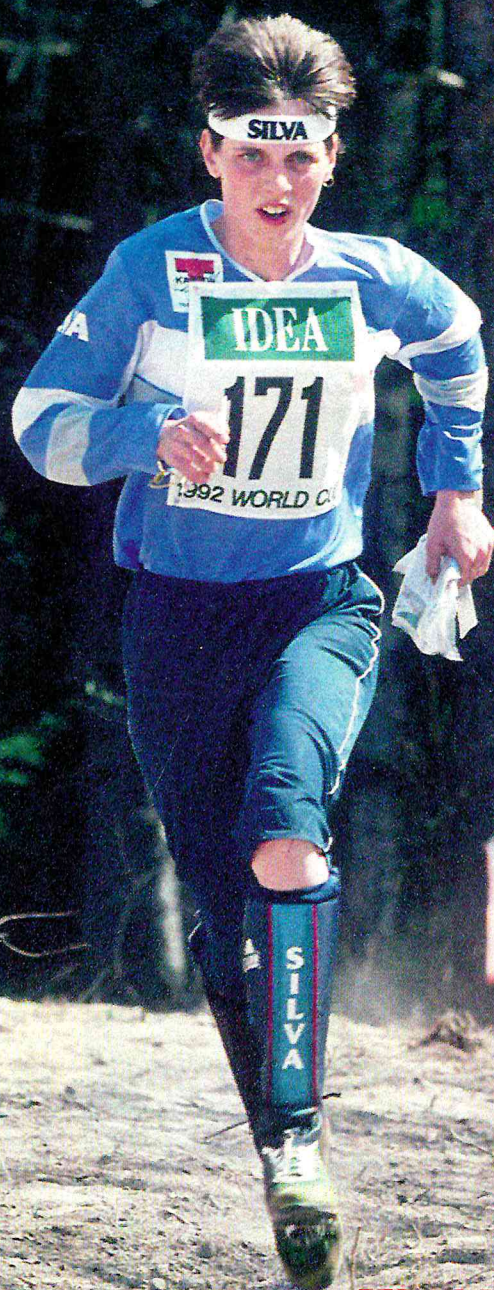


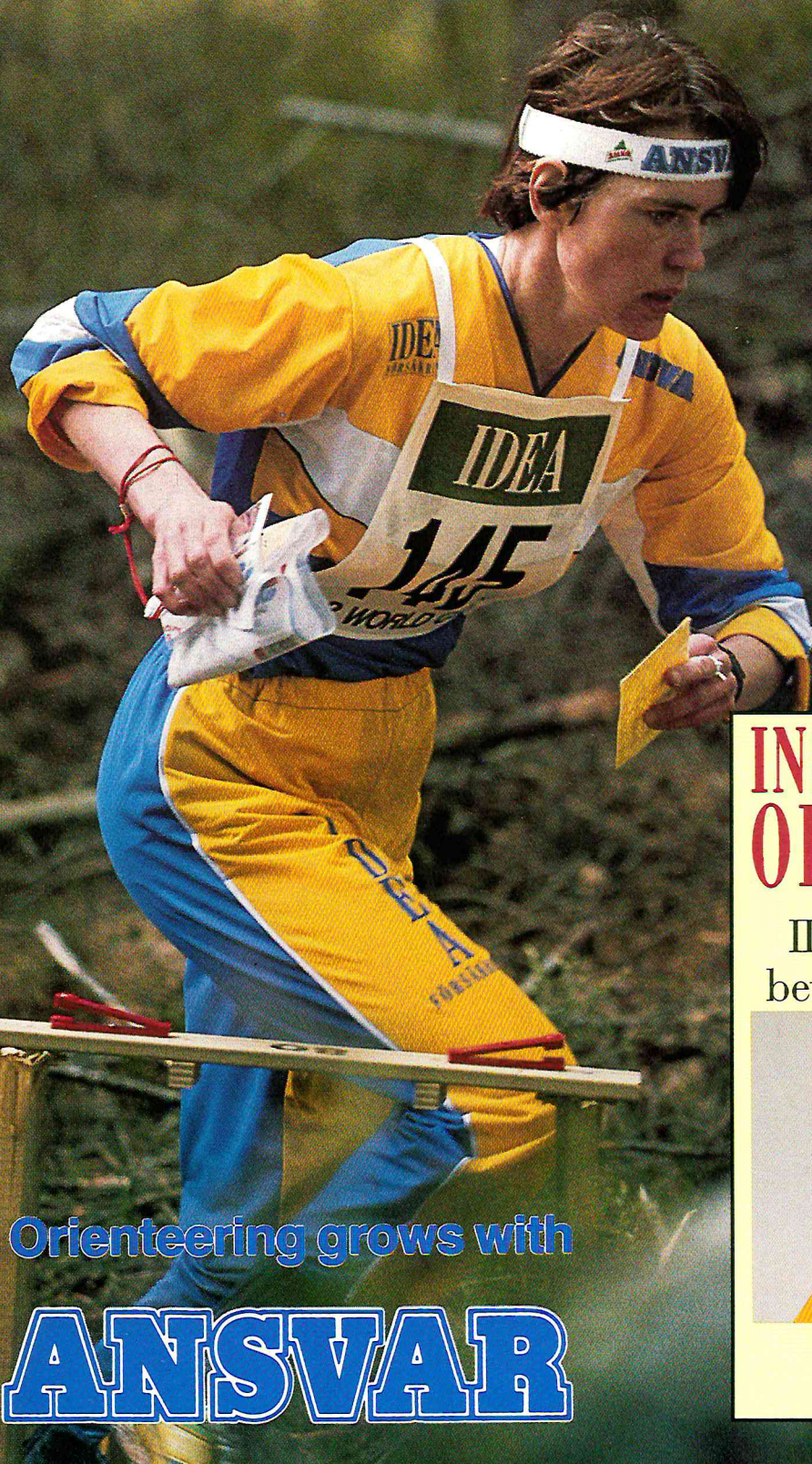
ORIENTEERING WORLD



1993 NO. 2 MARCH

Special Elite Feature
World Championships '93:
Classic Race Rankings
Spectator Opportunities
Ski-O Review & Results

IDEA INSURANCE



Orienteering grows with
ANSVAR

INSURANCE FOR ORIENTEERS

IDEA can offer you
better value insurance



*Jörgen Mårtensson
World Champion*

ORIENTEERING WORLD

OFFICIAL JOURNAL OF THE
INTERNATIONAL ORIENTEERING FEDERATION



1993 ISSUE NO. 2 MARCH ISSN 1015-4965

Editor-in-Chief : Lennart Levin,
Secretary General, IOF

Editor : Clive Allen

Editorial Address : Tyttebærvej 3, Sejs,
DK-8600 Silkeborg, Denmark.
Tel.: (45) 86 84 55 02
Fax: (45) 86 84 65 04

Advertising : contact Clive Allen at the above
address, or the IOF Secretariat.

Subscriptions (6 issues yearly) :
Europe and all surface mail - SEK 125,-
air mail outside Europe - SEK 155,-

Send subscriptions to IOF, Box 76,
S-191 21 Sollentuna, Sweden.
Tel. (46) 8 35 34 55, fax (46) 8 35 71 68
Post giro account no. 84263-3
VISA, Mastercard & American Express accepted.

or to one of the subscription agents :
Compass Sport, 25 The Hermitage, Eliot Hill,
London SE13 7EH, England. GBP 13.50, air mail
outside Europe GBP 16,- or use VISA or Mastercard.

Peter Gehrman, Holunderweg 39, D-4815 Schloss
Holte, Germany. DEM 36,- to account no. 13113857
with Sparkasse Bielefeld, BLZ 480 501 61.

