

ORIENTEERING WORLD



Ski-O Feature

The Latest on TWAR

World Cup Perspective



1993 NO. 1 JANUARY

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*Jörgen Mårtensson
World Champion*

ORIENTEERING WORLD

OFFICIAL JOURNAL OF THE
INTERNATIONAL ORIENTEERING FEDERATION



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NOTES FOR CONTRIBUTORS

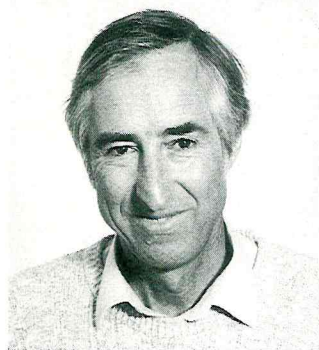
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93/2	15 March	22 February
93/3	mid-May	26 April
93/4	10 July	19 June
93/5	30 September	6 September
93/6	30 November	8 November

COVER PHOTO: Victor Korchagin, Russia - winner in Syktyvkar
photo: Ivan Kuzmin

Editorial

Clive Allen



Welcome to the new-look *Orienteering World*! The way this issue looks is the result of a somewhat hurried introduction to the art (or science?) of Desk-Top Publishing along with an unfamiliar computer system, so you should be able to look forward to improvements in layout and style in future issues. Content also will become, I hope, more representative of

the O-world as a whole, but this depends a lot on you, the readers, sending me interesting news and telling me of good writers and the topics you would like to see included.

The quality of the contents is of course what sells magazines, but another factor in *OW*'s case is accessibility, i.e. how easy it is to buy and subscribe to. In quite a number of our O-nations, even ones where there are many people who can understand English, there are very few readers, and a local agent taking subscriptions in the local currency and working with a small commission would improve the situation enormously. If your country has no agent and you are interested, please let me know, or contact the Secretariat.

Enough of the sales talk! I would like to take a line or two

to pay tribute to the splendid work Peter Gehrmann has done over the past five years as *OW* Editor. It is interesting to look back at issue 1987/2, the last A5 IOF Bulletin, and 1987/3 produced by Peter. What a transformation! And the magazine has gone on from strength to strength. As one of Peter's far-flung 'staff' I always found Peter fun to work with - someone with endless energy and a strong sense of 'mission'. The last issue 92/3-4 must have been a mammoth task. Thanks for all your efforts Peter - you are a hard act to follow!

In his Secretary General's Perspective, Lennart Levin comments on complaints received about the style of an article in the last issue. I am sensitive to this, but on this occasion I think it is fair that the other point of view is allowed to be given with equal

passion. To me *OW* should be 'punchy but positive', not afraid to air the issues of the day and doing so in a well-informed and open manner. Letters for publication written in this spirit are very welcome.

This issue features ski-orienteering, which is far better placed than foot-orienteering to gain a place in the Olympic Games. The IOF Ski-O Committee is committed to achieving this in 2002, and has recently produced a detailed Action Plan towards this end. First and foremost there must be more national ski-O teams, and this implies more knowledge around the world about what ski-O actually is. If you, the reader, can show this issue to members of your local ski-club, perhaps it will sow a seed somewhere which will grow into a new little ski-O plant. Try it!

ORIENTEERING IN IRELAND

COMBINE 3 DAYS OF CHALLENGING ORIENTEERING ON THE UNIQUE COMPLEX TERRAIN OF SOUTH WEST IRELAND WITH THE FRIENDLY HOSPITALITY AND NIGHT TIME RELAXATION OR CÉILI FOR WHICH THE AREA IS FAMOUS

THE 1993

SHAMROCK O-RINGEN



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FRIDAY - SUNDAY, JUNE 25 - 27

EVENTS

DAY 1 Evening, 70% distances (sprint-O)
DAY 2 Classic Event (M21E 70 mins.)
DAY 3 Chasing Start for all classes
All maps - 1:15,000, 5m from photogrammetry

APPROX. TRAVEL TIMES

Rosslare - Cork	3 hours
Dublin - Cork	4 hours
Belfast - Cork	6 hours
Cork - West Cork	1 hour

Contact: Bernard and Margaret Creedon, Mount Prospect, Douglas, Co. Cork, Ireland. Tel. +353 21 361824, fax +353 21 361825.

CÉAD MÍLE Fáilte
OR

A HUNDRED THOUSAND WELCOMES TO THE BEAUTIFUL
SOUTHWEST OF IRELAND

AROUND THE WORLD

IOF Family grows to 41

Subject to confirmation by the IOF Council at its mid-January meeting, the IOF has two new members replacing one old one. At the New Year, Czechoslovakia split into 2 separate independent states and the O-federations followed suit, so our new members are the **Czech Orienteering Federation** and **The Slovak Orienteering Association**. Presidents of the two new federations are, respectively, Petr Klimpl and Ján Mizúr. Addresses are: Czech Orienteering Federation, PS 40, Mezi stadiony, 160 17 Praha 6, Czech Republic, and The Slovak Orienteering Association, Junácka 6, 832 80 Bratislava, Slovak Republic. Welcome!

Peter Palmer retires

Well-known internationally for his books on coaching juniors, **Peter Palmer** retired from the post of Director of Coaching of the British Orienteering Federation at the end of October last year. For the past two years, along with his wife Marlene and elite-runner son Stephen, he has been in charge of the part of the O-Ringen clinic covering coaching technique, and recently he organised a course on coaching at club level in Bulgaria.

Peter has been at the heart of a major growth in activity on the coaching scene in the UK., leading to improved results at international level and a much broader base of promising young orienteers.

His post has been taken over by **Derek Allison**, formerly Development Officer in the Scottish Orienteering Association.

K.Swiss sponsor USOF

A 5-year contract has been signed between the United States Orienteering Federation and the footwear firm K.Swiss which provides for sponsorship of USOF and some of its top events as well as the U.S. elite team. K.Swiss designs, produces and sells athletic footwear for demanding sports and fitness activities and is planning to develop a new range of all-terrain sports shoes. Top orienteers will test and promote the new designs.



New President for O-ringen

O-ringen, the group of Swedish elite orienteers which works to support orienteering development world-wide through activities such as distributing compasses, collected at the Swedish 5-Days, to countries where compasses are hard or expensive to obtain, elected a new President at its annual meeting at the beginning of December. He is Björn Stenberg, a former Secretary of O-ringen

who was a member of the Swedish team in the World Championships in France in 1987.

O-ringen will again be inviting representatives from all IOF nations to attend the annual clinics (one for elite runners, the other for coaches) held in the days immediately preceding the 5-Days. This year the venue is Halmstad in SW Sweden. The coaches' clinic work be based on the theme of provision for those in the age group 15 to 19 - enjoyment, coaching, appropriate course planning, competition structure, retention in the sport etc.

The clinic package includes accommodation and all food, entry to the 5-Days and transport to the events. Evening sessions include route post-mortems run by top-elite Swedes and there is of course a unique chance to meet orienteers from many different lands. All in all, excellent value! Many Federations have not been represented in previous years, so it is worth checking with your Federation's national office if you are interested in attending.

Tragedy mars Hungarian Championships

The cold and wet mid-October weather was matched by the mood of the competitors in the Hungarian Championships when it became known that three of the five passengers in a car travelling to the event were killed instantly when the car was in head-on collision with a large vehicle travelling on the wrong side of the road. The three killed were Éva Köpfler, 17, Csaba Illés, 20 and György Schönviszky, 23.

Csaba Illés was a member of the Hungarian senior national team, while György Schönviszky had won a night championship event as a junior. One man escaped completely uninjured - György Pavlovics, younger brother of the Hungarian champion Gábor Pavlovics.

Regnly Loss

Per-Aage Stockseth, one half of the Regnly partnership well-known in orienteering for making club tents and timing devices, was tragically killed in a car accident in Norway just before Christmas. Latest news is that Regnly will continue in business, but Per-Aage's death is a big set-back for their pioneering work on a new punching system which is described elsewhere in this issue.

WOC '93 Souvenir Poster

An attractive red poster arrived in the *Orienteering World* office a few days ago, showing the quilt squares made by clubs all over the USA as a contribution to the USOF money-raising efforts for the World Championships. It will look as good on your wall as it does on ours! Good value for a present or an O-event prize. Price USD6 including overseas postage, from SM & L Berman Pub. Co., 23 Fayette Street, Cambridge, MA 02139, USA.

The next issue of *OW* will include details of opportunities for spectators at what promises to be an exciting World Championships week in October.

Weather hits Irish Events

Two major events in close succession - the second day of the Irish 2-Days and the UK. National Event in Northern Ireland - were hit by exceptionally bad weather in November. Both events were to be held on open mountainside, but lashing rain and gale-force winds forced abandonment at the last moment in both cases. Many runners had travelled over from mainland Britain specially for the latter competition, although they were able to run in a relay event the following day.

Progress in South Africa

The first South African multi-day event is reported elsewhere in this issue; South Africa's first permanent courses have been set up in recent months with the help of sponsorship from the mining company Genmin. Delta Park near Johannesburg, the site of SAOF's first event in 1982, has a cross-country O-course and a score course, the latter connected with a natural history walk. The work was undertaken by the Delta Environmental Centre and Kudus OC, Johannesburg.

Why isn't....?

Why isn't that recent earth-shattering news from my country here? Because the Editor hasn't heard about it, that's why! This column aims to give a balance of news from all around the world, so if something really interesting has occurred in your neck of the woods, do let me know! I would like to hear also about people in the news, anniversaries and special celebrations, and so on.

Friends in Sport

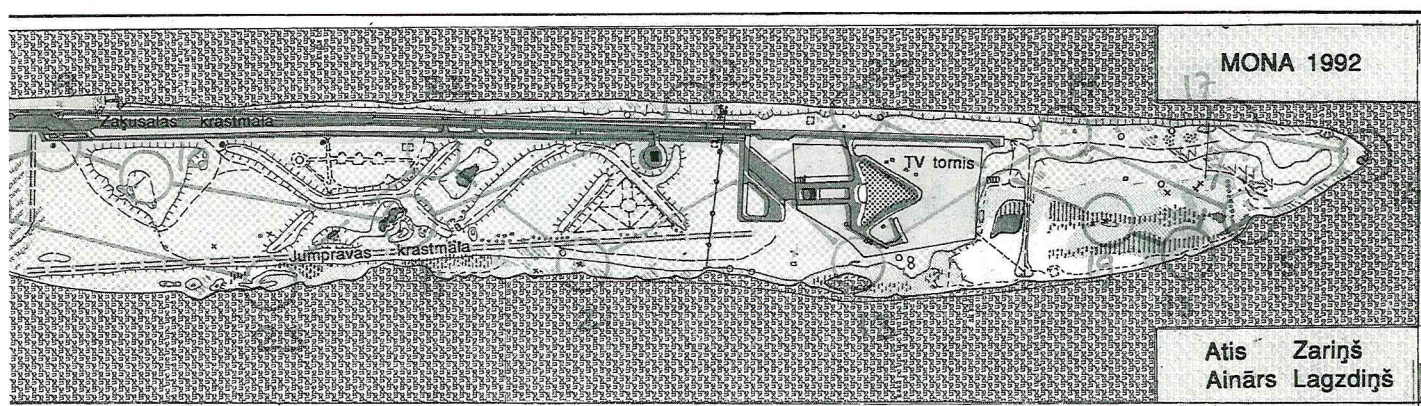
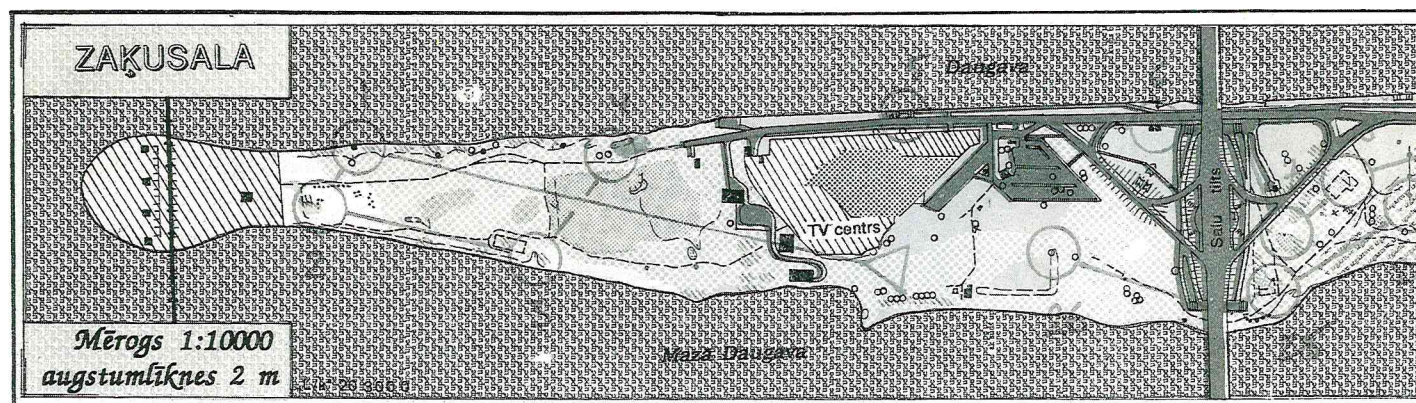


