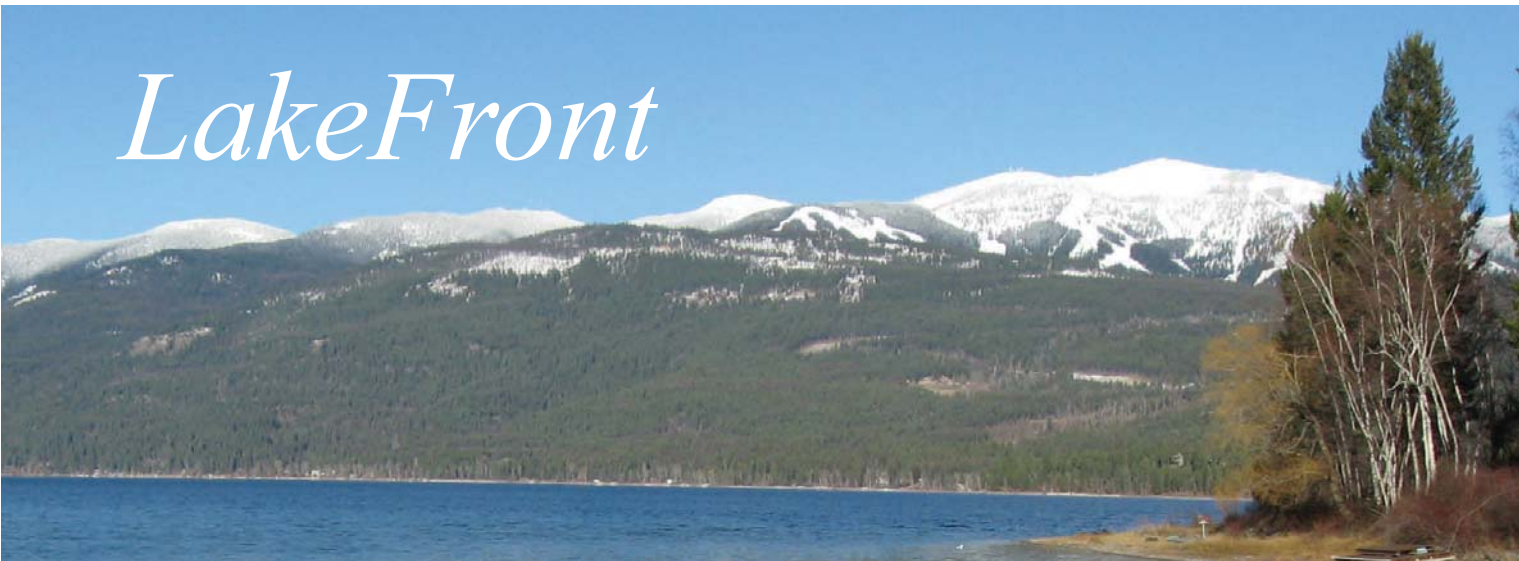


LakeFront



Quarterly newsletter of the Whitefish Lake Institute

Winter 2008

All Eyes Are On The Rock

The Whitefish Lake Institute has a new fund-raiser. The Citizens Advisory Committee has resurrected an old Whitefish winter pastime and turned it into what we hope will be a fun annual event. In the “olden days”, the winter weary people of Whitefish, in an attempt to entertain themselves during the long cold winter months, would place wagers on when the ice would melt off of the lake.

All eyes would be cast out on the lake where a rock would be placed on the surface of the ice. Wagers would be placed as to what day the rock would drop through the thinning ice signifying that the Spring Thaw had begun.

Thanks to the sponsorship and enthusiasm of the Lodge At Whitefish Lake, the Institute has created it’s own version of *The Rock Drop*. The sacrificial *Rock*,

generously donated by Morgan Deskins of Through The Woods Landscape Design, is special. Shaped like the state of Montana, it is heavy (ask Mike), and has a whitefish painted on it. It got to ride in the Whitefish Winter Carnival Parade and has ceremoniously been placed on the ice in full view for all curious patrons of the Boat Club Restaurant and Bar to admire.

