HUT!

MINNESOTA CANOE ASSOCIATION INC

1982

MAY

PUBLICATION OF THE MINNESOTA CANOE ASSOCIATION INC.

Calendar of Events

MAY

1 Sat.	**Mississippi Cruise** at Grey Cloud Island
2 Sunday	**Watertown's Crow River Race**
2	**Blue Heron Cruise** - Sauk River
2 Sunday	**Whitewater Instructors' Class** Hell's Gate, Kettle River. See article inside. John Wexler, 722-7069.
4 Tuesday 7:30 pm	**Canoeing Movies** "A Family in the Wilderness," the story of a 70-mile journey down a fast Arctic river; "One River Down," an inspirational trip from an unnamed lake to the coast through a steep, fast canyon. Midwest Mountaineering 309 Cedar Avenue S., Mpls.
5 Wed. 6:30 pm	**Do-It-Yourself Canoe Trips** An informal evening of advice about canoe trips. Includes information on routes, packing lists, BWCA regulations, book lists, food preparation. Friends of the Boundary Waters Office 3255 Hennepin Avenue S., Mpls.
5 Wed. 7:00 pm	**MCA Directors' Meeting** Minnesota Federal Savings & Loan 5320 Lyndale Avenue S., Mpls. All members welcome
7 Friday 8-10 pm	**Racers' Meeting** Tall tales, boasting and training. All racers and interested parties are invited. Clint Waddell, 561-5769 8015 Sunkist Boulevard Brooklyn Park
7,8,9	**Pike/Peshtigo Cruise** - Wisconsin
8	**Minnehaha Creek Cruise**
8	**Lower Kettle Cruise**
8 Sat. 12-5 pm	**Canoe and Kayak Demo Day** Come down and try out the canoe or kayak of your choice before you buy. See the new lines of Sawyer canoes and Perception kayaks as well as the Old Town and Phoenix lines. Call for more information and to sign up at 339-3433. Midwest Mountaineering 309 Cedar Avenue S., Mpls.
8,9 Weekend 10-4 pm	**Outdoor Festival** Sponsored by the Minnesota Wildlife Heritage Foundation. An outdoor sports and recreation event with numerous demonstrations, contests, clinics and other events. See article inside. Fort Snelling State Park
8,9	**Flambeau River Overnight Cruise**
9	**Blue Earth Citizens Canoe Race**
11 Tues. 6:30	**Whitewater Instructors' Meeting** Vali-West Restaurant Cedar and Riverside, Mpls.
11 Tuesday 7:30 pm	**Kayak Touring Class** Learn what to look for when choosing a kayak, how to prepare for a trip, and where to go from Andy Knapp. Andy's an expert on kayak touring, has been around to BWCA and all over Alaska. Midwest Mountaineering 309 Cedar Avenue S., Mpls.
12 Wed. 7:30 pm	**Solo Canoe Clinic** Clinic and slides by Bob Brown, Darrell Foss and Cliff Jacobson on solo canoes and tripping. REI, 710 West 98th Street Bloomington
12 Wed. 7:00 pm	**St. Cloud Chapter Program** **Preparing for the BWCAW** Here's a great rundown on the history and environment, laws, permits, and reservations; where to go, what to take, how to pack it, and what to wear. The discussion is accompanied by excellent slides of gear plus actual trip experiences. Plan to attend. Great River Regional Library St. Cloud, MN
14-16	**Pike/Peshtigo/Wolf Cruise** - Wisconsin
14-16 Fri-Sun	**St. Cloud Trout Fishing Trip** Savanna Portage State Park near McGregor (see article inside). Contact Mike Zapf 612-251-5807 or Walt Jones 612-488-4570.

MCA Monthly Program

GENERAL RIVER CRUISING

Discussion will cover various rivers in the Tri-State area. This would be an excellent program to attend if you are interested in exploring the various rivers within a 300-mile area of the Twin Cities.

This program will include a slide show of some local rivers, plus some out-of-state rivers.

The program will take place at Powderhorn Park, 3400 15th Ave. S. at 7:00 p.m., May 19.

Calendar of Events

MAY cont.

15 or 16 Sat,Sun 1:00 pm — **Intro Whitewater Course**
U of M Showboat Landing
See article inside.

16 — **Jensen Handicap Canoe Race**
See article inside.

19 Wed. 7:00 pm — **MCA Monthly Program**
General river cruising in the tri-state area. Slides and discussion on favorite and little known rivers. See article.
Powderhorn Park Building
3400 - 15th Avenue S., Mpls.

22 — **Lower Crow Cruise**

23 Sunday 1:00 pm — **Intro Whitewater Course**
Taylors Falls. See article inside.

22 — **Hyack Canoe Festival and Race**

23 — **Faribault Jaycees Canoe Race**

22,23 Sat,Sun — **Canoe Daze**
MCA and Hoigaards co-sponsor displays, workshops and clinics on canoeing. Strip canoe building and fiberglassing demonstrated. See article inside on one of our biggest events this year.
Hoigaards
3550 S. Highway 100, St. Louis Park

25,26 Tues,Wed 6:30 pm — **Canoe Design and Drawing Class**
Learn how to design your own canoe. See article inside. Contact Mike Ludvigsen at 612-884-0033.

26 Wed. — **Map Reading for Canoeists**
Practical exercises on getting river, portage, and campsite information from topo and other maps; how not to get lost, and how to get unlost.
Friends of the Boundary Waters Office
3255 Hennepin Avenue S., Mpls.

29-31 — **Wolf River Cruise** - Wisconsin

29-31 — **St. Croix Cruise** - Danbury/Wild River

29-31 — **Wolf-Peshtigo Cruises** - Wisconsin

See NEW CRUISE CALENDAR

JUNE

2 Wed. 7:30 pm — **Monthly Directors' Meeting**
Jim Seward, 377-0551
4437 Cedar Lake Road
St. Louis Park
All members welcome

5 — **Rum River Race**

6 — **Medford Straight River Days Race**

9 Wed. 5-10 pm — **Canoe and Outdoor Equipment Swap and Picnic**
River Park in Brooklyn Park. Bring all your old canoeing equipment and swap for someone else's. Plan on making an evening of it by bringing a picnic lunch, relax and enjoy the scenic view of the Mississippi River. See June HUT! for more information.

12-13 — **Crow Wing River Cruise**

15-17 T,W,Th 6:30-9:00 pm — **BASIC CANOEING** - MCA Method
Minneapolis Public Schools, $10 fee
Contact Karl Ketter at 636-8116.

11-13 — **Zumbro River Rats Canoe Race**



Welcome New Members

NEW MEMBERS FOR MARCH

Life Member - Chris Berne	Minneapolis, MN
Mario Clotier	Quebec, Canada
Keith Briscoe	Storm Lake, IA
Black Bart	Bruce Crossing, MI
David H. Pfluks	Bloomington, MN
Ernest Gunderson	Golden Valley, MN
Margy Ward	Minneapolis, MN
Gunther Gibat	St. Paul, MN
Robert Fritsch	Austin, TX
William Head	Brooklyn Center, MN
Marvin Kotek	Prior Lake, MN
Bill Jackson	Minneapolis, MN
William Dold	Eagan, MN
Rick Smith	Geneseo, NY
Diane Stumpner	Robbinsdale, MN
James Lien	Golden Valley, MN
Earl Finden	Richfield, MN
Kurt Kemppainen	Robbinsdale, MN
Verne Tollefson	Bemidji, MN
Donald Auger	Bemidji, MN
Robert Ambler	Minneapolis, MN
Richard Jordan	St. Cloud, MN
Ronald Jorgensen	Edina, MN
Jeb Goins	Missoula, MT
Jack Mefford	Missoula, MT
Fritz Hansen	Union Grove, WI
Errol Schluter	Oconomowoc, WI
John Diebold	Glen Ellyn, IL
George Sorenson	Minneapolis, MN

TOWBOATS ON MY RIVER

by Bob Brown

Over twenty years I've been working on the river, and a towboat still leaves me in awe. I guess I'm most impressed when I'm out in a 14-ft. solo boat and a towboat passes me.

What exactly is a towboat? Some of you may never have seen one up close. They are large work boats that push barges and move cargo. Their size depends on where you see them.

From St. Paul upstream a typical boat is from 600 to 1200 H.P. and pushes 2-4 barges. Below St. Paul the size jumps to 3000 to 6000 H.P. These St. Paul to St. Louis boats often push up to 15 barges.

Below St. Louis there are no locks. The boats here reach 10,500 H.P. and push 50-60 barges. Each barge carries 1400 tons of cargo.

Big, I guess½ A boat leaving St. Paul with 15 barges is nearly 1200 ft. overall in length and 105 ft. wide. The total tonnage of boat and cargo may reach 35,000 tons. This really dwarfs my C.J. solo.

How does this affect canoeists? Let's start with stopping ability. A loaded tow traveling at about 10 MPH will stop in about four boat lengths. Remember, this boat is a quarter mile long. Don't expect this boat to stop for you, right of way or not.

When a boat of 4,000 H.P. is going full ahead it stirs up quite a bit of water. It is quite common for water behind a tow to be rolling over and over for a full five minutes after the boat has passed. Crossing a channel close behind a tow may give you some surprises.