Sidney Sachs, 6212 Thomas Drive, Springfield, VA
22150-1220, USA.
USD 21,- (surface mail) or USD 26,- (air mail).

The Australian Orienteer, P.O. Box 263, Jamison
Centre, ACT 2614, Australia. AUD 29,- (surface
mail) or AUD 34,- (air mail).

Baliza, Parla 2, E-28991 Torrejon de la Calzada,
Madrid, Spain. ESP 2.300, or air mail ESP2.850.

Frans Vos, Buurtscheuterlaan 67,
NL-6711 HS EDE, Netherlands.

Clive Allen, address above. DKK 125,- (air mail
outside Europe DKK 155,-)

Production by JCA Editorial & Design Services

Printed by Simpson Drewett & Co Ltd, 70 Sheen
Road, Richmond, Surrey, England TW9 1UF

Published by the International Orienteering Fed-
eration, Box 76, S-191 21 Sollentuna, Sweden.
Tel. (46) 8 35 34 55, fax (46) 8 35 71 68

CONTENTS

Editorial	2
News from Around the World	3
<i>Review: Orienteering for the Young</i>	4
Sweden Aims for Biggest 5-Days Ever, Despite Tragic deaths writes Åke Jacobson	4
Elite feature:	
"We Must Make Changes!" says Petter Thoresen	6
Katalin Oláh - Preparing for 1993	7
The Elite Season's Curtain Raiser	8
The Slovak Republic - New IOF Member by Juraj Nemec	8
Anders Montelius on what it's like to be a Swedish Coach in Israel	9
The 1993 World Championships - Book Your Tickets Now!	10
IOF News:	
The January IOF Council Meeting	11
The Classic Race Crush - the WOC Ranking Process discussed by Frauke Schmitt and Geir Tveit	13
The 1993 Ski-O World Cup - a Battle with the Weather described by Peter Gehrman	15
Sundsvall - the Home of Ski-O by Nils-Olov Skott	17
Ski-O Results and Historical Highlights	18
World Championships in Ski-O 1975-1992, Relay Results	19
<i>The Hi-Tec Column:</i>	
Bringing Overprinting Out of the Middle Ages	20
Letter to the Editor	21
International Fixture List	22
Events Noticeboard	24

NOTES FOR CONTRIBUTORS

All contributions should be sent to the Editor to arrive not later than the deadlines listed below. Text and graphics may be sent on floppy disk - ring first to check compatibility and also send printed copy.

Letters and photographs for publication are welcomed.

Permission from the Editor should be sought prior to reproduction of articles or photographs.

Opinions expressed in Orienteering World do not necessarily represent the policy of the I.O.F.

ISSUE NO.	PUBLICATION DATE	CONTRIBUTIONS DEADLINE
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: Jana Cieslarová, Czech Republic, World Champion at short-distance, in winning ways again in the World Cup race at St. Petersburg last year
photo: Keith Samuelson

Editorial



SPRINT-O: The Way To Recognition?

Clive Allen

Petter Thoresen in his article on page 6 identifies some of the reasons for our continued struggles to gain media recognition. The nature of our sport at world-class level, both technically and physically, is not properly understood even by the every-Sunday club orienteer, never mind the 'man in the street', whose image of orienteering, if he has one at all, is too often one of map and compass exercises done by boy scouts or in the army. And the images we like to project, such as 'the family sport', often make orienteering appear more as a recreation than a serious sport.

World-level fixtures

Petter also attacks the world-level fixtures structure. This year, only a World Champion-

ship in the depths of October - nothing to focus on, no adequate way of testing form, beforehand. It's perhaps no wonder that we find difficulty in persuading the media to highlight our 'world-class stars', when a whole summer season goes by with no 'world meets' to publicise! If we were able to change to a plan where, *every year*, there was a rich programme of World Cup races, run largely within existing weekend and multi-day events, leading up to a World Championships in the late summer or early autumn, the benefits to be derived from the consistent and regular media spotlight could be considerable.

What should we offer?

Just what we offer for TV remains a major challenge for orienteering, and it is one where world-class orienteers can take the lead. They insist that the true nature of orienteering must not be compromised when seeking a form of competition which will go down well on TV. Quite right too - up to a point. But we can't have too many TV programmes like the one showing the WOC individual race in Sweden in 1989, when viewers spent half the time staring at empty forest. In that type of situation, the method used with golf,

of following the story by showing a sequence of play-backs from different locations, at least would maintain some interest, especially if map segments and route choices were shown on screen and there was a really well-informed commentary.

Finding a 'package'

But it is shorter, 'packaged' sports events which make really compelling tele-watching. A few years ago, short-distance orienteering was put forward as the 'TV version' of our sport. More intense, greater obvious pressure on the competitor, it was said. But what happened? At the short distance race in the last World Championships, television and the many spectators had precisely the same kind of view as of the classic race - just of competitors on the run-in to the finish.

However, there *have* been some highly successful experiments in a different form of short distance, most notably in the World Cup event in Sweden last year when competitors ran 3 short loops, with 2 map exchanges. This kind of event needs detailed terrain and some clever planning, and - here's the real problem - many are saying it's not 'real orienteering', and thus

there is some hesitation about staging more events like this.

The one-man relay style of short distance is clearly the most promising format yet invented to produce riveting live TV - but just the occasional event achieves nothing long-lasting. A good idea also needs a catchy name - Sprint-O of course - only used for this style of event.

A World Series?

Maybe an annual World-Series Sprint-O would catch the imagination of a few influential TV producers and help get us over the media-image-profile hurdle? Whenever the world's elite meets for a World Cup race, there could be a World-Series Sprint-O event too, say on the afternoon or evening before. It would need careful research, to get a standard event format which is just right and a TV-style which tells the viewer exactly what is going on and how the orienteer is thinking; also positive planning to set up an exciting series of events, and a lot of negotiation for sponsorship and TV guarantees - but not least, it would need to have the backing of the top runners. There might be some small losses in terms of 'quality orienteering', but the gains could be immense!

THE ESTONIAN ORIENTEERING FEDERATION

INVITES YOU TO

XX MIDSUMMER EVENT
23-24 JUNE 1993

OK TON FRIDAY FESTIVAL
25 JUNE 1993

I OPEN BALTIC SEA GAMES
26-27 JUNE 1993

INTERNATIONAL ORIENTEERING EVENTS

VENUES: Kolgakula, Valgejõe, Põlula and Vinni, 10-40 km from Rakvere, 70-110 km from Tallinn.

CLASSES: H/D21E,A,B,C, H/D35A,B, H/D40A,B, H45A,B, D45, H/D50, H/D55, H/D60, H65
H/D20, H/D18, H/D16A,B, H/D14A,B, H/D12, H/D10.

TERRAIN: from flat to moderately undulating areas with many roads, paths and rides. In parts very rich in small contour features. Runnability from good to quite restricted.

COURSES: 23/6 and 26/6 Normal; 24/6 and 27/6 Short-distance; 25/6 training courses.

ENTRY FEES (in Estonian Kroons):

	23-24/6	25/6	26-27/6	T	T(SEK)	T(FIM)		23-24/6	25/6	26-27/6	T	T(SEK)	T(FIM)
H/D20+	140	30	140	300	200	150		600	300	600	1500	1000	750
H/D12-18	70	15	70	150	100	75	H/D16-18	450	250	450	1150	750	575
H/D10	free entry to all competitions						H/D10-14	300	150	300	750	500	375

The facilities cost includes hotel accommodation in Vosu (70km from Tallinn), catering and transport.

ENTRIES: until 15 May 1993 to the Estonian OF, Regati 1, EE-0019 TALLINN, Estonia, fax +372 2 238355.