At the recent annual meeting of the Swedish sports fraternity 'Riksidrottens Vänner' (Friends of Sport) there was a surprisingly big gathering of orienteers. From left to right Bengt Saltin, IOF President 1982-88; Erik Tobe, IOF President 1961-1975; Bertil Nordenfelt (89), one of the founding fathers of the Swedish Orienteering Federation and M85 Champion at last year's Veteran World Cup in Tasmania; Björn Kjellström, founder of SILVA/USA and SILVA/Canada, IOF benefactor, Honorary President of the 1993 WOC Booster Club; Lennart Levin, current IOF Secretary.

The longest, thinnest O-map in the world??...

Until recently I thought this tag might be shared between the map of Beare Island, off the Southern coast of Ireland - certainly the largest map I've ever used in a competition - and the map of Central Park, New York, a very special map in a number of ways. Then I received the map of Zakusala, the island in the centre of Riga, in Latvia; this map measures 37.5 cm x 5 cm at 1:10,000! As a means of publicising orienteering locally, a 'Zakusala Trophy' event is organised annually.

Is this the longest, thinnest O-map? Or does someone out there do better??...I will also be interested to receive suggestions for the smallest O-map.



Zakusala O-map, Riga, Latvia

The Sudden Unexpected Deaths in Sweden: some Facts and Theories

Finn Johannsen, Doctor to the Danish National Team, gives the latest information available on this topic which has hit news headlines right across the world. Later issues this year will bring results of the research under way in Sweden and further guidance to orienteers on how they should train.

What is TWAR?

During the last three years 7 orienteers (6 men, 1 woman) aged 15-30 years have died suddenly and unexpectedly in Sweden. Unfortunately, blood samples exist from only five of them. These five all had an on-going TWAR infection. TWAR (TaiWan Acute Respiratory disease) is a bacteria named Chlamydia pneumoniae. It had not been identified before the eighties, but we now know that it is a common cause of many air-way infections. Scientific investigations make us believe that the whole population has a TWAR infection at least once in a lifetime. Although the TWAR infection is very common, it cannot be just coincidence that all these five Swedish orienteers had this infection at the time of death.

Big Investigation Programme in Scandinavia

The Swedish government has offered 6 million Swedish Kroner for further investigations into these tragic deaths of young sportsmen. This might sound a lot, but is actually too little to cover the investigation programme set up at Uppsala University in Sweden: 250 top elite runners are having their hearts tested in all possible ways, in the hope that a method can be found to distinguish healthy from unhealthy runners. The Swedish doctors have recommended a total halt to training for these runners until these investigations are concluded - a report is expected in late January. A further 3000 elite runners are being blood-tested for TWAR infections.

In Denmark and Finland the national teams have been blood-tested, and the results are re-assuring. In Norway, blood tests and heart examinations are being done throughout this winter. What is common between Denmark, Finland and Norway is that training continues unchanged, except that training must be stopped in the case of infection. This is not a new recommendation, but the Swedish casualties make it important to emphasise this again, not only to Scandinavian runners but to runners all over the world.

Orienteering is not dangerous!

A lot of theories exist as to why it is only Swedish elite orienteers who have been killed by this bacteria, but it is important to hold on to the facts:

- the term 'elite' in this case is very broad, including all runners who train more than a few times per week,
- TWAR is a common cause of respiratory infections all over the world. Only two scientifically proved cases of TWAR causing myocarditis (heart failure) are known until now;

- no other bacteria or virus has been found to be a competitive cause of death for the Swedish casualties;

- we do not know of any animal hosts (e.g. ticks) of TWAR; and this kind of source seems unlikely since non-orienteers have the same degree of infection as orienteers.

In a big American investigation it was found that heart diseases were the cause of sudden unexpected death in 1-2 young sportsmen per 200,000 sportsmen per year. In every country many young men die suddenly and unexpectedly every year of unknown causes (in Denmark it is 5-10 per year). Maybe TWAR is the explanation for some of these casualties all over the world, and maybe it is pure coincidence that TWAR has been found primarily in orienteers.

Until we know more we must conclude that orienteering is **not** dangerous, and that travelling to Sweden to participate in orienteering is not dangerous either. Hopefully, the Swedish investigations will soon give us some answers.

(Findings to be published if available in OW 93/2 - Ed.)

SKI-O WORLD CUP ROUNDS 1 & 2 - RESULTS

ROUND 1 - MEN

1. Vidar Benjaminsen, NOR	83-37
2. Raino Pesu, FIN	84-22
3. Markku Järvinen, FIN	85-24

ROUND 1 - WOMEN

1. Riitta Kariainen, FIN	62-14
2. Arja Nuolijoa, FIN	63-35
3. Hilde G. Pedersen, NOR	64-17

ROUND 2 - MEN

1. Vidar Benjaminsen, NOR	40-34
2. Lars Lystad, NOR	40-56
3. Bertil Nordqvist, SWE	41-41

ROUND 2 - WOMEN

1. Riitta Kariainen, FIN	33-37
2= Erica Johansson, SWE	35-03
Hilde G. Pedersen, NOR	35-03

CUMULATIVE POINTS - MEN

1. Vidar Benjaminsen, NOR	80
2. Raino Pesu, FIN	70
3. Lars Lystad, NOR	64

CUMULATIVE POINTS - WOMEN

1. Riitta Kariainen, FIN	80
2. Hilde G. Pedersen, NOR	72
3. Arja Nuolijoa, FIN	70



CompassSport ...

is the national orienteering magazine from Britain but is read in more than 30 countries.

Like *Orienteering World* it is published 6 times a year.

In 1993/no 1 (February) you can read a major profile of Yvette Hague, ranked no 2 in the world, and a report from the 1992 Radio Direction Finding (= radio orienteering) world championships in Hungary. Also many other articles on all aspects of orienteering.

CompassSport costs £15 per year (£20 airmail outside Europe) and you can order 1, 2 or 3 years at this price. Pay in GB Pounds or by VISA or MASTERCARD to:

CompassSport, 25 The Hermitage, Eliot Hill, London SE13 7EH, England

Orienteering World *Ski-O Feature*

The 1993 Ski-O World Cup

An over-view from **Veli-Markku Kortenieniemi**, Finland, a member of the IOF Ski-O Committee.

The 1993 World Cup in Ski-orienteering consists of eight events, four organised in central Europe and the other four in Scandinavia. The Final will be held in conjunction with the International Holmenkollen Ski Festival in Oslo. There will be five short and three long distance events; the individual and a relay event in Italy will at the same time be the pre-WOC of the 1994 World Championships.

Each competitor's five best results out of the total of eight events count for his total score in the World Cup.



Annika Zell - her year?

First Round in Czechoslovakia

The first two World Cup events were held in Czechoslovakia from 8-9 January, in the Jizerka mountains 100km NE of Prague at an altitude of 700-900 metres. A long distance event (men's course - 21.5km, wom-

en's - 14.5km) opened the series, with the short distance race (12km/9.5km) the following day. An unofficial relay event followed, at the wish of the competitors, but without any points being scored.

Austria and Italy

25 January is the date set for Event 3, organised in Austria by HSV Kremstel OL in Windischgarstner Tal, 240km SW of Vienna. This is a short



Bo Engdahl - in contention distance event, but advance information suggested that the distances would be closer to medium distances. Then on 28 January the venue is Val di Non in the province of Trentino in Italy - distances 8.5km (men) and 6.0km (women). The pre-WOC relay event will be organised two days later.

Many ski-O enthusiasts from different countries are expected to take part in the international open competition held in Italy in conjunction with the World Cup event. After the pre-WOC, ski-orienteers may train using competition maps. According to advance information, several ski-orienteers will also take part in the famous long-distance cross-country event, Marcia Longa, on 31 January.

Tough Third Round starts in Sweden

Events 5 and 6 take place in Sundsvall and Timrå, Sweden. The long-distance race will be

organised by the local club Kovland IF on Saturday 6 March and the short distance race by Timrå SOK on the Sunday.

Both the Swedish events will be trying something new in ski-O organisation. The course allocation method will be used in the Kovland event; the event is organised in 3 legs and maps must be changed in the Finish area after each leg. Maps also have to be changed in the short distance event in Timrå. The organisers will be keen to get feedback from competitors after these competitions.

A Junior World Meet anticipating the first Junior-WOC in ski-O in 1994 in Finland will be held in conjunction with the World Cup event in Sweden.

World Cup Final at Holmenkollen

The last two World Cup events will be organised in Norway,



Anssi and Virpi Juutilainen

the host country of the 1996 Ski-O WOC. Event 7 will be held at Os, 15km S of Roros, on Tuesday 9 March; expected winning times are 95 minutes for men (23km) and 65 minutes for women (12km). The track network is described as very dense. The eighth event and the Final will be at the Holmenkollen competition centre on 11 March, organised by Lillomarka OL and 'Skiforenigen'. Expected winning times in this short distance event are 30-35 minutes (men) and 25-30 minutes (women). The World Cup event will be

held in conjunction with the Holmenkollen Ski Festival and ski-O is looking forward to a new record-size audience at Holmenkollen.

Room for new women champions

In the men's races, 1991 World Cup champion Anssi Juutilainen (Finland) can expect a strong challenge from Vidar Benjaminsen (Norway - 2 Gold medals in 1992 WOC), with Nicolo Corradini (Italy), Bo Engdahl (Sweden), Vesa Mäkipää (Finland) and Ivan Kuzmin (Russia) also in contention.

Arja Hannus (Sweden), winner of both the 1991 World Cup and 2 Golds in '92, is on maternity leave this season along with 1992 Silver medal winners Virpi Juutilainen and Mirja Ojanen, both from Finland. Perhaps this leaves the door open for such as Annika Zell (Sweden), second in the

1991 World Cup, or Riitta Karjalainen (Finland), to be this season's women's champion.

Launch of the Olympic Project

Ski-orienteering is seriously striving to become an Olympic sport. The IOF has launched a project with a clear goal - to include ski-O in the Olympic Programme in 2002. Rapid development of our sport, growth at international level and growth in the number of ski-orienteering nations will open the door to the Olympic Games.

The Second Annual Syktyvkar Ski-O Week

Ivan Kuzmin

describes one of the early highlights of the ski-O calendar.

For the second time in Syktyvkar, Russia, an international ski-O event for elite classes was organised, from 23-29 November 1992. Representatives from the British, Bulgarian, Estonian, Italian,

Syktyvkar is a town of 200,000 people situated 1350km. North-East of Moscow. It's a favourite place for skiers to come for reliable early-season snow; from the beginning of November there is always good snow. Snow conditions in Syktyvkar are comparable with those in Kiruna, Sweden. Syktyvkar hosted the cross-country ski World Cup races in 1985, and Raisa Smetanina, Vasilii Rotchev, Nina Rotcheva and

an excellent first-leg racer at both WOC '90 and '92.