When meeting a tow in a narrow channel, you may find a bow wave as high as six feet. This wave can push you ashore when you didn't plan on it or float off a canoe parked high and dry.

These boats displace so much water that in a narrow spot the water can't get past the end of the tow fast enough, so the water simply builds a wall in front of the tow.

Once this wall passes, the river will drop you just as abruptly. What a perfect way to get floated up over some rocks and dropped.

The small harbor boats that you meet above the Ford Dam have a problem unique to harbor boats. They can't see where they're going. Really; with empty barges these smaller boats often can't see a thing in front of them. There should be a law against, it but there isn't.

These small tows move barges around by looking out the sides to see where they've been. The skippers depend a lot on their deck hands with walkie talkies.

It is fortunate for the canoeist that these steel monsters are quite predictable. They normally stay in the channel, that leaves the rest of the river for your use.

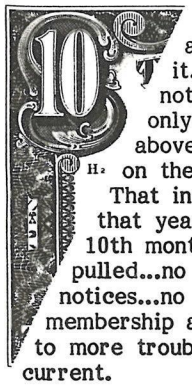
Where is the channel? That's easy once you learn to read the bouys. The standard rule for bouys anywhere in the U.S. is (red right returning). Returning from sea, you keep the reds on your right and blacks on your left. Going downstream you simply turn this around.

OK, now if you move out of the channel as a tow approaches, don't cross close behind a tow, don't get close to the rocks, and always stay where you can see his wheelhouse, you should be safe.

Close to a lock, the tow will usually make a straight-in approach, same going out. If you stay off to the side, you should have no problems.

If you plan to enter the lock after a tow leaves, paddle up close but off to the side. Don't forget the turbulence behind this boat.

Towboats are something to be respected, but if you give them lots of room, you have little to fear.



When you got a $10 bill for your annual dues (a postcard), that was it. No follow-up. No past-due notice. No threat. No plea. The only reminder will be the numbers above your name on the address label on the back side of this newsletter. That indicates your dues renewal is due that year, that month (8210 means the 10th month of 1982). Then the plug is pulled...no more trip schedules, program notices...no more HUT!. Dropping your membership and reinstating it puts the club to more trouble and expense than keeping current.

Checks should be made payable to the Minnesota Canoe Association, Inc. and mailed to:

Membership
Minnesota Canoe Association, Inc.
P.O. Box 14207
University Station
Minneapolis, Minnesota 55414

Changes of address (now very important because mail sent under our bulk rate permit will not be forwarded or returned to the MCA with an address correction) should also be sent to the Membership Director.

Are you MOVING?

MOVING? Let us know when you move to make sure that you continue receiving HUT!. Bulk rate mail is not automatically forwarded like most of your mail.

Hut! Staff

Editor	Mike Gilman
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Map Maker	Lonnie Helgeson
Calligraphy	Mary Sodergren
Cliff's Corner	Cliff Jacobson
Builders' Corner	Bob Brown
Advertising	Helen Olson

Send articles to:

Mike or Sharon Gilman
810 South Sixth Street, Apt. 1
Hopkins, Minnesota 55343

DEADLINE FOR EACH ISSUE

Articles should be submitted to the Editor no later than the 12th day of the month preceding publication.

MEMBERSHIP DRIVE

by Venice Barsness

Canoe registration in Minnesota indicates that there are over 100,000 canoe owners that do not belong to the Minnesota Canoe Associaton, Inc. The Directors feel that they have an obligation to bring to these canoe owners information on the benefits of membership.

The Directors believe the best way to do this is through our present membership. Therefore, we are requesting ALL current members to help with this membership drive, and in return, the MCA is going to reward you for your successful efforts.

1. The drive opened on April 1, 1982 and will close with mail postmarked on or before October 2, 1982.

2. Points for membership sales will be rewarded on the following basis:

	Cost	Points
1-year membership	$ 10.00	1
2-year membership	19.00	2
3-year membership	27.00	3
1-year supportive membership	25.00	2
Life membership	100.00	5

3. **NEW** memberships only. No point credits for renewals of "old" members unless their membership has expired for eight months or more. All life memberships will be treated as new memberships.

4. Only paid-up members may receive points for selling memberships.

5. Official forms will be supplied on request. Send a post card requesting forms. Place your name and zip code at the top in the space provided. Official forms need not be used as long as all required information is supplied. All forms must have the name of the member selling the new membership on it at the time it is received by MCA. The seller's name cannot be added after it is received by MCA.

6. A list of awards available and the number of points required for each item will be available at the end of the drive. As little as three points will get you a Sierra Cup or an MCA felt tip pen, while 1,000 points will win your choice of a 17' or 18' Jensen or We-no-nah fiberglass canoe. The June issue of HUT! will carry a partial list.

7. Rules and awards are subject to change and conditions beyond our control.

SURVEY MAPS AVAILABLE

Among the better maps available for campers, hikers, fishermen and other outdoors-lovers are the topographical maps produced by the U.S. Geological Survey. They cover nearly every part of the United States.

People who live in Minnesota and states east of the Mississippi River can get indexes to what's available by writing to Branch of Distribution, U.S. Geological Survey, 1200 S. Eads St., Arlington, Virginia 22202.

People living in other states west of the Mississippi can write Branch of Distribution, U.S. Geological Survey, Box 25286 Federal Center, Denver, Colorado 80225.

BOARD NOTES

MARCH BOARD MEETING NOTES

by Verna Robinson, Secretary

The meeting was held at the Minneapolis Red Cross chapter. Verna Robinson was elected to serve as our secretary. Penny Mielke discussed plans for the April program on "Preparing for the BWCAW." Mike Gilman reported that the T-shirt design is almost ready and that the MCA will be helping with a race at Aquatennial time. John Kopp said over 50 people attended the February building program and discussed plans for the display at the Science Museum. A motion was passed to work with Hoigaards on a building show and display on "Outdoor Appreciation Day" on May 22.

It was also decided to participate in an outdoor festival at Fort Snelling on May 8th and 9th. Mike Vande Vyver, in charge of our Sport Show display, reported on its progress. Craig Ellestad from Mississippi River Revival, Inc. asked for our participation in their festival on August 1. Jim Robinson will coordinate a cruise. A representative of the Minnesota Chapter of the American Lung Association asked for our support in promoting their outdoor fund raising trips, principally through listings in HUT!.

MCA BOARD MEETING — April 7, 1982

by Verna Robinson, Secretary

President Venice Barsness called the meeting to order at 7:40 p.m. and asked for a 6-month review from Directors.

Education and Safety, Karl Ketter - Karl reported that MCA's influence is nationwide because we have one of the most successful regional canoe clubs. Karl wants to compile a complete set of HUT!s from the beginning of MCA in order to do a history of MCA. Contact Karl if you have any old issues you don't need anymore.

Cruising, Jim Robinson - Leaders are set up for cruises for April and May. June has one weekend trip scheduled and nothing else. July has one weekend trip scheduled and nothing else. August has nothing scheduled so far.

Building, John Kopp - A Canoe Day is planned for May 22 and 23 with Hoigaards. We will be giving a canoe building demonstration and possibly showing some slides.

Conservation, Dave Logeais - Board members were asked to give some thought to what areas we want to or should get involved in with conservation.

Vice President, Mike Vande Vyver - Mike is in charge of a weekend at Fort Snelling called "Wildlife Heritage" weekend on May 8-9. A committee will be meeting at his house on April 12 to plan for this event.

Membership, Roy Johnston - We have 50 new members for April. We need to put together a better "new membership" package.

Treasure, Jim Seward - $1,200 balance; did not include checks received in April or checks issued to Board members for expenditures.

Publications, Chris Berne - Membership contest forms are complete. It was mentioned that we should bring the decals back to give to new members.

Watch HUT! for details on Basic Canoe Skills and White-water Skills courses.

Meeting adjourned at 10:40 p.m.

EVENTS This Month

MINNESOTA'S OUTDOOR HERITAGE FESTIVAL

by Mike Vande Vyver

An outdoor festival on May 8 and 9 on Picnic Island at Fort Snelling State Park promises a great weekend of outdoor skills, demonstrations, and events presented by some of the most experienced outdoorsmen in Minnesota.

This outdoor fair will feature outdoor activities throughout both days from 10 a.m. to 4 p.m. The cost of this program is only $1, which will be used to buy wetlands, etc., for the future of preserving wildlife.

Scheduled thus far, the programs range from fishing, hunting, and canoeing to backpacking and camping. Also there will be movies shown on various subjects.

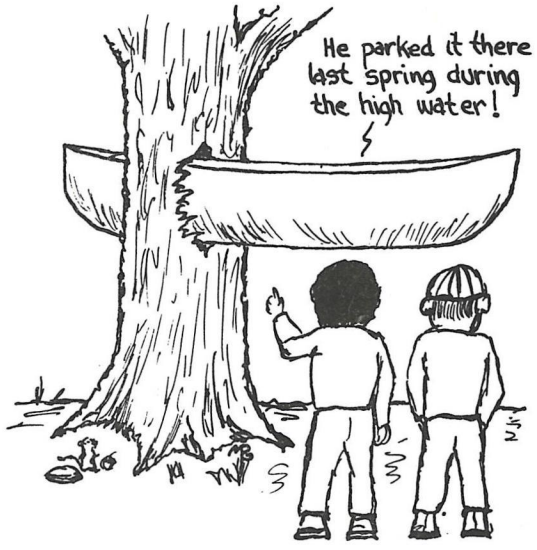
If any members of the MCA would like to help out, they can call Mike Vande Vyver at (612) 922-7633.