Payments (free of charges) to the EOF account no. 100020-211-FIM-1565EE in KOP, Aleksanderinkatu 42, SF-00100 HELSINKI, Finland, or to the EOF Officer on arrival.

ENQUIRIES: Mati Poom, Estonian OF, tel. +372 2 237021, address and fax as above. Invitations available.

MIDSUMMER IN ESTONIA - WHY NOT!

AROUND THE WORLD

Latest IOF members - Belorussia

Our 41-member family will soon grow by one! Recently Belorussia forwarded her application for IOF membership. The Belorussia Orienteering Federation (office in Minsk) was, like the IOF, born in 1961. Orienteering is thus well developed in the country; over the years many orienteers have won championships in the former Soviet Union and also represented SU as members of the national squad. The Belorussian Federation, which can be expected to be appointed Provisional Members of the IOF at the next Council meeting in April, invites all orienteers to participate in their national events.

Elite Activity Stopped in Sweden

The Swedish Orienteering Federation SOFT decided in mid-January to halt training and competition activities for all elite runners until mid-June; full details are given on page 5. The other Nordic nations have decided not to follow suit. Hardest hit are Sweden's ski-orienteers, unable to take part in any World Cup competitions after the first two rounds at the New Year.

Media coverage of the tragic deaths amongst elite orienteers in Sweden and the rumours of possible causes has been world-wide and often a distortion of the known facts with sensational headlines.

Nordic Relay League Inaugurated

Results from five of the Nordic countries' biggest relay events will count for the new Nordic Relay League which is expected to attract many strong club teams in 1993. Modelled on the highly successful Finnish league, points will be given for placings by women, men and a combined score, with the four best sets of results counting for the final league positions. The events chosen for 1993 are: 21/3, Spring Cup, Denmark; 17/4, Vårstafetten, Norway; 12-13/6, Jukola, Finland; 15/7, 'World Meeting', Sweden; 24/10, Smålandskavlen, Sweden. Contact-persons for more information are Aki Saranen, Suunistusliitto, PL 27, SF-00241 Helsinki and Lars Simonsen, Slangerupgade 20, 1.th., DK-3400 Hillerød, Denmark.

Wedding Bells in Spain

The weekend 19-21 March will be a busy one for a number of Spain's leading orienteers: not only is it the weekend of one of the most important competitions in Spain, the Martin Kronlund Trophy which will be held in the mountain area north of Madrid, but on the Friday it is wedding-day for two of Spain's most well-known orienteers - Eusebio García Gómez, Secretary General of the Spanish Orienteering Association, Agrupacion Española de Clubes de Orientacion (A.E.C.O.) and Editor of their magazine *Baliza*, and Immaculada González Vega-Leal, one of the first women on the A.E.C.O. Council.

Spain will apply to stage a World Cup event or the Veteran World Cup in 1998 or 2000, reports Eusebio Garcia Gomez. General elections for a new government and parliament are expected in Spain in 1993, after which permissions from the authorities to stage major events are expected to be easier to come by.

World's First Permanent Trail-O Course

An important development on the trail-O scene was the opening late last year of a permanent course in England's Lake District designed specially for orienteers in wheel-chairs. Modern trail-O ideas have been employed; at ten of the fifteen control sites, participants are asked to choose which of three labelled posts is the one circled on the map (scale 1:5,000), and at the others the position of the single post has to be identified on the map. All the sites are clearly visible from a well-maintained gravel track. The course is based on a forestry visitor centre with an extensive range of other facilities. For more information, telephone (44) 7687 78469.

Hong Kong Coaching Clinic

Hong Kong will be the base for an O-ringen-style coaching clinic in May this year. Coaches from neighbouring federations including China, Japan, Korea and Malaysia have been invited. Peter Palmer (GBR), en route to Australia, will be one of the instructors. Further information and invitation forms can be obtained from Patrick Ng, Hong Kong OF, telephone (852) 891 2691 or fax (852) 893 5654.

Skogssport's World Rankings

The annual rankings published by Sweden's orienteering magazine *Skogssport* are always awaited with eagerness. This year sees Joakim Ingelsson and Marita Skogum, respective winners of the men's and women's World Cup series, heading the lists. The top ten men and women in 1992 were:

MEN

1	Joakim Ingelsson	Sweden
2	Petter Thoresen	Norway
3	Allan Mogensen	Denmark
4	Martin Johansson	Sweden
5	Jörgen Mårtensson	Sweden
6	Keijo Parkkinen	Finland
7	Håvard Tveite	Norway
8	Anders Björnsgård	Norway
9	Björn Valstad	Norway
10	Thomas Bühner	Switzerland

WOMEN

1	Marita Skogum	Sweden
2	Yvette Hague	Great Britain
3	Jana Cieslarova	Czechoslovakia
4	Anette Nilsson	Sweden
5	Annika Zell	Sweden
6	Alida Abola	Latvia
7	Ragnhild Bente Andersen	Norway
8	Eija Koskivaara	Finland
9	Annika Viilo	Finland
10	Anna Bogren	Sweden

Joakim Ingelsson could only make third place in the Swedish national rankings, however, behind Lars Holmqvist and Per Ek. World champion Jörgen Mårtensson is in 4th position. The first three ranked in the D21 list are Marita Skogum, Anette Nilsson and Annika Zell.

REVIEW

'Orienteering for the Young - Guidelines' by Tom Renfrew, Carol McNeill and Peter Palmer, published in 1993 by the IOF, price 30 SEK

This 16-page A5 booklet, written by three British orienteers who are highly regarded for their innovative work in this field, examines and provides recommendations on the many different issues which require consideration when providing orienteering experiences, in educational, recreational and sporting contexts, for young people. Whilst orienteering more than most sports has the capacity to adapt to different cultures, ages and abilities, it is also one in which enthusiasm and confidence is quickly destroyed if courses are too difficult and children become badly lost; the opportunities and the dangers - different at different age levels - are fully explored and effective practices and procedures outlined.

Three Age Bands

The first section of the booklet includes an introductory rationale, definitions, the aims of orienteering activity training, the means by which these can be achieved, and general recommendations. Starting orienteering, the development of skills and the nature of competition is then discussed for each of three age bands: children 10 years old and under, those in the range 11 - 14



years, and youngsters 15 years old and over. The stepwise development of orienteering skills is emphasised throughout, and suggested activities are related to children's physical and mental maturity levels and attitudes at different ages; the social side of orienteering is not forgotten.

Recommendations & Guidelines

The recommendations and guidelines are generalised in a way which makes them applicable in the many different national systems. The booklet includes figures showing, for example, sample maps for introductory work and the way in which orienteering has links with many parts of the school curriculum. A full bibliography is included.

Teachers, coaches, club leaders and many others will find this booklet an excellent basis on which to build up an effective programme for young people, using orienteering's capacity to "present a most attractive dimension of taking place in beautiful environments and offer competition against self as well as other people; to cater equally well for children with physical or mental disabilities as for athletic, competitive youngsters; to offer an adventure sport in town parks for city children or exploit the wider challenges of forest or mountain".



Sweden Aims for Biggest 5-Days Ever Despite Tragic Deaths

Åke Jacobson, President of the Swedish Orienteering Federation SOFT and IOF Vice-President, describes the intensive investigations under way in Sweden and the decisions taken by SOFT covering the first half of the year.

It may sound like a contradiction - the image of unexpected, sudden deaths and restrictions on training and competition on the one hand and the pronounced ambition to make an all-time high in level of activity on the other. But it isn't!

For the vast majority of orienteers in Sweden there are no risks at all in continuing training and taking part in competitions. Only among a small group of elite orienteers has there been noticed an unexpectedly high frequency of a form of

heart affection, the effects of which have caused the deaths of 8 young orienteers during the last three years.

