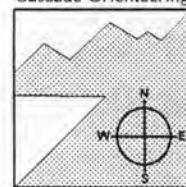




BEARING 315

Cascade Orienteering



The Newsletter of Orienteering in the Pacific Northwest

July, 1993

From The Tales of Sacajawea

by Elis Eberlein

It is hot here in Richland today and it is nice to sit at the computer and try to recover from the cold I have and from the last couple of weeks. A new club (Sacajawea Orienteers [SACO]) was started here in the Tri-Cities and had our first meet in Sacajawea State Park on a new map (meet results in the result section). So I welcome all the new members who showed up at this meet to the family of Orienteers. Your membership will include this newsletter which has information about all orienteering events in the State of Washington and surroundings. This is by far the most convenient way to give you all the information, and this way I don't have to compile it myself.

The meet went quite well with only one minor incident. One person did not get a finishing time, but I know she finished, because I talked to her at the finish before she left! About 30 people showed up and most of them did more than one course. It was a lovely day and our start/finish area was just next to the Snake River close to where it meets the Columbia River.

The rest of this report will be loose pieces from the foundation of the club. The discussion about a club started already last year at the A-Meet in Cle Elum when Bruce Wolfe suggested a club. [Mike Schuh, our USOF club development coordinator, had also been thinking and working on the idea of a Tri-Cities club in the past few years - ed.] His reason was that in a area like the Tri-Cities, with a high

percentage of engineers in the population their should be a "market" for a club. (Note. Nationwide this sport seems to have a special attraction for engineers, probably because of the element of "problem solving" that seems to attract us!) Mike Schuh got involved and we finally had a meeting on April 30, when we were sure that we wouldn't get any more snow this winter! We decided to start a club and that it would be a regular chartered USOF club. Club name to be discussed and we were going to have a meet on June 12 and a lecture on June 11.

Michel Billaux, Mike and I spent May 1 surveying the map. This was definitely not enough time, when we were working almost from a white piece of paper and had a 1sq. km area. After that I spent another 40 hours out there to try to make sense of the area's vegetation and contours. It was hot, some days over 100°F. Mike worked hard to put the map into OCAD with Bruce McAlister's help. The map was printed out and copied the day before the meet. Mark Lockhart took care of the marketing at the meeting. He distributed information about the meet, and our flyer was distributed all over Tri-Cities. Most radio-stations and the Tri-City Herald told about our meet. The Herald also wrote an article about the sport in the sport section the day before the meet.

The club name caused a lot of discussion. Sacajawea, Chemna, Rattlesnake, Three Rivers, Tumbleweed, Bombers, Hanford, Columbia Basin, Wallula were all discussed. A lot of the names have something negative associated with them and were thus deleted. Nobody seemed to mind Sacajawea, so I decided that would be the name and chartered the club under the name Sacajawea Orienteers with the abbreviation SACO.

The selection of club officers were done so that the original founders divided the work and formed a little executive board. This is how it looks like:

Elis Eberlein, President	627-0378
Ruth Miller, Treasurer	783-2713
Mark Lockhart, Publicity	735-2905
Holly Hunter, Walla Walla contact	522-2770
Ivar Husa	943-3693

A more formal election will be performed when there are enough members in the club to a least replace us.

A common problem for a new club is the economy. We are running in the red, i.e. my pocket. So if you are thinking about joining the club, please pay your dues soon!

The next meet will be in Sacajawea State Park (on our only map) on July 31, 9-11 am. Please come and bring a friend.

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Drunken Charlie Lake

Peter Golde

It was perfect weather. Well, your average sun-worshiper would have violently disagreed, but for tough physical orienteering like Drunken Charlie, 60 degrees and cloudy is just right. This was the second annual Drunken Charlie Lake Rogaine, set in 14+ km² of the Cascade foothills: some of the toughest orienteering terrain you'll find anywhere (lots of low vegetation and deadfall, only three logging roads, a sparse network of partially overgrown trails, with steep hill after steep hill rising up from marshes with over the head plant growth). A blue course is around 6km here, and that's in the good terrain.

If you're not familiar with Rogaine format, here's how it worked. Rick Hood and Dave Lilly had placed 20 controls throughout the area, with point values varying from 20 to 100 points. Two person teams had a preset time limit, either three hours or six hours, to punch as many controls as possible and score the highest points. Being back late was a stiff penalty. Personally, I thought there should have been a few more controls and somewhat more technical placement, which would have made the route choice trickier; two of the six hour teams got all the controls. But everything was exactly where it should be.

My partner, Arne Skog, was only able to stay for three hours, which was fine by me, since I don't particularly care for long events anyway. We studied the map before the start and chose a counter-clockwise loop around the north half of the map. After a tiring three hours and 500 meters of climb (including the dreaded "clear-cut climb") we had bagged 11 controls and were back at the start/finish with six minutes to spare. We waited anxiously for last year's three hour champions, Fred Veler and Eric Bone, to appear. And waited, and waited. It turned out they did the same loop we did except in reverse, but overextended themselves trying for just one more 20 point control, and ended up coming in 20 minutes late for a 200 point penalty.

So what's the secret to winning the Drunken Charlie Rogaine? Here's a few tips for next year based on what worked for Arne and I:

- Plan your route ahead of time. Not only should you know which way you want to go, you need to have some options toward the end so you can adjust based on how the time is going. Arne and I had three "optional" controls at the end of our clockwise circle; we ended up getting two of them. A little experience of the terrain helps too; Arne didn't realize how slow the terrain really was until we got going, so I had to restrain his pre-course planning a bit.
- Always watch the clock. If you come back late the time penalty will almost certainly ruin you; but coming back early is almost as bad. In the early part, keep track of about how fast you are going; as you get to under an hour to go use this knowledge to make the most of your time without going over. With about 30 minutes left, Arne and I decided to make a try for the 100 point control in the northwest corner. I knew it would be close, but I was carefully watching the clock the whole time, and I was ready to turn back if needed; I knew we could get back in 10 minutes since it was downhill.

- No stopping. It's tempting on a long-distance event to figure that a couple of minutes stopping to read the map won't make a difference, but the time quickly adds up. With two people, there's no excuse to stop; if one person is leading into the control, the other should know the way out, and be ready to lead or call out which way to go. If one person gets a bit disoriented or unsure, the other must be ready to tell him "a little farther", or "I think it's uphill from here". Unless you're superman (aka Peter Bonek), you'll have to walk up the steep, imposing hills at Drunken Charlie, but you should be jogging the downhills, flats, and especially those precious few paths and roads. Arne really helped me here, and pushed me to go faster and farther than I thought I could.
- Use both pairs of eyes near the control. The rules say you have to stay within voice range of each other, but as you get near the control, you'll want to spread apart somewhat within this limit; this doubles your chances of seeing the control. With the exception of the first control, either Arne or I went straight to the control without wasting any time searching around. If one person is following right behind the other, you are wasting half your team.
- Know the different kinds of terrain at Drunken Charlie: stay away from the marshes, clear-cuts, and contouring around steep hillsides. These will be three to five times slower than flat forest. Look ahead at the description sheet; the difference between the top and bottom of the cliff can be great indeed.

All in all, it was a great event, and the food afterwards really hit the spot.

Taps

Tragedy struck a fellow orienteer on Friday, June 18th. While making a glissade on Mount Olympus, Rick Hood's brother, Paul, slid into a crevasse and died instantly from injuries sustained in the fall.

