposium at the Opening Plenary Session with a summary of NALMS accomplishments for 2004. He discussed the theme of the conference “Lakes: Habitat for Fish, Habitat for People” and how we must find ways to minimize human impacts on our lakes.

The Honorable Iona V. Campagnolo, Lieutenant Governor of British Columbia was introduced at the symposium by a spectacular bagpipe procession. She delivered an encouraging message that world economy and the health of



Empress Hotel

the environment is not mutually exclusive. Her central message was “As long as we sustain the ecosystem it will sustain us.” She encouraged continued scientific research in the area of lake management and discussed local issues related to salmon habitat and commercial fishing. Lt. Gov. Campagnolo concluded her talk with the message that there needs to be global collaborative decision processes because the old top down bureaucratic process just doesn’t work anymore; “We need to find ways to integrate a healthy environment into our everyday lives, living with new industries, new attitudes, and a new way of thinking.”



Photo Contest at NALMS 2004

Nancy Wilkin, Assistant Deputy Minister of the British Columbia Ministry of Water, Land and Air Protection continued the theme of environmental protection by discussing various environmental restoration projects in British Columbia.

The final speaker of the Opening Plenary Session was Dr. Rick Kool, the Acting Director of the Environmental Education and Communication program at Royal Roads University in Victoria, BC. He gave a thought provoking talk with a theme of "Rightfulness of Place." His talk began with a story of a native Indian woman in Canada who had said to him "When are you white folks going to start living like you planned on staying awhile?" She also said to him, "Americans eat a lot but never get full." His talk explored the question of how do we claim our rightful place. How should we treat a place that is so very special to us. The points he made in his presentation were that our past actions related to economic growth have been independent of the environment which is the wrong approach. They need to be linked. He stated "If you don't treat the environment with respect, you will get spanked." In regard to the health of our environment today and the debates about global warming, Dr. Kool stated that "We need to err on the side that things may not be OK, there is just too much at stake."

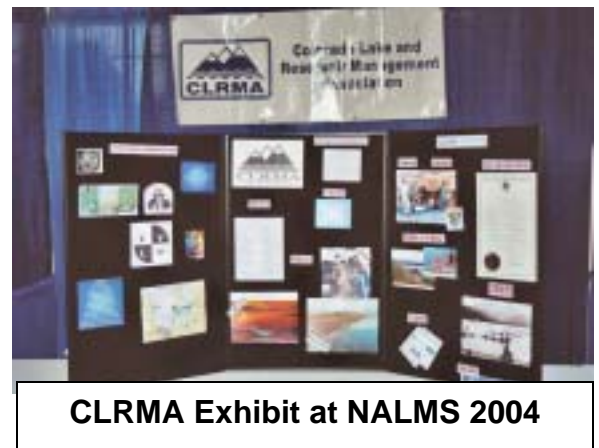
At this year's symposium, Sharon Campbell (CLRMA President Elect) was given a Valued Service Award for 4 years of dedicated service as NALMS Secretary. She will be replaced by Ann St. Amand of Phyco Tech in St. Joseph, Michigan. Steve Lundt, CLRMA Past President was appointed Chairman of the NALMS Chapters Committee. Also the winner of the coveted Secchi Disk Award (NALMS member who best represents and promotes NALMS) was Steve Colvin of Minnesota.

In addition to the interesting poster displays, and vendor exhibits, there were many educational presentations; too numerous to mention but several that caught the interest of this cub reporter were:

- The British Columbia Lake Stewardship and Monitoring Program, where volunteer organizations collect and share valuable data.
- The Extension Lakes Program where children gain an appreciation for watershed stewardship through poetry and artwork. Information about this interesting program can be found at www.riverofwords.org.
- Assessment of phosphorus migration from septic systems around Lake Otsego (NY).
- CLRMA President, Chris Knud-Hansen presented several interesting case studies using SolarBee reservoir circulators.
- Confused fish and impotent alligators, what are the real issues surrounding endocrine disruptors?

The conference was not all business. Many of the conference attendees also enjoyed other conference activities such as the pub crawls, Butchart Garden/Victoria Estate Winery tour, and the viewing of a salmon run. Hopefully you will be able to join in on the fun by attending the 2005 Symposium at the birthplace of NALMS, Madison, Wisconsin.

By Vic Lucero



CLRMA Exhibit at NALMS 2004

SPOTLIGHT ON....