CANOE DAZE

The Minnesota Canoe Association and Hoigaards will be co-sponsoring two informative, action-filled days covering many aspects of our favorite activity. Canoe Daze will be Saturday, May 22, 9:00 - 5:30 and Sunday, May 23, 12:00 - 5:00 at Hoigaards, 3550 S. Highway 100 in St. Louis Park. Come meet and talk with the experts from the MCA and Hoigaards. The Department of Natural Resources will also be participating.

As this issue goes to press, the tentative program line-up will include a woodstrip canoe building demonstration. Also featured will be a fiberglass demonstration, which will be the first time we have been able to actually show this technique in a public forum. There will be numerous displays and mini-clinics covering many canoeing activities such as flatwater racing, whitewater, BWCA tripping, equipment, canoe selecting Minnesota's favorite canoe streams , and expedition planning.

Plan on attending as this should be one of the biggest events of the year for the MCA. We also could use a few volunteers to help us set up and man our displays for a couple of hours. Here is your chance to help out **your** canoe club without a big commitment, have some fun and maybe even learn a few new tricks. Chris Berne is waiting for your call at 544-2422 (W) or 929-5714 (H).



UPCOMING CRUISES

Crow Wing River Cruise, June 12-13

This is a family adventure on a quiet, peaceful river that flows through a mostly forested area of west central Minnesota. There are a few mild, strictly novice rapids where the only problem is to get through without grounding. Due to the general shallowness, it is a good river to try out poling skills.

Starting at 10:00 a.m., Saturday, we will paddle from Shell City Landing to Huntersville forest campsite; Sunday from there to Nimrod.

For more information call Bill Marcouiller, 789-0074, or Walt Jones at 488-4570.

SAVANNA PORTAGE WITH THE ST. CLOUD CHAPTER

by Walt Jones, MCA Liaison Director

It's about that time of year when we start getting our gear ready to go—varnishing paddles, repairing canoes and kayaks. Where do we go first? This year try a change of pace and go to Savanna Portage State Park near McGregor, Minnesota. The date: opening fishing weekend, May 14-16. Drive up on Friday and meet the St. Cloud Chapter. Fish all day Saturday for trout in a lake about the size of Lake Como. All you need is your fishing pole and a can of worms. Fish right off the shore or from your canoe. Also bring a warm sleeping bag and a tent or camper. For more details, call Mike Zapf (St. Cloud) 612-251-5807 or Walt Jones (St. Paul) 612-488-4570.

KETTER CANOEING
101 - 79th Avenue North / Minneapolis, Minnesota 55444

Attention OLD MCAers

We peeked into our collection of past HUT!s and found a few missing. We want to put together a complete set from the MCA's birth in 1965. This set will be bound in hard covers in order to preserve our memories. Also, important and informative materials can be used again; for example, articles on canoe building could be included in the new canoe building manual.

For the issues listed below, we need at least two copies of each. Please look through your old files and call any old MCAers you knew were members back then. If you want to dispose of a few old issues, we are interested. Contact Karl Ketter, 612-636-8116, or give the HUT!s to any current MCA Director. Thank you.

Missing HUT!s

Year	**Months** (H is HUT; N is newsletter)
1966	July, September
1967	June, July, November
1968	April, June, August, December
1969	April
1973	All Issues
1974	All Issues
1976	All Issues
1978	September
1979	October, December
1980	All Issues
1981	All Issues
1982	All Issues

WHITEWATER RAPID CANOEING RIDERS

I WAS ROLLED!

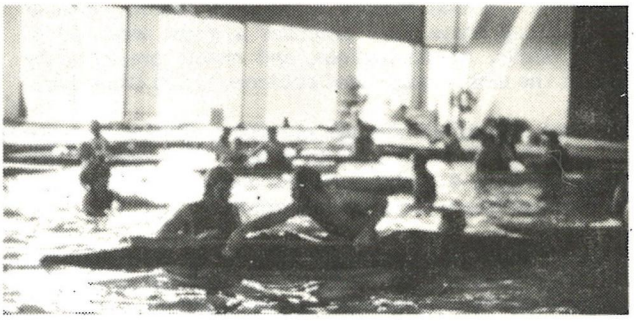
by Mike Gilman, Director & Editor

For six MCA members, Sunday mornings for a month were spent boating, regardless of the weather. Sound like a group of die hards? Not really!

A total of 41 students went through the Cascaders' Rolling Sessions at the Brooklyn Center Civic Center pool. Indoors! From 9:30 to 10:30 AM the pool was alive with kayaks, C1's and C2's running gates and practicing Eskimo rolls. And this was just the instructors warming up. At 10:30 the students left the classroom and entered the pool for two hours of attempted drownings (and an occasional roll). Comments after the first two sessions were divided; some felt they had it figured out and others were mystified by the mechanics of the roll (in other words they hadn't been able to roll up on their own yet). By the last class, everyone was dead serious about making their roll work, or so it seemed.

Actually, the entire assemblage was fired up and ready to head over to the Chili-down which took place shortly after the pool was cleared. Along with a wide variety of salads and desserts, mass quantities of hot (and hotter) chili and cornbread were consumed. The turnout was great and the get-together provided time for everyone to get to know each other.

The MCA'ers who attended the classes include: Marty Wurthman, Dudley Flamm and son Eric, Kristina Felbeck, Chuck and Deb DeVore, 3M Chapter's past president Paul Davies and yours truly. By the way, I can roll on my left side. A final note: Instructors were seemingly always in short supply. My thanks to young Eric.



Sale!

May 3-8

Tents, Packs, bags, etc.

Huge Reductions

Sawyer SP-7 paddles $15%

We now have BIC Sailboards!

New: Sawyer Canoes & Perception Kayaks

PLUS

Kayaks by Phoenix and OLD TOWN with a complete stock of accessories available.

309 Cedar Av. S. • 339-3433 • M-F 10-9, Sat. 10-6

Quality and Expertise

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ASK US WE'VE BEEN THERE

midwest mountaineering

St. Cloud News

by Don Stephany

Mike Zapf convened the second meeting of the year at the Great River Regional Library in St. Cloud on March 23.

Very little business was conducted to allow as much time as possible for our visiting speaker.

Mike Vande Vyver and his merry bunch of happy paddlers gave a very interesting presentation on their Amazon trip in South America last summer. Forty-five people were present, and everyone agreed the trip was interesting, but were glad they had not gone along. Don Henkemeyer's son, George, gave a report the next day in school for his speech class, and I hear he got a big A for his efforts. Thanks again, Mike.

A pleasant surprise was the presence of MCA President Venice Barsness who came along to ride herd on the boys.

Two upcoming events are the Blue Heron cruise on the Sauk River on May 2 and the trout fishing expedition the opening of fishing season.

CONSERVATION

STATE LOSES SUPREME COURT BATTLE OVER BWCAW

by Dave Logeais, Conservation Director

On March 8, the U.S. Supreme Court rejected the lawsuit by the State of Minnesota challenging the federal government's authority to regulate the BWCAW. On a vote of 8 to 1 the court denied the state's challenge of the constitutionality of the BWCA Act of 1978.

The immediate effect of the decision is to ensure continued control over the area by the U.S. Forest Service. The forest service will continue to restrict the use of snowmobiles and motorboats. Had the State of Minnesota won the appeal, the DNR would have eased or lifted motorboat restrictions on 13 lakes.

The state had first appealed the decision in federal court. In that case, U.S. District Judge Miles Lord dismissed the Minnesota lawsuit. The DNR then unsuccessfully appeared in federal appeals court. The state then appealed to the Supreme Court, which also upheld Lord's original ruling.

Builder's Corner

by Bob Brown

You have something that looks like a boat, but what a mess. Somewhere in the building process you went through three boxes of staples and a half a quart of glue. Don't feel bad, we all do the same.

The best way to pull staples is to use less in the first place. That's OK for the next boat, but right now we are still on number one.

I use several tools when pulling staples, but the one used most is a church key. I flatten the point and file it thin and smooth. This works quite well; add a handle and you've a great tool.

Sometimes a staple will break off leaving one leg still in the wood. I find that long nose pliers or side cutters pull these out well.

Take your time pulling staples; do a small area at a time and make sure it is clean before going on. Any missed staples or parts are hard on the tools that you use for cleaning the hull.

Smoothing up the hull isn't a bad job. The first thing that must be done is to get rid of the glue.

If you didn't wipe up your glue real good you may have beads of glue sticking out all over. The best tool I've found to clean this mess is a surform file. I prefer the 8" straight one. The glue will dull this tool fast. I always use an old blade until all the glue has been removed. Then I install a new blade to finish the smoothing operation.

The surform works best at about a 45° angle to the grain of the wood. This tool knocks down any hills quite fast, but you need have little fear of cutting through the hull.

Belt and disk sanders scare me. Many builders start sanding with a belt sander only to find that they went completely through the hull. Disks are really no better. You will not get a smooth job with these sanders as they will often cause waviness that was not there originally.