Paul had attended a number of local orienteering meets in recent years. He was a rare individual with a natural gift for making others feel like instant friends. Paul will be sorely missed even by those of us who did not know him well. Our hearts ache for his family and friends. In lieu of flowers, the Hood Family requests donations be made to:

Olympic Mountain Rescue
P.O. Box 4244
Bremerton, WA 98312

Submission Guidelines

Bearing 315 welcomes submissions of articles, letters, or photographs about orienteering. If you would like your submission returned, please include a self-addressed envelope. The submission deadline is the 23rd of each even month for the issue to be mailed on the following 1st. Submissions should be mailed to:

Bearing 315
c/o Peter Golde
14422 NE 42nd Pl. #801
Bellevue, WA 98007

If possible, please submit on an IBM or Macintosh diskette, or submit via electronic mail to petergo@microsoft.com. If you use a word processor (preferred), please submit in Microsoft Word, WordPerfect, MacWrite, or RTF format; plain text format is also an option. Meet directors, please send meet results to Debbie Newell for compilation.

Mountain Goat Run

by John Rogers

It was an interesting day in the sloping fields and pine forest of the eastern foothills of the Cascade Mountains. Hot sun, and then a passing thunderstorm, made for challenging conditions for all the participants, including the organizers who spent time in the back of their mini-wagon with a couple of inconsolable children. But with a start, finish, and awards area overlooking large portions of the courses, as well as bananas and bandannas (the latter earned by Official Finishers of the Mountain Goat Run; who needs and wants another event T-shirt?) everyone left satisfied, if also a bit worn out.

Paul Magnus must have been particularly satisfied with his win in the 15.5 kilometer Mountain Goat Run. He had an enormous lead over the next finisher as he ran smoothly below the start and finish area (at 12.4km), on his way into the 3.1km final loop. This lead appeared to grow as first Elis Eberlein and then Arne Skog staggered in to feed and hydrate and the start/finish, and to decide whether or not to continue. They both did continue in a few minutes, without seeming to lose any more time to Paul.

A short time later, along came a loose pack of Bill Cusworth, Steve McConnell, and Mark Howlett, followed in close pursuit by Dan Waugh (the first master, and the only one to visit all 13 controls), and then Debbie Newell. It seems that the Mountain Goat's unique challenges (legs up to 5km in length, skip any one control except the first, a fork on control two, with half going to a nearby reentrant, and the other half going to another one further away) may have been the undoing of pre-race favorite Howlett. He found himself at the wrong control two, but managed to gain fourth place over the final loop.

The final glory was had by Dave Tallent, who finished as the awards ceremony was wrapping up, with less than three minutes before the three-and-a-half hour time limit, to gain a coveted Mountain Goat bandanna. A number of others also earned an official bandanna. Mac will be able to combine his in a goat ensemble, along with the Billygoat (the Western Massachusetts inspiration for this run) T-shirt he showed up in. The later finishers could put their bandanna to immediate good use, to sponge dry their soggy and partially dissolved maps, due to the late arriving rain shower.

On the other side of the awards, the run may have gotten Don Atkinson's "goat," as he made it to the finish only a few minutes after the time limit, laboring with cramped legs. Many others wandered in a short time later, expressing their exhaustion and enjoyment of the event. Ken Olsen wins an "adventurist" award for attempting the Mountain Goat Run on his first try at orienteering.

The mass start was just that. Many of the 26 started (Dave Lilly was still getting physically and psychically prepared at the prompt 11am start) groaned over the difficult choices posed by the first 3 kilometer leg. All proceeded uphill first, then a few separated off into an alternate route traversing the sloping hillside. No one chose an initial downhill to the roundabout logging road route, though Fred Veler and a few others eventually ended up over at this road.

It appeared that the course design provided many good route and optimal control skipping choices. Many chose to skip number three because it saved the most combined length and climb. But others decided to pass on seven (a bit out of the way after the very long leg), ten (saving a little distance, and a tricky reentrant in a logged area), eleven (the most climb, late in the course), and the final control (allowing a straight downhill beeline through the open field to the finish.) As much as four kilometers of the course was visible from the start/finish/awards area, making for some fun spectating between the raindrops.

Participants on the other courses also had hot and wet times. A number of beginners got out for a fun time, including Mark Velicer who tried Course 3 (orange/green level). The more experienced Jana Urbanova inadvertently helped vet a couple of the controls, thankfully before the Mountain Goals cam along. One had been moved by some critter which got some good chews on the punch. Jana's two year old daughter spotted the waylaid control from here backpack perch. Another couple of experienced orienteers drove around the Ros-Elum map area for a couple of hours, before calling the hot-line to find out about their error. Nonetheless, Wyatt Riley and Carmen Benoit showed up at the start around 1:30, split up onto Courses 2 and 3, and picked up controls along their way.

Next time (is it crazy to even consider doing it again, especially immediately after it?) we may want to shorten the course slightly to allow more Official Finishers. Participants who didn't complete the course within the time limit can get their souvenir bandannas by contacting John Rogers (462-9562). A few other non-participant ones are also available at a cost of \$3, \$5 if you would like to give the same amount the participants contributed to the US Orienteering Team. A total of \$54 has been sent to the team out of this meet's proceeds, to help compete in the fall World Championships in New York.

The meet was a success because of the help of those mentioned above and the major contributions of a few key folks. Mark Howlett gained permission, gathered up all the equipment, set up directional signs, took the equipment home, and continues to put up with friends harassment for not winning the Mountain Goal. Thanks also to Beth Elliott, without whose all-around help the whole thing would have been no end of no fun.

Retaining Cascade O. C. Members: Is it Possible?

by Harvey Friedman

What can we do to encourage current club members to renew memberships and come to meets? I ask this question since only half of members as of December 1991 were also members in December 1992.

I think I know one thing that will help. As much as I love this sport and as active as I have been, I became extremely irritated and even entertained thoughts of dropping out myself. Why, you ask? Well, I'm far from the fastest orienteer in the woods but I'm not the slowest either (most of the time). Imagine how I felt when I recently saw my result time in the newsletter as 119 minutes when I knew that I only had taken 1 hour 19

minutes which should be reported as 79 minutes. Other times, many participants' names have been misspelled in the results section of the newsletter. For example, Merian is really Morgan and Boetner is really Boltnev. The problem does not lie with any one person but with all of us in the club. Fortunately, I can think of a simple solution that will not take a whole lot of time for anyone and will make the newsletter staff feel better about their product.

Everyone at a meet should write neatly and legibly on any of the official forms. That means print your name carefully when you fill out the waiver sheet and control card for participants. Meet workers should write neatly and legibly when filling out registration sheet and start timing sheet, and finish timers should be especially careful to get the correct spelling and the correct time for everyone. When finish timers relieve an earlier finish timer, be sure that you use the same elapsed time notation, be it hours, minutes, seconds, or, as I prefer, just minutes and seconds. This will make it easier for results crew and newsletter staff.

So, if we strive for accurately spelled names and accurate times, we should see more people enjoying our sport, coming to more meets, and renewing their memberships.

[The results section is usually transcribed from the finished punch cards. Competitors should be sure to print clearly so we can read your name. Also, if you check the time on your punchcard before leaving the park, you can make sure the time is accurately recorded. — ed.]

Songs of Orienteering

For all those that went to the meet on the San Juan Islands and had to wait many hours for the next ferry...