Come to the Lodge At Whitefish Lake and make a prediction. The suggested ticket price is \$10 each. It will be a 50/50 split between the lucky person who selects the date and the Whitefish Lake Institute. In the event that more than one person picks the winning date, a drawing will occur. The first drawn will win the 50/50, the second drawn will receive 2 nights lodging at The Lodge at Whitefish Lake. All others will receive a beer and a map of Whitefish Lake. -Susan Fletcher



Susan Fletcher, Steve Qunell, Chris Ruffatto and Mike Koopal place “The Rock” on Whitefish Lake

IN THIS ISSUE...

All Eyes Are On The Rock.....	1
New Board and Committee Members.....	2
WF High School Science Symposium	3
Tally Lake Map Now on Sale.....	4
The Deepest Lake in Montana?.....	4
Membership.....	5
Become a Member.....	6



Whitefish Lake
INSTITUTE

*Protecting and improving the
Whitefish, Montana area
lake resources*

Whitefish Lake Institute

635 Denver Street
Whitefish, MT 59937

Voice: (406) 862-4327

Fax: (406) 862-4341

info@whitefishlake.org

www.whitefishlake.org

Founded in 2005, the Whitefish Lake Institute is committed to acquiring scientific research and engaging the local citizenry to protect and improve the Whitefish area lake resources of today, while providing a collective vision for tomorrow.

Board of Directors

Gene Hedman, *President*

Jack Fletcher, *Vice President*

Charlie Abell, *Secretary/Treasurer*

Greg Lane

Bill Leonard

Dr. Michael Ricker

Karen Reeves

Jim Stack

Nancy Svennungsen

MT. Sen. Dan Weinberg

Technical Advisory Committee

Mark Deleray

Tony Nelson

Dick Solberg

Brian Sugden

Wayne Svee

Citizens Advisory Committee

Bayard Dominick

Greg Gunderson

Susan Fletcher

Christine Hensleigh

Sue Moll

Steve Qunell

Staff

Mike Koopal– Executive Director

Chris Ruffatto– Scientist

LakeFront is published quarterly by the Whitefish Lake Institute. The opinions expressed in **LakeFront** are those of the authors. We welcome comments and submissions.

Mike Koopal, Editor

Printed on re-cycled paper

Logo design by Carbery Creative

Cover photo:
View from State Park

New Board and Citizen Advisory Committee Members

Board of Directors... For over eight years, Gregory S. Lane served as Senior Vice President – Mergers & Acquisitions Counsel of Fidelity National Financial Inc. (NYSE: FNF), one of the nation's largest and most respected title insurance companies, a nationwide provider of specialty insurance products and the leading North American provider of innovative claims and productivity management. During Greg's tenure in this position, Fidelity acquired over 200 companies and grew from approximately \$700 million in revenue to over \$10 billion in revenue.



Greg Lane

Fidelity has consistently been named by *Forbes* as one of America's "Best Big Companies" and by *Fortune* as one of "America's Most Admired Companies."

In December 2005, Greg was appointed Executive Vice President and Chief Operating Officer of Fidelity National Timber Resources, Inc. (FNTR), which focuses on real estate investment and development, primarily in the Northwest United States and is the majority owner of Cascade Timberlands, LLC, which owns approximately 290,000 acres in central Oregon.

Greg is also engaged in a variety of private business ventures with William P. Foley, II, Chairman of the Board of Fidelity. In this regard, Greg worked with Mr. Foley in forming Rock Creek Cattle Company, Ltd. in the fall of 2004 to acquire an 86,000 acre ranch located near Deer Lodge, Montana. Following the purchase, Greg has assisted Mr. Foley at the ranch in connection with a 240 residential unit, private golf course planned unit development, the improvement of fisheries and other wildlife habitat, the establishment of conservation easements and a master water management plan, and negotiations with local, state and federal governmental authorities on a wide variety of issues. Greg also assisted Mr. Foley in the formation of and the acquisitions related to Glacier Restaurant Group, the largest restaurant business headquartered in Montana, the purchase of Glacier Jet Center, the sole FBO located at the Glacier Park International Airport, and the creation and expansion of The Foley Wine Group, LP.