Chris Knud-Hansen

Age: 54

Yrs with CLRMA/NALMS: 8 with CLRMA, 17 with NALMS

Yrs in CO: 21 years

What do you do: Limnologist for SolarBee-Pump Systems, Inc.

Family: Wife, Dhori; kids, Marissa (13) and Brent (9); dog (Bodhi), parakeet, fish, and two geckos.

When I'm not working I am... usually busy with home projects or spending time with the kids.

Your idea of happiness: finishing a home project and spending time with the kids... happy hour beachside at Los Cabos following a nice round of golf works too.

Not many people know that... I'm a longtime international (Eastern European and Scandinavian) folk dancer.

What do I like to do most: explore, swim, read, and write.

If I won the lottery: share a bit, travel a bit, and finance a few pet projects.

Last book I read: *Stairways to the Stars* (Sky watching in Three Ancient Cultures) by A. Aveni (1997)

What political office: fatherhood is all that I can handle

Toughest aspect of my job: spending too much time in front of a computer instead of being on (or in) the water somewhere.

What famous person would you like to meet most: Carl Sagan – a visionary who blended science with spirituality.



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2004 CLRMA 8th Annual Fall Meeting

CLRMA's 8th Annual Fall meeting took place October 13, 2004 at the Westminster City Parks and Recreation Center. Due to the May Regional conference held here in Denver, we only had two presentations: **Mike Japhet** and **Kay Zillich**. Mike is a fish biologist for the Colorado Division of Wildlife in Durango. He has worked on the San Juan and Dolores rivers in southwest Colorado for 25 years. Mike provided a status report on the Vellecito Reservoir fishery and the effects of the Missionary Ridge fire. Kay is a hydrologist with the U.S. Forest Service in Durango. She has been involved with emergency bank stabilization and long term rehab of the 2002 Missionary Ridge fire in the San Juan National Forest. She discussed the post-fire debris flow predictions and three erosion control treatments used in the severely burned area adjacent to Vallecito Reservoir.

A business meeting was held to elect new officers and directors for 2005. The new president will be Chris Knud-Hansen of Solar Bee/Pump Systems, Inc. and the president-elect is Sharon Campbell with the USGS. The new treasurer is Travis Bray with Denver Water. New directors are: Joni Nuttle (Colorado Department of Public Health and Environment), Kevin Urie (Denver Water), and Canton O'Donnell (Grand Lake resident).

At this year's CLRMA conference, Steve Lundt and Jim Shelley presented a number of awards recognizing individuals for their significant contributions to this organization.

Special recognition awards were giving to Chris Knud-Hansen, Vic Lucero, Stacey Smith, Jim Shelley, and Tom Settle. Sharon Campbell was awarded the **Outstanding Committee Chair Award** for all of her hard work on the 2004 Rocky Mountain Regional Lake and Reservoir Management Conference. Coors and Colorado State Parks were both given a **Friend of CLRMA Award** for their support and participation. A **Lake Management Award** was given to FRICO for their efforts on Barr Lake. Jessica Lang was presented with a **Student Award** and the **Communications Award** was given to Travis Bray. Finally, the 2004 **Secchi Disk Award** was presented to Steve Lundt by Jim Shelly (see picture below). During his presidency, Steve boosted membership, boosted west slope participation, among many other things. He is currently on the NALMS development committee.

A round of applause, please!

CLRMA received a certificate of appreciation from the North American Lake Management Society for hosting the Rocky Mountain Regional Lake and Reservoir Management Conference in Denver in May, 2004. The award (see picture to right) was shared at the CLRMA Board meeting on November 17, 2004, and will be displayed in Sharon Campbell's office in Fort Collins. At the recent NALMS Board meeting in Victoria, B.C. on November 1, 2004, NALMS did approve a chapter split of \$997.16 as CLRMA's share of the net profits for the Rocky Mountain Regional Conference. NALMS Officers and Board all expressed sincere thanks to CLRMA for hosting such a successful conference! Please stay tuned as CLRMA plans to have another regional conference in 2006 and we hope that many members will participate in that future event.



Steve Lundt (right) receiving the Secchi Disk Award.



CLRMA's Certificate of Appreciation from NALMS.