To the tune of Gilligan's Island:

Just sit right back and you'll hear a tale
A tale of a trip gone scary
That started from this Northwest port
Upon a hellish ferry
The driver was a mighty Jungle Woman
The passengers expecting fun
Two foolish girls set forth that day
For a brief and carefree run
(A brief and carefree run)
The terrain started getting tough
The orienteers ran amuck
If not for the fear of looking like fools
They would have gone back to the truck
(They would have gone back to the truck)

To the tune of The Love Boat:

Elwha
Green, white, and slow
Come aboard
Unless we say, "no"
And Elwha
We won't make you blow chunks
It's an open smile
And our captains aren't drunks
The Elwha
Will make you want to use your gun
Set a course for disaster

You mind on a big lawsuit
And Elwha
Won't get you home on time
You'll be stuck on an island
In a four hour line!
It's Elwha!
Welcome aboard
It's Elwha
Elwha!
Elwha!!!

WIOL Volunteers Needed

Yes, it's only July, but it's not too early to be thinking about the 1993 season of the Washington Interscholastic Orienteering League. Founded over 10 years ago, WIOL is intended to introduce school children (primarily high school) to the sport of orienteering, and let them have a lot of fun doing it.

The WIOL season typically runs from November through February, with one or two practice events/clinics, six or seven competition events, and a championship meet. Individual and team scores are compiled throughout the seasons with awards being given out after the championship race. The WIOL events are held together with "standard" local events at Seattle area parks, but coordinating the league and staffing the WIOL registration does require additional volunteers.

If you are interested in being the WIOL coordinator or volunteer this winter, please call the orienteering hot-line at 783-3866 and leave your name and number.

Electronic Debate: Mapping Accuracy

The following discussion on mapping accuracy was extracted from the "O-Net," an electronic mail forum for reporting and discussing topics related to orienteering. To subscribe to either the digest or the direct mail list, send e-mail to:

orienteering-request@graphics.cornell.edu

From: Robert Galejs

A few nights ago there was a meeting of the NEOC mapping committee and one of the things we talked about was map accuracy. It appeared that no one was real happy with the quality of maps made by foreigners in the US (many US maps are not so great either but that's another story). Is this because foreigners are unfamiliar with the terrain here (I've heard that there are a lot more rock-type features here than in other places) or are the expectations of absolute map accuracy higher in the US than in other countries around the globe?

It was said that Canadian standard is to have a map that looks accurate at competition speed. I assume that means that detailed features should not be mapped since you should be running past them too quickly to notice. On the other hand, wouldn't that prevent fine (as opposed to rough) orienteering?

How do you think maps from around the world compare in terms of accuracy and details? Are Americans

too obsessed with exact maps? Are US maps cluttered with unnecessary detail?

I personally like detailed and accurate maps. How about you?

From: Graeme Ackland

I always expect to struggle with the mapping accuracy when I go to a foreign country. I'm sure that's not because British maps are especially good, it's just a question of style. I expect that your problems with foreigners maps is just that—they don't map the way you're used to.

When I was in the US there were two professional mappers, let's call them Pat and Mick. I would always check beforehand to see who had made the map because their styles were SO different: I referred to them as: 'If it's on the ground it's on the map vs. if it's on the map it's on the ground'. I should add that once I'd got used to their styles, I found both extremely good to orienteer with. However, recently my impression from looking at the Pawtuckaway map was that it was certainly not undermapped, but I'm ill placed to comment as I haven't seen the area.

I did a little amateur mapping in the US, enough to realize that I am not too good at it. The big thing that I noticed was the accuracy with which green forest was mapped: I spent ages determining indistinct vegetation boundaries which would not be usable as control features, but gave a good overall impression of penetrability. Most other maps I've been on, especially in Scandinavia, give little attention to this sort of detail.

I like accurate maps. Especially detailed maps of detailed areas and especially not detailed maps of non-detailed areas.

I think American maps are as accurate and more detailed than elsewhere. A lot depends on your idea of unnecessary detail - it's always nice to be able to see things that are mapped, so visibility (often low in US) is a factor.

I hope it wasn't an American obsession with detail and exactness that put Pat and Mick out of a job (or do I mean into a job?). Perhaps they'll tell us...

From: Beth Holmberg

Robert brings up an interesting question: are U.S. maps too detailed? I've gone both ways on this. At times I've cursed a map for having too little to tell me (especially since I'm detail-oriented). But some maps I've seen are just too busy! The CSU Pine Hill map comes to mind—it has maybe 9 or 10 different terrain patterns, with 2 or 3 frequently overlain in a bright and busy quilt pattern. I'm afraid that, at a run (or a struggling jog), I just can't process "slow run, semi-open, good visibility, seasonally wet" fast enough. Actually, even at living room chair speed I have a hard time seeing past the detail on this map to general features like topography and even trails!

I do wonder if there is variation with type of terrain—in New England those rock features and stone walls are important and omnipresent. How do our maps compare with those of some of the more western areas? (I haven't O'ed outside New England, so I have no idea). Maybe one needs to do some O'ing in a given type of terrain before they attempt to map it, to gain a better understanding of what features are and are not truly important?

Hmmm.

From: Tapio Leino

This question brings to my mind the earlier discussion in the O-net concerning the mapping of features and especially the details of the contours. At that time my impression was that there definitely is a difference in the US and Scandinavian way of mapping. The difference is the level of accuracy which seems to be higher in the US. The reason for this difference was that in the US map are made for orienteers but also for other people who use them for hunting etc. In that I can understand that accurate mapping is very important. However, if a map is done solely for orienteering purposes we always make some decisions concerning the mapping which promotes the readability more than anything else. A good example is the minimum size of a boulder which depends on the amount of them in the terrain. The idea of orienteering is not to spend time on reading the map or seeing all the interesting features at the terrain. The idea is just to finish in the shortest time. If there are too many similar details at the same small area, they cannot be used as a control point (lucky chance is forbidden in orienteering) so what is the idea of putting everything on a map. They just decrease the running speed. For an orienteer it is not important that all the details are correct but it is important that the picture in his mind which he gets reading the map is correct when he compares it to the terrain.

And don't get me wrong. I am *not* saying that a map should not be accurate! I'm just talking about the choice of how to show the details of a terrain on the map.

From: Jean-Joseph Cote

It's important to not confuse detail with accuracy—in engineering the analogous terms are accuracy and precision. A map can be very detailed, that is, it can show many things, but it's not accurate if the features are all misplaced. Similarly, a map can show very little detail, but it is very accurate if the features that are shown are all in exactly the right spot.

So what is the problem that foreign mappers have shown in the US? Is it lack of accuracy or lack of detail? Perhaps both, depending on which case we're discussing. A map that is missing major reentrants, that has boulders in the wrong places relative to the contours, or that is inconsistent in the standards of what is mapped is not an accurate map. Lack of detail is not as big a problem, but can be annoying when the area is generalized more than is appropriate. We have a plant here in the northeast US called mountain laurel that cries out to be mapped in a rather detailed fashion because of the nature in which it grows. It can be a great asset if it is not so prevalent as to make the area very slow running, since it can turn the forest into a sort of diffuse maze.