Prior to joining Fidelity, Greg was an associate lawyer with the prestigious firms of Latham & Watkins in Southern California and Wilmer, Cutler, Pickering, Hale & Dorr in Washington, D.C. Greg resides in Whitefish.

Citizens Advisory Committee...

Christine Hensleigh is a former editor and reporter for the Whitefish Pilot, where she won numerous awards for her writing. She now tackles history, grants and other topics that strike her fancy. Her love of water started in the South, where she was a river guide and kayak instructor for five years. Before that she rowed for the University of California at Berkeley, where she majored in English and Economics. She supports the Whitefish Lake Institute because City Beach is a favorite spot of her 3-year-old son and she'd like to see water quality maintained and even improved in that vicinity. (New Citizens Advisory Committee members continued on page 4)



Christine Hensleigh

Whitefish High School Science Symposium

The Science Research and Advanced Chemistry classes will be holding their Science Symposium 6:00pm Monday, May 12th at the Whitefish High School library.

Students in Science Research pick an area of interest and design a research or engineering project around that area. Many students pick areas that they are interested in pursuing in college or as a career. The class gives students the opportunity to go beyond the textbook and delve into how projects and tasks are accomplished in the real world. In the process, creativity and problem solving skills are developed along with the communication skills that are key to success in any career. Students also get to network with researchers and professionals, which could lead to possible opportunities in the future.

In the fall, students complete an in depth literature review and plan their project. During the winter, students complete their project work and start writing their technical paper. The spring is busy with preparing for the State Science Fair and other competitions, organizing a PowerPoint presentation, designing a website and organizing the Science Symposium. The students' curiosity drives the class. As one student said last year, "I like this class because I know more about my project area than the teacher."

Student projects in Science Research are:

- Effects of Various Fuels on Engine Performance
- A Study of the Efficiency of a Big Belly Solar Powered Trash Compaction Garbage Can
- A Comparison of Friction Force Between Artificial and Real Ice
- Improving the Propagation Method of Native Moss Species
- Cyberbullying in Whitefish High School
- An Analysis of the Friction Force of Heated and Regular Temperature Hockey Skate Blades

The Advanced Chemistry class will also be presenting their air quality projects. The class has been working in the Air Toxics Under the Big Sky Program with Dr. Tony Ward and his team at the Center for Environmental Health Sciences at the University of Montana (http://www.umt.edu/cehs/k12_outreach.html). The class received a generous Plum Creek grant last year and purchased an air quality meter that the students have been using to test air quality in their homes and other locations. The University of Montana team has provided training on air quality issues and has helped the class with testing details.

Student projects in Advanced Chemistry are:

- Indoor Air Quality Study of the Whitefish Ice Rink
- Study of Natural Gas Cooking Stoves
- Air Quality of Whitefish High School
- 3M Air Filtration Unit Study in Whitefish Homes with Wood Stoves
- The Effect of Fire Retardant on Zooplankton

Please contact Todd Spangler at Whitefish High School (862-8600 x412) if you would like to learn more about these classes or provide financial or technical support. –Todd Spangler

Science Symposium Project Highlight...

My name is Kristi Whisler and I am a junior at Whitefish High School. This year, I am taking Mr. Spangler's Scientific Research class. This class enables students to pick an area that they are interested in and design a research project. Initially, I was interested in the effects of fire on soil, but after further research, I found that the ecological effects of fire retardant were mostly unknown and controversial. I have developed a project to find out the effects of fire retardant on Zooplankton copepods in Whitefish Lake. With researcher Mike Koopal's help, I was able to collect and examine zooplankton. I have ran into several problems with my project, most recently a broken zooplankton net, but I am finally ready to conduct my experiment. I will test varying concentrations of fire retardant in 4 ml of lake water containing zooplank-