President's Dock: Chris Knud-Hansen

It is a real honor and pleasure to be CLRMA's ninth president, and here's hoping that 2005 will be a great year for us fellow "Clarmates" new and old, and on both sides of the great divide (continental... not red vs. blue). By way of introduction, I've had a long, non-linear (but fun) career in limnology as a grad student (U. of North Carolina and U. of California at Davis), in academics and research (National University of El Salvador, University of Colorado, Michigan State University, and the Asian Institute of Technology, Thailand), in lake management consulting, and now as the staff limnologist for SolarBee-Pump Systems, Inc..

CLRMA uniquely serves all Coloradoans who share an interest in surface water management through our mandate "*to promote understanding and comprehensive management of lakes, reservoirs and their watersheds*". Looking back at the past eight years, the growth and maturity of CLARMA is something we all should take pride in. Since CLRMA's birth in October 1997, nearly 40 different people have served on the Board of Directors or as a committee chairperson to help make CLRMA a highly respected state chapter of NALMS. Recent achievements include attaining non-profit status, developing the www.CLRMA.org website, hosting the first Rocky Mountain Regional Conference on Lake and Reservoir Management, and publishing a first class quarterly newsletter – the Clarion.

My goal for 2005 is to maintain our current momentum while fine-tuning a few additional areas. Specific goals include to: 1) increase CLRMA membership among students and lake homeowner associations, 2) begin a Colorado lake and reservoir database on the CLRMA website, 3) further develop the *Colorado Volunteer Lake Monitoring (CVLM)* program; e.g., CLRMA's annual 2005 Spring Luncheon in mid-April will focus on this activity, 4) celebrate *Lake Appreciation Month* at Grand Lake on July 16-17 in conjunction with the "Western Weekend & 58th Annual Buffalo Barbecue Celebration", 5) formalize a program for student scholarship(s) and/or a summer intern to assist with the CVLM program or the Colorado lake database, and, 6) continue to host great conferences. In addition to the Spring Luncheon, CLRMA will hold its 9th annual meeting & conference in October 2005 - a full day affair with presentations and a possible workshop. We'll also begin preparations for the 2nd biannual Rocky Mountain Regional Lake and Reservoir Management Conference scheduled around early March 2006.

This should be a fun and exciting year for CLRMA, and there is still plenty of room for additional ideas. For those of you who actually read this message down to here (a form of natural selection), here is a pop quiz: 1) how can CLRMA be a better resource for the various water interests in Colorado? And, 2) where in the above goals/activities could you lend a hand, suggest an idea, share information, and/or donate a few hours of your time? So, thank you all for your sponsorship of CLRMA, your support of the Board of Directors, and your active participation – we're all in this together, and together we will continue to make a difference in Colorado!



Left the Dock: Steve Lundt

Just want to say thank you once again for 2004 and for letting me be president of CLRMA. 2005 will be another very exciting year for CLRMA, much of the planning occurred in 2004 so you will see some big events this coming year.

Starting off this spring, we are beginning to plan our annual spring luncheon that will focus on kicking off the first-ever Colorado Volunteer Lake Monitoring program (CVLM). At the spring luncheon, we will have one or two wonderful speakers talk over lunch about volunteer lake monitoring, and then we will end with a training session and hand out equipment for our inaugural 2005 volunteer group.

The big event for 2005 will be Lakes Appreciation Month at Grand Lake. Mark this one on your brand new calendars, July 16-17. CLRMA, NALMS, and the national EPA lakes appreciation month celebration will help celebrate Grand Lake's 58th annual Buffalo Barbecue and Western Weekend celebrations. Great food, a 5k run and walk, and lake-specific activities will be going on all weekend long. Keep your eyes open as the program develops in the spring.

Finally, I want to wish Chris Knud-Hansen, CLRMA's new president, a fruitful year. Chris will continue with the momentum and also take CLRMA into some new and exciting directions. I look forward to this year.

Limno 101: Limiting Algal Growth

By Chris Knud-Hansen

Similar to the tomatoes in your backyard garden, algae are plants that require a supply of inorganic nutrients, sufficient light, and favorable temperatures to grow. The primary inorganic nutrients are phosphorus (P), nitrogen (N), and carbon (C). Hydrogen (H) and oxygen (O) are also essential nutrients, but water provides a limitless supply. Many other elements are needed for algal growth in lesser or often trace amounts, and are collectively referred to as micronutrients. For example, diatoms use silica (Si) as a structural component for their rigid cell walls. Other micronutrients required for algal growth and enzymatic activity include calcium (Ca), magnesium (Mg), sodium (Na), potassium (K), iron (Fe), manganese (Mn), sulfur (S), zinc (Zn), copper (Cu) and cobalt (Co). Whether there is sufficient light and favorable temperatures depends upon the evolutionary adaptations of individual algal species, though more generically algae can be thought of as having preferences for either high or low temperature or light environments.