The temperature on the sprint day was down to -18°C but it wasn't as dangerous as it could be in a place with high air humidity. Because of the continental climate, it is possible to hold competitions with the temperature as low as -24°C . As in 1991 the organisers succeeded in making an interesting track system, giving a good 'sprint feeling'. Pepa Miloucheva, who used to have problems with technically difficult courses, probably put more effort into the orienteering component of her training last summer, and won by nearly 2 minutes. The mens class was won by Victor Korchagin.

19 teams started in the womens' relay, which was won by the first Russian national team. In the mens relay, where 32 teams competed, a team from Ekaterinburg (Urals) came ahead of last year's winners, the Italian team.

All the races were organised by Syktyvkar Ski-O Club. Andrej Volkov (St. Petersburg) was course and track setter, whilst the mapmaker and race Director was Vladimir Golov, doing

a 'one-man-show' as is common in ski-O. Next year the organizers are planning the races from the ski stadium in the form of a one-man relay with loops and map exchanges (see article by Todd Nilsson). It is also proposed to move 'Mästarmöte' - the traditional ski-O competition between Finland, Norway and Sweden - to the 'neutral territory' of Syktyvkar so that ski-orienteers from Belorussia, Bulgaria, the Czech and Slovak republics, the Baltic states, Poland and Russia who cannot afford to travel to Scandinavia could come to Syktyvkar together with Scandinavian sportsmen. Such an event could get more publicity than just 'Mästarmöte' and that's what we need for world-wide ski-O!

For Scandinavian and Western European ski-O athletes it can cost a lot to travel to Syktyvkar, but low costs during the competitions (full accommodation + transport, USD29 per day per person, entry fee USD25 for all events) will make overall costs not much bigger than if you travel to the North of Finland or Norway.

Welcome to the 3rd annual Syktyvkar ski-O week!



Ivan Kuzmin - a contender for a World Cup medal in '93

Lithuanian, Belorussian and Russian national teams took part. Entries numbered 103 in H21E and 65 in D21E, showing that even in this difficult economic and political period Russia is still a big orienteering country!

Nikloai Bazukov, olympic champions in cross-country skiing, come from there.

The competition programme was similar to a World Championship: model event, classic distance, rest day, sprint, 3-leg relay. Bulgarian Pepa Miloucheva, 6th and 7th at WOC '92 and 6th in the '91 World Cup, won the womens' classic distance an impressive 4m. 28s. ahead of the Russian no. 1 Galina Plotnikova. The mens' race over 16.5km. with 13 controls was won by WOC '92 double bronze medallist Ivan Kuzmin of Russia. The previous year's winner, Italian Nicolo Corradini was 3rd, whilst second place was taken by Victor Korchagin of the Russian national ski-O team,



Arja Hannus - maternity leave



The Italian team in Syktyvkar

photos: Ivan Kuzmin

Ski-O Explained

Tord Nilsson, a member of the IOF Ski-O Committee, takes us through the types of event and some of the special requirements for a good competition.

Ski-orienteeing events comprise long-distance, short distance and relay; planned winning times are similar to those in foot-orienteeing, with distances ranging from 5k in women's short distance to up to 25k for men's long distance. In addition to the course distances and times taken, the different events differ in terms of orienteeing skills as well. In long-distance races, the distances between controls are long and the track network is usually not as dense and complex as for short-distance ski-O. It is essential to work out the differences in altitude and to choose the best tracks. In the dense track labyrinth of short-distance ski-O, the most decisive factors are the ability to read the map whilst skiing, and being able to ski the tracks selected without stopping too much. For relays, a combination of the two styles is suitable.

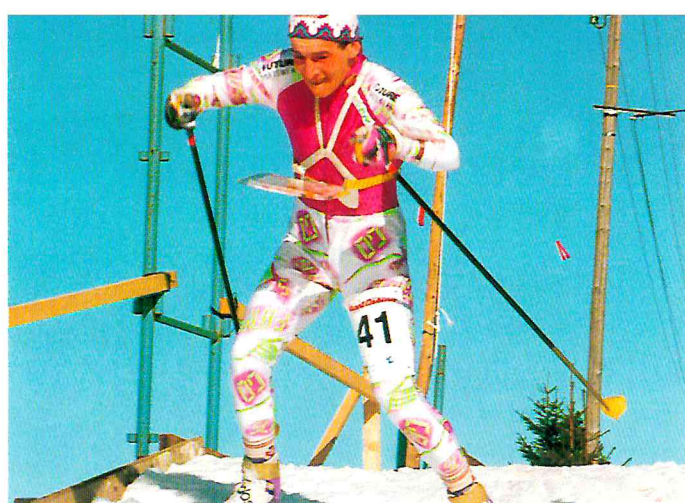
In **short-distance** the runners should have to make a choice between various tracks 2 to 8 times per minute, i.e. approximately every 5-30 seconds. If the runner hesitates, stopping at a junction and getting up speed again will in itself take 5 seconds. If this happens 10 times during the whole competition, the runner has lost 50 seconds!

Maps

Maps for ski-O nowadays use the scales 1:20,000, 1:15,000 and 1:10,000; the 1:20,000 scale is soon to be abandoned. Contour interval is usually 5m. The reduction in scale has made it possible to show dense track networks, including the correct shapes of junctions, more clearly. Foot-orienteeing maps can be used for ski-O if the dark green is left off (light green is OK).



Tension at the Start - the 1992 Ski-O World Championships in France



Ski-O is exhilarating when the sun shines!

Tracks

Tracks have, if possible, to be flat, i.e. without any profiled ski tracks pressed in the snow. This is achieved by running a ski-doo (snowmobile) round before the competition. The track network is printed in green on the map, using a continuous line for fast tracks, a broken line for good ones and a dotted line for narrow, winding and slow tracks and dangerous slopes.

Start and Finish Areas

Normally the start and finish areas are at the same place, on a sports ground or somewhere similar. It is recommended that for all kinds of courses there should be at least two or three loops where the runners, between loops, are visible to spectators and supporters. A group start (two or three runners starting simultaneously) or a mass start with forked courses is preferred to an individual start procedure.

There are many advantages with this kind of arrangement: a comparatively small competition area is needed, the competition is more exciting for spectators, media and runners, and with forked loops the leading runners have to 'make a track' for only a small part (and only on the first loop) of a course. Organisation is simplified, and not least, sponsors are given more exposure thanks to the runners' repeated return to the start/finish area.

One-man Relay

This idea is best shown by an example; the 1:10,000 summer O-map (see page 13) was used on the first day of the Swedish O-ringen event in 1991. The map shows a course set in 3 loops for H21E. It is a small competition area, maximum 2 sq. km., with a very dense track network. Track crossings are avoided; instead two junctions with three tracks are preferred - less risk of collisions and more orienteeing problems. There is a loop change-over and map exchange about every 12 to 15 minutes, with equipment and refreshment service available. Two radio and perhaps TV controls provide direct information to the finish area. With forked courses there can be 27 variants of the overall course. A mass start adds to the excitement, with the first runner home of course being the winner, but competitions with a couple or group (3-6 runners) start can also be made exciting with a good commentator.



Ski-O punching technique

WORLD CHAMPIONSHIPS IN SKI-ORIENTEERING, 1975 - 1992

INDIVIDUAL RESULTS - WOMEN

1975 - Hyvinkää, Finland

1. Sinikka Kukkonen, FIN 1.23.06 2. Agneta Månsson, SWE 1.23.53 3. Lena Samuelsson, SWE 1.24.03

1977 - Velingrad, Bulgaria

1. Marianne Bogestedt SWE 1.56.02 2. Sonja Johannesson, SWE 1.57.50 3. Sinnikka Kukkonen, FIN 1.57.54

1980 - Avesta, Sweden

1. Mirja Puhakka, FIN 1.16.28 2. Kaija Silvennoinen, FIN 1.17.22 3. Ann Larsson, SWE 1.19.28

1982 - Aigen, Austria

1. Arja Hannus, SWE 1.15.53 2. Mirja Puhakka, FIN 1.17.22 3. Sirpa Kukkonen, FI 1.18.34

1984 - Lavarone, Italy

1. Mirja Puhakka, FIN 1.23.29 2. Lena Isaksson, SWE 1.24.54 3. Ann Larsson, SWE 1.25.50

1986 - Batak, Bulgaria

1. Ragnhild Bratberg, NOR 1.13.59 2. Arja Hannus, SWE 1.18.02 3. Virpi Juutilainen, FIN 1.18.19

1988 - Kuopio, Finland

1. Virpi Juutilainen, FIN 1.00.48 2. Ragnhild Bratberg, NOR 1.01.24 3. Sirpa Kukkonen, FIN 1.03.08

1990 - Skellefteå, Sweden

1. Ragnhild Bratberg, NOR 1.11.35 2. Arja Hannus, SWE 1.12.23 3. Annika Zell, SWE 1.12.38

1992 - Pontarlier, France

1. Annika Zell, SWE 1.16.52 2. Mirja Ojanen, FIN 1.18.58 3. Arja Hannus, SWE 1.21.03

SHORT DISTANCE RESULTS - WOMEN

1988 - Kuopio, Finland

1. Ragnhild Bratberg, NOR 36.01 2. Virpi Juutilainen, FIN 37.29 3. Sirpa Kukkonen, FIN 37.38

1990 - Skellefteå, Sweden

1. Ragnhild Bratberg, NOR 34.06 2. Virpi Juutilainen, FIN 34.11 3. Arja Hannus, SWE 34.25

1992 - Pontarlier, France

1. Arja Hannus, SWE 28.38 2. Virpi Juutilainen, FIN 28.52 3. Annika Zell, SWE 29.46

INDIVIDUAL RESULTS - MEN

1975

1. Olavi Svanberg, FIN 1.49.19 2. Jorma Karvonen, FIN 1.51.06 3. Heimo Taskinen, FIN 1.52.57

1977

1. Örjan Svahn, SWE 2.17.53 2. Pekka Pökälä, FIN 2.23.27 3. Jorma Karvonen, FIN 2.24.17

1980

1. Pertti Tikka, FIN 1.39.22 2. Jan-Erik Thorn, SWE 1.40.16 3. Matti Väisänen, FIN 1.40.18

1982

1. Olavi Svanberg, FIN 1.39.58 2. Pertti Tikka, FIN 1.40.07 3. Sigurd Dæhli, NOR 1.43.15

1984

1. Anssi Juutilainen, FIN 1.45.14 2. Stefan Larsson, SWE 1.45.47 3. Pertti Tikka, FIN 1.48.30

1986

1. Claes Berglund, SWE 1.35.18 2. Anssi Juutilainen, FIN 1.36.41 3. Hannu Koponen, FIN 1.36.51

1988

1. Anssi Juutilainen, FIN 1.37.34 2. Hannu Koponen, FIN 1.38.44 3. Anders Björkman, SWE 1.38.47

1990

1. Anders Björkman, SWE 1.34.11 2. Stig Mattsson, SWE 1.37.57 3. Vidar Benjaminsen, NOR 1.38.01

1992

1. Vidar Benjaminsen, NOR 1.34.34 2. Vesa Mäkipää, FIN 1.34.48 3. Ivan Kuzmin, RUS 1.34.53

SHORT DISTANCE RESULTS - MEN

1988

1. Hannu Koponen, FIN 44.56 2. Vidar Benjaminsen, NOR 45.00 3. Anssi Juutilainen, FIN 45.01

1990

1. Anssi Juutilainen, FIN 37.05 2. Vidar Benjaminsen, NOR 38.12 3. Anders Björkman, SWE 38.59

1992

1. Vidar Benjaminsen, NOR 38.26 2. Vesa Mäkipää, FIN 39.18 3. Ivan Kuzmin, RUS 40.38

MEDALS STATISTICS - WOMEN

	CLASSIC			SHORT DISTANCE		
	G	S	B	G	S	B
FIN	4	3	4		3	1
SWE	3	5	5	1		2
NOR	2	1		2		

MEDALS STATISTICS - MEN

	CLASSIC			SHORT DISTANCE		
	G	S	B	G	S	B
FIN	5	6	5	2	1	1
SWE	3	3	1			1
NOR	1		2	1	2	
RUS			1			1

Ski-O World Championships Relay results 1975 - 1992 will appear in the next issue.