The widespread publicity around these sudden, unexpected deaths has damaged the positive image of orienteering as a healthy and safe sport for all. Parents, about to send their children to beginners' courses, tend to hesitate. What risks may be involved? And there is also a worry among already established orienteers.

In such a situation there are not

words enough to convince, only action can prove to those hesitating that there are no risks involved. Orienteering is still the same nature sport whose trademark remains health, safety and the only true sport for all. Only by practising the sport, by showing up at events, can we prove to outsiders that this is a fantastic sport and that everyone should give it a try. That is also the main reason why we are now filled with the ambition of making this year a spectacular year of orienteering in Sweden with more runners than ever in our events.

Some 700 major national events will be organised this year, starting in early March in the southern part of Sweden, and the 60,000 or so orienteers below elite level in this country will take up their competition as usual. During the spring season the elite runners will concen-

trate their training on the other training components than running which also have to be practised to become a World Champion.

Nevertheless, the fact is that 8 young orienteers have died during the last three years. We are firmly dedicated to solving that problem once and for all. The cause of the deaths is known - a severe rhythmic disturbance of the heart following on from a heart affection. What causes the affection, however, is not yet fully known.

Micro-organisms

The affection is an uncommon type of myocarditis and it is most probably caused by an infectious matter, which is still unidentified. Two different, but similar, micro-organisms have been found in the heart muscle of deceased runners. It is still not known if one of these, the two together, or even a third factor is involved in causing such a serious condition that the runner dies.

Difficult diagnosis

The number of deaths during a limited period of time eliminate the possibility that it is just a coincidence. Further medical examinations of a large number of runners have proved this. In the on-going so-called '240/3000' programme a number of orienteers with similar symptoms and more or less advanced heart affection have been identified. Between 40 and 50 runners are under treatment with antibiotics, the majority fortunately without any signs of a heart affection. The problem facing us is that this kind of myocarditis is very difficult to diagnose. We must not forget that five of the deceased runners had been through a comprehensive heart examination without this affection being diagnosed.

The infection as such is harmless, and under normal circumstances recovery takes place without treatment. The reason why only elite runners get seriously affected is probably the combination of an infection and continued hard training. It is known that the initial symptoms are few and that the incubation period is long. The runner may well get the infection without knowing it and continues with high quality and intensity training. It is a well-established fact that training in combination with an infection may cause heart affection, and the harder the training, the more likely the affection is to be serious.

Changes in events programme

The best way to remedy the situation is for the elite runner to take it easy for a while. Rest will cure most of the affected runners. Therefore, in order to support the runners and to avoid pressure being put on their shoulders, we have decided to drop all elite classes in our spring events and to recommend elite runners to refrain from training and participation in competitions until June 15th. We have also decided not to take part in certain major international events such as the Open Nordic Championships and the Junior World Championships this year.



The Family Sport - no cause for concern here photo: Bratislav Koc

Some Facts about the Situation in Sweden

The casualties:

- * 15 orienteers have died a sudden, unexpected death since 1979 (8 of them during 1989-1992)
- * Average age 26 years (range 18 - 45)
- * 14 male and 1 female runner
- * All practising orienteering at high elite level or with a corresponding training level
- * All deaths caused by a myocarditis and severe rhythmic disturbances of the heart
- * Infectious matter with few symptoms and a long incubation period

The Medical Programme:

- * 240 top elite runners in extensive medical investigation, December 92 - March 93
- * 3000 runners being blood-tested

The Economic Aspect:

- * Total budget for investigations in 93: SEK 6 million
- * Contributions from orienteers so far: SEK 1.5 million

- * From the Government: SEK 750,000
- * From medical authorities: SEK 1.5 million
- * From the Swedish Sports Confederation: SEK 250,000

The Aim:

- * New medical evaluation, end of March
- * Revised recommendations from SOFT: at the latest, April 15th

Measures:

Recommendations until June 15th:

- * Competition programme carried out mainly as originally planned
- * Elite runners (ranked runners) recommended to refrain from training and competing

Measures during the period up to June 15th:

- * No elite classes
- * No training camps for the elite
- * No participation in Nordic Open & Junior World Championships
- * The well-known 'Tiomila' relay moved from May to 14-15 August.

Orienteering World Elite Feature

Many world-class orienteers are unhappy - about competition standards, about the elite competition programme and about the lack of recognition in many quarters of their important role as ambassadors for our sport. Will we ever be seen as an exciting, high-profile sport if we carry on as we are?

PETTER THORESEN, Individual World Champion in 1989, says

We must make changes!

As a sport, orienteering will face great challenges in the future. The 'living conditions' for small sports are getting harder and harder. Why I think it will be particularly hard for orienteering to survive is that our sport gets very little response or regard from the media and from people in general.

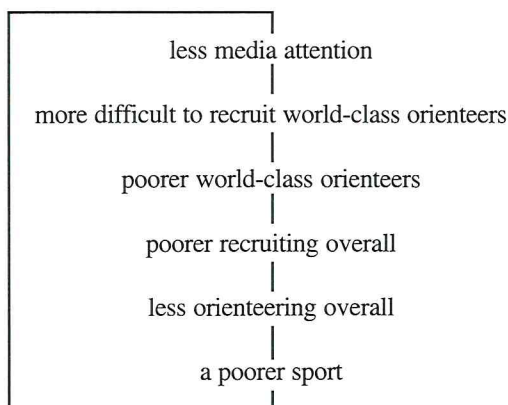
Why is it like that? We have a great sport. It is for everyone, it's close to nature, it's physically and technically demanding, and so on.

Equal, Yet Not Equal

The biggest problem in orienteering is ourselves. We like to claim that everyone is alike in orienteering and that there is no difference between the world-class orienteer and the other orienteers. Yes, as human beings we *are* equal, one not better than another, but as sportsmen we are very different. In fact I am prepared to go so far as to say that the way we do the sport is *totally* different. We must all be willing to accept this difference if we want to be seen in the media and acknowledged by the audience. The elite is the 'face' of orienteering and that's how it should be.

Orienteering needs this 'face' desperately, if we are to achieve widespread acceptance for the sport. It is important to show that it takes great effort to be a world-class orienteer, that there are world-class orienteers in many countries, that we do a very tough sport - and that we also have a big crowd of healthy people doing the sport mainly to get out in the fresh air.

I think of the problem as a 'vicious circle':



Petter Thoresen relaxes with his 9-month-old son after a winning run at the Nordic Championships last September photo: Christer Svensson

Making Orienteering into a Good TV Sport

I believe orienteering could be a very good TV sport. I do not think the sport is easy to make interesting for spectators if they themselves are not orienteers. But if we can make orienteering into a good TV sport we will have achieved a lot. What do we have to do?

- 1. We must try to accelerate the process of making a system which shows on the TV what is going on in the orienteer's mind;*
- 2. We must change the fixture-plan dramatically to make the season more interesting for media, spectators and the runners.*

The IOF must take the lead to develop a system for no. 1, and also work out how it can be financed. The IOF has the responsibility for developing the sport; the media cannot do that for us.

New Fixture Plan Needed

When it comes to the fixture plan - it's hopeless nowadays! How can a spectator or the media manage to follow the World Cup series when I, as a runner, have big problems in analysing the lists and assessing my chances before the last two races?

I would like to see:

- * the World Cup as part of ordinary competitions, e.g. the Swedish 5-Days;*
- * maybe 20 World Cup events per year, or more - the hardest World Cup in the world!*
- * a more easily understood points system in the World Cup;*
- * World Championships every year;*
- * the international season running from mid-May to the beginning of September.*

The World Cup

We have a lot of big international competitions, but very few world-class runners take part in them. In the beginning, it was intended that the World Cup would be arranged as part of international competitions; we should go back to that practice. That would be better for the runners, the organisers and the sport as a whole. Of course the organiser needs to work to World Cup competition standards laid down by the IOF, together with advice on how to promote the event for TV.