Detail is important, since one needs to know where it is possible to get through at high speed, rather than just knowing that an area has a bunch of it. This is an example of where familiarity with the local standard is important; a convention for mapping mountain laurel has evolved over the years, thanks in large part to some very talented US mappers who have worked in this area, particularly Pat Dunlavey, Eric Weyman, and Mikell Platt. People

sometimes complain that the detailed green can make the map hard to read at high speed, but they complain louder when they are on a less-detailed map and they get hung up in laurel that wasn't mapped well enough to enable them to know where to go. Parts of the US also have much more contour detail than continental Europe. Mappers who are unfamiliar with this sort of terrain can approach the mapping the wrong way, considering a hill to be a general rounded mass with features such as reentrants on it here and there, rather than ignoring the hill and just showing what the contours look like. Does this make sense? It's something that is probably pretty counterintuitive to a mapper who's not used to having a good base map.

On the other hand, consider the Pine Hill map that Beth Holmberg mentioned. Pine Hill was essentially mapped by Americans. I agree with her description of it: difficult to read because of the jumble of detail. Another factor, though, was the drafting, which was not very close to IOF spec, making the map very difficult to read. CSU has recently produced a completely new version of this map, done by a foreigner. The level of detail is quite a bit lower, and the drafting job is considerably better. I enjoyed the new map much more than the old one. It's not clear that this style would be appropriate for an area that isn't so crisscrossed with trails, though. And I did hear one complaint about the course, due to a problem that seems to have arisen because of the lack of detail on the map.

Detail can certainly be overdone. Florissant Fossil Beds is a map that will be used for the Colorado 5-day this summer (for all of you who have ordered copies, the map is just about to go to press, apologies for the delay). Mikell Platt mapped this area, and showed a lot of vegetation detail. A lot of this detail will be lost in the IOF spec, though. Huh? Well, there is essentially no green on the map; it's a patchwork of white, open, rough open, and especially semi-open (meaning a big field with occasional evergreen trees, I guess). The use of semi-open is far preferable to open with a thousand green X's, so this is good. One thing that you will be unaware of is that Mikell has mapped the edges of the semi-open in excruciating detail (much of this detail may have come from the base map). Many of the little knobs and fingers on the semi-open blobs are essentially smaller than the dots of the semi-open screen pattern, so you won't see them on the map (and I'll bet my bottom dollar that you won't see them in the terrain either). So here we have a case of an American going overboard with the detail, just as Robert said. Luckily, in this case, only the weary cartographer will notice.

Perhaps one reason that foreign mappers have gotten a bad name in this country is that many of the foreign mappers have not been highly-skilled mappers from their respective countries, but rather college kids looking for a way to finance a trip to see the wonders of America. They've known something about mapping, but the clubs in this country have assumed that they must be very very good since they come from some country in Europe where orienteering is very big. Therefore we get them to make a map for an important meet, the fieldchecking is done quickly and halfheartedly (hey, there are places to go and sights to see here in America), and the results are disappointing. This hasn't been the case with all foreign mappers, but perhaps with enough to create a stereotype.

But hey, who am I to talk? I'm just a mapping dilettante from a third-world O country.

From: David Irving

In my experience—and this is San Diego experience, not West Virginia, one of the major difficulties in importing a mapper is due to local variations and standards regarding vegetation, rock features, contour detail, etc. Southern California with its chaparral just requires a different treatment from vegetation elsewhere. If you're not familiar the standards we have evolved to handle chaparral, you're just not going to produce a map that's consistent with what Southern California orienteers are used to. The problem is analogous to the mountain laurel that J.J. is familiar with in the Northeast (and the Appalachians—I'm now learning how to deal with field checking for laurel and rhododendron in West Virginia).

The regional vegetation differences are only the biggest of several local variations in mapping standards. Karen and I have just completed some mapping for our local Cooper's Rock State Forest. We ended up agreeing that small boulders constituted any rock from the size of a car up to the size of a one-room cabin. Large boulders were those ranging from the size of a 2-3 room cottage to a two-story house. What passes for a mappable boulder in Kansas isn't even worthy of being marked as rocky ground at Cooper's Rock. (And then there are charcoal platforms which aren't even going to be seen by someone not thoroughly familiar with them.)

If we imported mappers from one section of the US to another, we would be more aware of these regional variations. Since there aren't enough mappers in the US to go around, the outside mappers our clubs bring in are almost exclusively Europeans. Thus we experience as a US vs. foreign mapper problem what is really more of a problem of local conditions vs. mapping standards valid for other areas.

Cascade Membership Report

Harvey Friedman

As usual, we'll start with positive roster changes as of 30 June 1993. Words of both thanks and welcome go to the following new or renewing club members: Don Atkinson, Mia Barbera, Don Bliss, Ellen Boomer, Boy Scout Troop 615, Ralph Chapman family, Aaron & Patricia Charlop, Gerald Croteau & Sarah Bayle, Bill Cusworth, Darrielle Elliston, Len Englund, Mike Fritz & Vivien Birtwistle Fritz, Doug Gordon family, Eric Hamilton, Norm & Gerri King, Paul & Toko Magnus, Sandy Kish & Robert Miller, Brad Miner, Linda & Carl Moore, Sean Olmstead, Christopher Schreiner, Sid & Jan Whaley, Douglas & Susan Woods. If you all don't come to meets, you'll probably not see your name in the newsletter until the next time you renew. If you move, don't forget to turn in a change of address card; you don't want your newsletter to be late (or lost). Especially since we now send the newsletters out at bulk rate, we no longer know if or when you move, and it is not forwarded (horrors!!!). Please! Everyone fill out a form legibly when it comes time to renew. Does anyone else want to be on membership committee or to take over as membership coordinator?

The Eastern Washington Orienteering Club presents the
WASHINGTON STATE ORIENTEERING CHAMPIONSHIPS

The Third Inland Empire Cup

B Meet
September 11-12, 1993

Riverside State Park, Spokane

Terrain

Open, runnable pine forest

Map

Produced in 1989 for the Washington Centennial Games; 1:15,000 scale 5-color International Orienteering Federation-standard map. Field-checked by Al Smith and Ulf Köster, Cartography by Gary McCausland.

Courses

Five courses each day, designed by Scott Coble.

Categories

The categories offered are listed on the back of this page. However, some categories may be combined if fewer than five people enter them.

Awards

Washington State Champion ribbons will be presented to the top finisher in each category who has been a resident of Washington for the past 12 months. All participants (regardless of residence) are eligible for Inland Empire Cup ribbons to be presented to the top three finishers in each category and for the Inland Empire Cup trophies to be awarded to the top finishers in F-21- and M-21-.

Start Times

Saturday - 1:00 to 3:00 P.M. Park at ORV area.

Sunday - 9:00 to 11:00 A.M. Park at Bowl and Pitcher.

Fees

\$4 per day for Courses 1 and 2; \$6 per day for Courses 3-5. Please make checks payable to EWOC in U.S. funds.

Registration

If your entry is received by September 1, you will get a pre-marked map and an assigned start time. If your entry is received after this day, you must mark your own course (yes, it will be included in your time) and start when space is available. Because we are not allowed to collect funds on state park lands, even late entries should pay their fees by mail and bring their completed registration form and waiver to the event. Please send entries to:

EWOC
P.O. Box 944
Spokane, WA 99210

Entry for the 1993 Inland Empire Cup "B" Meet

Name / Address / Phone No.	Club	Birth Year	Course	Class	Sat/Sun/Both	Reg. Fee
Number for Saturday dinner _____						Total

Course 1 2-3 km beginner	Course 2 3.5-4.5 advanced beginners	Course 3 4-5 km intermediate	Course 4 5-6 km advanced	Course 5 6-9 km advanced
M-12A F-12A Novice	M-14 F-14 M Open C F Open C	M-16 M Open B F-16 F Open B	M-20 M 35- M 45- M 55- M Open A F-20 F 35- F 45- F 55- F Open A	M-21- F-21-

Accommodations

The Bowl and Pitcher campground (on the east side of the river) at Riverside State Park is open year-round.