High speed sanders have another problem—they melt the glue rather than cut it off. These sanders smear the glue around and clog up the paper.

My normal procedure is to combine the staple pulling and the surforming. I will spend a half hour pulling staples out of an area. By this time my fingers are getting ready for a break so I stop and grab the surform to clean up the staple-free area. I alternate between these two jobs until the hull is clean.

The ends are also treated with the surform. I first trim the ends roughly to shape by trimming off any extra length on any strips till I get close to my desired end shape. Next I use the surform to finish the shaping and smoothing. Do all the cutting toward the ends and you should get no splintering.

I like to shape my ends up fairly sharp but the glass won't fit around a knife edge. Shape your ends to a 1/8 or 1/4 radius and the bias strips will contour over this nicely.

After I've gone over the whole exterior of the hull and gotten it as smooth as the surform will do, I start sanding. Sanding any sooner is a waste of your time.

I start sanding with a 40 grit paper in an orbital sander. I go over the entire hull with this to remove scratches left by the surform.

When all of the heavy scratches are sanded out, I change to 60 grit paper and remove scratches left by the 40 grit.

Some builders try to get a silky finish prior to glassing. Look at the texture of 7.5 oz. fiberglass and you should see how silly a super smooth finish is.

You can, if you wish, go over the hull with wood fibers and try to fill all the holes left by the staples and nails. I don't.

If you do want to fill the holes with a filler, don't try to match the dry wood. Wet a scrap of your wood with resin and try to match this darkened sample.

Many small holes can be filled by dampening the wood near the hole. It will swell the wood; this often will close the hole.

The same treatment with water will often push out dents. Often the staples have dented the wood and you still have a mark after much sanding.

If you have time to dry the hull again before glassing, I like to sponge off the hull. Remember now that Elmers glue isn't waterproof. Go easy.

Holes will close and dents will pop out. Any glue still on the wood will show as a light spot on the wet wood. Better to find these spots now than find them under your glass.

Remember any spots that showed smeared glue or the lacquers from your filler and re-sand in these areas. After you're satisfied that you have no smears left, go over the entire hull again with 60 grit.

Next clean up your shop, dust off the hull and get ready to do some glassing.

Some folks prime the hull with lacquer or shellac. I have mixed feelings about this prime coat.

If your wood is fairly resinous, the primer may make the difference between a good glassing job and a failure. If your wood is dry and resin free, then I feel that the best bond can be made by letting your resin soak into the surface of the wood - the primer prohibits this.

Next issue, we glass. Right now spring is really here, my C.J. is loaded, and the Mississippi is calling.

The exact reason for the state's appeal of this law has never been clear. Governor Al Quie has said he believed the law was a federal intrusion on the state's rights. DNR Commissioner Joe Alexander argued that he wanted to maintain state jurisdiction in the BWCA to prevent any mining in the area. Even though the BWCA Act specifically prohibits mining, Alexander feared this ban might be lifted by the Reagan administration.

Environmentalists assert that the state challenged the law as a way of appeasing residents of northeastern Minnesota who were angry over the restrictions on motorized travel. They charge that the state changed its basic position on the BWCAW after Quie and Alexander met in 1979 with those area residents.

The decision by the high court was a clear victory for the forest service and environmentalists. The forest service was supported by 11 environmental groups. Included among these groups were the Sierra Club, Friends of the Boundary Waters Wilderness, the Isaac Walton League and the Wilderness Society.

Mississippi Mud

NEWSLETTER OF THE LONG DISTANCE CANOE RACERS

President - Steve Peterson, 753-2921
Race Calendar - Warren Thunstrom, 780-3284
Mississippi Mud - Karl Ketter, 636-8116
Membership - Ken Boettcher, 426-0059

* * *

RUMORS

We understand that during the off season Duayne Wincell from southern Minnesota had some hernia surgery, took some swimming lessons, and ordered a longer paddle. He may be a new man for this season!

MARATHON RACERS ANNOUNCE POINT SYSTEM RACES FOR 1982

The coveted silver bowls awarded by the Long Distance Canoe Racers are again up for grabs. In 1982, the lucky recipients will be decided by the following races. Point rating is determined by length and challenge of the various races.

Princeton	50 points
Duluth	30 points
Cook	30 points
Mississippi Classic	60 points
Grand Rapids	30 points

Dates to be announced next month.

Points are awarded as follows (example—Mississippi Classic). First place team receives 60 points; second place receives 59, third 58, etc. Everyone finishing receives at least one point. Points are awarded to individuals, regardless of partner's status.

Each division high point total will be awarded a traveling 12" silver bowl. Divisions are:

Grand Master
Top 20 teams at Shawinigan
Top 10 teams at USCA Nationals
Won $500 or more in one event
Served on a National Olympic flatwater team, or
Won Expert division

Expert
Placed 21 to 40 at Shawinigan
Placed 11 to 30 at USCA Nationals
Won Intermediate divison

Intermediate
Less than 41 at Shawinigan
Less than 31 at USCA Nationals
Won Rookie division

Rookie (Novice)
Less than two seasons of Minnesota racing canoe events

Junior
Under the age of 18

In addition to the point races, state championship trophies are also awarded to mixed doubles, women, and C-1 classes. Winners of these classes are determined by sigle races, usually held in August.

JENSEN HANDICAP 1982

The 22nd annual running of the MCA's oldest event, the Jensen Handicap, will take place Sunday, May 16. The rules will be the same as before. Teams are determined by lot, pairing an experienced "pro" with an up-and-coming "rookie". Here's your chance to paddle with Minnesota's best. The course starts and finishes at River Park in Brooklyn Park and circles Durham's Island at mid point. The race is a brisk 45-50 minutes. Arrive at noon so teams can be selected and enough rocks can be collected to trim the canoes. The gun goes off at 1:00. Call Chris at 929-5714, Karl at 636-8116, or Betty at 561-2208 for details. See you there!

RACE CALENDAR

This is the 1982 edition of the Long Distance Race Calendar. It includes races from throughout the Midwest and Canada. Thank you for the contributions and cooperation I've been given. If any races are not listed here, it is because I was unable to confirm them. If anyone can confirm these races, they will be added to updated versions of the calendar.

Our calendar has never been as long as this year's. For that reason, the race description I solicited from race sponsors will have to be deleted from this issue of HUT!. Hopefully, these descriptions can be put into HUT! in the month in which the event is held. We also hope to firm up a few races with indeterminate dates or details in the near future.

MINNESOTA AND CANADA

May 2
Watertown Lion's Club Crow River Championship (Cash & trophies) - Citizens Race and Pro Class
Contact: Watertown Lion's Club
P.O. Box 791
Watertown, MN 55388
John Vanderlinde, 612-955-1601

May 9
Blue Earth Canoe Citizens Race
Contact: Scott Ankeny, 507-526-5740
811 South Galbraith
Blue Earth, MN 56013

May 16
Jensen Handicap - Pro Practice Race
Contact: Chris Berne, 612-929-5714
5057 Ewing Avenue South
Minneapolis, MN

May 22
Hyack Canoe Festival - Pro $3,000
Contact: New Westminster Hyack Festival Association
204 Sixth Street
New Westminster, B.C. V3L 3A1
604-522-6894

May 23
Faribault Canoe Race - Citizens Race
Contact: Larry Kriesel, 507-451-0591
P.O. Box 118
Owatonna, MN 55060

June 5
Rum River Classic - Pro Race $8,000 (50 pts.)
Contact: Dave Anderson, 612-389-3516
Princeton, MN

June 6
Medford Straight River Days Citizens Race
Contact: Larry Kriesel, 507-451-0591
P.O. Box 118
Owatonna, MN 55060

June 11, 12, 13
Zumbro River Rats Canoe Race
Citizen Race - 50 mile/2 days
Contact: Mr. & Mrs. Laqua
406 West Lyon
Lake City, MN 55041

June 27
Main Street Marathon Citizen Race
Contact: Ralph Cornelius, 612-926-8377
4733 Vincent Avenue South
Minneapolis, MN

June 26, 27
Snow Lake Canoe Race
Pro Race, $3,500, 10 places
Contact: Milt Bedwell, 204-358-2487
Box 45
Snow Lake, Manitoba R0V 1M0

July 2, 3, 4
Flin Flon Gold Rush Canoe Derby
Pro Race, $5,000
Contact: Bob Jarvis, 204-687-7854
343 Queen Street
Flin Flon, Manitoba R8A 0M8

July 11
Bend of the River Canoe Race
Citizen Race with Pro Class
Contact: Dale Hennek, 507-625-2770
Route 7, Box 307
Mankato, MN 56001

July 17
Aquatennial Canoe Challenge Citizen Race
Contact: James Loux, 612-546-5163
2607 Sylvan Road
Minnetonka, MN 55343

July 17
Duluth Canoe Race - Pro Race $1,000 (30 pts.)
Contact: Jim Wheeler
711 First National Bank
Duluth, MN 55802

July 18
Cook Timber Days Canoe Race
Citizen Race with Pro Class $1,000 (30 pts.)
Contact: David Culbert, 218-666-2016
Box 158
Cook, MN 55723

July 18
Oakwood Lakes Canoe Race - Citizen Race
Contact: Gail Robertson, 605-692-1687
820 Sixth Avenue
Brookings, SD 57006

July 17, 18
USCA Canoe and Kayak Invitational Citizens Race (held in Tennessee)
Contact: ORRA
P.O. Box 75
Oak Ridge, TN 37830

July 24, 25
Ely Canoe Race - Citizen Race (?)
Contact: Paul Kess
Ely Area Development Council
30 South First Avenue E.
Ely, MN 55731

July 31 - August 1
Atikoken Canoe Race - Pro (?)
Contact: Dave Maynard, 204-597-2801
At this point, the race is not settled.