World Championships

We are not an Olympic sport, but it is a fact that fewer World Championship medals have been awarded in orienteering than Olympic medals in alpine skiing over the last 20 years! Is it not strange that, it seems, we try to 'hide ourselves'? We need to be seen more often, and I think a priority is to have World Champions every year.

Shorten the Season

It is also important not to have too long an international season. Then there is time for some relaxation - in national events in night, relay and long-distance running - and of course to take part in club activities.

There are a lot of thoughts here - each one serious, but perhaps not every time well-founded. I hope this article leads to some discussion and later to some fundamental changes. We should not try to change the sport itself, but we *must* move with the times and not be dragged along behind.

GET IN PRINT!

Letters on this and any other subject are welcome and should be sent to the Editorial address in Denmark.

Good-quality photographs - black & white or colour - are also very welcome.

Katalin Oláh - Preparing for 1993



The experts awaited classic-distance World Champion Katalin Oláh's result in the 1992 Hungarian Championships in October with interest; she had seldom been seen at an orienteering event earlier in the year and competed in only one World Cup event.

She again proved a worthy champion however, winning by more than 6 minutes. In this interview, Gábor Honfi asks Katalin about her plans and hopes for 1993.

We saw you only seldom in 1992 - why?

"In 1991 I had already spent my time much more with athletics, and as there was no World Championship in 1992, athletic competitions kept me fully occupied. Until I was 18 I raced in 1500m and 3000m races and cross-country; after that came orienteering for 4 or 5 years, and now both together.

What are your targets while preparing yourself?

"Together with my trainer I have set a time of 2 hours 40 minutes in the marathon as my target. Finally things worked out such that in 1992 I started only in competitions between 3 and 21km. My best time in 3000m is 9:25. I very much enjoy the competitions on the streets too. I ran in Marseilles, Amsterdam, Nürnberg and in many other European cities.

How will you prepare yourself for the 1993 season?

"Well, I started basic training in November. In the spring I would like to run the marathon in Vienna and then I am going to start training for the World Championship in the U.S.A. My results will be dependent firstly on the course, and since I have no opportunity to go earlier to the States, my target can only be somewhere amongst the first ten.

What do you do when you are not running?

"I like to go to other sports competitions with my friend Tibor Bajzer who is an athlete. He can run well too - he won the marathon at the Students' World Championships four years ago and he is the Hungarian Champion at 5000m this year."

THE AUSTRALIAN ORIENTEER

National magazine of the ORIENTEERING FEDERATION OF AUSTRALIA

Published six times per year, each issue contains a variety of news and feature articles about orienteering in Australia and internationally.

Annual subscription (Australian dollars). Airmail: Europe \$39, North America \$36, Asia \$34, New Zealand \$30. Surface mail (all countries) \$28.

Two year subscriptions for twice these amounts.

Send bank draft or international money order in Australian dollars to
The Australian Orienteer, P.O. Box 263, Jamison Centre, A.C.T., 2614, AUSTRALIA

The Slovak Republic - New IOF Member

From 11 January 1993 the IOF has two new members as a result of the splitting of the Czech and Slovak Federal republic into two separate states. JURAJ NEMEC describes orienteering in the Slovak Republic.

The Slovak orienteering movement is represented by the Slovak Orienteering Association, which is 42 years old and at this moment has 768 members in 24 clubs. These figures show you that orienteering in Slovakia has a good tradition, but it involves only a small number of the population. This may seem surprising, because there are very good natural conditions for orienteering in Slovakia - about 30% of the country is covered by forest.

A 'Critical Circle'

We think that this situation is the result of two important factors - the Slovak people are not very active in sport, and the promotion of orienteering is not at an appropriate level. This situation creates a critical circle: few experienced trainers and organisers means few new people coming in to orienteering - so few new trainers and organisers. To break up this circle is priority number one for the Slovak Orienteering Association.

World-Class

The situation in top-level orienteering in Slovakia (be careful not to confuse Slovakia and Slovenia!) is determined by these general conditions. The Slovak Association has only a small number of runners able to compete successfully in the best international events, but some of them do achieve very good results. In summer orienteering, everyone knows Jozef Pollák - the winner of the World Cup event in Austria last year and participant in previous World Championships (a Silver medal in the relay event in Hungary in 1983).

In ski-orienteering, women carry the flag for Slovakia. The most experienced is Maria Paráková, a participant in World Cup races in 1989, 1991 and 1993. Her best result is her 7th place in Austria this year.

What can Slovak orienteering offer foreign runners? Firstly, the chance to run in our biggest international event, the Grand

Prix Slovakia - this year to be held around the well-known spa centre Piest'any. In 1994 it will be in 'negative terrain' at nearby Kosice. Secondly, the chance to participate in all Slovak championships - classic, long, short distance, night and ski-orienteering and many other events. Thirdly, the chance to train in good terrain - mountainous or flat - and get very good value for money.

Promotion

One of the most important issues for the development of Slovak orienteering is to im-

prove the promotion of our sport to the public. That is why the Slovak Association is applying to stage the highest levels of international competition. To start with, we are ready to invite runners to compete in the 1996 Junior World Championships in ski-O and we plan to organise a Junior World Championships or Veteran World Cup in summer orienteering. We hope the IOF will give us the opportunity to introduce our country to the whole orienteering world.

Slovak orienteers extend an invitation to all runners and officials to visit our country.



Jozef Pollak, star of Slovakian orienteering

photo: Bretislav Koc

The elite season's curtain-raiser: the FIF Spring Cup in Denmark

Some other events have challenged this claim by FIF Hillerød, one of Denmark's leading clubs and the organisers of the Spring Cup on the third weekend in March. But it is fair to say that it is the first really big weekend meet of the year for many of Europe's elite runners. How has it established this position?

Publicity

A high profile for publicity and marketing has been one of the ingredients. This attracted, in 1992, much support from the local community and sponsors which enabled FIF Hillerød to offer a generous entry and accommodation package to runners from the Baltic states and other Eastern European countries. Another factor is the weekend's format, starting with a night sprint on the Friday evening with classic and relay events on the two

days following. The high quality of terrain and the ease of travel to the Copenhagen area must also be important causes.

Media Appeal

A high level of spectator and media appeal carries high priority with the organisers. In this year's classic race, two runners will start at the same minute and take controls in different order before coming to a map-exchange beside the assembly area at the half-way

point. With the best runners seeded into the last start-block, the excitement can be expected to reach a climax with some intense head-to-head running likely towards the end.

Twenty non-Nordic national teams have received special invitations for the 1993 Spring Cup, which again promises to be an exciting start to the elite season. Perhaps the name should have a re-think though - snowy conditions prevailed in 1992!

ANDERS MONTELIUS recently spent two weeks in Israel on behalf of the IOF. Here he describes the problems for elite orienteers in a country with high ambitions and a rapid growth in participation levels.

A Swedish Coach in Israel

Although orienteering is a very young sport in Israel, and there are only about 1,000 orienteers, they already have very high ambitions. To help develop their elite orienteering they asked the IOF and the Swedish Orienteering Federation for help - that's why I visited Israel for 2 weeks in January this year.

I ran two clinics - one weekend for coaches and one for elite runners. The subjects in the clinics were:

- advanced O-technique;
- physical training for O;
- how to identify weaknesses.