Saturday Dinner at DeCaro's Little Italy

Saturday evening beginning at 7:00 p.m. there will a dinner at DeCaro's restaurant, 922 N Division. Cost (including 15% gratuity) for a dinner including soup, salad, bread, pasta and meatballs, and nonalcoholic beverage is \$8.75 plus tax. Reduced prices are offered for children under 10. Please indicate on the registration form if you plan on attending.

Information

For more information about the meet, please call the meet director, John Beck, (509) 838-7078 or 328-4220 ex. 3429.

Directions to Event Sites

Because the parkway on the west side of the river has been incorporated into the Centennial Trail and is closed to through traffic and the Maple Street bridge is closed for repairs, the easiest way to get to Riverside State Park from I-90 is to go north on Division to Francis. Then proceed west on Francis and northwest on Nine Mile Road.

Saturday parking will be at the ORV area. Take Seven Mile Road west from Nine Mile Road. After crossing the bridge over the Spokane River, continue 1.5 miles before turning south to the ORV area.

Sunday parking will be at the Bowl and Pitcher, on the east side of the river. Take Rifle Club Road (near the landfill) west off Nine Mile Road to Aubrey White Parkway and follow the parkway south to the Bowl and Pitcher.



WAIVER OF LIABILITY

In consideration of acceptance of this entry, intending to be legally bound, I do hereby, for myself, my heirs and executors and administrators, waive, and release any and all rights and claims for damages I may have against the United States Orienteering Federation, the Washington State Orienteering Association, the Eastern Washington Orienteering Club, Riverside State Park, the Washington State Parks and Recreation Commission, the Washington State National Guard, and private land owners and lessees, their representatives, successors and assigns and any and all other sponsors, persons and entities associated with this event for injuries or damages occurring by, during or resulting from this event. I further attest that I am physically fit and able and qualified to participate in this event. If I am under 18 years of age, my parents or legal guardian must co-sign.

Signed _____ Date _____ WA resident? _____

Signed _____ Date _____ WA resident? _____

Signed _____ Date _____ WA resident? _____

Signed _____ Date _____ WA resident? _____

Where and what are these Orienteering Clubs?

Cascade Orienteering Club, Sammamish Orienteering Club, Ellensburg Orienteering Club, and Sacajawea Orienteers are independently administered non-profit organizations chartered by the United States Orienteering Federation. Sammamish primarily operates in the east-side (Bellevue and Redmond) area, while Cascade (the largest club) operates in the greater Seattle area. Ellensburg is centered in that town, and Sacajawea is based in the Tri-Cities area. Cascade and Sammamish clubs hold orienteering events throughout the year in the Puget Sound area, and eastward into the Cascade Mountains; the other clubs hold events in their areas. Membership is open to everyone, and entitles you to event discounts, club voting rights, and includes a subscription to Bearing 315, published six times per year.

What equipment do I need?

The only requirement is a compass. The best kind is a protractor-type with a clear plastic base so that you can see through it to the map underneath. Compasses are available for rent at orienteering events if you don't own one. At each event you will receive a detailed topographic map of the area, usually produced specifically for orienteering by the club. Long pants (light nylon is best, but jeans will do) and long-sleeve shirts are recommended because of sometimes dense underbrush. Jogging shoes or lightweight hiking boots are preferable; your feet may get wet and muddy, so a spare pair socks and shoes are nice. Bring a watch so you can keep track of the time.

COC Officers and Coordinators:

Dave Petty	President	822-4223
Margie Bone	Vice-President	634-2279
Sandy Kish Miller	Treasurer	782-1437
Ardis Dull	Secretary	364-4062
vacant	Event Coordinator	
Debbie Newell	Mapping Coordinator	488-7471
Harvey Friedman	Memberships	784-2774
Don Atkinson	Equipment	488-0270
Eric Bone	Training Coordinator	634-2279
Peter Golde	Newsletter	883-3732
Mike Schuh	Executive Board	783-3960
Bruce McAlister	Executive Board	821-6862
Jim Siscel	Trim Course Coordinator	778-7202
Mark Anderson	Publicity and Promotion	286-9136

Sammamish Officers and Coordinators:

Dave Tallent	President	392-3061
John Sincok	Vice President	822-3621
Valerie Enger	Treasurer	822-6254
Dave Enger	Mapping Coordinator	822-6254
David Lilly	Newsletter Coordinator	454-4136
Bob Reddick	Memberships	487-0099

Event fees are charged on a per-registration basis: two people running together with the same map and punch card pay a single fee. Additional maps are available; the charge varies depending on the map. The following are typical fees for local ("C") events with color maps. "A" and "B" meets, state championships, rogaines, and other events will cost somewhat more.

Orienteering Club Membership Application

- ☐ Cascade O.C. ☐ Sammamish O.C.
☐ Ellensburg O.C. ☐ Sacajawea O.C.

Name _____

Address _____

Home phone _____ Work (opt.) _____

Other Family Members _____

Optional Information:

Occupation _____

Orienteering Experience _____

Special Interests _____

Orienteering Interests (circle):

- | | | |
|---------------------|---------------------------|----------------|
| Event Participation | Improving Skills | Writing |
| Teaching | Coaching | Publicity |
| Event Organization | Course Setting | Field Checking |
| Map Making | Exploration of new areas. | |

- ☐ Family or Group \$15.00/year
☐ Individual \$10.00/year
☐ Associate (under 18) \$5.00/year
☐ Newsletter only [COC only] \$6.00/year

Mail this form, along with payment, to one of:

Cascade Orienteering P.O. Box 31375 Seattle, WA 98103	Sammamish Orienteering P.O. Box 3682 Bellevue, WA 98009
—OR—	—OR—
Ellensburg Orienteering c/o Will Sperry 1006 N. Water St. Ellensburg, WA 98926	Sacajawea Orienteers c/o Elis Eberlein 520 Meadows Drive S. Richland, WA 99352

Other Clubs:

Elis Eberlein, President Sacajawea O.C.	(509)627-0378
Will Sperry, President Ellensburg O.C.	(509)925-4816
John Beck, President Spokane O.C.	(509)536-0650
Charley Kellerman, Pres., Cascade River O.C.	(503)231-0443

Event Fees

Club members (any club)	\$3.00
Non-club members	\$4.00
Junior (< 18, except WIOL)	\$2.00
WIOL (school league) participants	\$3.00
First time orienteering participants	\$2.00
Families	regular fee for two people, then \$1/person.