August 21-22
USCA Nationals, Fulton, New York

August 28-29
Mt. Laurier, Quebec - Pro Race
Contact: Karl Ketter, 612-636-8116
1957 Lake
Roseville, MN 55113

September 4, 5, 6
Shawinigan, Quebec - Pro Race $25,000
Contact: Karl Ketter, 612-636-8116
1957 Lake
Roseville, MN 55113

Races with Undetermined Dates

Mississippi Classic
Pro $10,000 (60 pts.)
Contact: Betty Ketter, 612-561-2208
101 - 79th Avenue North
Minneapolis, MN 55444

WISCONSIN

May 1 & 2
Coon Creek, LaCrosse
Contact: Michael Kinzlger
UW-L Recreation Dept.
Michell Hall, UWL
LaCrosse, WI 54601
Office: 608-785-8211
Home: 608-785-3626

May 15 & 16
WCA Novice Race
Contact: Greg David, 414-261-4292
Route 4
Watertown, WI 53094

June 12
Peshtigo River, Peshtigo
Contact: Paul Borkovec, 715-582-3295
Route 2, Box 351
Peshtigo, WI 54157

***June 12 & 13**
Wisconsin River, Wausau
Contact: Wausau Papers Canoe Race
1007 Greenhill Drive
Wausau, WI 54401
John Peterman, 715-675-3361

June 13
Pecatonica River, Darlington
Contact: Francis Hastert, 608-776-2123
1140 Ohio Street
Darlington, WI 53530

***June 26 & 27**
West Twin River, Shoto
Contact: Francis Duffy, 414-682-2203
5318 Cedar Lane
Manitowoc, WI 54220

July 4
Rock River, Janesville
Contact: Rock River Canoe Assoc.
Bill Lammers, 608-752-9432
1929 West Memorial
Janesville, WI 53545

Minnesota C-1 Championship
Contact: Walt Hirschey, 612-437-7424
Hastings, MN

Minnesota Mixed Doubles Championship

Minnesota Women's C-2 Championship
Contact: Sheila Johnson, 612-633-6734

MONTANA

May 8
Liver Eating Johnson
Contact: Terry Johnson, 586-3212
Bozeman, MT

May 30
Montana Whitewater Canoe Championships
Contact: Mike Johnson, 549-1249
Missoula, MT

June 19
Big Hole River Race
Contact: Wise River Club
839-2115

July 10
The Great Lake to Lake Race
Contact: Whitefish Chamber of Commerce 862-3501

July 4
Red Cedar River
Contact: Menomonie Area Chamber of Commerce, 715-235-9087
335 Main Street
Menomonie, WI 54751

July 17
Madison - Paddle, Portage, Paddle
Contact: Rutabaga
820 South Park Street
Madison, WI 53715
608-256-4303

July 18
Menomonee River, Marinette
Contact: Gary Sadowski, 906-863-9489
RR 263 Fairland Park
Menomonee, MI 49858

***July 24 & 25**
Wisconsin River, Muscoda
Contact: Howard Jones
102 South Fourth St.
Muscoda, WI 53573

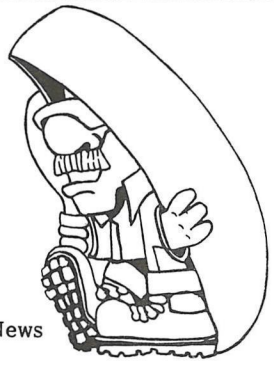
***July 31 & August 1**
Chippewa River, Eau Claire
Contact: Steve Porn, 715-839-8922
429 North Barstow St.
Eau Claire, WI 54701

***August 7 & 8**
Rock River, Watertown
Contact: Dick David, 414-261-4292
Route 4
Watertown, WI 53094

August 14 or 15
Rock River, Fort Atkinson
Contact: Norm Godfrey
P.O. Box 54
Fort Atkinson, Wi 53538

*Denotes WCA Point Races

The Duluth Traveler



Twin Ports Chapter News

President: Rick Luck, 18 W. Owatonna Street, Duluth, Minnesota 55803, 724-7992
Cruise Coordinator: Susan Marsh, 409 Park Avenue, Cloquet, Minnesota 55720, 879-3460

by Rick Luck, President

APRIL NEWS

The March 6th Ski & Pot Luck was a great success. Thirteen skiers challenged the icy trails of Jay Cook State Park. Bill Jeronimus gave us an impressive demonstration of how metal edges and cable bindings can be the real answer for difficult conditions. We all enjoyed watching Bill in action (he skis pretty well too). A few more people joined us for the feast at Sue Marsh's. It's not every pot luck that comes complete with a stuffed turkey. Good job, Sue. All the exercise and food made for an early evening for some of us though. Since we car-pooled from Duluth, I found myself taking an early group back at about 9:30. Consistent with the challenges of the day, we ended up with five people going back to Duluth in the cab of my truck. Thank you Jim Wheller for sharing the driving responsibilities with me (he worked the gas and shift while I worked the brake and clutch).

Our volunteer directors met last night and developed the following schedule for some of our trips this spring. We were originally going to publish a more complete list but backed off on the good advice of Gary DeMars. Since the river conditions vary so much from week to week, he convinced us it was just too impractical to say we'd be going down a certain river on a specific date. Instead, we can only let people know that, starting with the break-up, we'll be going down rivers such as the Kettle, Brule, Snake, Montreal and North Shore streams, essentially every weekend. Call Rick Luck at 724-7992, Sue Marsh at 879-3460 or Jerry Challman at 724-6126 for weekly trip information.

A reminder of upcoming Duluth Chapter trips:

May 8-9, Flambeau River overnight: Primitive camping on the river Saturday night. Waterproof packing highly recommended as we will be going through some Class II and III (maybe) rapids. Contact Jerry Challman, 724-6126, for details.

May 19, General Membership Meeting: 7:00 p.m. at the Duluth YMCA Social Hall.

Memorial Day Weekend, May 29-31 - Wolf/Peshtigo Rivers, 3-day trip: Campground camping. Whitewater experience necessary for canoes and kayaks, but raft rentals available for the inexperienced. Contact Jerry Challman, 724-6126, for reservations.

July 17-18, Third Annual KZIO-Ski Hut Canoe Race: The race will be coordinated in conjunction with the Cook Minnesota Race the same weekend so paddlers can come north and do both races. More details to follow, but mark your calendar.

MAY NEWS

Our canoes have finally reappeared from melting snowbanks and our minds have once again turned to the water sports. A few of us got a jump on the season and got some pool time through the kayak class offered by the community schools. The course is excellent, and Larry Forbes does quite a job teaching both paddling techniques and the Eskimo roll. Tom Anderson and I signed up for the class to get a little pool time, but the turnout was so good Larry drafted us to help teach. Tom's doing pretty good, but so far I feel like I'm only qualified to teach the first half of the roll. Along the lines of teaching whitewater technique, our chapter is working on getting one of the area's premier whitewater boaters, Gary DeMars, to give a day or two of instruction for beginning boaters. We don't want to do it until the river levels get down to a comfortable level and the water warms up, so keep an eye on this column for further details.

We've made arrangements for this year's first general membership meeting. Circle your calendars and plan on being at the Social Room of the Duluth YMCA the evening of May 19, starting at 7:00 p.m. We'll have an election of officers and discuss some of our upcoming events. We're looking for more involvement and input from our members. We already have some great-looking trips scheduled, but we're always looking for more ideas. Typical of some of these ideas are:

- Sue Marsh is wondering if there is any interest for an all-women's BWCA trip in August. Contact Sue at 879-3460 or Chris Wegerson at 724-5209.
- It looks like there is a good chance for an MCA booth in next year's Sports, Boat, and Travel Show at the Duluth Arena. Would this be a good idea or not?
- We've got an extra racing boat now. Chris Clay left his racing boat in my care for the club to use. Any neophyte racers out there? If so, we've got a boat for you.
- Because of the long lead time required to get articles in HUT!, we're also using the Saturday edition of the Duluth Herald for trip notices. Look in the Bulletin Board section for Minnesota Canoe Association, under Clubs and Organizations.

That's all the Duluth news for now. As you can see, we're off and running. Don't forget, for weekly trip information on day trips down the local rivers such as the Brule, Kettle, Snake, and the North Shore streams, call Sue Marsh, 879-3460, Jerry Challman, 724-6126, or Rick Luck, 724-7992.

We did plan some trips (see Cruise Calendar) which aren't dependent on river conditions.

See you on the river!

REWARMING A HYPOTHERMIA VICTIM

(From the newsletter of the Washington Kayak Club via the Paddlers' News Bulletin)

The improper rewarming of a hypothermia victim can be fatal. Avoid returning cold blood to the body's central core. The victim should not be allowed to walk, but should be gently moved to warmth and shelter. Gently remove wet clothing.