A Smarter Way to Punch

The Fantasia Orienteering Federation has undergone a technical revolution; no longer do its members carry old-fashioned control cards in the forest! **TONY THORNLEY**, a member of FOF and of the IOF Technical Committee, reports.

CARTOON BY MIKE KIPLING

"Nowadays, when I pay my membership to FOF, I don't get a membership card, I get a 'smart' card. It registers me as a member - but it's also essential when I want to compete in all but the smallest events. To enter me for an event, my club sends the organiser my smart card registration number. The organiser sends back a start time with the event information.

"At each control I do exactly the same thing. The chip at the control transfers a code to my card which is stored, together with the time that I reached the control. The display shows the last three digits of the code number for a few seconds. This matches the code on the flag and on the description sheet. I can re-display this using the touch pad if I want. At the finish there is no line, just a set of hanging micro-chip handles. I touch one and the clock in my card is stopped.



"At the event, I wear my smart card on my wrist. It's a small sealed plastic box about the size of a compass. It has a battery and a digital display. As I start, I touch the data exchange contact on a micro-chip hanging from a handle at the start line; a 'bleep' tells me that the contact was successful. This clears the card's memory, starts its clock and puts a unique event and course code into the memory.

"Results are easy. At big events, you go down a taped funnel after finishing to a further set of chip handles. On touching your card, the times and codes are all downloaded in a split second to a small computer. This instantly verifies the codes are correct for my course, stores my result, and prints a label for results display. If there's something wrong, or I disagree, I can get an individual printout of my times and codes at a



Maybe not for much longer...

complaints table. At smaller events, the results team check my card visually by 'playing back' the data. It is much faster than the old system.

the savings in control cards and membership administration is significant. And more people join FOF than ever used to!

Can you cheat?

"The benefits are obvious, but what about the snags?

"If you've punched all the controls in order, even if you've got some wrong ones in between, your card will be OK. You cannot start without touching the start chip, so it does not matter when you start. The elapsed time is always accurate.

Is it reliable?

"There are no moving parts (except me). Everything is sealed; it works in driving rain and even mud and blood only need to be wiped off. The battery lasts a very long time and cannot be replaced.

What about newcomers?

"My club has a set of 100 cards which it hires to newcomers for an event. The income pays for the cards quite quickly. The very smallest events still use the old punches and cards, but this is dying out now."

Is it expensive?

"The card costs about £20, and is paid for with my initial membership fee. To renew each year, I pay a smaller fee and have the card 'updated' electronically by touch. An out-of-date card cannot be used at events. The chip handles at the control sites have no battery and cost about £4 each. The finish computer is as reliable and as expensive as existing finish clocks. The saving on manpower at the start, finish and in the results is huge;

Sounds far-fetched? The system is under development by Regnly in Norway and has already been field-tested successfully. If you come to the next Fantasia 5-Days you can try it for yourself!

First printed in Compass Sport.



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NEW OW EDITOR

Dear OW Reader

The Congress in Switzerland decided that English is to be only official language for all business conducted by the IOF. A historic step indeed, 21 years after English was accepted as the second IOF language!

The new Council decided quickly to make **Orienteering World** monolingual, starting with the first issue in 1993.

This coincided with the appointment of a new editor. Peter Gehrman, who has edited **OW** since 1987 in Germany, will assume a major new responsibility for the 1995 WOC. He and his team have done a great job; the IOF would like to express its sincere gratitude to Peter

and to the whole team.

I am pleased to present to you with this first 1993 issue of **OW** the new editor, Clive Allen from Great Britain, now living in Denmark. Clive is very well-known as Chairman of the Development & Promotion Committee, a position he has now given up, and as public address commentator at the World Championships and other major orienteering events.

I wish Clive a good start at the new monolingual **Orienteering World** which will be published 6 times a year.

Heinz Tschudin
President

**MAIN IOF SPONSORS IN 1993:
SILVA - IDEA - SKANSKA**



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THE SECRETARY GENERAL'S PERSPECTIVE

Dear Orienteer,

Two new IOF members

A new year, a 'new' **Orienteering World** - and two 'new' members within the IOF! To begin with the latter, the Czech Orienteering Federation and the Slovak Orienteering Federation, their formal membership will be confirmed by the IOF Council at its meeting 15-17 January. In the early autumn of 1992 the two federations-in-spe informed the IOF that all take-over matters related to the dissolution of the Czechoslovakian Orienteering Federation had been settled between them; in other words, they were prepared to become the bodies responsible for orienteering in the Czech Republic and Slovak Republic respectively. Their membership applications will of course be treated as sheer formalities, our sport being firmly established in the two countries since ages. These two new members included, the IOF family now counts 41 member countries. I have the sad plight to remind you that the Yugoslavian Orienteering Federation is still under a (temporary) ban, imposed for well-known reasons and lasting until further notice is given.

China

China, one of the ten countries elected IOF member at last year's IOF Congress, delivered a pleasant New Year surprise on the eve of 1993. Obviously not entirely familiar with IOF practices, China sent in her membership fee for 1993 without having been sent any invoice or other form of request! However laudable, and however convenient a model this might be for the future, invoices covering the 1993 membership fees **will** be sent out to all Member Federations later in January.

IOF News

As the Reader is perhaps aware, he is now reading the 'IOF News' pages. This section of **Orienteering World** is meant to carry information from the IOF Secretariat to Member Federations and IOF officials. Although such material runs the risk of becoming matter-of-factual, bordering on the dreary, I hope that bits and pieces of it will be of interest to the ordinary reader/orienteer. As a matter of fact, when the IOF Council discussed the new format of **Orienteering World**, the opi-

nion was expressed that a substantial portion of all Secretariat information to the Member Federations might be channelled via the IOF magazine. However this may be, I would prefer not to present IOF News 'in stone' but in relatively digestible form. That is to say, rather than exposing 'bare' statistics, agenda items or minutes from, say, Council meetings, I would present them with a brief commentary.

Here comes my first example:

The IOF Council

In No. 3-4/1992 of **Orienteering World**, the composition of the new Council elected at the 1992 IOF Congress was given in detail. In the table on the next side you will find the members of the present Council in the rightmost, '92' column (P=President; VP=Vice-President; M=Member). It appears from the table that the first pioneering Council, elected in 1961, consisted of 7 members. For reasons unknown to me it was enlarged to 8 members in 1973, and to 9 in 1977. Dick Adams, USA,



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IOF COUNCIL MEMBERS - 1961-1994

became the first non-European member, elected in 1977, and Gordon Hunter, CAN, the second (1980). It is comforting in retrospective to note that non-Europeans were elected despite the fact that, at that time, there was no statutory mechanism granting them a seat on the Council. Today, the IOF Statutes grant two non-Europeans, nominations permitting, to be elected. In 1988, the number of Vice-Presidents was increased from 2 to 3. Etcetera, etcetera. I leave it to the Reader to squeeze out further interesting details.

	1961	63	65	67	69	71	73	75	77	(79)	80	82	84	86	88	90	92
Erik Tobé	SWE	P	P	P	P	P	P										
Edelfrid Buggel	GER	VP	VP	VP	VP	VP											
Rolf Nuescheler	SUI	VP	VP	VP													
Olaf Andersen	DEN	M	M	M	M	M	M	M									
Miroslav Hlavacek	TCH	M	M	M	M	M	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP
Erkki Sorakuru	FIN	M	M	M	M	M	M	M	VP	VP	VP	VP	VP	VP	VP	VP	VP
L.Steff-Pedersen	NOR	M	M	M													
Willy Mathys	SUI				VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP
Jan-Martin Larsen	NOR				M	M											
Horst Stubenrauch	GER						M	M	M	M	M	M	M	M	M	M	M
Atle Sundelin	NOR						M	M	M	M	M	M	M	M	M	M	M
John Disley	GBR						M	M	M	M	M	M	M	M	M	M	M
Lasse Heideman	FIN							P	P	P	P	P	P	P	P	P	P
Ingvar Ritsel	SWE							M	M	M	M	M	M	M	M	M	M
Ib E.Nielsen	DEN																
Dick Adams	USA																
Herbert Hartmann	GER																
Bengt Saltin	SWE																
Gordon Hunter	CAN																
Heinz Tschudin	SUI																
P.E.Birk-Jakobsen	DEN																
Sarolta Monspart	HUN																
Ted Wester	AUS																
Josef Krch	TCH																
Sue Harvey	GBR																
Leif Karlsen	NOR																
Per Stensby	USA																
Kalevi Tarvainen	FIN																
Hugh Cameron	AUS																
Åke Jacobson	SWE																
John Pearson	BEL																
Edmond Szechenyi	FRA																
Einar Undstad	NOR																

Next Council meeting

Although the new Council held its first, constitutive, meeting immediately after its election last summer, its first ordinary working meeting will take place (has taken place, when you read this) 15-17 January in Paris. For obvious reasons, therefore, the agenda will be a heavy one. I will come back to you in No. 2/1993 of **Orienteering World** with comments on the proceedings and decisions made; suffice it here that I point at some of the major items to be dealt with:

Revision of the present Long-term plan ('The IOF towards the Year 2000'). The present plan, although covering a considerable time span when it was first printed (1989) - and still does - is becoming obsolete in certain details. Council is going

to have a comprehensive discussion based on written contributions from all Council members on the future of the IOF and orienteering in the world. Unavoidably, IOF finances will form part of the discussions.

Council will start deliberations on possible themes to be brought on the agenda of the 1993 Presidents' Conference (to be held in conjunction with the World Championships in USA in October).

Part of the meeting will be a joint session with the Development & Promotion Committee (whose recently appointed Chairman is Birthe Helms, DEN); in particular, a status report drafted by the DPC will be ventilated.

Council will consider in detail the Ski-O Committee's plan to promote Ski-Orienteering as an Olympic sport until the Winter Olympics in the year 2002.

Council will discuss a paper called 'Conditions to be met by organisers of major IOF events'. The idea is that any member country applying to organise a major event, be it a World Championship, a World Cup event, a Junior World Championship or a Veteran World Cup, shall know in detail, at the moment when the application is drafted, the conditions and demands (technical, financial, etc.) prevailing.

There are a host of other items on the agenda for the meeting. Please consider those mentioned



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here as appetizers only. Again, I will come back to you in the next issue with 'results'.

Forthcoming events

From 1993 onwards, the IOF will decide four years in advance, or, in the case of the World Championship in Orienteering, five years, about organiser. The table on the next page is an update of decisions already taken. At the just mentioned forth-coming Council meeting, a decision about the organiser of the 1995 Veteran World Cup will be taken. Regarding organisers of the 1996 and 1997 Veteran World Cups as well as the 1997 Junior World Championships, please see separate insert below.

Concluding remarks

It is difficult to foresee if the 'IOF News' pages will serve a good purpose. However, I take it that the Member Federations as well as individual readers will tell me if that is not the case. Suggestions for amendments are always welcome!

May I finally put on my Editor-in-chief's hat and acknowledge receipt of strong criticism regarding a couple of articles in the preceding issue of **Orienteering World** I was taken aware when I received them for publication that they were extremely harsh, exposing individual organisers and controllers of events. If they

went too far from an ethical point of view, it is I who am to blame, not the author; I should have refused them. As an explanation, certainly not an excuse, let me mention that **Orienteering World**, and I in particular, had been accused of leaning towards the 'hallelujah style', towards being too appreciative and laudatory, in commenting on events staged. **Orienteering World** is certainly not intended to be a forum for panegyric or obsequious patting-on-the-shoulder, so I thought the tough contributions might balance the scales. Perhaps they tipped them over.

Good orienteering!