Meet Results and Standings

Kelsey Creek Park

May 5

Sammamish Orienteering Club

Meet Director:

Courses: Mark Howlett

Registration: Kathy Trost

Timing: Ben Hall

Course 1

Debbie Totushek	19:10
Zhiping Zhou	25:40
Aaron & Bruce Meyers	29:02
Shelley Kelber	35:50
Norm Besag	37:55
Lauren Engel	38:10
Dene Overman	40:53
Phil Dixon	68:18

Course 2

Kevin Finney	20:18
Marti Anderson	29:25
Neil/Lael Smith	33:00
Karen Lehman	44:01

Course 3

Paul Magnus	22:00
Eric Bone	23:50
Bill Cusworth	23:55
Debbie Newell	27:00
Dave Enger	30:10
Jan Urban	32:20
Bob Williamson	32:44
Peter Golde	33:19
Jana Urbanova	39:30
Bill Elliott	39:44
Eva & Michael Corey	40:04
Ken Lew	41:32
Craig Miller	44:35
Ron & Andy Brown	45:00
Margie Bone	58:30

Moran State Park

May 16

Cascade Orienteering Club

Courses, Meet Director: Peter Golde

Registration: Eric Bone

Timing: Bill Cusworth, Peter Bonek

Control Pickup: Harvey Friedman

It was a picture-perfect day at Moran, and the San Juan Islands were spread out beneath the start/finish area on Mt. Constitution. Peter Golde had set up four challenging courses among the numerous small detail features of Moran State Park. Several people on courses 3

and 4 were tripped up by a long sidehill run to a control in a reentrant; it was easy to get too high or too low unless one was following the clearings very carefully.

Ben Hall, having been orienteering in Europe last summer, showed off his skill by running course 4 very fast and beating several talented competitors by over four minutes. Peter Bonek was unable to compete because of an injury, but his parents posted extremely impressive fourth and fifth place finishes, proving that orienteering talent really runs in the family.

Several orienteers went for the real physical challenge by bicycling from the ferry: a fifteen mile ride followed by grueling climb up the 2200 foot Mount Constitution. Don Atkinson gets the "ironman" award for making the ride, then winning course 3 to boot.

The bicycles did pay off for the trip back, though, apparently we weren't the only people who decided to visit Orcas Island on the nicest weekend of the spring. Several people waited six hours for the return ferry to Anacortes. Next time, we should use Saturday instead of Sunday to avoid this ferry mess.

Course 1: 2.6km, 165m climb, 7 controls

Jana Urbanova	67:12
Lynette Stevens	68:58
Edward Wang	83:28
Linda Allen Western	85:38
Geof Miller & Terri Burliaga	86:58
Darren Robinson	89:58
Sally Vanderzee	94:33
Lori Buker & Christa Klauhl	118:48
Brad Thompson	Map Hike
Theresa Freeman	Map Hike
Carol, Darren, Chris Robinson	Map Hike

Course 2: 4.4km, 220m climb, 10 controls

Jack McLean	72:22
Eric Riggers	79:13
Neil Smith	88:15
Sasha Hull & Kerry Holden	133:17
Fiehrer & Fritz	137:30
Dorothy Neville	144:31
Patricia Charlop	163:50
Maggie McLean	Map Hike

Course 3: 3.75km, 185m climb, 10 controls

Don Atkinson †	74:45
Kunt Olson	82:00
Debbie Newell †	84:41
Anneliese Bonek	88:27
David Petty	89:59
Franz Amador	99:22
Aaron Charlop	113:08
Margie Bone	128:07

Melvin Rader	137:15
Harvey Friedman	141:59
Ken Lew	144:26
Anne York	163:12
Ellen Boomer & Lisa Nordlund	313:37
Beth Elliott †	DNF
Ardis Dull	DNF
Bruce McAlister	DNF
Brad Robinson	Map Hike
Linda & Rick Hood	Map Hike

Course 4: 6.05km, 210m climb, 14 controls

Ben Hall	78:51
John Rogers †	83:05
Claudia Kunzel	83:44
Eric Bone	86:31
Ernst Bonek	88:41
Mark Howlett †	96:33
Robert Miller	117:38
Jan Urban	124:27
Mac MacDonald	126:41
Sandy Kish Miller	129:24
Eva & Michael Corey	188:00
Bill Cusworth	DNF
Nick Bone	DNF
Craig Randall	DNF
Jon Geffen	DNF

† Indicates that competitor rode bicycle from ferry to the top of Mt. Constitution beforehand.

Durr Road

May 22
Ellensburg Orienteers

Meet Director: Sally Evans
Courses: Mundi Hamilton
Registration: Addie Graaff
Start-Finish: Sally Evans
Cookies: Addie Graaff, JoAnne Sperry

The Old Durr Road venue has never been more beautiful. Flowers everywhere. Mundi continued EOC's attempt to provide longer courses at their meets "in the woods." The winning times in both the advanced and intermediate courses were about right at 90 minutes. We were pleased to greet Ellensburg Search and Rescue members who tried the beginner's course with success.

(Note: times below in hours and minutes.)

Course 1: 3.2km, 130m climb, 7 controls

JoAnne Sperry	1:14
Joe, Myrna Antonich	1:22
Harry Whitaker Family	1:39
Sam, Mark Hall	2:40

Course 2: 6.3km, 330m climb, 11 controls

S. K. Miller	1:32
Bob Reddick	1:57
Anne York	2:16
Harvey Friedman	2:24

Course 3: 9.2km, 460m climb, 15 controls

Dave Enger	1:30
Fred Veler	1:42
Debbie Newell	1:50
Dale Width	1:52
David Tallent	2:01
Ken Lew	2:57, but DNF*

*Ken correctly observed the 3 hour time limit.

Luther Burbank Park

May 26
Samammish Orienteering Club

Meet Director: Dave Enger
Course Design: John Sincock
Course Placement: Debbie Newell
Timing: Ben Hall, Mark Howlett
Training: Bob Reddick
Food: Valerie Enger
Weather: Sunny, warm.

Course 1: 1.2km, 8 controls

Eric Bone	5:45
Boy Scout Troop #615	13:55
Matthew + Jana Urban	18:20
Lael Smith	23:24
Virginia & Chris	24:55
Calkins	35:00
Colin & Steven Booy	39:36
Susan Scarpello	41:20

Course 2: 1.5km, 8 controls

Eric Bone	7:22
Susan Scarpello	31:52
Sally Vanderzee	35:16
Andrew Griffith	36:43

Course 3: 2.4km, 12 controls

Eric Bone	16:43
Kevin Finney	22:17
Eric Riggers	23:09
Boy Scout Troop #615	32:10
Jim Horn	34:31
Neil Smith	47:54
Norm & Gerri King	75:45

Courses 2 & 3: 3.9km, 20 controls

Bill Cusworth	27:04
Steve McConnell	29:23
Jan Urban	30:13
Mac MacDonald	34:14
Jana Urbanova	38:55
Ardis Dull	47:49
Eva & Michael Correy	48:19
Jim Sisco	51:22
Ken Lew	56:07

Drunken Charlie Lake

2nd Annual Drunken Charlie Lake
Rogaine
June 12
Cascade Orienteering Club

Meet Director: Rick Hood
Course Designers, Setters, Water, &
Vetters: Rick Hood, Dave Lilly
Timing, Results, Catering: Linda Hood,
Kathy Trost
BBQ Chief: Aaron Charlop
Weather: Darn good for a Rogaine!

Peter Bonek, competing in the 6hr option, said he had the best run he has ever had in the states; he and Mark bagged them all with 79 minutes to spare. It was about a twenty-five way tie though as to who had the most fun. Everyone returned safe and sound and enjoyed Bratworst and beverage under the big top. Special thanks to Dave Lilly and Kathy Trost from Sammamish, who were instrumental in making this event such a success for all. (See article by Peter Golde, overall winner in the 3 hour option, in this newsletter.)

20 controls were set, with a total of 1020 possible points. 10 points was deducted per minute of overtime.