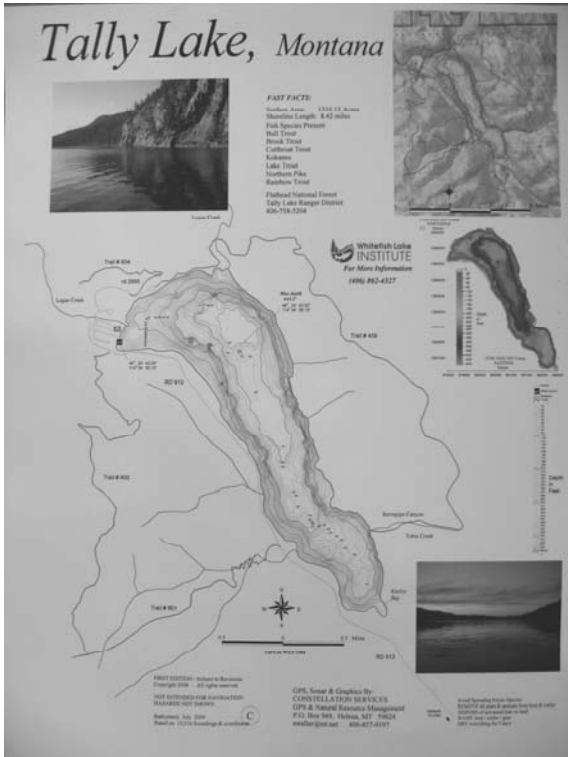
ton at 30 minutes, 3 hours, 12 hours, 48 hours, and 72 hours to find the zooplankton mortality rate. I will repeat all of my tests at least three times to achieve a mean mortality. The results of this experiment will help me to determine the effect of fire retardant on zooplankton if fire retardant were dumped into a watershed and eventually flowed into Whitefish Lake.



Kristi Whisler collects zooplankton on Whitefish Lake.



Tally Lake Map Now on Sale!



Map Order Form

Prices:
 Laminated Map (24x36) \$15 Shipping \$3
 (Please indicate the number of maps you wish to purchase)

Tally Lake _____

Whitefish Lake _____

Total _____ x\$15 = _____

Shipping \$3 _____

Order Total _____

My check is enclosed Visa Mastercard

Credit Card #: _____

Expires: _____ Signature _____

Name _____

Address _____

City _____ State _____ Zip _____

Make checks payable and mail to:
 Whitefish Lake Institute • 635 Denver Street • Whitefish, MT 59937

This map shows detailed bathymetry for one of the most popular recreational lakes in the Whitefish area. Great to hang on your wall next to the Whitefish Lake map, to give as a gift, or to have in your boat. (Map is in color)
 Product of: Constellation Services Helena, MT

The Deepest Lake in Montana?

Tally Lake, long regarded as the deepest lake in Montana at 495 feet, may have some competition. In a recent bathymetric evaluation by Constellation Services of Helena, the deepest point in Tally Lake was only found to be 445 feet deep.
 Researchers studying Lake McDonald in Glacier National Park believe they have found some areas in that lake to be around 480 feet deep.
 We may soon have the final answer. Constellation

Services is planning a bathymetric investigation of Lake McDonald in 2008.
 It's unknown exactly how Tally Lake was formed but it's speculated that a fault along the east shore, along with glacial over-deepening, could have created this fjord like lake.
 Another theory is that a large landslide blocked off Logan Creek since both the inlet and outlet to the lake are located in such close proximity to one another.

New Citizens Advisory Committee Member (con't)



Susan Fletcher

Susan received her B.S. in geology at Indiana University. While at Indiana University, she spent two summers doing fieldwork in southern Montana. This experience was the start of a life long love for the west. Upon graduation she headed west...and north to Calgary, Alberta finding a successful career as a petroleum geologist. She and her husband, Greg, have two children. During the children-rearing years she chose to stay home. Her time outside of the home was spent volunteering within the schools, heading up Arbor Day for the public school system, and chairing a volunteer committee that re-designated land from industrial to that of a Natural Environment Park within the Bow River Valley corridor. She also chaired successful fund-raisers for The Alberta Children's Hospital, Easter Seals Canada, and The Yoga Center Of Calgary.
 For the last fourteen years, Susan has been teaching yoga both in the community and in her own studio.
 Susan and Greg built a home on the Whitefish Lake seventeen years ago. Susan resides here several months of the year.