Lennart Levin

The IOF welcomes applications to organise
- The 1997 JUNIOR WORLD CHAMPIONSHIPS
- The 1996 VETERAN WORLD CUP
- The 1997 VETERAN WORLD CUP
Applications to reach the IOF by 31st March. Application forms have been sent out to all IOF Member Federations.
#####

To All IOF Member Federations
IOF DATABASE - REMINDER
In order for the IOF Database on orienteering literature to be adequately updated, this is to remind you about the Database Input Forms distributed in August last year. Please complete your form as soon as possible and send it back to the Secretariat!
Thank you for your help!
#####

Preparations of the 1993 WOC are under way. Steve Key, well-known Australian mapper who did all the field-work for the 1985 WOC map, is just about finalizing map work in view of this year's WOC in USA.

Bulletin No. 2 will be sent to all Member Federations Friday 15 January.

Information officer is Bill Wallace, P.O. Box 367, Green Farms, CT, USA 06336.





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**MAJOR IOF EVENTS 1993-1997
ORIENTEERING**

**MAJOR IOF EVENTS 1993-1997
SKI-ORIENTEERING**

1993	1994	1995	1996	1997	1993	1994	1995	1996	1997
WOC New York USA 8-14 Oct		WOC Lippe Nordrhein- Westfalen GER 13-20 Aug		WOC NOR		WOC Val di Non Trentino ITA Jan 31- Feb 6		WOC NOR	
JWOC Castelrotto ITA 5-11 Jul	JWOC Gdynia POL Jul	JWOC Horsens DEN	JWOC Vilcea Arges ROM	JWOC		JWOC Rovaniemi FIN		JWOC	
	WORLD CUP		WORLD CUP		WORLD CUP		WORLD CUP		WORLD CUP
	NZL (classic) 3 Apr AUS (sh.dist) 6 Apr AUS (relay) 8 Apr				TCH (classic) 7 Jan TCH (sh.dist) 8 Jan TCH (relay) 9 Jan				
	NOR (classic) 10 Aug DEN (sh.dist) 13 Aug DEN (relay) 14 Aug				AUT (sh.dist) 25 Jan ITA (sh.dist) 28 Jan ITA (relay) 30 Jan				
	GER (classic) 25 Sep TCH (relay) 28 Sep TCH (classic) 1 Oct				SWE (classic) 6 Mar SWE (sh.dist) 7 Mar NOR (classic) 9 Mar NOR (sh.dist) 11 Mar				
	VET WC Inverness Scotland GBR 1-5 Aug	VET WC	VET WC	VET WC					

IOF Scientific Journal

The Autumn 1992 issue of the IOF Scientific Journal contains articles on a study of injuries at the 1991 Swiss 6-days event, ankle sprains in orienteering, and structured interviews with orienteers on the subject of navigation in off-road environments.

Single copies are available from the IOF Secretariat, price 40 SEK. The subscription price for one volume (2 issues) is 70 SEK. Prices are inclusive of postage.

World Cup perspective

Chairman of the IOF World Cup Group **Anne Berit Eid** takes a look back to the 1992 events and looks forward to the 1994 World Cup.

The great winner of World Cup '92 was Sweden, but it was also good to see three different nations represented in the top three places in the women's class. Concentrating on Sweden, though, Marita Skogum and Joakim Ingelsson were really worthy winners, with placings of 1, 1, 1, 2 and 4, and 1, 2, 3, 4 and 4 respectively. Four different Swedes won five single events. What a team! But this flame of joy was suddenly dowsed when news of the seventh sudden-death victim among Swedish orienteers was received. The team has been advised to stop physical training, and a big screening programme has been started to look for an agent micro-organism and to single out runners having a high risk. Let us hope these intensive investigations will bring results, so that our sport can again be promoted as a healthy sport and that good spirit and full activity can come back again.

Looking back to 1992

A mass-start event with forked loops started the World Cup in Sweden in May. The short duration of the event, the frequent intermediate times (every 7-8 minutes) and the frequent opportunities to watch the runners through the run-in of every loop made the event very interesting for spectators. Such an event put enormous pressure on the runners; a survey amongst the participants (results were published in World Cup Bulletin 2/92) showed that the event was well accepted, but many of the competitors mentioned several requirements for the terrain and the course planning to make such an event fair and successful. The basis of orienteering is

'a self-chosen route through unknown terrain', and this type of event is close to the limits of what can be fair. In 1994 a similar World Cup event will be organised in Denmark.

The only short-distance race in 1992 was staged by the Finns near Helsinki. The terrain was perfect for short distance, and the direct TV coverage was very good and showed that orienteering can be a very exciting TV sport when a clock is put on the screen. From this event the World Cup Group learnt how important it is to put as much effort into planning the B-Final as the A.

A classic-distance World Cup event can go on for over 6 hours. In the August events, centrally located in Europe, 116 men were entered; the Rules allow only 80 runners. To avoid all teams being reduced to the basic quota of only 3 runners, it was decided at a very late stage to allow 90 runners. For the future this is unacceptable, because the event becomes still longer and more tracks are formed in the forest.

Principles for Selection for World Cup 1994

After long discussions during the autumn the principles for 1994 have been settled. Since a 3-man relay is being introduced, a further reduction in the basic quota makes no sense. Therefore all nations will be allowed to have 6 runners in their teams. All may participate in the short distance races and two teams will be allowed in the relay, although only one team will be able to score. A qualification system somewhat similar to that for the World

Championships will decide how many runners each nation will have on the A course in a classic event. The rest will compete on a B course, where the best will qualify for the A course in the next classic event.

The first group of events will consist of one classic, one short distance and one relay. In the second group, a mass start event replaces the short distance; in the last series the short distance is replaced by a short, direct qualification race (like a 'semi-final') held just prior to the penultimate classic event to be held in Germany. In the Classic Final in the Czech Republic the 80 best runners in the overall World Cup lists will participate, the remainder running a B course.

IOF Standards

From the IOF point of view there were some black marks in 1992 which should not have occurred; these have been dwelt on in earlier issues of *OW*. Good maps, fair control placing and credible winning times should be a 'must' for all IOF major events. Nearly all IOF federations spend a lot of time, money and voluntary resources to support their World Cup teams, and the runners spend so much time in training and preparation that it cannot be regarded as 'only a game'. The IOF has to improve further the controlling / advising system to organisers to justify all this expenditure of resources.

Today the controlling of a World Cup event is the responsibility of a national controller, with the IOF Delegate working as an adviser and a connecting link to the IOF. Both in 1990 and 1992 this system failed to work in all cases. Some organisers need much more help and close support than one IOF Delegate can offer. To some extent this can be explained by lack of time and money; the World Cup Group has no

budget for controlling, and the organiser, the national federation or the IOF delegate himself has to pay. I would also like to focus on people's attitude to 'being controlled': we all have to be frank and open-minded. We are idealists, but our common goal is to organise fair orienteering competitions for the participants in the World Cup.

Different interests

When the different World Cup organisers are appointed, there are several interests to be met. The IOF wants a certain geographical spread amongst its member federations. In selecting organisers for 1994 the World Cup Group has focused on minimising the travel distances in each series of events. And as a very important factor, there should be a great variety of terrain types. To meet these varying interests, we have to accept that events will be of varying standard.

Respect the competitors' opinions

To be able to improve event standards in years to come, the IOF is considering adding a 'controlling fee' to the start fees. Both Technical Committee and the World Cup Group are discussing how to improve the controlling and support functions. Although good and fair competitions are extremely important, information provision is also expected to run fluently throughout a World Cup event. A lot of work can be done to further improve future World Cups to make them more attractive for the international press, TV coverage and spectators - but we have to be careful and respect the competitors' opinions of what is fair and acceptable, and not attach too great importance to the organiser's needs and convenience or leave it to media criticism to lead the development of our sport.

ORIENTEERING NORTH AMERICA

The only magazine to cover the sport for the US & Canada—10 full issues per year, including color maps in about half the issues. We cover what's happening from coast to coast all around this continent from north to south.

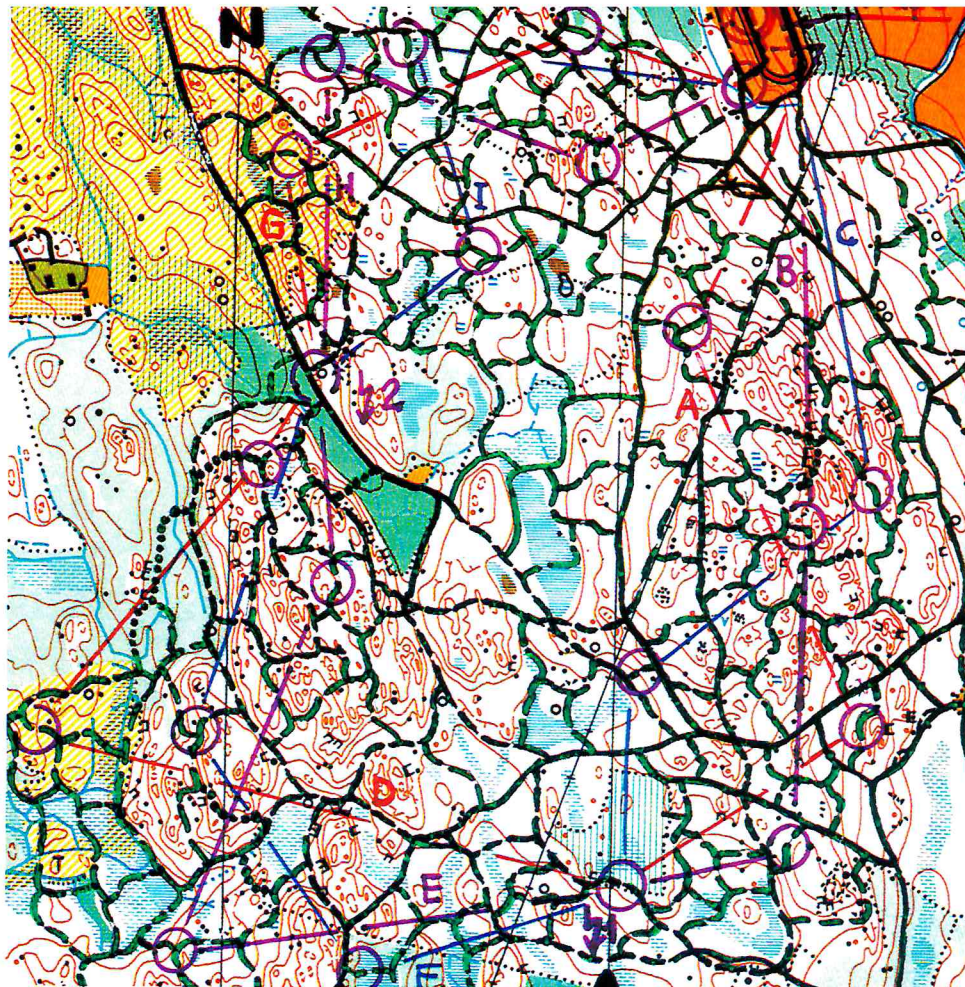
You won't want to miss all the plans and the action of the 1993 World Champs, especially the WOC-93 Souvenir issue in November.

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One-man relay in Ski-O - see page 8

REVIEW

Principles for Course Planning

This is the title of a new short booklet from the IOF Technical Committee which can be obtained from the IOF Secretariat, price 20 SEK. It's aim is to establish a common standard for course planning in all international events, and to provide general guidelines for the planning of other competitive orienteering events.

Five 'golden rules' are seen as the backbone of a successful set of courses at an event :

- the unique character of orienteering as running navigation;
- the fairness of the competition;
- competitor enjoyment;
- the protection of wildlife and the environment;
- the needs of the media and spectators.

The last two rules have perhaps not figured too highly in the past in the minds of planners, but are of increasing importance nowadays as public awareness of the environment increases, and we try to improve the publicity value of our sport.