6 Hour	Class	gross	net
Hartinger & Waugh	M+	1020	1020
Bonek & Howlett	M	1020	1020
Kunzel & Newell	W	920	920
Gundlach/Magnus	M	820	820
Carrol & Urban	M	620	620
C & L Moore	X+	660	600
P & J Nitardy	M+	540	540
Cusworth *McConnell	M	540	540
M & E Corey	X	540	540
S & J Whaley	X+	380	380
Robinson & Smith	M+	360	360
Olsons & Petty	M+	320	320
Andersons & Johnson	X	320	320
Morgan & Schreiner	M	280	280
M Bone/SK Miller	H	240	240

3 Hour	Class	gross	net
Golde & Skog	M	560	560
E Bone & Veler	M	580	380
D Miller & Tallent	M+	300	300
Friedman & St. John	X+	200	200
Atkinson/Williamson	M+	380	150
A & T Charlop	X	40	40
Goldberg & Smith	X	40	40
M & P Berry	X	20	-40
Brown & Loos	M+	60	-90
P & B Reddick	X+	160	-740

Classes: M: men, W: women, X: mixed,
H: hikers, +: masters (over 40)

DCL 2hr Marker Lotto
Organizer/Driver: Rick Hood

All participant's finished within the two hour timeframe and collected all their assigned controls. All 1st place winners were treated to pizza by oranizer/ driver; what's more, we all had a another great day in the woods. Since there was only one competitor in each class, everyone scored a well-deserved first place (Steve McConnell was first place overall, finishing 39 minutes early.)

Steve McConnell Solo
 Petty and Atkinson Team 40+
 Urban & Chris Team
 Dan Waugh Solo 40+

Sacajawea State Park

June 12, 1993
 New map, 1:5000
Sacajawea Orienteers

Meet Director: Elis Eberlein
 Courses: Elis Eberlein
 Publicity: Mark Lockhart
 Registration: Fred and Ruth Miller
 Newcomer Instruction: Mike Schuh,
 John Beck
 Timing: Fred Miller
 Marker Hanging and Pick-Up: Mike
 Schuh, Holly Howard, John Beck,
 Jerry Youngblood, Elis Eberlein
 Support: Ivar Husa, Susan Eberlein,
 Frank Skorina, Mark Lockhart

Course 1: Easy, short (1685m, 9 controls)

Jerry Youngblood	11:00
Bob & Ryan Gregoire	14:34
Cindy Gregoire	15:47
Ian Gregoire	16:45
Stephen Joyce & Bobbi Roop	21:00
Toby Latin	21:01
Wreatha Carner	21:38
Mary Stoemer	22:04
Daniel Kirkbride	24:00
Beverly Heersink	25:21
Dennis Heath & Edye Jenkins	28:21
Terry & Charlie & Talena Melchin	28:22
Bonnie Rae Sullivan	33:00

Course 2: Easy, long (3370m, 10 controls)

Mark Lockhart	22:35
Jerry Youngblood	25:00
Ivar Husa	29:40
Wreatha Carner	30:32
Beverly Heersink	39:00
Bonnie Rae Sullivan	46:05
Randy Kirkbride	missing time

Course 3: Intermediate (3255m, 8 controls)

Tor /wre	19:52
Robert Gruel	21:00
Mike Schuh	22:42
Jerry Youngblood	31:47
Stephen Joyce	40:00
John Beck	40:46
Frank Skorina	49:00
Kathy & Dan Lepore	57:00
Len Pingel	57:05
Terry & Charlie & Talena Melchin	59:40

Howarth Park

June 16
Sammamish Orienteering Club

Meet Director: Arne Skog
 Courses: Dave Enger
 Registration & Instruction: Arne Skog,
 Rick Hood
 Timing: Brad Robinson, Ben Hall
 Barbecue: Valerie Enger
 Press Relations: Mac & Karen
 MacDonald

Course 1: 1.1km, 7 controls

Lael Smith	14:46
Peter Sturdivant	15:16
Mac McDonald & Heidi Bracher	21:25
Brad Robinson	26:30
Ed & Cindy Burby	27:08
Sally Vanderzee & Eric Riggers	27:51
Nancy Salvadale	28:43
Elizabeth Joyner	36:38
Lisa Reeves & Angel Eadie	Map Hike
Bone	Map Hike

Course 2: 2.8km, 7 controls

Ardis Dull	30:04
Dick Eitel	32:39
Peter Sturdivant	35:00
Ken Lew	36:27
Neil Smith	39:30
Wyatt Riley	48:02
Jana & Matej Urban	69:09
Kathy Marcy	Map Hike

Course 3: 6.5km, 13 controls

Mark Howlett	34:54
Arne Skog	38:24
Debbie Newell	43:56
Peter Golde	49:58
Bill Cusworth	50:22
Mac MacDonald & Heidi Bracher	55:14
Jan Urban	58:39
Chris Burns	70:40

Cle Elum Ridge

Mountain Goat Run
 June 26
Sammamish Orienteering Club

Meet Director, Courses: John Rogers
 Assistant to Mr. Rogers: Beth Elliott
 Land Permission, Equipment: Mark
 Howlett

Course 1: 1.7km, 65m climb

Kathy Trost, Angela, Nich, and Garth	31:23
Sara and Tim Carter	32:38
Theresa Freeman	41:10
Hurst Group	44:38

Course 2: 3.1km, 115m climb

Sara and Tim Carter	54:32
Toshiko Magnus	62:05
Jana Urbanova	68:05
Gretchen Andrews	91:30
Trish Charlop	100:53
Brad Thompson	102:53

Course 3: 4.9km, 175m climb

Dale Width	44:52
Dave Petty	79:04
Harvey Friedman	88:29
Anne York	99:45
Knut Olson	107:52
Mark Velicer	108:45
Ralph Olson	109:11
Aaron Charlop	109:15
Ken Lew	DNF
Martha and Gary Sparks	DNF

Mountain Goat Run: 15.5km, 530m climb

Paul Magnus [A, 7]	135:36
Elis Eberlein [A, 3]	144:03
Arne Skog [B, 7]	145:09
Mark Howlett [A, 3]	152:40
Steve McConnell [A, 7]	152:52
Bill Cusworth [B, 10]	152:56
Dan Waugh [A, all]	155:11
Debbie Newell [A, 3]	159:30
Fred Veler [B, 11]	162:53
Kris Dartnell [A, 10]	168:04
Jim Traynor [B, 11]	179:25
Jan Urban [B, 13]	182:50
Mac MacDonald [B, 3]	184:18
Peter Golde [A, 7]	184:23
Dave Tallent [A, 3]	207:45
Don Atkinson [A, 10]	OT
Sid Whaley [B, 4]	OT
Carl Moore [A]	DNF (10)
Linda Moore [B]	DNF (10)
Dennis Leveridge [B]	DNF (9)
Eva & Michael Corey [B]	DNF (7)
Neil Smith [A]	DNF (6)
Ardis Dull [A]	DNF (6)
Doug Sprugel [B]	DNF (3)
Mark Anderson [B]	DNF (3)
Ken Olsen [B]	DNF (2)
Dave Lilly [A]	DNF (?)

Bracketed letter indicates which control #2.
 Bracketed number indicates which control
 was skipped. Number after DNF indicates
 how many controls were completed.