Whitefish Lake Institute Membership

Research Guarantor (\$1,000 and above)

John and Anne Collins- Whitefish, MT
 Fidelity National Timber Resources- Whitefish, MT
 Bill Foley- Whitefish, MT
 Bill and Ann Jones- Whitefish, MT
 Greg Lane- Whitefish, MT
 Bill and Ruth Leonard- Whitefish, MT
 Plum Creek Timber Company- Columbia Falls, MT
 River Design Group, Inc.- Whitefish, MT
 Scott and Cindy Schmid- Portland, OR
 Mike and Marie Shaw- Whitefish, MT
 Dan and Gayle Weinberg- Whitefish, MT

Lake Visionary (\$500)

Richard and Carol Atkinson- Whitefish, MT
 Dick and Sandra Boyce- Portola Valley, CA
 Mark and Constance Cowett- Bozeman, MT
 Greg and Susan Fletcher- Whitefish, MT
 InvesTech Research, Jim and Lisa Stack- Whitefish, MT
 Lion Mountain Homeowners- Whitefish, MT
 Lizika Lam- Kamuela, HI
 Mark Mance- San Francisco, CA
 Joseph and Beverly Raudabaugh- Lake Forest, IL
 Whitefish Credit Union- Whitefish, MT
 Lee Zignego- Whitefish, MT

Lake Benefactor (\$250)

Charlie and Susan Abell- Whitefish, MT
 Dan Averill- Bigfork, MT
 Sean Averill- Whitefish, MT
 Nick and Karen Chickering- Nevada City, CA
 Jim Colla- Whitefish, MT
 Joseph and Melanie Eve- Whitefish, MT
 Jack and Florence Fletcher- Whitefish, MT
 Gene Hedman- Whitefish, MT
 Bill Hileman and Susan Lacosta- Whitefish, MT
 Richard and Joanna Hoefle- Billings, MT
 Carl Hulick- Pasadena, CA
 Junkermier, Clark, Campanella, Stevens, Kris Fuehrer- Whitefish, MT
 Darcy Kelly- San Diego, CA
 Harold and Marie Lockhart- Whitefish, MT
 The Lodge at Whitefish Lake- Whitefish, MT
 Ed and Cherie Meek- Whitefish, MT
 Morrison and Frampton, PLLP- Whitefish, MT
 Dow and Becky Powell- Whitefish, MT
 Dick and Jane Solberg- Whitefish, MT
 Peter and Christine Stanley- Whitefish, MT
 John and Nancy Streibich- Whitefish, MT
 Mark and Nancy Svennungsen- Whitefish, MT
 Third Street Market- Whitefish, MT
 Watershed Consulting, LLC- Whitefish, MT
 James and Jackie Woodard- Whitefish, MT

Lake Leader (\$100)

Anonymous
 Koel Abell- Portland, OR
 Tarn and Marybeth Abell- Fairfax, VA
 Peter and Cheri Aronsson- Whitefish, MT
 Sharlot Battin- Whitefish, MT
 Bay Point Country Homes- Whitefish, MT
 Cameron Blake and Alexander Gray- Whitefish, MT
 Betty Fay Brown- Whitefish, MT
 George and Ann Bulkley- Dallas, TX
 Doug Chadwick and Karen Reeves- Whitefish, MT
 Steve and Doreen Christian- Whitefish, MT
 Donald and Sally Clark- Pasadena, CA
 Diane Conradi Law Office- Whitefish, MT
 David and Kelly Cravath- Scottsdale, AZ
 Connie Davis, - Whitefish, MT
 Bob and Kate Fletcher- Portland, OR
 Todd and Susan Flynn- Oro Valley, AZ
 Friends of Blanchard Lake- Whitefish, MT
 Friends of the Wisconsin Ave. Wetlands- Whitefish, MT
 Forestation, Inc. - Whitefish, MT