The Israeli orienteers are very enthusiastic and they know a lot about physical training in general, but less about how elite orienteers train. A problem in Israel is the terrain - most of the countryside is open and the forests are few and rather small. In the forests there are lots of roads and paths and also rides (to stop fires). Therefore orienteering is very easy - you can just follow

handrails until close to the controls. The areas in general are not very detailed and the contours are quite straightforward.

There are about 30 orienteering maps, mostly drawn by European mappers. The quality is quite good but I think the mappers need better base maps, made from special air photos - that's probably an economic problem.

Helle Johansen (Norway) competing in typical Israel forest. Undergrowth can be tinder-dry, so good leg cover is needed.

only for competitions I think they can develop their orienteering standard considerably.

The orienteers I met in Israel were very nice people and I made many new friends there. Between the clinics I visited their



clubs and I had the chance to see different parts of a very exciting country. I think the Galilee area in the North is the best for orienteering, but there are few clubs there yet. Most orienteers live around Tel Aviv where the O-areas are not so good.

Now I look forward to the summer, when I hope some of the Israeli team will come to Sweden for the O-ringen and after that stay another week for intensive fine-orienteering training in detailed areas in Scandinavia.



In February 1992 the IOF Development & Promotion Committee, joined by IOF President Heinz Tschudin, met in Israel. From l to r: Heinz Tschudin, Don Tall (USA, now Secretary General of the '93 World Championships Organising Committee), Lech Trzpił (Poland), Michael Friedlander (President of the Israel Sport Orienteering Association), Birthe Helms (Denmark) photos: JCA

Israel has a strong club structure with a lot of enthusiastic young members, and the clubs are very keen to make links with European O-clubs and arrange exchanges, etc. To contact an Israeli club, write in the first instance to Giora Cohen, P.O. Box 1392, Ramat Hasharon 47 100, Israel.



Event Information, Israel-style

Because of the nature of the terrain and maps, the orienteering is mainly 'rough orienteering'. The Israelis are good runners on roads and paths but their running technique through the terrain is not so good. Another weakness is in 'fine orienteering' technique, and I believe that is their biggest problem when they compete in other countries. I believe they need to train a lot abroad, and I think they will do so. A lot of Israeli orienteers go to Europe in the summer when it's too hot for orienteering in Israel; if they use that time partly for technique training and not



Israeli Mapping Clinic in Ben Shemen Forest

The 1993 World Championships : Book Your Tickets Now!



The United States Orienteering Federation (USOF) has put together a splendid package of events for spectators going to this year's World Championships in New York State in mid-October. Information supplied by BILL WALLACE.

The schedule of events is shown below, and the deadline for entries is envelopes postmarked 20 August. If you are planning to be there, however, you are advised to make all arrangements as early as possible, as hotel/motel rooms get filled up quickly at that time of year by tourists enjoying the beautiful autumn colours. Accommodation is mostly to be found in the small towns of Highland Falls, Newburgh and New Windsor.

The site for the Championships is a spectacular one adjacent to the historic Hudson River valley and close to New York City. The event headquarters will be at Camp Smith, a famous old military establishment not far from West Point and the United States Military Academy. The event terrain is a blend of granite rock and forest with a lot of bouldery and stony ground and cliffs on the slopes, and also an abundance of water features. Contour detail is generally greater on the hill tops and slopes than in the valleys. The forest-covered Catskill Mountains spread to the West and North.

The climate is very changeable in October; temperatures range from 10-15°C down to 0-5°C, and all-day rain, mixed sun and clouds, and brilliant sunshine are all equally likely.

There are many tourist attractions in the region, both natural and man-made. The highlight, the U.S. Military Academy at West Point established in 1809, is open daily to visitors and has its own museum. Spectacular views can be found in the Academy grounds high on a bluff overlooking the Hudson - America's Rhine. Other attractions include the Storm King Arts Center, a 400-acre park with more than 100 outdoor sculptures, and the Bear Mountain State Park, with a wide range of recreational facilities including camping.

The World Championships Official Bulletin no. 2 is a mine of information, aimed mainly towards team officials and competitors. USOF is aiming at a high-quality event but, being a young and not rich federation, we are told not to expect too many frills or too much 'glamour'. The Opening Ceremony will be held on the afternoon of Friday October 8, followed (for competitors) by an American-style 'cookout' at Camp Smith. Four different levels of accommodation are on offer for the teams.

Entry forms and a very detailed information sheet can be obtained from Peter and Gail Gagarin, Box 481, Sunderland, MA 01375, USA; telephone 1-413-665-7573.

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.

RATES (10 issues per year):

Overseas surface mail, \$27.00;

Overseas air to Europe, \$52.00

Overseas air elsewhere, \$57.00

Please make checks payable to:

SM & L Berman Publishing Co,
23 Fayette St.

Cambridge, MA 02139 USA

Payment in US funds. Or if you prefer to use Visa or Mastercard, you may subscribe through J. Berman's Orienteering Supply Co, P.O. Box 460, Sunderland, MA 01375, phone/fax: 413-665-7822, at the following rates: Overseas surface: \$31; overseas air to Europe - \$56; overseas air elsewhere \$61.

Schedule of Events

Competitive Events Open to the Public

WOC'93 Events (spectators invited!)

Friday, Oct. 8		Opening Ceremony (mid-afternoon)
Saturday, Oct. 9		WOC — Short-O' Semi-final
Sunday, Oct. 10		WOC — Short-O' Final
Monday, Oct. 11	O' Fest 3-Day (day 1) — WOC Short-O' Final map	
Tuesday, Oct. 12		WOC — Classic
Wednesday, Oct. 13	O' Fest 3-Day (day 2) — part of WOC Classic map	
Thursday, Oct. 14		WOC — Relay
Friday, Oct. 15	O' Fest 3-Day (day 3) — WOC Short-O' Semi-final map	
Saturday, Oct. 16	K-Swiss U.S. Championships (day 1) — other part of Classic map	
Sunday, Oct. 17	K-Swiss U.S. Championships (day 2) — WOC Relay map	

The O' Fest 3-Day is 3 days of individual competition, with a chase start the third day based on the results of the first 2 days. The K-Swiss U.S. Championships is 2 days of individual competition, with the results based on combined times for the 2 days.

Start times each day are expected to be between 9:00 a.m. and noon. Entries that are sent in together will be given similar start times to the extent possible. Requests for particular start times will be followed if possible, with a preference given to early entries.



IOF NEWS

IOF NEWS

IOF NEWS



IOF COUNCIL 1992-1994

President:

Heinz Tschudin, Switzerland

Vice Presidents:

Hugh Cameron, Australia

Susan Harvey, Great Britain

Åke Jacobson, Sweden

Council Members:

Sarolta Monspart, Hungary

John Pearson, Belgium

Per Stensby, USA

Edmond Szechenyi, France

Einar Undstad, Norway

COMMITTEES AND WORKING GROUPS

Development & Promotion (DPC)

Mapping (MC)

Ski-Orienteering

Technical (TC)

High-Tech Group

Trail-O Group

World Cup Group (WCG)

Chairmen:

DPC: Birthe Helms, Denmark

MC: Thomas Brogli, Switzerland

Ski-O: Gunnar Jonsson, Sweden

TC: Geir Tveit, Norway

Trail-O: Anne Braggins, Great Britain

WCG: Anne Berit Eid, Norway

January IOF Council Meeting

Créteil Prefecture, a modern commuter satellite area outside Paris, proved to be a productive setting for Council's January meeting. A number of significant decisions were taken, a joint session with the Development & Promotion Committee was held, and much time was given to re-examining the longer-term aims and priorities of the IOF in this first Council meeting of the Congress period.

