



Tucson Orienteering Club

January, 1993

It's Back to Greasewood on January 17

Not as Tricky as Last Year, but It Should Still Be Interesting

Come start your new orienteering year with us on January 17 at Greasewood Park. Roger and Sue will again try to come up with something interesting for everyone, although as usual the emphasis will be on Basic and Intermediate courses. This will be a great meet to introduce your friends to orienteering. The wide open deserts and rolling terrain are ideal for beginners and those who want to work on technique.

There will be three courses. A normal Basic course for first-time orienteers. A Score-O variation with different time limits for different levels of orienteers (probably a Poker-O, but if we get a better idea we'll use that), and a Star-O (a memory-O variation) for intermediate and advanced orienteers. (See notes on page 3, describing the Poker-O and the Star-O.) You can run any combination of courses, but if you want to run both the Star-O and the Score-O, we request that you run the Star-O first.

Meet directors are Greg and Carol Starr. To volunteer or for more information call Greg or Carol at 743-7052. If you don't call us, we will call you.

Details and Directions are given on p. 3.

Tucson Orienteering Club Calendar

January 14	Business Meeting	1229 E. 13th St
January 17	TOC Meet	Greasewood Park
February 21	TOC Meet	Cat Mountain
March 6	The Arizona ROGAINE	Tortillita Mountains

What is Orienteering? In orienteering you use a map and compass to find your way across unfamiliar terrain. In a typical meet, the organizer places orange and white control markers at various land features found on your map. These markers act as checkpoints along the course. The object of the sport is to use the map and compass to locate the control markers and return to finish. Using your imagination and navigational skills, you try to select the best route to each control. *Rewards:* the best route may not be the direct route. Once there, you punch a score card which verifies that you found the control. There are many versions of orienteering (on foot, bicycle, or skis; at night; in relays) but the idea is essentially the same; the use of a map and compass to find your way across unfamiliar terrain.

What is Tucson Orienteering Club? TOC is a non-profit organization chartered by the United States Orienteering Federation (USOF) and the International Orienteering Federation (IOF). The club holds a dozen or so meets a year, including a ROGAINE, an 8-hour event held each Spring. Membership is open to everyone and includes a subscription to the newsletter and discounted entry fees at meets.

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. (You can rent one from the club for \$1. per meet until you buy your own.) The club will supply a map of the area. There is an entry fee. Running shoes or lightweight hiking boots are recommended (depending on the terrain) and old clothes (long pants or gaiters and long-sleeved shirts are recommended.) Wear a watch, since there is always a time deadline. Also, you may want to carry a water bottle. Water is always available on the course, but it never hurts to have some of your own on a hot day.

How do I get more information? Call someone. For general information about orienteering, call the Publicity Chairmen Peg Davis. Her number is always listed in the newsletter. If you have a specific question about the upcoming meet, call the meet director.

Can I bring my kids, scout troop, etc. to the meet? Sure. You will be required to sign a waiver form for any minors that participate in the meet. If you do expect to bring a group, call the meet director and let us know you're coming en masse.

Greasewood Park, Sunday, January 17, 1993

9:30 AM	Registration opens
9:30 AM	Beginners' clinics start. They can be repeated upon request for those who would like a brief introduction to using a map and compass.
10:00 AM	Courses open
noon	Last start time for the courses
2:00 PM	Courses close. Everyone must check in at the Start/Finish table. Anyone still on the courses will be forever looking for that last control.
2:00 PM	Control retrieval gets underway. Any and all volunteers will be put to work.

Cost: \$4.00 U.S. dollars for individuals; \$6.00 for each team; \$1.00 discount for TOC and SAHC members. Compass rental is \$1.00. Safety whistles can be purchased for \$1.00.

Directions: The park is on Greasewood Road just south of Speedway Blvd.

Course notes:

Basic Course: There will be a normal Basic Course that will be suitable for even the most timid first-timers. There will be 6-8 controls in a 1-2 km loop. We encourage anyone doing the Basic course to also try the Score-O.

Score-O: In a Score-O the object is to punch as many controls as possible in a given time. There is no prescribed route. You are given the locations of a large number (15-20) of controls, and you choose which ones to visit, and in what order. Strategy is important. You must determine the best route between controls and know how much ground you can cover accurately in the allotted time. If two entrants finish with the same number of points, the one taking the least time will be placed first. A single score-O course can be used for all levels of Orienteers since you can choose to skip controls in difficult-to-find locations.

Poker-O: (tentative) Like a Score-O, but in a poker-O, each control has an associated playing card. You can visit as many controls as you wish but may only punch five. These five punches correspond to your "hand". The highest hand wins. Ties are broken by order of finish.