The booklet continues by examining the orienteering course in more detail : the choice of terrain, the siting of the start, the legs, the controls and the finish. Within these sections and others covering route choice and the degree of difficulty, the basic principles of what makes a good course are clearly stated. This leads the reader to a summary of what the course planner should aim for : s/he is urged to become fully acquainted with the terrain, to get the degree of difficulty right for the ability levels of the participants, to use fair control sites (with controls sufficiently far apart to avoid misleading competitors), to avoid over-complicating the route choices, and last but not least, to produce courses that are physically not too demanding.

This booklet provides a good 'tick-list' for any experienced planner or controller, whatever the level of the event. It also serves well as an introduction to the basic principles for those planning a full-scale event for the first time, who will go on to study some of the excellent more detailed books on the subject which are now available.

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Training your Map Memory

by Irina Kuranova, RUS

Many people prefer to train alone or with a small company of friends. Very often they would like to make their orienteering education more intensive, but don't know exactly the best way to do it. If this is you, read on!

1. A mid-week task

Your weekend competition will give you 2 to 3 times more value if, 2 to 4 days after the event, you begin to draw, on a plain sheet of paper, the map along with the route you followed, working solely from memory. It is not so important that different objects are shown the same size as on the map, but you should try hard to remember their relative size and position and to avoid forgetting any of the main features you saw as you ran round your course. See figure 1.

Fine also if you can add in any small features which were not on the map but which you noticed during your run.

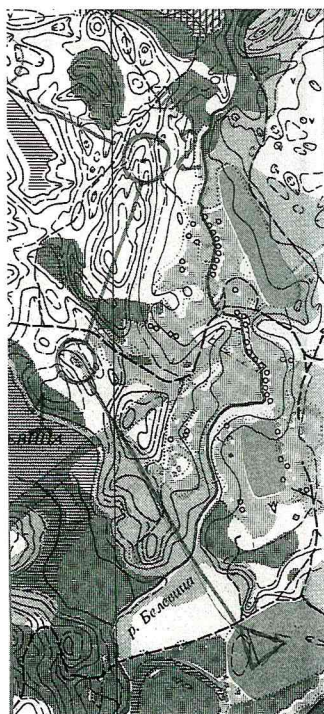


Figure 1

After finishing your drawing, check it with the real map and note the objects which you forgot about. Sometimes it becomes clear that the 'hole in your memory' was the location of your mistake whilst running your course!

2. Simplify the map

One of the key skills of a good orienteer is the ability to see the main structure of relief form and line object, to understand the structure rapidly and then remember it. You can train this skill at home, especially at a time when there are no competitions.

Look for 10-20 seconds at a

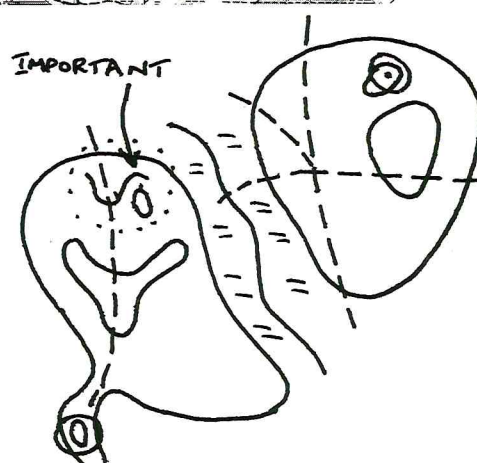
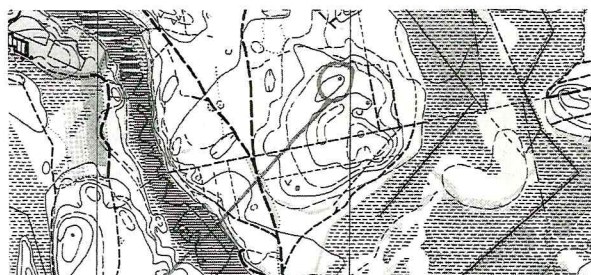
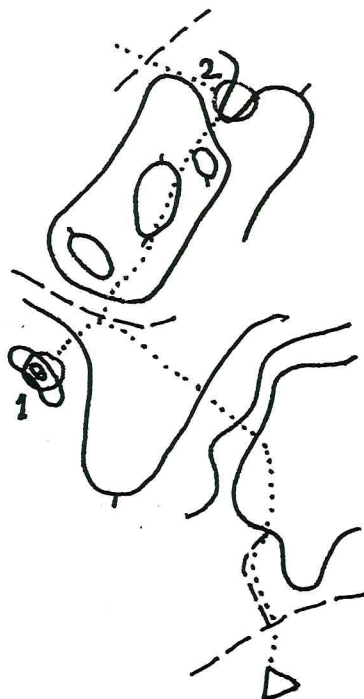


Figure 2

small part of a map and try to identify and picture in your mind the main information shown. Then draw what you can remember on a plain sheet of paper (see figure 2). You have achieved a good result if you can draw all the roads, paths, gullies, streams, marshes, hills etc. It is not so important if you forget some small things provided you don't need to change direction in this area; if you do, then they can become very important!

You are doing well if, after some training, you are confident that you can really remember the main information and can run without often having to stop to read the map.

3. A Training Exercise

Take two copies of one map and cut one of them into small pieces. These pieces should have enough information on

them to enable you to recognize them. Paste 15 - 20 of the small pieces onto a white sheet in random fashion.

Look at a single piece, and run a fast loop, say 200 to 400 metres long. Then try to find this section of map on the big map, as soon as possible, using only your memory.

It's much better to do this kind of training with a friend! Then you can make it into a small competition between you.

4. Pace Counting

I expect you know how many paces you run in 100 metres. Choose some small sections on the map and write directly, without measuring, how many steps are needed to run each of them. Then check how accurate you were by measuring the length of each section.

SPOTLIGHT ON

The IOF High-Tech Group

The HTG is a small group which was founded in 1989. It acts as the IOF centre of information about the use of technology in orienteering. The most prominent objective of the group is to gather and disseminate information on this topic. This is done primarily through the HTG Newsletter which is issued 2-3 times per year. Newsletter distribution is a low-cost operation; one A4-format photocopy is sent to each member federation, which in turn is asked to send copies to interested members.

Since the foundation of the group, the newsletter has given information on such diverse topics as computerised mapping, the use of computers in entry and results processing, satellite navigation, equipment-vendor lists and event entry via on-line computer access.

The HTG is in close contact with the IOF committees, and has provided software solutions, for example a score calculation program for the World Cup Group.

The HTG intends in the future to submit articles of general interest to *Orienteering World*. The group also intends to continue issuing its own newsletter with a combination of articles of general interest and more technical articles. The latest issue includes articles on electronic mail and its actual and potential uses in orienteering, and an evaluation of the two electronic punching systems currently being developed in Norway and Switzerland (as described in Tony Thornley's article on page 11).

The members of the HTG are Finn Arildsen (Denmark), Rolf Heinemann (Germany), Barry McCrae (Australia), Hans Steinegger (Switzerland) and Brian Watkins (Great Britain).

First Czecho-Slovak Trail-O Championship

The first championships for physically handicapped orienteers to be held in Czechoslovakia were held during 1992. They were organised as two races, with the results totalled for the purpose of ranking and medal awards.

40 participants in all took part, the first race being in the spa area of the town of Luhacovice and the second in the town park of Zlín, the town where the Centre of Orienteering History has been established.



Trail-O competitors in Czechoslovakia photos: Bratislav Koc

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CISM - Friendship through Sport

CISM stands for Conseil International du Sport Militaire, the Military World Championships. Brazil hosted the 25th such championships in late October last year; Heinz Tschudin, IOF President, reports on the events and the future of orienteering in Brazil.

CISM is one of the world's largest sports organisations; nowadays it includes almost all armies, from East and West and from North and South. Under the heading 'friendship through sport, the aims of CISM are:

- to encourage military sport and physical education and develop technical assistance between the member nations,
- to develop friendly relations between the Armed Forces, thus contributing to the world-wide effort towards universal peace.

Who is qualified to compete in a CISM Championships? This is not easy to answer! According to the CISM regulations of procedure, article 48.4:

- Only personnel on active duty in the armed forces (or any military corps belonging to same) may take part in compe-

titions organised by the CISM.

- Exceptions may be authorised by the General Assembly.
- No-one may be called or recalled to active duty in the armed forces for the purpose of participation in a CISM competition.

- Only amateurs may enter the individual CISM competitions.

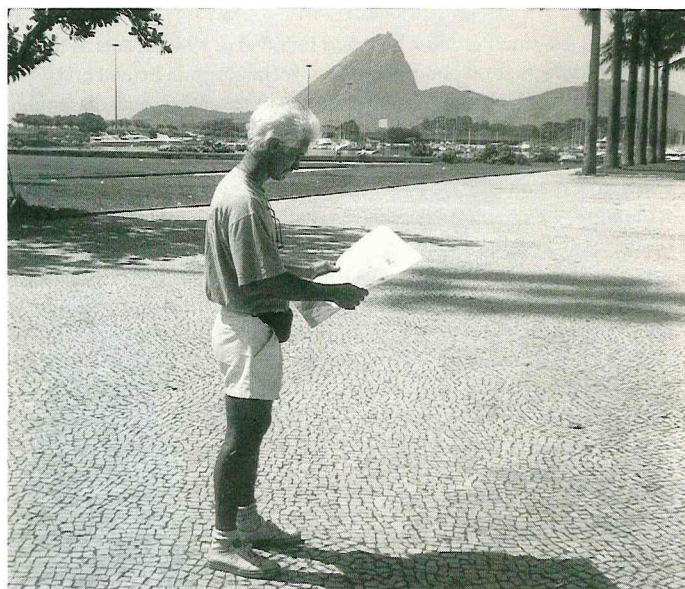
The CISM Orienteering Championships

In orienteering, CISM is dominated by Switzerland and Norway, because most Swiss orienteers (aged 20-42) are in the army, and many Norwegian orienteers are members of the Norwegian Home Guard.

A CISM Championship includes two individual events with the times added together,



The Brazilian Relay Team - Sergio Brito, Jose Ferreira de Barros and Joao Manoel Franco - plus coach
photo: Heinz Tschudin



Henrique Fauth in Flamengo Park, with his Flamengo Park map. Sugar Loaf Mountain is in the background
photo: Heinz Tschudin

but run as an A- and B-Final on the second day. There is a team competition based on the 4 best times on the first individual course. Then there is a three-leg relay event. A team can have 7 competitors.

Why Brazil?

This was in fact the second time already in Brazil; in 1983 CISM was held in Curitiba, Panama. The Brazilian Army has a long tradition of orienteering, including national championships. In order to spread the military sport of orienteering amongst the armed forces of South America, Brazil volunteered to host the CISM Championships in both 1983 and 1992. Of course it was hoped that civilian orienteers would benefit too; this was my main reason for travelling to Brazil. In my capacity as President of the IOF I hoped to encourage the Brazilian orienteers to join the IOF as an Associate Member.

Civvy-O in Brazil

What is known about civilian orienteering in Brazil? There have been previous articles on the subject (Orienteering North

America, March/April 1992; OW 1990/4). Some orienteers from the North have been there: Ulf Levin; Per-Olof Bengtsson and Jörgen Mårtensson with WWOP; others as well. They have all found few enthusiasts and very, very little money.

There is the Flamengo Park map in Rio and the Floresta da Tijuca map within the city limits of Rio; there is some orienteering activity in Santa Maria, West of Porto Allegre. Although the establishment of an O club in Brazil has been initiated several times, I have met only one civilian Brazilian orienteer in Brazil.

To summarise, there are several 'small young plants'. Their maps are very simple - and today there seems to be no call for better maps - neither the military nor the civilians see the need for them. This leads me to the conclusion that Brazil is somehow much more interested in a very special recreational form of orienteering, which may differ from the usual European style. And why not? I discussed this issue with Henrique Fauth in Rio, who is a very active promoter of orienteering in Brazil (see photo). This could be the way forward.

Letters to the Editor

Back to the Stone Age in Orienteering?