Algae will continue to grow rapidly as long as the above requirements are met. When one or more of the requirements are not available for growth, then algal productivity is said to be "limited". Limitation of algal productivity is best described by *Liebig's Law of the Minimum*, which says that algal productivity will be limited by the element present in least supply relative to algal requirements. Note that this principle says "least supply" and not "least concentration." In other words, the rate of algal production is determined by the input rate of the limiting growth requirement(s).

Lakes are often managed with the strategy that reducing the availability of an essential growth requirement will in turn limit algal growth. Between temperature, light, or nutrients, the latter is often the most practical to manipulate. Without harnessing celestial powers, temperature control is not a feasible management strategy. On the other hand, light limitation of algal growth can be promoted with the addition of a colorant (e.g., a bluish dye) that absorbs light energy that would otherwise be used for algal photosynthesis. Light

limitation also occurs naturally in waters with high turbidities due to suspended solids (e.g., high concentrations of clay particles and/or planktonic algae), or when waters are highly colored due to dissolved humic substances.

However, the most common lake management approach using the limitation concept is to reduce the supply and availability of inorganic nutrients to the lake. Soluble inorganic N (ammonia and nitrate) and P (phosphates) are the two most commonly limiting algal nutrients in freshwaters (although availabilities of inorganic C and micronutrients such as Si and Fe can limit algal growth under specific circumstances). Because of its relative scarcity in the environment and relatively low solubility in oxygenated waters, P availability most often limits algal growth in oligotrophic lakes. However, P does not gas off like N can through bacterial denitrification and ammonia volatilization, and P can recycle more efficiently as lakes become more productive and soluble P diffuses from anoxic sediments into overlying waters. There is growing evidence, therefore, that as ponds and lakes become more eutrophic, algal productivity shifts from being P-limited to being either co N+P-limited, N-limited, or light limited.

Nevertheless, it is still better to focus on reducing soluble P inputs to ultimately control algal growth even though the lake may be N-limited. Primary sources of soluble P are surface water inputs from storm water runoff, agricultural drainage, and wastewater discharges. All of these are controllable inputs. Although N also enters a lake through these surface water sources, N can also enter through hard-to-control sources such as from biological fixation by cyanobacteria (blue-green algae) and through seepage of groundwater rich in ammonia. Furthermore, ammonia and nitrate are not removed from the water column through controllable adsorption and precipitation mechanisms as are phosphates. And unlike phosphates, ammonia and nitrate are not sequestered in sediments simply by oxidizing bottom waters. So even for a N-limited lake, it is still more practical and efficient to reduce soluble P inputs in order to drive the system towards P-limitation and ultimately reduce excessive algal growth.

Colorado Volunteer Lake Monitoring Program (CVLM)

CVLM is going to happen! We have over 15 volunteers signed up to monitor about 17 different lakes and reservoirs. From monitoring backcountry, alpine lakes in the James Peak Wilderness to helping with public education and monitoring on the popular Cherry Creek Reservoir, we have volunteers interested in a variety of different lakes and reservoirs.

The CLRMA spring luncheon (April) will be dedicated to volunteer lake monitoring. The plan is to have a couple speakers talk about volunteer monitoring and then we will end with a training session for our new volunteers.

The Colorado Department of Public Health and Environment is very interested in this program. CLRMA is looking forward to working with them to help gather information on Colorado's beautiful and popular lakes and reservoirs that have never been monitored.

If you have a favorite lake, know of a lake or homeowners association, or know of a current monitoring program that would be interested in this volunteer lake monitoring program, please share this article with them and have them contact: Steve Lundt at slundt@mwr.dst.co.us or call 303-286-3272.



CLRMA WANTS YOU!

303-286-3272

LAKES APPRECIATION MONTH, July 2005 – Grand Lake Colorado



Grand Lake, "Lake Tahoe" of Colorado – the largest and deepest natural lake in Colorado, will receive a great big virtual hug this coming July. The big event for CLRMA in 2005 will be a weekend long lakes appreciation month celebration at Grand Lake, along with the local community celebrations. The purpose: give back to our lakes, a time to learn how to protect water quality, conserve water, and view the lake from a new recreational angle.