Star-O: Participants on the Star-O will not have a map. You will have a control card with the control description and control code letters. Map(s) will be posted at the start with control locations marked on them. Participants may not study the map before their start time. You will need to remember where controls are and how to find them. You may re-visit the start as many times as necessary to restudy the map. You may not write down directions, distances, etc. There will be around 8 controls on this course.

Bajada Loop Results - by Jim Wood

Few places in the desert are more striking than Bajada Loop in Saguaro National Monument West. And the weather for our meet there on December 20th was perfect: clear and crisp. Eighty people ran the courses. To avoid parking problems, we had asked people to park at the corner of Picture Rocks and Sendarlo roads and carpool to the site. The system seemed to work. Although lots of cars still showed up at the Monument, about ten parked at the remote spot. If they hadn't, I don't know where we could have put them.

The runners reported afterwards that the courses were challenging and lots of fun, with mercifully little elevation change. The only problems were the chollas (several runners who wore shorts came back with badly scratched legs) and one misplaced control. I'm told that around eleven o'clock, ten runners were diligently scouring the same re-entrant for intermediate control #6.

Those who helped run the meet included well-known members of the club as well as some new faces. Bobbi Renner worked the registration table and Thorsten Graeve did registration and gathered controls. Several people took turns at the timing table, including Mary English, Roger Sperline, and the Catalina Javelins. Many thanks to these folks, as well as to John Maier, Scott Hill and Keith McLeod, who collected controls, and to Mark Romero, who volunteered to do anything. Thanks to Mary English for her scrupulous attention to the equipment, and to Sue Roberts and Peg Davis for the advice they provided beforehand.

Above all, thanks to Pat Penn, who not only set the courses, but also transported the equipment, helped to set and clean up, and ran the timing table most of the day.

Beetle Course:

1T HNG 17:55

Recreational Entries: Us (B),
Bunnies (B,I), Bobbi Renner (B),
TM's (I), The Cranes (I),
The Staples (I), the Wendees (I),
Jean Zimmerman (I), Thunderbolts (I),
Antelopes (I), Glenn Hutchison (I),
Sue Roberts (I), D&D (A).

Advanced Course:

1M	John Maier	52:20
2M	Dan Cobbledick	65:42
3M	Roger Sperline	73:12
4M	Thorsten Graeve	75:42
5M	Peter Snell	77:38
6M	Scott Hill	106:50
7M	Pete Cowgill	114:02
1W	Rachel Gelbin	115:55
1T	Team Shortcut	118:16
8M	Dale Cole	123:30
2W	Mikl Snell	145:04

results continued on p. 5

Bajada Loop Results (Continued from p. 4)

Intermediate Course:

1W	Marilyn Cleavinger	75:16
1M	Keith McLeod	78:00
2W	Elizabeth Weintraub	97:55
2M	Wilkey Richardson	105:35
3M	Kelly Cook	106:20
4M	Bud Farmer	110:21
3W	Marley Beard	116:30
4W	Robin Staples	125:10
1T	M & M	132:55
5M	Alex Harrison	133:49
2T	Hoffelump Hunters	135:54
3T	Catalina Javalinas	136:10
4T	The Heads	137:45
5T	Three Blind Mice	155:31
6M	Mark Romero	166:35
7M	Dave Hust	172:35
6T	The Roadrunners	189:50
7T	Green Behind the Ears	244:00

Note: Control #6 on the Intermediate Course was misplaced. Some runners spent a lot of time looking for it, hence the strange times on this course. For scoring purposes, all runners were considered to have punched Control #6.

Orienteers do the Craziest Things (Helen's Travel Update) by Peg Davis

Some of you may be wondering where Helen Deluga is. We haven't seen her around lately because she decided the time had come to make the trip of a lifetime. She sold her house, quit her job, and (in October) jumped on a plane to Malaysia. Good outdoors woman that she is, she visited various national parks to see various animals and ecosystems. The next stop was Thailand and more natural beauty. She reported no difficulty adjusting to a free schedule and no work, and enjoyed the wide range of people she met along the way.