In mild cases, dry clothes may be all that's necessary. In more severe cases, warm the neck, sides, and groin with warm towels (105 degrees F), or in field conditions, with the rescuer's body.

Lessons & Clinics

UPCOMING MCA POLING CLASS

by George Skinner

In February's HUT! you read about the Education Committee's plans for 1982. I hope you also read my article asking "Why we Ignore Poling."

Although poling is a competitive sport in some areas of the country, this class will seek to add another option to a canoe traveler's bag of tricks. Kruger and Landick used poling for portions of their Ultimate Canoe Challenge. So did the voyageurs; you can read about a little of that in Fur Trade Canoe Routes of Canada/Then and Now, by Eric Morse. William Riviere's Pole, Paddle and Portage is another interesting source of information. The Wooden Canoe Heritage Assoc., Ltd. published in the summer and autumn of 81 two very nice articles on "The Traveling Canoe" and poling. Also, the Red Cross canoeing book has a chapter on poling.

After talking with Tom McDowell at Hennepin County's Coon Rapids Dam, I learned that the Park Reserve District would be willing to co-sponser the class. Jim Skinners, who handles canoe safety at the St. Paul Red Cross Chapter, informed me that they have no experienced instructors in the topic and so are also interested in the MCA class.

If you know of any groups or individuals who would benefit from this class, please pass the word. Also, next month I will need to meet with some people who would like to assist me in getting class plans finalized. So take a hint from Venice and "feel wanted".

Contact: George Skinner
485 Vixen Road
Wayzata, Minnesota 55391
(612) 473-4565

CANOE DESIGN AND DRAWING CLASS

If you have always wanted to be bluer than Blue Hole or thought you could design a canoe that could give Gene Jensen's designs a paddle for their money but didn't know how to get started, here is your chance to learn how. Some of the best canoes available are designed by MCA members. Come and learn some of their secrets. The course will show how to loft up canoe plans and discuss basic hull hydrodynamics. The course will be held on Tuesday and Wednesday, May 25 and 26, at 6:30 p.m. at Walt Hirschey's warehouse in Hastings. MCA membership and $5 fee required. For more information, contact Mike Ludvigsen 612-884-0033. If you are interested but cannot attend on these days, please call so we can determine if there is sufficient interest to schedule another class.

ACID RAIN DAMAGE CITED

(Taken from Mpls. Star, Friday, March 26, 1982)

WASHINGTON — A new study documenting what environmentalists say is "severe and widespread damage to water and soil resources" from acid rain was release Thursday by Rep. Toby Moffett, D-Conn., a supporter of stricter air pollution control laws. The study, prepared by the Institute of Ecology in Indianapolis, Ind., says that between 2,400 and 3,600 lakes in the eastern United States and 20,000 to 30,000 miles of streams already have been damaged by acid rain.

Ian Richards Rides Again

WHITEWATER COURSE

by John Wexler, Foamy Reporter

Hurry! Hurry! Hurry!

Almost 80 people have signed up to take the whitewater course, but only 24 percent of the maximum class size of 50 have sent their $ in. Course fee is MCA membership plus $5. Send your money to the attention of the Rapid Riders Whitewater Course, P.O. Box 14207, University Station, Minneapolis, Minnesota 55414.

Ian Richards, the most gifted whitewater instructor on earth (by his own admission) will be chief instructor. In addition to the Rapid Rider Canoe Chapter instructors listed in the April HUT!, Jim and Debbie Maves will be joining the instructor staff. Earl Liberto, Caryl Duke, Rick Decker, Marr Florek, Robert Bowman and Lou Lentsch will be the new instructors in training/assistant organizers. Also collaborating with this group will be former HUT editor Barb Ford who will be writing our course outline.

The sessions will be held as follows:

May 15 and/or 16, Saturday and/or Sunday on the Mississippi at U of M Showboat landing. Bring a couple quarters to feed the parking meters.

May 23, Sunday, Taylors Falls at the overlook on the Minnesota side of the St. Croix River.

June 6, Sunday, at the boat landing located at the top of Hells Gate in Banning State Park on the Kettle River near Sandstone, Minnesota.

May 15 or 16, you may attend either one or both of the first two sessions held. Bring a personal flotation device (life jacket), your own paddle, one extra paddle, and your canoe. If you do not have a canoe, come anyway as we may be able to match you up with another person who has a canoe but needs a partner. If you are in either of these situations, it would be helpful to call ahead.

According to Ian, serious students will move from beginner status to safely running one of the most dangerous rapids in Minnesota in only three sessions. He further states that this is the best way he knows for people to get hands-on experience in open canoe whitewater paddling. Previous whitewater experience is not necessary, just be able to paddle a straight line.

A picnic will be held 1.141 miles below the Rapids at Taylors Falls following the May 23 class. Bring your own grub. If there is enthusiasm following the Kettle River class, we will have a survivors' party!

All instructors, assistant instructors and instructors in training will be meeting on May 2 at Hells Gate and on Tuesday, May 11 at Vali West Restaurant at Cedar & Riverside. Be at the restaurant at 6:30 p.m. if you're hungry, 7:30 if you only want to talk about the whitewater course and other Rapid Rider business.

We recommend that you bring snacks in the canoe to all three classes. Allow up to four hours of instruction and an additional two to three hours of trying out what you have just learned. Wool or wetsuits are desirable clothing but not mandatory, and an extra change of warm clothing is recommended.

If you have any questions, please contact Earl Liberto at 459-1120 or Jeff Good at 780-1183.

CLIFF'S CORNER



by Cliff Jacobson

Summer's almost here. Time to put the final touches on the planning of your upcoming wilderness canoe trip—and to sharpen your navigation skills so you won't get lost on those gosh awful big lakes!

This month we'll look at the intricacies of "finding your way" with map and Orienteering compass. Note I said "Orienteering" compass—that's the type made by Silva and Suunto. Nothing else works as well. Orienteering compasses let you plot a bearing to a distant point off a map without orienting the map to north—a real plus in a bobbing canoe. That's because these instruments have a built-in protractor to eliminate the b'guess and b'gosh work.

For discussion purposes I'll assume you own a Silva or Suunto Orienteering model and know how to perform the basic functions. (If you don't, re-read the directions, the "navigation" chapter in my book "Wilderness Canoeing & Camping", or check out Bjorn Kjellstrom's informative text, "Be Expert With Map And Compass"). When you know the basics of computing a direction off a map with your compass you're ready to begin.

Look at the map of SMITH BAY. Let's assume you're located at point "X". The idea is to thread your way between the maze of island to the channel at "Y". Looks easy, doesn't it? Look again...at the map scale! It's 10 miles as the crow flies to "Y". No way you see the open channel from your position. Look across a lake that size and all you'll see is a mass of green: Islands will blend with mainland; bays and peninsulas will be indiscernible.

The answer is to use your compass and plot a course from "attack point" (point you can identify on the ground) to attack point. The important thing is to know exactly where you are at all times; that way, you can't get lost.

In all likelihood you won't be able to identify your attack point until you're within a quarter mile of it. It's very difficult to separate out islands that are farther than one-quarter to one-half mile away.

We've picked "A" as our first attack point. Begin by using the protractor feature of your compass to compute the **true** direction of travel (called an "azimuth") off your map. In this case we'll use the vertical grid lines as your north/south reference line. However, you should realize that grid lines on topographic maps **don't** point true north and south. **Grid lines and lines of longitude are not the same!** When using a topographic map, your best bet is to use the right or left map margin as the true north/south line. There'll be some convergence at the top as the meridians are not parallel. But you'll err less by using the map margin than the grid lines.

The true azimuth from X to A is given in the table below the map. Now you'll have to convert it to a **magnetic** azimuth to be set on your compass and followed on the ground. (Remember, a compass points to **magnetic** north, not true north!).

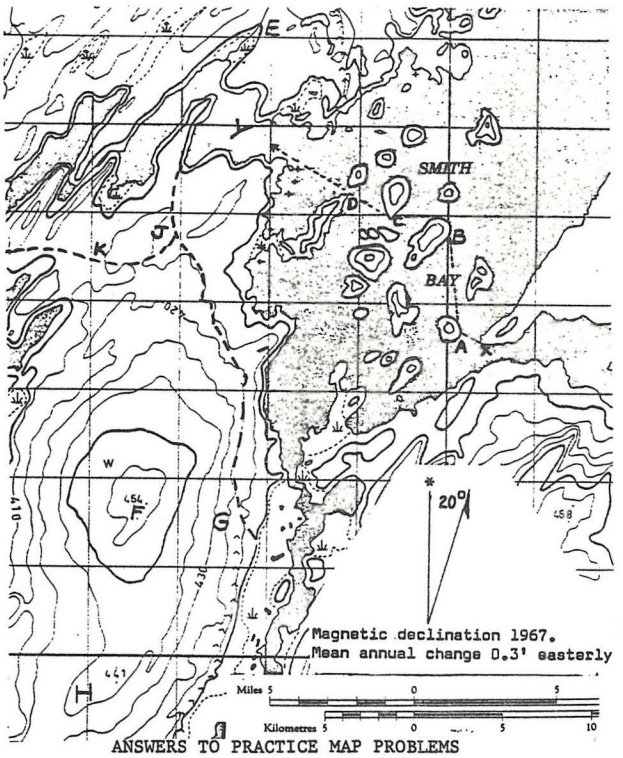
Declination is the angular difference between true north and magnetic north. In the Eastern United States declination is westerly; in the west, it's easterly. A line of zero declination—called the "agonic line" runs erratically through the mid-section of the country and nearly touches the eastern edge of Minnesota. The exact declination for a given area is indicated on a declination diagram in the margin of every topo map. The declination shown on the SMITH BAY map sheet is **20 degrees east.** (East because the flag which symbolizes magnetic north is to the **right** of true north. If the flag were to the left, declination would be west.)