Odd Magne Jacobsen from Norway criticises in a very primitive way in Orienteering World 92-3/4 the World Cup race in Baden bei Wien and also the first World Cup win by an Austrian. Objective criticism is always allowable; positive as well as negative, you always learn from it. The style this author has used you can judge for yourself. Most likely Odd M. Jacobsen had a very black day when he wrote the article; that, or nothing is ever good enough. The article 'one step forward - half a step back' is from beginning to end very mean and can be seen as two steps back in the world of international orienteering. A 'poison article' like this, containing such subjective criticism, does our fine sport a lot of harm. I'm sure Austrian orienteering will survive this immoderate article; with such a style the writer describes himself.

The World Cup event in Baden bei Wien

The criticism of the World Cup event in Baden bei Wien is fair only in reference to the over-long winning times. As course planner, the internationally-recognised Grazer Wolfgang Pötsch helped out at very short notice. This experienced course planner most likely over-estimated the running skills of the world elite, and probably also not quite correctly estimated the dark green final section, and was furthermore surprised by the hottest summer day in 1992 - 33° in the shade. All those factors are responsible for the long winning times. But one question does have to be asked here: where was the IOF Controller?

It is true that the controls were partly in green, but they were not bingo controls. The control positions were very precise! Describing this World Cup race as 'bingo orienteering of the worst kind' is far-fetched and in no way fits the facts. This Austrian World Cup race was a good advertisement for the sport and was a well-organised IOF event. All the voluntary helpers received a lot of appreciation and applause. Also the Austrian media gave more coverage to this event than usual for orienteering.

Austrian Celebrations in Italy

Why is it so wrong for an Austrian to win a World Cup race? Will such a win do international orienteering any harm? I am sure it will actually do the international promotion of orienteering more than good, especially with the Olympics in mind! I can tell from Odd M. Jacobsen's article that he is not happy with an Austrian World Cup winner,

but is it necessary, is it fair in sport, to describe him as totally unknown, and even as a stain on modern orienteering? Such an attack has no place in our fine sport; such a charge is way below the belt! To me, this Norwegian's style is simply tasteless and shameful. I also want to add that Odd M. Jacobsen's researches are very inadequate. Brantner started 3 minutes behind Håvard Tveite (Norway) and 6 minutes behind world champion Mårtensson. Brantner had already caught Tveite up by control 3. They separated immediately after, met again at control 5, and straight afterwards caught Mårtensson. Because of the very difficult runnability of the area and also because of the course planning - lots of compass controls - the three ran as a pack. Brantner was always in touch with the map, but of course you do gain from running in a pack. Should we pull the wool over our eyes? This time an 'outsider' gained from it; how often we hear how elite runners have gained from running together. What they do is tolerated, but not when an 'outsider' does it!

Austrian orienteering at least is proud of its first World Cup winner. That Brantner to Odd M. Jacobsen is an unknown orienteer shows the Norwegian's orienteering horizon, one which most likely ends in Scandinavia. Martin Brantner is several times winner in his own country, has participated in a World Championships and has also competed in Junior, Student and Military World Championships. In 1992 he was 11th in the Students Individual World Championship and 4th in his relay run behind Finland, Sweden and Czechoslovakia, and at the Military Championships in Brazil he was in the leading group.

Odd M. Jacobsen came up with another 'miss' about Austrian orienteering. The Norwegian acts as the big caretaker of morals when Brantner and his friends celebrated the first Austrian World Cup win with some glasses of champagne. This really is nit-picking, when he complains about celebrating a World Cup victory. As a true Austrian I am hoping for more opportunities when we can celebrate Austrian victories with champagne. From my own experience I know that also our good orienteering friends from Scandinavia - including Norwegians! - know how to celebrate their victories, and this in a decent way - also with champagne! I don't want to be provocative, but all the Austrians have survived the celebrations and are training hard daily again. Of course we will also in the future celebrate big international results with champagne, and this even a bad loser like this Norwegian ought to accept.

The role of the IOF Official

At the ceremony at the World Cup event in Italy the IOF's Technical Con-

troller, the Swiss Thomas Scholl, behaved to the winner Martin Brantner in a very unreasonable way. This IOF top (?) official criticised the Austrian publicly and apologised to the world elite for the Austrian's victory. Scholl has in this matter gone 'over the top'; such behaviour from an IOF official is not at all appreciated amongst sportsmen. Such officials do not take orienteering forward; instead, back to the Stone Age. One question has to be answered - can the IOF allow any such behaviour by an official as was seen in Italy in the future?

Karl Lex, Austria

and Thomas Scholl replies:

As a simple member of the IOF World Cup Group (and not as an 'IOF top official') I have acted as an *IOF Delegate* for the World Cup events in Austria and Italy. According to the World Cup Rules and Guidelines my tasks were mainly keeping contact between the IOF and the organiser, advising the organiser and ensuring application of the Rules.

World Cup events lack a *Technical Delegate* or an *IOF Controller*. Neither the IOF nor the organisers of a World Cup event can at present afford the costs for complete checking of terrain, maps, courses and controls by an international Controller from abroad. Responsibility for the event is therefore shared between the IOF Delegate and the national Controller and the organiser. Since organisers usually have no problems with maps, controls and courses, I concentrated on other aspects of the World Cup events.

I was shown the map and the definitive courses in Austria for the first time two

days before the event and in Italy the afternoon before the event. That was a bit late for corrections to the courses or of the expected winners' times.

The events in Austria and Italy had their individual style of terrain, map, course planning and organisation. Both had strong and weak points, which justifies some of the criticism expressed by Odd M. Jacobsen and Karl Lex. In my opinion both races were within the limits of an acceptable World Cup event. If the World Cup is to remain a real World Cup we have to accept such diversity. We cannot expect top events of World Championships level in every respect. Nevertheless we must always try to avoid mistakes and to improve.

There was deep discussion in Italy about Martin Brantner. He was said to have just followed the two Nordic runners without taking any initiative. After the race he was able to draw his whole route on the map in good agreement with the independently drawn routes of Håvard Tveite and Jörgen Mårtensson. At the prize-giving ceremony I gave the following official comment: "Many of you know that Martin Brantner was for a part of the race together with Håvard Tveite and Jörgen Mårtensson. Some regard this as unfair. We have discussed the case at some length with the runners concerned. It is always difficult in such cases to fix who has profited how much. There were other groups in this race, but we do not know them. Therefore it would be wrong to punish the winner only. There was no protest and no reason for the jury to take action. Let us enjoy together a new winner from a new country. Martin Brantner will have to prove that he was not just the lucky winner of today's event."

I still think this statement was correct.

Thomas Scholl



Martin Brantner - celebrations in Italy

Three other letters were received from Austria on the same subject; there has not been space to print them in this issue. Readers' letters are welcome and should if possible be short and concise. They should be sent to the editorial address in Silkeborg, Denmark. Please include your telephone number when writing.

INTERNATIONAL FIXTURES LIST

This list includes all events in the IOF Calendar with entry closing dates before 1 May 1993. The entry closing date is shown at the end of the event name, e.g. VI Martin Kronlund, Madrid, Spain (1/3) indicates a closing date of 1 March. Then follows the type of event. Line 2 gives the contact address and telephone number.

After the entry closing date, symbols show the type of event: I - individual, SI - short distance, R - relay, N - night event. A number shows the number of days. E.g. 2I/R means 2-day individual followed by relay.

MARCH

- 5-7 Önos-Natten, Skåne-Mixen, Önos-Sprinten (22/2) N/R/I
Pan/Önos, P-O Bengtsson, Box 3, S-29702 Everöd, Sweden (46) 44 23 85 23
- 19,20 VI Martin Kronlund, Madrid (1/3) 2I
ADYRON, Box 23148, E-28080, Madrid, Spain (34) 1 50 16 972
- 19-21 FIF Spring Cup '93, Hillerød, Denmark (21/2) N/I/R
Lars Simonsen, Københavnsvej 49B, DK-3400 Hillerød, Denmark (45) 42 26 09 28
- 26,27 Israel Championships, Nazareth (15/3) 2I
Israel O-Champs., P.O.B. 1392, Ramat Hasharon 47100, Israel (972) 354 01 246
- 27,28 Honvéd Pokal, Veszprém, Hungary (1/3) 2I
Veszprémi Honvéd, Pf. 86, H-8201 Veszprem, Hungary

APRIL

- 8 OK PAN/Önos Grand Prix, Kristianstad, Sweden (restricted) (22/3) I
Åsa Melkersson, Klockarevägen 14, S-290 37 Arkelstorp, Sweden (46) 044 91714
- 9 Baltic Cup Ungdom, Kristianstad (restricted) (22/3) I
Jakob Svensson, N. Vallavägen 4, S-291 32 Kristianstad, Sweden (46) 044 127891
- 9-11 Lapin Lumirastit, Rovaniemi, Lapland (15/3) 3-day Ski-O
Mauno Korhonen, Hirvaskatu 16, SF-96190 Rovaniemi, Finland
- 9 III Setu Ekspress, Värskä, S E Estonia (1/3) I/SI
OK Peko, EE-2615, Värskä, Estonia (7) 0142 23 70 71
- Easter Easter 3-day, South Island, Christchurch, New Zealand (28/2) 3I
Peninsula & Plains Orienteers, P.O. Box 824, Christchurch, New Zealand (64) 3 3845 116
- 9-12 Easter 4-day, Auckland, New Zealand (28/2) 4I
Robert Crawford, 3A Mirian Corban Heights, Henderson, Auckland, New Zealand (64) 9 837 4544
- 9,10 'Costa de la Luz' Trophy, Punta Umbria (Huelva), Spain (1/4) 2I
APDO 59 Punta Umbria (Huelva), Spain (34) 55 31 23 11
- 10-12 Jan Kjellström International Festival, Basingstoke, S. England (31/1) 2I/R
BOF, Riversdale, Dale Road North, Darley Dale, Matlock, Derbys., England DE4 2HX
- 10,11 Mecsek Pokal Pecs, Hungary (15/3) 2I
Pecsi VSK, H-7602 Pecs, Pf. 34, Hungary
- 10,11 III Peko Spring Värskä, S E Estonia (1/3) 2I
OK Peko, EE-2615 Värskä, Estonia (tel. as above)
- 10-12 Australian 3-days, Perth, W. Australia (1/3)
O Federation of Australia, P.O.Box 740, Glebe 2037, NSW, Australia (61) 2660 2067
- 10-12 3 Jours d'Aquitaine, Cote d'Argent, Bordeaux, France (28/3) 2I/R
B. Delhomme, 6 Rue de l'Agreou, F-33610 Cestas, France (33) 56 78 11 34