Upcoming Orienteering Events

(call 783-3866 for latest information and details)

Date/Time	Location and Comments (events close to Seattle in bold)	Type	Club	Map	Contact
JULY					
Wed., July 7 6pm-7pm	Manito Park, Spokane.	C	EWOC		John Beck (509)536-0650
July 7-11	Colorado 5-day, Colorado Springs. Five days of orienteering in the high country. Pre-registration required.	A	BSK	color 1:15000	Dan Walker (303)494-8695
Sat., July 10 noon-2pm	Battleground Lake State Park, near Portland, OR.	C	CROC	b/w	T. Landchild (206)696-9486
July 14-16	USOF Convention, Sugar Bowl Ski Resort, near Lake Tahoe. Seminars, information, fun events, etc. etc. Pre-registration required.	X	BAOC		Tom Strat (415) 592-0903
July 17-18	Western States Orienteering Championships, Boreal Ridge, near Lake Tahoe. Pre-registration required.	A	BAOC	new clr 1:15000	Tom Strat (415) 592-0903
Wed., July 21 5:30pm-7pm	Marymoor Park, Redmond. Take 520 east, Lake Sammamish Pkwy exit, south to park entrance.	C	SAMM	color 1:10000	Dave Enger (206)822-6254
Sat., July 24 10am-noon	Hamlin Park, North Seattle. Exit I-5 at NE 145th St. West to 15th Ave. NE. Turn left (north) on 15th Ave. NE, turn right into park near NE 160th.	C	COC	new color	Debbie Newell (206)488-7471
Sat., July 24 10am-noon	Riverside State Park, Spokane.	C	EWOC	color 1:15000	John Beck (509)536-0650
Sat., July 31 9am-11am	Sacajawea State Park, near Tri-Cities. Beginner courses.	C	SACO	color 1:5000	Elis Eberlein (509)627-0378
AUGUST					
Sun., Aug. 1	Forbidden Plateau Long-O, Comox, B.C.	C	VO		Alan Philip (604)721-5759
Wed., Aug. 4 5:30pm-7:00	Robinswood Park, Bellevue. Take 148th Ave. north from I-90, park is on east side of road.	C	SAMM	color	Dave Enger (206)822-6254
Sat., Aug. 7 10am-noon	Riverside High School, Chattaroy, WA.	C	EWOC		John Beck (509)536-0650
Sun., Aug. 8 3pm	Picnic and fun run through St. Edwards State Park. Meet at Don Atkinson's house: 5826 NE 151st, Bothell.	X	COC		Don Atkinson (206)488-0270
Aug. 14-15	Table Mountain Rogaine. 12 and 24 hours. 2+ member teams. Pre-registration required. Entry form inside this issue.	X	SAMM	USGS	Bob Reddick (206)487-0099
Wed., Aug. 18 6pm-7pm	Lincoln Park, Spokane.	C	EWOC		John Beck (509)536-0650
Sat., Aug. 21 noon-2pm	Happy Valley Tree Farm, Albany, OR.	C	CROC		P. Papp (503)344-5805
Sat., Aug. 28	Ros☆Elum Ridge, Cle Elum, WA. Take Roslyn exit from I-90, follow O-signs. Call hot-line for exact time.	C	COC	color 1:15000	Dave Petty (206)822-4223
Sun., Aug. 29	Long-O. Cle Elum Ridge, Cle Elum, WA. Take 2nd Cle-Elum exit from I-90, take hwy 970 east to Masterson Road. Call hot-line for exact time.	C	EOC	color 1:15000	Michel Billaux (509)545-8036
SEPTEMBER					
Sept. 4-5	Red Plateau, B.C. Champs. Kamloops, B.C.	A	SAGE	color 1:15000	M. Foubister (604)374-6497
Sat., Sept. 11 noon-2pm	Mt. Tabor Park, Portland, OR area. Youth and Novice special.	C	CROC		Glen Cafferty (503)281-5137
Sept. 11-12	Inland Empire Cup and Washington State Championship. Riverside State Park, Spokane. Pre-registration form inside this issue.	B	EWOC	color 1:15000	John Beck (509)536-0650
Sun., Sept. 26 10am-noon	Lake Sammamish State Park, Issaquah. I-90 east from Seattle, exit at Hwy. 900 and north to park.	C	SAMM	color 1:10000	Dave Enger (206)822-6254
Sun., Sept. 26	Mt. Douglas, Victoria, Vancouver Island, B.C. Call Kris for starting time.	B	VO	color 1:10000	Kris Dartnell (604)743-9678
MAJOR NATIONAL EVENTS					
Aug. 25-29	Canadian Champs, Fundy Nat. Park, New Brunswick	Oct. 9-17	World Champs, US Champs, O-Fest, Hudson Valley, NY.		

CLUBS:

COC: Cascade Orienteering Club
EWOC: Eastern Wash. O. C.
CROC: Columbia River O. C.
HUSK: Husky O. C.

SAMM: Sammamish O. C.
EOC: Ellensburg O. C.
VO: Victorienteers
SAGE: Sage O.C., Kamloops B.C.

NISQ: Nisqually O. C.
WIO: Wash. Interscholastic O' League
GVOC: Greater Vancouver O. C.

MEET TYPES:

C: Regular local meet
B: Large local meet, more courses
A: National-level meet, must preregister
X: Special event

United States Orienteering Federation

P.O. Box 1444
Forest Park, GA 30051
MEMBERSHIP APPLICATION

☐ New member ☐ Renewal ☐ Address Change

As a U.S. Citizen or U.S. Resident, I hereby apply for USOF membership. I understand that I am entitled to a one-year subscription to *Orienteering North America*, voting rights, and membership in the IOF. Please print.

Date _____ Yr. Born _____

Name _____

Address _____

Home Phone (____) ____ - _____

If family membership, list other persons:

Name _____ Year Born _____

Member of a chartered club? Club _____

- ☐ Individual \$25 member of a chartered club
☐ Individual \$30 at-large
☐ Family \$30 members of a chartered club
☐ Family \$35 at-large
☐ Student \$10 (21 & under)
☐ Junior \$5 (18 & under/no vote/no magazine)
☐ Individual Life \$300 ☐ Couple Life \$450
 For mailing O/NA overseas (except APO & FPO):
☐ \$5 extra surface ☐ \$25 extra airmail

What is USOF?

Often in this newsletter, or in orienteering conversation, you will hear references to "yousoff," and you may have seen the magazine "Orienteering/North America." But why do they need so much money, you ask? We charge \$10/year for local dues, so why should it cost an extra \$25 to join an organization that doesn't seem to do much? The answer, of course, is that USOF does quite a bit.

The largest part of USOF dues goes for the O/NA subscription. This is not only a great source of information, it is well written and edited, and has many articles of general interest on health, exercise, and training. From time to time, we reprint articles from O/NA, and there are always copies available at major meets and club meetings. Most of the rest of USOF dues goes to pay for insurance. Although we, as individuals, might be willing to waive insurance, virtually all land owners, both public and private, require insurance as a precondition even to talking about using their land for orienteering. USOF members get a small rebate, about \$2 per national meet, to help balance out the insurance, but, basically, USOF subsidizes our meets. Without USOF, I doubt that either Cascade or Sammamish could afford the insurance to hold another meet.

So we encourage you not only to join your local club, but to join and support USOF. The magazine along is worth the cost. You will also find as many opportunities to serve on national committees as there are to serve locally. USOF, like our local clubs, has no paid employees, and does not pay travel or per diem expenses for its officers. USOF, like Cascade, is an IRS section 501c(3) corporation. Which means that donations, including out-of-pocket costs in help our are fully tax deductible. JOIN NOW!

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