Nepal was the next destination; she trekked around Annapurna in 16 days with a woman from England. The 17,000 foot pass was reported to be harder than orienteering on Mt. Lemmon - and colder. The next stop was a national park in the south of Nepal in a much more jungle-like climate. This park features rhinos, tigers, and bears. Out on the first day, they glimpsed a bear and Helen declared - Gee, I'd like to see one up closer. And the next day she did. While hiking along a trail, she and her two companions stumbled right on a 5 foot bear with a cub. The first hiker immediately turned and ran back, the third hiker was far
continued on p. 6

OCAD - First Trial Map - by Roger Sperling

TOC has received a copy of OCAD(tm), the orienteering-map computer aided design program from Hans Steinegger. Our first use of this program is to redraw the Cat Mountain map, which is now complete. The Greasewood Park map for the January Meet has also been entered into OCAD. In order to sharpen up the contours (and remove the permanent markers from the map). I spent about 20 hours on the Cat Mountain map, but about one third was in learning all the features of the program, and I wasted some time tracing more contours than we would ever use (too steep, or on private property). The Greasewood map is coming along much faster.

Here's a brief description of how the process works. With OCAD, a digitizing tablet is used instead of a mouse. The digitizer knows the absolute position of the crosshair at all times, so lines followed and distances measured on a paper map (or photograph) are registered in the computer and on the screen. The computer's map image can be rescaled, appended, corrected, saved, etc., before printing out a new paper copy. Many different line types and area shadings are available to represent roads, vegetation, rocks, etc., according to the mapping standards of the International Orienteering Federation. (If we ever put on a USOF sanctioned event, we will need to use IOF standard mapping.)

An IOF map is printed in five colors, with contours in brown, roads, trails, etc. in black, water features in blue, and vegetation in orange and green. Several thousand maps must be printed in a batch to make the per copy cost reasonable, and TOC cannot afford that. We can, however, tell OCAD to make all the lines and shadings black or gray, and use photocopies as before. You will notice two differences from the older maps TOC has been using.

First, all the lines will be sharp and distinct, although narrower than before. The older maps were often based on greatly enlarged copies of the USGS Quadrangles, and have been copied and recopied many times. I have produced one map by the old methods and appreciate more and more the work previous TOC mappers have put in. Their invaluable field-checked additions will be added to the final OCAD maps directly from the old TOC maps.

Second, new IOF symbols will be slowly introduced. On black and white OCAD maps, however, we will need do some substitution of symbols to reduce confusion. A little gray dotting and shading will be used to indicate vegetation and sand areas. You will have to learn the indication of a dirt bank - it will look like a cliff area - which indicates a dangerously steep incline (or maybe vertical caliche).

We may be able to develop full color maps for selected events and locations. The tentative plan is to color-photocopy the color-laserprinter originals and charge Meet attendees a little extra to cover the copying. These will be much like the nice color Fort Huachuca maps you may have seen TOC use. An example may be available at Greasewood Park.

continued on p. 8

Bill Shannon's Intensive Wilderness Mapping Camp 1992

by John Maier

I was fortunate to have TOC subsidize my expenses for enrolling in Bill Shannon's 8th annual mapping seminar/workshop last Nov. 13-16 held at the Taconic Outdoor Education Center about an hour's drive north of New York City. Bill Shannon and J-J Cote were the instructors, bringing a wealth of experience to this mapping camp. Since there were just nine students, we received a lot of personalized attention. Fahnestock State Park is the site of an existing 5-color "O" map called "Moneyhole Mountain", made to IOF (International Orienteering Federation) specifications, the standard to which all quality orienteering maps should conform. Due to the intensity of instruction--some sessions lasting until 10 PM-- we didn't have time to look for the fabled moneyhole and in fact the instructors steered clear of that subject altogether. But they did cover just about everything else you can imagine needing to know plus a few other things that are also necessary for a successful mapping project. The sessions led us from the initial planning stage (the longest and most important step to creating a successful map) through obtaining aerial photos, to producing basemaps, to field checking basemaps, to drafting from field notes, to designing and printing the final product. Everything was covered in considerable detail but the greatest emphasis and time was devoted to the field checking and drafting sessions. Being on an existing "O" map meant that we could compare our results with those of the original mapper (Pat Dunlavey) which I found useful as an additional form of feedback. Drafting sessions included both pen & ink drafting and computer drafting with O-CAD (the program TOC has recently purchased). I don't think anyone came away from this mapping camp without feeling it was a wise investment of time and money. I strongly recommend this wilderness mapping camp to anyone with an interest towards producing quality "O" maps. I may even go back myself sometime -- to look for the moneyhole, of course.