Key decisions taken were:

* **new World Championships Rules** were approved, including the selection process for the WOC Classic race (see next page);

* **all IOF events from 1996** will carry a fixed 'appointment fee' and an optional, additional fee which includes all sponsorship rights. The income raised from appointment fees will in part be used to provide additional event control;

* the plan to get **Ski-O as an Olympic sport by the year 2002** was approved;

* the **PR & Marketing Committee (PRMC)** was abolished;

* the **Czech (TCH) and Slovak (SVK)** federations were accepted as full members;

* **money prizes** at international events will in future be permitted;

* **Russia (St. Petersburg)** was appointed as organiser of the 1995 Veteran World Cup.

The **preliminary financial report for 1992** indicates a surplus of around SEK 90,000 for the year, explained by larger than predicted income from bank interest, subscriptions and advertising (*Orienteering World*), and sales.

The next meeting is in London, 16-18 April 1993.



IOF NEWS

IOF NEWS

IOF NEWS



The Why's and Wherefores - of Council's January meeting, compiled by Lennart Levin, IOF Secretary General

The 'Price-tag' Philosophy

According to the IOF Statutes, the IOF 'shall have the right to establish special financial regulations for the events it commissions'. Council believes it right that one of the sources of IOF income should be the events for which it is ultimately responsible, each event carrying a 'price tag' according to the 'inherent value' of the event. A basic appointment fee will grant the organiser (a) the right to stage the event and (b) some sponsorship rights. Full financial rights can be bought for an additional fee, if desired. The conditions to be met by organisers of IOF events are being compiled in a manual which will be approved at Council's next meeting.

The new system will come into operation in 1996; a very delicate matter is whether this introduction of a 'free market' will exclude for financial reasons certain member federations, who would otherwise be excellent organisers, from applying. Price tags for a number of IOF events in the period 1996-1999 were agreed at the meeting.

New 'Controlling Fund'

The World Cup Group, concerned over a number of aspects of the technical quality and the controlling of major IOF events, proposed to Council that the IOF appoint a salaried Technical Adviser. Council decided instead that part of the new appointment fee will be used to build up a pool of money for controlling IOF's major events. A flexible approach to the use of the fund is envisaged, with not every event being given additional controlling support.

Money Prizes - now allowed

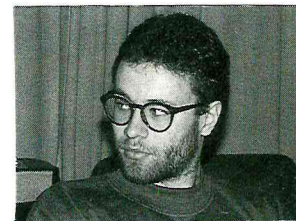
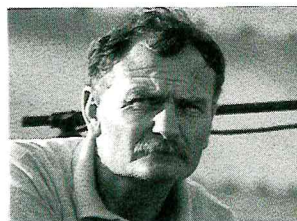
This issue has been on many previous Council agendas! Despite the Rule that 'money prizes are forbidden', they nevertheless appear at some events in some countries. The new Council has taken the view that rules which cannot be controlled shall not be maintained. The rule is therefore deleted; the fact that money prizes in orienteering seem to be of a comparatively minor size and are, after all, relatively infrequent, contributed to Council's decision.

IOF 'Project Groups' instead of Committees?

Looking long-term, Council considered the idea that *ad hoc* temporary projects would better serve most purposes, and with greater flexibility, than the present 'permanent' committees. Council could appoint knowledgeable individuals to work to achieve specific, urgent goals during a limited period of time, and once the goals were

achieved or considered to be achieved, Council would be free to dissolve the group and allocate money in some other direction.

The objectives of the **PR and Marketing Committee (PRMC)** are a good example - too broad for any committee to handle in a meaningful way, and in many instances perhaps best handled at national or club level. Council therefore decided to abolish PRMC, and has asked two experienced persons, both members of the Development & Promotion Committee, to define project-oriented tasks in their specialist fields. The two are **Christian Aichholzer** (Austria), author of 'Media Coverage in Orienteering' and **John Brock** (Australia), who did a marvellous job marketing the 1992 Veteran World Cup in Tasmania.



John Brock (l) & Christian Aichholzer - given PR and media tasks

Olympic Issues

The relationship of orienteering with the Olympic movement came up on two occasions. The Ski-O Committee presented its ambitious plan to get on the Olympic programme at the 2002 Winter Games, and Council gave it full approval. To be eligible, a winter sport must be performed at high-quality level in 25 countries and 3 continents. Since 20 countries from 2 continents competed at the 1992 Ski-O WOC in France, we're not far off the target. Promotion activities will be concentrated on the East Asian region, particularly Japan, and the project is planned to be self-financing.

In 1994 the **IOC's Centennial Congress** takes place in Paris. As a 'recognised Olympic sport', orienteering should have the opportunity to make a presentation at the meeting, and Council decided that we should try to have a place allocated on the agenda for this purpose.

'IOF Travel Agency' not supported

A proposal from world champion Jörgen Mårtensson that the IOF should establish its own travel agency to co-ordinate travel plans to its own events, so as to encourage more overseas travel and at the same time gain further income, did not gain the support of Council. It was felt that both practical and legal arguments were against the IOF becoming involved in such a venture.

TELEPHONE NUMBER CHANGES IN BALTIC STATES

The prefixes for the Baltic states have recently changed:
the Estonian OF prefix is now 372 2 instead of 7 0142;
the Latvian OF prefix is now 371 2 instead of 7 0132;
the Lithuanian OF prefix is now 370 7 instead of 7 0127.



IOF NEWS

IOF NEWS

IOF NEWS



The Classic-Race Crush

NEW RULES for the allocation of the 80 places in the World Championships classic distance race were approved in principle by the 1992 IOF Congress and in detail by Council in January. The first stage of the ranking of nations, to decide how many runners each nation will be allowed in this year's classic race, has now taken place; details have been circulated to federations and are printed below. *Orienteering World* asked FRAUKE SCHMITT, one of Germany's leading runners, to say if she believed the new rules were an improvement on the 1991 Rules which she criticised severely in *OW 91/2*; on the next page, IOF Technical Committee Chairman GEIR TVEIT gives the background to the changes and explains the present situation.

THE NEW RULES - A SUMMARY

In the classic races (max. 80 runners), one woman and one man from each nation can take part. A ranking and allocation procedure allocates additional places up to a maximum of 4 men and 4 women per nation. The host nation can have 4 runners per race, going above the 80-limit if not allocated by the standard procedure.

Men and women are ranked separately, and the ranking order is based on results in the previous WOC classic race, and then the previous World Cup series, as follows:

- (1) no. of finishers from each federation in places 1-15
- (2) no. of finishers from each federation in places 16-30
- (3) no. of finishers from each federation in places 31-45
- (4) no. of finishers from each federation in places 46-60
- (5) overall points scores in the previous World Cup series.

Where two or more nations have the same number of finishers, the nation with the first finisher ranks higher.

Members of new federations are treated as though they had competed for that federation in the last WOC or World Cup.

THE RANKINGS - STAGE 1

(assumes all nations compete with their full allocation)

WOMEN:

4 places: SWE, TCH, NOR, FIN, HUN, NZL, FRA, USA

3 places: DEN, SUI, GER, GBR, LAT, AUS, POL

2 places: BUL, EST, RUS, ROM, AUT, CAN, ITA

All other nations: 1 place

MEN:

4 places: SWE, SUI, NOR, TCH, EST, RUS, DEN, USA

3 places: FIN, GBR, LAT, GER, AUT, BUL, HUN

2 places: NZL, POL, AUS, FRA, CAN, ITA, JPN

All other nations: 1 place

"When I compare the old rules with the new ones, I can at once see one big improvement: the B-nations have a *much better deal*" says FRAUKE SCHMITT. "I set up a table (similar to that in *OW 91/2*) and compared the numbers of places. Quite independent of how many IOF member federations take part in the WOC, the following happens:

* the best nations ('A-nations') get 4 places, as they would with the old rules;

* the second group ('B-nations') gain with the new rules: none of them lose places, and many get 1 and some even 2 additional places;

* the so-called 'developing nations' are the 'losers' - their second start place goes."