Lake Leader (\$100), continued

Getter Properties- Sheridan, WY
 Charles and Teresa Grenier- Whitefish, MT
 Les Hardy, Jr.- Whitefish, MT
 Robert and Cindy James- Great Falls, MT
 Mike and Barb Jenson- Whitefish, MT
 Leo Keane/North Country Builders- Whitefish, MT
 Jim and Marion Kibbe- Whitefish, MT
 John and Maureen King- Whitefish, MT
 Kintla Copy & Creative- Whitefish, MT
 Mike and Mae Koopal- Columbia Falls, MT
 Nancy Krause and Dan Handlin- Marion, MT
 LaChance Builders- Whitefish, MT
 Joe and Sue Malletta- Whitefish, MT
 Malmquist Construction- Whitefish, MT
 Greg and Mary Anne Moffatt- Encinitas, CA
 John and Janice Moore- Whitefish, MT
 Nelson Hardware, Inc.- Whitefish, MT
 Michael and Dot Ricker- Whitefish, MT
 Bill and Linda Sawtelle- Colleyville, TX
 Marcia Sheffels- Whitefish, MT
 Tom and Karen Sparby- Whitefish, MT
 Bruce and Susan Tate- Whitefish, MT
 Pat and Deb Turski- Madison, WI
 Ed and Susan Walters- Albuquerque, NM
 Whitefish Lake Golf Club.- Whitefish, MT
 Whitefish Lake Restaurant, Doug Reed- Whitefish, MT
 Whitefish Mountain Resort- Whitefish, MT
 Gary and Veda Whitman- Kalispell, MT
 Kari Zirkle- Whitefish, MT

Lake Sponsor (\$40)

Anonymous (2)
 Dave and Mary Armstrong- Whitefish, MT
 Duane and Valerie Bauch- Whitefish, MT
 Joe Brenneman and Nancy Pensa- Kalispell, MT
 Bill and Judith Bruzek- Whitefish, MT
 Ben and Doreen Cavin- Whitefish, MT
 Copperleaf Chocolat Company-Susan Schnee- Whitefish, MT
 Tony Davis- Whitefish, MT
 Vincent and Sally De Rosa- Whitefish, MT
 Edwin Fields- Whitefish, MT
 Doug and Ann Follett- Whitefish, MT
 Judah and Tanya Gersh- Whitefish, MT
 Dewey and Sandra Hartman- Whitefish, MT
 Rollin and Carole Harwood- Whitefish, MT
 Susan Hauber- Norwalk, IA
 Stephen and Dru Jackman- Whitefish, MT
 Dennis and Frankie Johnson- San Antonio, TX
 Wink Jordan- Whitefish, MT
 Dan and Betsy Kohnstamm- Whitefish, MT
 Jack and Betty Koopal- Johnston, IA
 Mitchell and Gail Linne- Whitefish, MT
 Laurence and Barb Magone- Whitefish, MT
 Curt and Janet McIntyre- Whitefish, MT
 Pete and Jan Metzmaker- Whitefish, MT
 John and Janice Moore- Whitefish, MT
 North Country Builders, Inc- Whitefish, MT
 Rebecca Norton- Whitefish, MT
 Randy Ristau- Missoula, MT
 Al and Shirley Ronseth- Whitefish, MT
 Karl and Elaine Roosa- Deer Lodge, MT
 Chris Ruffatto- Whitefish, MT
 Eric and Cami Sawtelle- Whitefish, MT
 Mike and Timmie Smart- Helena, MT
 Mike and Bonnie Streeter- Whitefish, MT
 SunCrest Homeowners Association- Whitefish, MT
 Brith Sutherland- Kalispell, MT
 David and Jeannine Trousdale- Whitefish, MT
 Warren Vaughan- Billings, MT
 Paul and Colleen Verdon- Colfax, WI
 Whitefish Animal Hospital- Whitefish, MT
 Nancy Woodruff- Whitefish, MT

Sign Me Up! Please enroll my membership in the Whitefish Lake Institute.

My check is enclosed

Visa Mastercard

Account #: _____

Expires: _____ Signature _____

Name _____

Address _____

City _____ State _____ Zip _____

Please check your **Annual Membership** category:

- Research Guarantor \$1,000+
- Lake Visionary \$500
- Lake Benefactor \$250
- Lake Leader \$100
- Lake Sponsor \$40

Special Giving

- Endowment Fund (\$500 +)
- Frank Morrison, Jr. Scholarship Fund

Your Contribution is 100% tax-deductible.
501 (c) (3) non-profit corporation

Whitefish Lake Institute • 635 Denver Street • Whitefish, MT 59937

Visit us at www.whitefishlake.org

635 Denver Street
Whitefish, MT 59937