Unfortunately, no one else accepted TOC's offer to subsidize expenses of this mapping camp. It's wiser for the club to invest in itself than to hire outsiders to come in and do the work for us. Much better to pay our own members to map than to put that money into other pockets. The more mapping we do ourselves, the more experience we gain, and the better will be our end result--namely, good quality maps. With this objective in mind and to begin repaying the club's investment, I will set up some mapping clinics this spring to pass along as much as I can of what I gained from the mapping camp. This is by no means a substitute for taking the camp, but rather a compromise between attending it and nothing at all. My emphasis will be on field checking for this is where the greatest (wo)manpower is needed. Field exercises will be held in Redington Pass which is close to Tucson. Watch for details in upcoming club newsletters. You might also let me know if you are interested as it will help me in choosing dates for these sessions. John Maier (586-7300, Benson)

O-CAD (Continued from p. 6)

OCAD will allow the integration of field-checked features now shown the TOC maps, aerial photographic information, and any new features requiring changes. Editing of the electronic map files is almost trivial. As an example, the heaviest vegetation at Cat Mountain has been shaded in from a 1988 aerial photo of the area, and all the roads and trails showing on that photo have been traced in. If any have since changed, the features can be retraced into the computer from notes pencilled in on a paper copy of the previous OCAD map.

Is anyone interested in a demonstration session? Do you have an opinion on which of TOC's existing maps could most benefit from a make-over? Tell your favorite TOC officer or come to a Business Meeting and give us your two cents worth.

Helen's Travel Update (Continued from p. 5)

enough back to see what was happening and bolt, and Helen, our Helen, was the second hiker. She ran behind a tree, the bear charged 20 feet to get to her - and bit her right in the leg. Helen thinks the bear was probably as scared as the hikers (who were all yelling at this point) because it ran off. The bear's teeth broke her fibula and dented the tibia. Since the fibula is not a weight-bearing bone she was able to walk out of the park and get back to Katmandu where she received excellent medical care. She feels she was quite lucky to get away so unscathed; the sloth bear is famous for its long claws and tendency to go for people's faces. After about a week, she realized that it would be too hard to recover in Nepal, so she flew back to her parents' house in Indiana to recuperate. However, she plans on flying back to Asia in January to continue her trip around the world. Also, we'd like to see if she can come up with any stories to top this one.

So next time it seems to hard to find that control, remember, at least you don't need to worry about sloth bears.

Next Business Meeting Thursday, January 14. The next business meeting will be held on Thursday, January 14 at Peg Davis', 1229 E. 13th. Take Highland (one stop light west of Campbell) south from Broadway and turn East on 13th. Look for the fish on the mailbox. The meeting will begin at 7:00. Potluck at 8:30

Newsletter Deadlines: Please get material for the February newsletter to me by January 20. If you can't make this deadline, please let me know by that date that an article will be forthcoming. (Call me at 577-8519.) Announcements of events held before March 12 should appear in the February newsletter. Contributors to the January issue are Jim Wood, Greg & Carol Starr, John Maier, Roger Sperline, Peg Davis, and Alex Harrison.

The 1993 Arizona ROGAINE

The third annual Arizona ROGAINE will be held Saturday, March 6, 1993 northwest of Tucson in the Tortillita Mountains. John Little will scattered controls over a 25 square km. area. While most controls will be of intermediate technical difficulty, John plans to tempt the daring with a few advanced bags. (A ROGAINE is a giant Score-O. There will be an 8-hour time limit for this event.) The site is low desert range, around 4000 feet elevation, with complex, very interesting features; rugged but open. We will have free on-site camping on Friday night featuring the usual Arizona amenities - none. All entries must be teams (2 or more people, categories for men, women, and mixed teams) Preregistration is required. (A registration form will be included in the next newsletter.)

Phoenix-O Schedule for Spring 1993

- Jan 10 POC Meet at Dreamy Draw (Near 16th St and Northern Ave.) Basic and Intermediate courses. Rugged desert terrain with 4', 5', and 8' tunnels under 16th street which passes through the park.
- Feb 7 POC map hike in Superior/Globe area.
- Mar 7 POC Meet near Saguaro Lake. Basic and Intermediate Courses.
- Apr 3 POC map and compass climc at Papago Park in Phoenix. Papago Park contains a permanent orienteering course in the park.

For more information, call Alex Harrison (602) 985-7844

TOC OFFICERS

President:	Pat Penn	328-2339
Vice-President:	Scott Hill	298-4178
Secretary/Treasurer:	Laurie Fellows	790-3652
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Address Correction Requested

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MEMBERSHIP FORM

Check One: New Member Renewal
Date on Mailing Label _____

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Check One: Individual \$8.00
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Members receive a monthly newsletter, have voting privileges, and receive a \$1.00 discount per major meet. Make checks payable to: Tucson Orienteering Club, and send to P.O.Box 13012, Tucson, AZ, 85732.



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BODY \$8.