For some unaccountable reason, the mechanics of dealing with declination remain a mystery to even experienced outdoorspeople. This shouldn't be the case as it's easy to deal with. Just remember this rhyme: DECLINATION EAST, COMPASS LEAST; DECLINATION WEST, COMPASS BEST.

Translation: If the declination is east, as given in the map declination on diagram, **subtract** its value from the **true** reading you computed with the protractor function of your compass. If the declination is **west, add it!**

Example: You computed a **true** azimuth of 298° from X to A on the practice map. Change this to a **magnetic azimuth** to be followed on your compass by subtracting 20 degrees. Ans: 278 degrees. Adjust the reading on your compass dial accordingly, identify the direction on the ground, and start paddling. Ultimately, island "A" will pop into view. When you've re-affirmed your location at A (your first attack point), pick another attack point ("B") and proceed. When you've arrived at B, proceed to C, etc. Use your Orienteering compass to compute the azimuths and distances (don't forget to account for declination) to each point on the map. Your values should agree with the figures in the table.*

You'll also want to develop an accurate sense of map to ground distance. It's easier to keep your sense of scale on land than water. Canoeists often have real difficulty determining whether a topographic feature, such as an



ANSWERS TO PRACTICE MAP PROBLEMS

POINT	TRUE AZIMUTH	MAGNETIC AZIMUTH	DISTANCE	TRAVEL TIME
X to A	298°	278°	1.0 miles	20 min.
A to B	353°	333°	3.0 miles	60 min.
B to C	267°	247°	1.8 miles	36 min.
C to D	300°	280°	1.8 miles	36 min.

In Memory Of
Two Great Environmentalists

WILDERNESS ADVOCATE DIES

Bill Magie, one of the founders of Friends of the Wilderness, a group organized in 1948 to protect border lakes country in northeastern Minnesota, died March 4 at his home in Solon Springs, Wisconsin.

Magie, 79, was born in Duluth and spent the bulk of his life in northern Minnesota and working to help protect the Quetico-Superior country. He held a number of jobs, from mining and piloting to canoe guiding and surveying.

Survivors include his wife, Lucille, a son, four daughters, 14 grandchildren, and one great-grandchild. Memorials can be sent to the Wilderness Inquiry Foundation, Inc., 111 Franklin Avenue East, Minneapolis, MN 55404.

AUTHOR CALVIN RUTSTRUM DIES

by Dave Logeais, Conservation Director

It is with great sadness that we report the passing of yet another great outdoor writer and environmentalist. Calvin Rutstrum died on February 5 in an Osceola, Wisconsin nursing home. Rutstrom was 86.

Rutstrom was the author of 15 books. As compared to the writings of his friend, Sigurd Olson, who died January 13, Rutstrum's books were much more practical, "how-to" type manuals.

For many years Rutstrum had lived in Marine-on-St. Croix, Minnesota. He was born in Indiana but moved to Minnesota as a boy. In between jobs as a cowboy in Montana, real estate and auto salesman, private detective and a hitch in the Marine Corps, Rutstrum traveled extensively in the wilderness regions of northern Minnesota and Canada.

With only seven years of formal education, Rutstrum turned to writing. His books have sold over 700,000 copies and remain popular. They cover subjects ranging from canoeing to log cabin building to winter camping.

island or hill is one or three miles away. And obviously errors in judgement enlarge as distances increase. It's very difficult to cross a 40-mile-long, island-studded lake (and there are lots of 'em in Canada) and keep track of your position without resorting to frequent time-distance calculations.

All of which means you must carry a watch, preferably one with a manual stop watch feature or digital read-out. And you must know the approximate speed of your canoe. We figure four miles per hour for loaded wilderness cruising on calm water; three for trucking into reasonable winds, two for bucking a big headwind. Complex waterways are navigated "point to point" as I've pointed out so you must keep accurate track of your time. If your "ETA" passes and you haven't hit your proposed attack point, then put ashore and check your error. Likely you're very close to your objective.

*The Fisher maps used in the BWCA don't have declination diagrams—probably because the company thinks the information would only confuse canoeists. But you must still apply the value if you want to be "right on". It's only about **three degrees east**, however, which isn't very significant.

AIMING OFF

Here's a simple procedure that will minimize the effects of small compass errors. Whenever possible, "aim off" slightly to make a small predictable error in a **known** direction. For example, if you want to go from F to the trail junction at J, and you compute the precise azimuth to J (10 degrees) and you err slightly while following this course, you'll miss your objective and hit the trail to either the west or south of J. In this instance, which way (east or north) would you hike to find the trail junction? Only a guess would provide the answer.

If instead, you determine the azimuth to an imaginary point (K) to the west of J, you'll have introduced a purposeful west "cone of error." You'll strike the trail somewhere to the west of J: Simply follow the trail east to the trail junction.

Similarily, it's wise to aim off slightly when threading your way among islands on a foggy lake. Thus you'd aim to the center of an island rather that its very tip. As you gain experience navigating, you'll decrease the size of your cone of error.

Obviously I can't present a detailed course in navigation in this small space. These are the basics though; they'll get you through. And as with most things, practice makes perfect. Good luck...and good tripping!

BASIC moving-water tips for BEGINNERS

AVOID THE CRUNCH



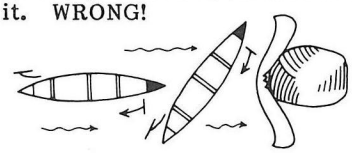
by Bill Micks

(Taken from February 1982 Coastal CaNEWS)

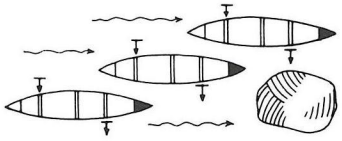
Avoid the Crunch

Parallel sideslip is one of the best alternatives for rock dodging.

Many paddlers when starting out use a stern rudder to get the canoe aimed either right or left of the rock that's just ahead, while the guy in the bow paddles like crazy—the forward stroke with a lot of sweep on it. WRONG!



The current then sweeps the stern into the rock; thus, they end broadside in a broach.



The parallel sideslip will avoid such a mishap. 1) The bowman makes the decision to go right or left of the rock. 2) He draws or pries and the stern counters with the opposite stroke (a draw for the bow's pry or a pry for his draw) to move both ends of the canoe sideways in the same direction. The canoe will stay parallel to the current and glide past the rock. The same principles apply in solo paddling.

the MINNESOTA CANOE ASSOCIATION Inc.

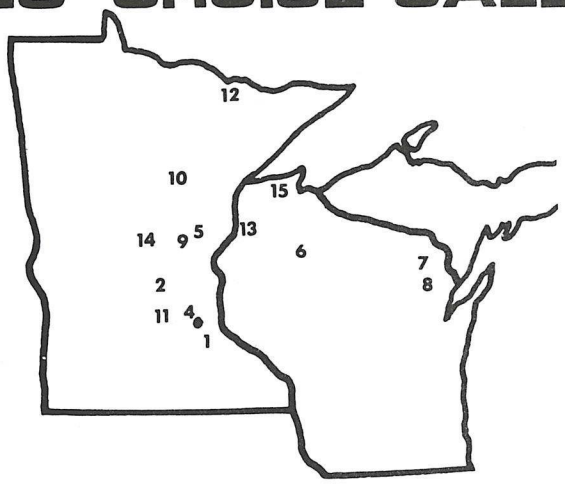
SPRING CRUISE CALENDAR

RIVER RATINGS

Trips on this and other club schedules are designed to attract paddlers whose skill levels are:

(B)eginner
(N)ovice
(I)ntermediate
(A)dvanced
(S.H)azards

(X)ploratory trips are also scheduled occasionally.