Reserve your accommodations early because the 58th annual Buffalo Barbecue and Western Weekend is a very popular event (July 16-17). CLRMA will team up with the City of Grand Lake to celebrate an old tradition of eating wonderful barbecue food with a new tradition of learning more about how to preserve and protect Colorado's most well-know lake.

The Lakes Appreciation Month events will be on Saturday, July 16 and end on Sunday, July 17th. Activities will include a 5k run/walk, pancake breakfast, classic wooden boat show, great barbecue food, and hands-on water quality education and lake tours. A more detailed program will be available later in the spring.

If you would like to help with the planning, please contact us. We need help with marketing, press releases, sponsors, and program development.

The Statewide Water Supply Initiative (SWSI) is not just another water study.

An editorial by Keith Catlin

SWSI, at the direction of the Colorado Water Conservation Board, is perhaps the most far-reaching and comprehensive effort ever undertaken to understand our state's water supply and demand and determine how much water we will need in the future. Not only is the study providing critically important data about our current and future water needs, but it is also laying a foundation for greater understanding by all Coloradans of the challenges we face.

Water issues have always been divisive in our state, and various interest groups have long used data and politics to advance their individual agendas. SWSI, however, is giving Colorado an opportunity to rise above traditional historic water rivalries, reach across river basins and uses that for generations have been at odds, and forge a water future that is comprehensive, rational, and beneficial to all Colorado water users. Here is a sample of what has been learned so far:

1. Colorado will use 630,000 more acre-feet in the year 2030, approximately 53% more than we use today.
2. If local providers are successful in implementing the solutions they have identified -- an important "if" -- approximately 80% of these needs will be met.
3. Even if all of these projects and solutions are successful, there is still a shortfall of over 66,000 acre-feet, primarily along the Front Range.
4. Approximately 300,000 acres of farmland could dry up through transfers of water from agricultural to municipal use.
5. Environmental and recreational needs are of critical importance and we must strive to accommodate these increasing demands.
6. Replenishing and maintaining our non-renewable groundwater supply will require greater use of renewable surface water.

Water is never an easy issue to tackle in Colorado. There will be some who will disagree with SWSI's findings, take issue with its approach, or remain suspicious of its purpose. But SWSI is not meant to resolve every water question, issue and dispute in the state. Instead, it is intended to bring together diverse interests of agriculture, industry, the environment, recreation, and municipalities to create a common understanding of Colorado's water issues and to begin to look for solutions that address all our needs. It is not an easy task, but it is a task that the study team has consistently pursued, and the result is something that will benefit all of Colorado.

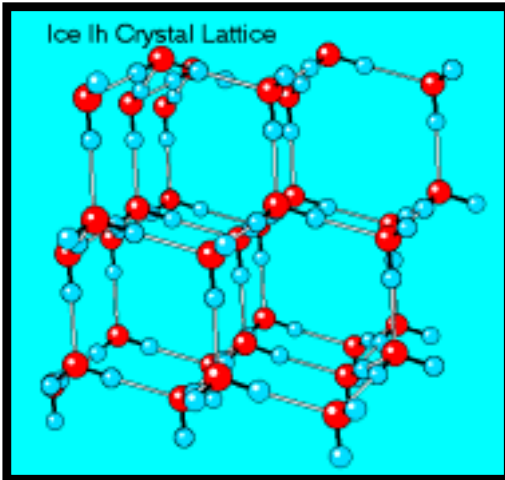
Our water resources are finite, yet our needs continue to grow. Understanding the trade-offs associated with water development and management, and making wise decisions about those trade-offs, is essential to a bright future for Colorado. SWSI has challenged us to shift away from our individual, parochial needs and agendas and recognize that the water issues facing each of Colorado's eight river basins are issues that affect all of us, regardless of where we live, and are issues that we all need to work together to address. At the end of the day, that is the call of SWSI.

SWSI is the best opportunity we have to take regional and statewide cooperation on water to the next level. We hope that those who find it easier to criticize will begin to offer solutions, seek areas of common agreement, and work together to forge a sound water future for our state. Coloradans deserve nothing less.