APRIL

- 17,18 Vårstafetten and Vårspretten, Halden, Norway (22/3) R/I
Tor Woien, Brattner Terasse 5, N-1750 Halden, Norway (47) 9 18 11 18
- 17, 18 V Costa Calida, Murcia, Spain (20/2) 2I
Buenavista 31-1, Alcantarilla, E-30820 Murcia, Spain (34) 68 80 73 99
- 18 Vasutas Pokal, Budapest, Hungary (15/3) I
Zakarias Janos, H-1056 Budapest, Molnar u. 53, Hungary (36) 1 1371 613
- 24 Tipografia Pokal, Hungary (15/3) I
Tipografia TE, H-1085 Budapest, Kolcsey u. 2, Hungary
- 24 Lördagskjappen, Moss, Norway (5/4) I
Jan Jansen, Utsynet 18, N-1500 Moss, Norway (47) 9 27 05 20
- 24, 25 Isotonic orienteering, Karjaa, Finland (1/4) I/R
Marja-Liisa Lehto, Mäntynummenkuja 4 A 11, SF-10300 Karjaa, Finland (358) 11 31 345
- 25 Solrenningen, Sarpsborg, Norway (5/4) I
Knut Melby, Box 126, N-1701 Sarpsborg, Norway (47) 9 14 94 70
- 25 Semmelweis Pokal, Budapest, Hungary (15/3) I
Dr. Krasznai Istvan, H-1023 Budapest, Kolozsvari T.u. 4/A, Hungary
- 30-2 May ILVES-3, Tartu distr., Elva, Estonia (15/3) 3I
OK Ilves, PK 161, EE-2400 Tartu, Estonia (7) 01434 76542
- MAY
- 1,2 National events, Bellinzona, Switzerland (31/3) 2I
Lidia Nembrini, CH-6965 Cadro, Switzerland (41) 91 91 46 37
- 8,9 Prahova Valley Trophy + Cupa Sanatatea, Romania (31/3) 2I
Nicolae Stroescu, Bd. Republicii 279 bloc 4A ap. 33, Ploiesti-2000, Romania
- 8,9 Tiomila, Uppsala, Sweden (22/3) R (day & N)
Åke Lundgren, Stridsborgsv. 1, S-191 78 Sollentuna, Sweden (46) 8 754 48 37
- 14-16 'LOF_Open', Riga, Latvia (10/4) 3I
LOF, Terbatas Str. 4, 226723 Riga, Latvia (7) 0132 21 30 11
- 14-17 Vilnius 93 4-days, Vilnius, Lithuania (1/4) 4I
OK Perkunas, Box 455, 2007 Vilnius, Lithuania (7) 0122 69 66 32
- 19,20 Trofeul Olteniei, Romania (15/4) 2I
Badea Natalia, Calea lui Traian, bloc 58 bis, ap. 8, R-1000 Rimnicu Vilcea, Romania
- 20-23 Holland-OL, Meppel & Drenthe, Holland (20/3) 3I/R
Mildred Mom, Maaiveld 5, NL-6852 Ge Huissen, The Netherlands (31) 85 25 73 83
- 22,23 Cupa Bucharestiului + Cupa Guadeamus, Romania (15/4) 2I
Galateanu Lucian, Bd. Lacul Tei 126-128, Bloc 17-18, scara 1, ap. 359, R-72307 Bucharesti, Romania
- 28-30 OK Peko 3-days, Värskä, S E Estonia (15/4) 3I
OK Peko, EE-2615 Värskä, Estonia (7) 0142 23 70 21
- 29-31 Trois Jours de Belgique 1993, Arlon, Belgium (1/4) 3I
Nicole Lauwers, Avenue Blonden 35/72, B-4000 Liege, Belgium (32) 41 52 92 21

JUNE

- 3-6 Nordic Open Championship, Sipoo, Helsinki, Finland (1/3) 3I/R
Sibbo Vangarna / NOM 93, Ullala, SF-04130 Sibbo, Finland (358) 0 23 29 16

JULY

- 19-23 O-RINGEN, Halland, Sweden (1/3) 5I
O-ringen Halland, Box 1993, S-311 01 Falkenburg, Sweden (46) 035 17 306

Events Noticeboard

This feature will appear in every issue, and will give additional information about events in the IOF Calendar and notes about other events not in the Calendar. Event Organisers are invited to let the Editor know of any special features of interest about their event - brief notes only please.

Belye Nochi-93

This 3-day event, not in the Calendar, has been organised by the St. Petersburg (Russia) club OK Ekran since 1971. The 1993 events will be held from 25 to 27 June 16km from the town of Wiborg. Entries close on 15 May; contact Boris Frolov, Lenin Av. 20-43, 188900 Wiborg for more information.

APOC 94

It seems no time at all since the last Asia-Pacific Championships in Japan, but a very attractive brochure for the next series in New Zealand recently arrived in the *Orienteering World* office. 7 days of orienteering on New Zealand's North Island are offered in the period 29 December this year to 9 January 1994, and there's a 2-day mountain marathon and more orienteering for those who want to stay on. In the main period you are promised 'the greatest variety of terrain you will ever run on'. 1994 age groupings will be used. A New Year's Eve party is included in the programme, thoughtfully followed by a rest day.

Entries received before 31 March are subject to a special discount. Full details from APOC 1994 Carnival, 15 Coronation Street, Feilding, New Zealand, fax 0064 6 323 0822, telephone 0064 6 323 8987.

First multi-day event in South Africa

Another date for next year's diary: new IOF members South Africa will be staging their first multi-day event in the period 25 February to 6 March 1994, during which there will be 6 days of orienteering. 3 days near Johannesburg will be followed by 3 days near Cape Town, with a 4-day touring period in the middle through 'some of the most magnificent scenery in world'. *Orienteering World* will bring you more details when they become available.

European Hope 93

This international event, first held in September 1992, is solely for youngsters in the age range 13-15. The 1993 event will be held in the area of the 3rd World Cup race in 1992, 100km from St. Petersburg, from 24 to 27 September. There will be short and classic distance courses, and special classes for officials and parents too. Details from Konstanti Volkov, Esenina str. 12-1-447, St. Petersburg 194354, Russia.

Veteran World Cup 1994

Aviemore in Scotland has been named as the event centre for the 1994 Veteran World Cup, no doubt providing a repeat visit for some who competed in the 1976 World Championships which were also centred there. Warm-up open events will take place on 30 and 31 July followed by the Model Event on 1 August. The two qualifying days will be on 2 and 3 August with the Final on 5 August. Robin and Sue Harvey are among the course planners.

1993 multi-day events

From the list of major European mid-summer multi-day events, only the O-ringen is listed in the Calendar printed in this issue because of its very early closing date. The full 1993 Calendar was printed in *Orienteering World* 92-3/4. Those readers planning their summer holidays may like a reminder of the following dates (number of days in brackets):

22-24 June	Grand Prix Polonia, Poland (3)
23-27 June	Jeux Mediterraneens, France (5)
25-27 June	Shamrock O-Ringen, Ireland (3)
25-27 June	Baltic Sea Games Estonia (3)
30 June - 4 July	Takas 93, Lithuania (5)
6-10 July	Hungaria Cup (5)
10-12, 14-16 July	Swiss 6-days (6)
11-17 July	Sørlandsgaloppen, Norway (6)
12-17 July	FIN 5, Finland (5)
15-17 July	Sjællandsk 3-days, Denmark (3)
27 July - 1 August	Norwegian O-Festival (4 + relay)
1-7 August	Scottish 6-days (6)
10-14 August	Bohemia 93, Czechoslovakia (5)

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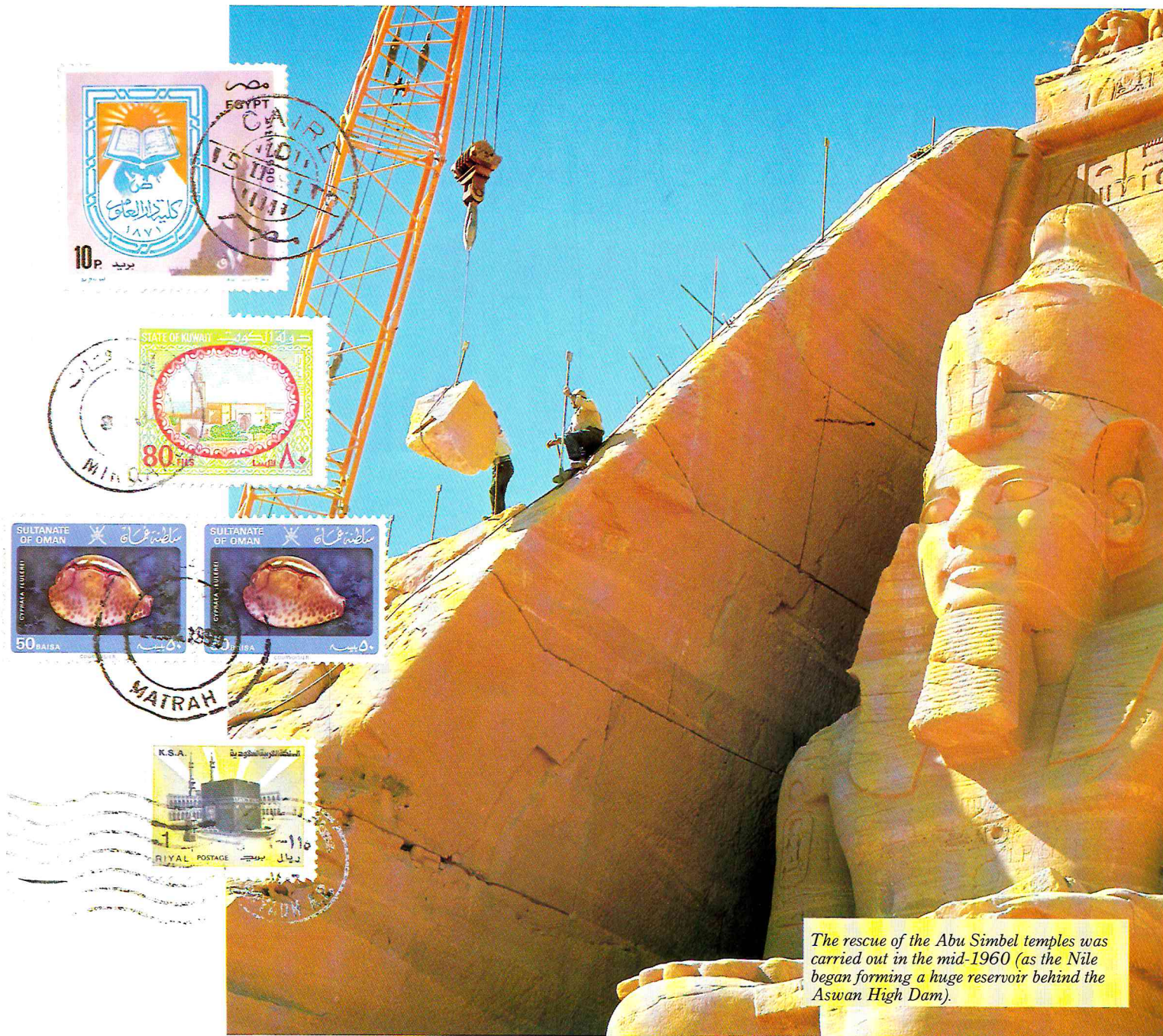
Enquiries: Miguel Borrero, Urb. La Brisas-3,
Siroco 26, 41926-Mairena del Aljarafe, Spain.
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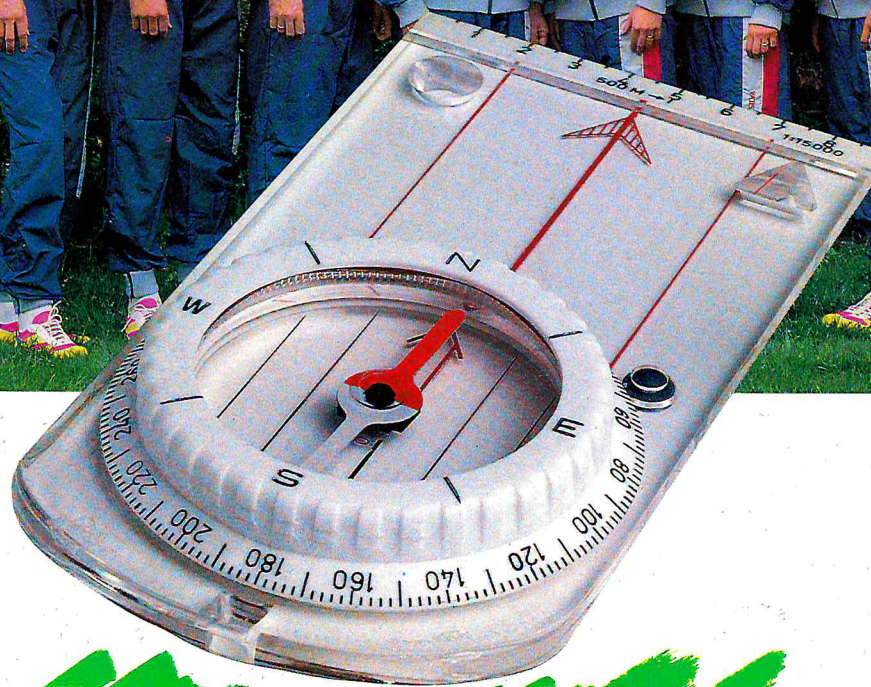
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