MAY

1 Saturday	1	Grey Cloud Island Mississippi (B)	Limestone cliffs and sandy beaches near Hastings	Bob Brown 432-7557
2 Sunday	2	Sauk River (B) to (N) Blue heron cruise	Travel with the St. Cloud Chapter to a heron rookery	Tom Maier 259-1787
8 Weekend	8	Peshtigo (A)	Sponsored by the 3M Canoe Club	Paul Davies 735-6618
8 Saturday	4	Minnehaha Creek (N) to (I)	Great local trip when the water's deep enough	Jim Robinson 588-5402
8 Saturday	5	Lower Kettle (N) to (I)	Hwy. 48 bridge to St. Croix and Snake River confluence	Terry Quam 933-8052
8,9 Weekend	6	Flambeau River (N) to (I)	Waterproof packing recommended, Class 2 or 3 rapids	Jerry Challman (218)724-6126
14-16 Weekend	7 8	Pike/Wolf Peshtigo (A)	Always tough; Class 2-4 with wetsuits	Mike Vande Vyver 922-7633
15 Saturday	9	Upper Snake (I) to (A)	Sponsored by the 3M Canoe Club	Paul Davies 735-6618
15,16 Weekend	10	Savanna Portage State Park (B)	Combine your campout with trout fishing and friends	Mike Zapf 251-5807
22 Saturday	9	Lower Snake (I)	Sponsored by the 3M Canoe Club	Paul Davies 735-6618
22 Saturday	11	Lower Crow (N)	Great adventure without going far	Jim Robinson 588-5402
22-June 6	12	BWCA & Quetico (N) to (I)	Sponsored by the 3M Canoe Club	Paul Davies 735-6618
25 Wednesday	4	Lakes Phalen & Jarvis (B)	Canoe in the evening after work	Paul Davies 735-6618
29-31 Weekend	7	Wolf-Peshtigo (I) to (A)	Whitewater experience or rent a raft. Twin Ports	Jerry Challman (218)724-6126
29-31 Weekend	13	St. Croix (N)	Danbury to Wild River State Park	Jim Robinson 588-5402

JUNE

12,13 Weekend	14	Crow Wing (B) to (N)	Great family cruise, nice easy river	Bill Marcouiller 789-0074 or Walt Jones 488-4570
5 Weekend	15	Brule River (N) to (I)	Sponsored by the 3M Canoe Club	Paul Davies 735-6618

Rules Are Few, but IMPORTANT!

For meeting times and places and other trip and camping arrangements—call the leader listed. While Cruise Director Jim Robinson may be able to give you some of the information, it is imperative that you phone the leader listed
NO LATER THAN THURSDAY
OF THE WEEK OF HIS TRIP

Safety demands that he know:

* whom to expect
* skill level of ones involved
* how to reach if plans change

The cruise leader and the MCA assume no responsibility for accidents, injury, or damage to equipment. The leaders are inviting persons to go canoeing with them at their own risk. The MCA serves only as a clearing house to put canoeists in touch with one another.

Unscheduled Trip Clearing House

To find out about possible unscheduled trips or possibly to lead one:

1. Call "The Clearing House" Verna Robinson, 612-588-5402.
2. Call only on Thursday—only between 8 and 10 p.m.
3. Leave your name, phone and trip preference.
4. Take similar info from her on others who have called.
5. Call one of these others or wait for one to call you.

Note: Coordinator's function is to put people in touch...NOT to screen callers for competence.

This service permits reacting to spur of the moment good water without the risk of going out and running a stream alone.

MCA Canoe Building Supplies

For Sale: MCA resin and fiberglass cloth. Polyester resin with catalyst is $11.75 per gallon. Four ounce cloth, 50 inches wide, is $2.50 per yard; 7-1/2 ounce cheesecloth, 60 inches wide, is $3.50 per yard. Rules for purchase: Call ahead and schedule pickup time. Payment by check or money order to Minnesota Canoe Association. No cash. Bring a valid membership card.

Depots:

Betty Ketter	561-2208	No. Minneapolis
Chris Berne	929-5714	So. Minneapolis
Berne Scale Co.	544-2422	West Suburbs

SPONSOR LISTINGS

Business owners, people in professional practices, and individuals listed in this section are lending support to the MCA and making their products and services known to the club members by using these Sponsor Listings. Contact Helen Olson, 447-4904, if you would like to be listed.

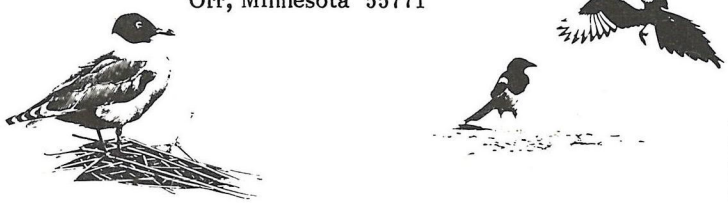
Members are encouraged to patronize these sponsors.

Strip Canoe Supplies
Bill Knudsen & Associates
488-1932

Complete wood pre-cut for a strip canoe, gunwales, thwarts, seats, etc. About $80-$100 for sitka spruce or redwood.

Canoe tows in and out of Quetico. Leave from Crane Lake, stop at Canadian Customs, continue down Loon River, Loon Lake, across Lac LaCroix to Canadian Ranger Station, which is the west entrance to Quetico. Canoe rental, partial and complete outfitting.

Paul Tufte, 218-993-2374
Buyck Rural Station
Orr, Minnesota 55771



TRADING POST

Free personal ads to MCA members

For Sale: 17' Wenonah Jensen canoe. Fiberglass construction, good conditon. Includes handmade ash yoke. Asking $300. Call Dave Logeais at 825-4040.

For Sale: 17' Old Town tripper. Oltonar Royalex hull. $400. Call Jim Maves, 871-8261.

For Sale: Seda and Perception canoes, kayaks, and accessories. Contact Mark at 823-6074.

For Sale: Jensen fiberglass whitewater canoe. 16-1/2', excellent condition. Adjustable seats, carrying yoke. $300 or best offer. Also, Klepper Aerius 2-person folding kayak. Fair to good condition. Needs some touching up. $600 or best offer. Call Victor at 612-935-8411 (days) or 612-926-3884 (evenings).

For Sale: K-1 fiberglass Phoenix slalom kayaks. $400 new ($575 list). One Cascade model, one Casper model, one Savage model. Call Skip Iltis at 944-2073.

Wanted to Buy: Lightweight, inexpensive, fast, glass canoe for training purposes. Call John Wexler, 722-7069.

For Sale: 17' old wooden canoe; potential-restored classic condition. Fiberglassed, part stripped, was canvased. Contact Steve Pestorious, 3516 - 21 Avenue NW, Rochester, MN 55901, 507-282-0674.

For Sale: Used 2-man Aerius Klepper. Includes bags, paddles, and a complete sailing kit. Asking $995. Call Ken Boettcher at 426-0059 after 6 p.m.

MCA Patches For Sale

$2 each, unlimited supply. Orders may be sent to Venice Barsness, MCA President, 500 East 15th Street, Minneapolis, MN 55404. Please enclose a check or money order made out to the Minnesota Canoe Association. Please do not send cash.

MCA PROGRAM REVIEW

In March, two of the three chairmen of the new whitewater chapter (the RAPID RIDERS) promised to show us a program on their whitewater canoeing experiences of 1981. What came to pass was a short discussion by Terry Lemke and Dave Garron on the types of equipment used. All this was displayed on stage before we sat back to be both entertained and enlightened by an excellent slide show of trips on a number of rivers in Minnesota and Wisconsin. Titled "Whitewater in the Midwest," it was apparent that a tremendous amount of energy went into putting the slides together plus arranging the music and narrative which accompanied it. If you were not present that evening, we hope you'll be able to see it when it's shown again. Many thanks to Terry and Dave, and good luck with the new chapter.



The Rapid Riders' three chairmen: Chuck Holst on the left, Dave Garron in center, and Terry Lemke, right.

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To Preserve Wilderness Canoe Waterways,
To Promote a Wholesome Family Recreational Activity,
Join the Minnesota Canoe Association Today!

HUT is the signal on which paddlers change sides. It was first used by Tom Estes and Eugene Jensen in the 1940s as they won four Aquatennial canoe races. It was adopted as the title of the MCA magazine because it symbolizes the teamwork and coordination necessary for effective canoeing.

MINNESOTA CANOE ASSOCIATION
MEMBERSHIP FORM

Name _____
(Last name first)

Address _____

City _____ State _____

Zip _____ Telephone _____

I would like to join the Minnesota Canoe Association as a (check one):

____	Regular Member	1 year	$ 10.00
____	Regular Member	2 year	19.00
____	Regular Member	3 year	27.00
____	Supportive Member	1 year	25.00
____	Life Member		100.00

In addition to joining the Minnesota Canoe Association, I would like information on the following clubs:

( ) 3M
( ) Desert (Austin)
( ) Twin Ports
( ) St. Cloud
( ) Southern Minnesota Canoe Association (Owatonna/Faribault)
( ) Long Distance Racers
( ) Canoe Brigade du Nord (Voyageurs)
( ) Rapid Riders (Whitewater)

Canoe Building Plans

( ) Woodstrip Canoe Building Manual and Explorer and Guide plans for $5.00

Send the following plans at $5.00 each.

( ) Explorer and Guide plans
( ) BWCA Cruiser
( ) MCA 14' Solo
( ) Griffen II, Kayak (Brown)
( ) Itty Bit (Brown)
( ) 15'6" Solo Canoe Pirate (Brown)
( ) 18'6" 4 & 32 USCA Racer (Burley)
( ) 18'6" 3 & 27 Racer (Ketter)
( ) 15' Solo (Ketter)

Send checks made payable to the

Minnesota Canoe Association
P.O. Box 14207, University Station
Minneapolis, MN 55414

1981-82 BOARD OF DIRECTORS

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Vacancies are filled by vote of the Board of Directors. If interested, call Venice Barsness, 332-3549. Except where noted, all area codes are 612.