Cool Properties of Ice – Steve Lundt

It's all in a name; *Vanilla Ice* had a *solid* hairstyle, *chilling* dance moves, and a *cool* name. Did you know that 15 inches of ice can support a moving train or that you can make a pancake on a freezing lake? Did you also know that your lake/reservoir can still have an algae bloom under the ice in the middle of the winter, potentially causing taste and odor issues and winter fish kills?

To *stick* with the season, most of Colorado's lakes and reservoirs are frozen this time of year. To appreciate ice and stay safe, it is good to understand the physical properties of ice.



Ice is a *slippery* thing to understand, maybe because of the molecular structures that define how ice looks, feels, and behaves on lakes. The crystal lattice of frozen water creates a six-sided formation, with major gaps between water molecules. This is the reason why ice formations are shaped the way they are and why ice floats.

At a more macro scale, ice on lakes can impact how the lake looks. "Ice heaving" can seriously impact the littoral zone and lakeshore areas due to expansion and contraction when temperatures change. Ice also seals the water from the atmosphere allowing for consumption of dissolved oxygen caused by decomposition to be greater than the input of

oxygen to the water. If the ice is clear enough, algae can grow in the upper water, creating some oxygen for the fish. Winter fish kills occur when the entire water column goes anoxic because of ice coverage and the lack of photosynthesis.

Often, lakes and reservoirs have enough circulation to create some open water. "Ice pancakes" result when larger chunks of ice break off, and wind and wave action spray freezing water onto the edges, forming "pancakes".

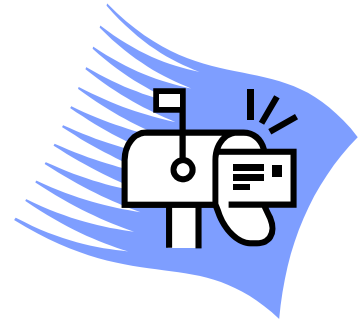
Safety is the most important thing. You cannot determine the safety of ice from just looking at it. Ice thickness and strength varies significantly day-to-day and from area to area. Ice is most dangerous near the edges, when the lake level is being drawn down beneath the ice, near groundwater inputs, when it is old, and near inlets and outlets.

Here is a load estimate for different thickness of clear, solid ice: 3" = x-country skiers, 4" = ice fishing, 5" = snowmobile, 6" = ice boat, 7" = group activities, 8" = one car, and 9" several cars. These load estimates are reduced when ice is old, cracked, or loaded with snow.



Please make note of our new mailing address:

CLRMA
PO Box 206214
Highlands Ranch, CO 80163



CLRMA Scholarship – 2005

The [Colorado Lakes and Reservoir Management Association](#) will offer two \$250 scholarships for the 2005/2006 school year.

- Eligibility:
1. Enrollment in a full-time biology (or similar field) at an accredited university or college.
 2. Have a minimum GPA of 3.0 out of 4.0.
 3. Have an interest in water resources.
 4. Membership in CLRMA (not required, but encouraged).

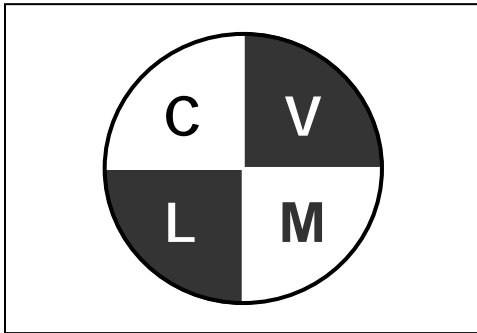
- Procedure:
1. Complete application form.
 2. Compose a 250 word essay on your interest in lakes and reservoirs.
 3. Submit both to CLRMA by February 28, 2005.
 4. Awards will be announced April 18, 2005.

For more information and/or the application, please contact :

Travis Bray
CLRMA Scholarship
PO Box 206214
Highlands Ranch, CO 80163
Travis.bray@denverwater.org
303-628-6551
303-628-6852 (fax)

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303-286-3272

Due to the popularity of the CLM electronic version, we have decided to only send it out via e-mail. If you have any problems viewing the electronic version, please let me know.

Thanks, Travis Bray

travis.bray@denverwater.org

303-628-6551

1 page = \$200 for 4 issues or \$60/issue
1/2 page = \$100 for 4 issues or \$30/issue
1/4 page = \$50 for 4 issues or \$15/issue
(For more info:
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