However there are still some points of criticism:

(1) is it fair that if a nation has just one exceptionally good runner (in the first 15 in the '91 WOC), then it automatically gets 4 places - 2 more than with the old rules?

(2) is it fair that nations which had all their runners closely placed to each other and not far behind 15th place, only get 3 places?

(3) is it fair that those new IOF member nations which first competed as such in the 1992 World Cup, and which had good, sometimes brilliant results there, only get 1 place (because World Cup results count for less than World Championships results)?



Frauke Schmitt
(photo: Horst Gehrman)

My view is that points (1) and (2) are not at all fair, but rules for ranking nations must be defined in some way. As there are more nations winning places than losing them, I think one can live with this, even though it is hard for those nations losing places.

Point (3) is less easy to live with. I think the IOF Council should do something to correct the unjustly low numbers of runners for the best new nations. For example there could be an extra rule which, if not all nations participate fully in the WOC (a likely situation), gives the places becoming vacant primarily to those nations with very good World Cup-'92 results. This would give new nations with good World Cup results more places, and even nations losing places because of point (2) can profit.

Vacant Places

When applying the new selection rules (which are not all easy to understand), the vacant places should go preferably to nations which have only 1 or 2 places after part 1 of the process. If one creates a new ranking of nations using the same concepts as the one from the WOC classic results, but instead using the overall World Cup results, a quite different order of nations results. Vacant places which occur because not all nations take part could be distributed according to this World Cup ranking, applying the same new rules. This gives preference with the vacant places to the nations whose World Cup results last year were better than their World Championships results two years ago.

I think it is important that the nations with only 1 runner are not in the first starting block, i.e. that these runners do not have to 'trample down the grass'.

My overall view is that the new rules are better than the old. All member nations can participate in the classic race, and the number of places is distributed according to the results nations have achieved before. A good principle which it is important to preserve!

1993 WOC JURY

Barry McCrae	AUS
Anne Berit Eid	NOR
Dieter Kirkamm	GER
Lasse Niemela	FIN
Rodrigo Slavinsh	LAT



IOF NEWS

IOF NEWS

IOF NEWS



WOC Classic Distance - Allocation of Places

GEIR TVEIT, Chairman of the IOF Technical Committee, explains the background to the new rules.

Due to the growing number of IOF member federations, Technical Committee and Council asked last year's Congress in Switzerland to decide on some principles for a new allocation system for the number of runners from each federation in the WOC classic distance. Some weak points in the details which accompanied the principles were pointed out, but the principles themselves were approved unanimously by the Congress. After this decision, Technical Committee went through the details with some of the critics present.

The Main Aims

It is not an easy task to make totally 'fair' rules on this matter, and we don't believe that the

ultimate solution has been found. But the main aim of the new rules - that more federations would get 4 or 3 runners than with the former system - will be achieved with the present number of member federations. However with a bright IOF future, i.e. still more federations, we will have to look at the details once more.

The first step of the allocation procedure for WOC '93 has been taken: the federations are ranked. From this ranking list one can read how many runners each federation will get if all federations want to start with their maximum number of runners. However, earlier experience tells us this is unlikely to happen. So the number of places taken up by the basic one per federation will decrease. As a

consequence of this, the number of federations getting 4, 3 and 2 places will increase.

Fairness

When the actual ranking lists are produced, it is easy to question the fairness of that federation being ranked higher than *this* federation. Such questions can be put regardless of the ranking rules, and I will limit myself to two comments.

It was decided with our eyes open that one outstanding placing should rank a federation higher than 3 or 4 mediocre placings. This will enable an 'improving' federation to get the maximum number of runners straight away, i.e. in the subsequent WOC. The alternative proposal discussed at Congress would have meant a longer time-span for 'improving' nations to climb up the ladder.

This year we face a special prob-

lem as the Soviet Union, Czechoslovakia and Yugoslavia are split into a number of new federations. Some of these were not represented in the former federations' teams at WOC '91; therefore they are not ranked, or ranked very low based only on World Cup '92 results. Not all present at the '92 Congress agreed that the World Cup should count at all, but as a last possibility it was accepted.

World Cup Points

Now we can see that Lithuania, the Slovak Republic and the Ukraine are at the bottom of the list of ranked federations, even though they scored considerable numbers of World Cup points. One single placing amongst the 60 best at WOC '91 ranks a federation higher. This might be regarded as the most 'unfair' outcome of our current system, and I promise on behalf of Technical Committee to give it a second thought.

ALL you need to know...?

Yes, the IOF Secretariat may well have *all* the information you need, in one of its publications!

*a wide selection of
orienteering books
and pamphlets*

*Rules and Guidelines
covering
all IOF events*

*special reports,
and back numbers
of IOF periodicals*

A SAMPLE FROM THE RANGE:

NEW - Orienteering for the Young (T Renfrew, C McNeill, P Palmer) 30 SEK

NEW - Principles for Course Planning (see review in last issue) 20 SEK

Media Coverage and Orienteering (C Aichholzer) (1991) 20 SEK

Simple Maps for Orienteering (1990) 20 SEK

International Specification for Orienteering Maps (1990) 25 SEK

PRICES INCLUDE PACKING; POSTAGE EXTRA. STATE SURFACE OR AIR MAIL WHEN ORDERING
VISA, MASTERCARD OR AMERICAN EXPRESS ACCEPTED. POST GIRO A/C NO. 84263-3
SEND FOR FULL PRICE LIST

IOF SECRETARIAT, P.O. BOX 76, S-191 21 SOLLENTUNA, SWEDEN
TEL. (46) 8 35 34 55, FAX (46) 8 35 71 68

The 1993 Ski-O World Cup: a Battle with the Weather

The vagaries of the winter weather can make life difficult for Ski-O Organisers; **Peter Gehrman** describes how this year's World Cup has had to contend with the elements. Photos - Peter Gehrman.

The organisation of a ski-O competition has become more and more a 'trembling party'! Warm Atlantic winds have attacked the snow cover in middle-Europe more than usual during recent years. The last two World Championships in Ski-O were affected by these problems: the 1990 Championships in Sweden got the longed-for snow only some days before the competitions; at the 1992 WOC in Pontarlier, France huge efforts were required of the organisers to complete all the races.



Sisters Ruth & Maret Vaher (EST) at the opening ceremony in Austria

Wet snow in the Czech Republic

The snow situation for this year's World Cup looked promising early on. There was wonderful dry powder snow in the forests near Leberec, in the Czech Iser Mountains, in the first week of the year. But the weather changed two days before the first of the two World Cup events there, and competitors expected wet and heavy snow on the tracks at the first event. But whenever the snow conditions were difficult and slow, the Czech hosts had a very well-prepared pattern of tracks for the ski-orienteers. In the first event the two favourites for the 93 World Cup, Vidar Benjaminsen (Nor-

way) in the men's class and Riitta Karjalainen (Finland) in the women's, justified their rankings. These two athletes cemented their leading positions in the second race, a short distance competition the following day. Behind them, the leading groups in both competitions were made up almost entirely of Scandinavian runners, apart from the Bulgarian Pepa Milusheva, 5th in the classic and 7th in the sprint in the women's class and the Russian Victor Korchagin, 8th in the classic and 5th in the short distance in the men's.

Snowstorms in Austria

The weather had not improved when the World Cup competitors started their next travels to the races in Austria and Italy. Spring-like temperatures had changed the whole of the North side of the Alps into a green country again. But Karl Lex, the Austrian competition leader, had made a very good choice with the competition area: the 'Wurzeralm' near Windischgarsten, at an altitude of 1600m, had 40 cm of snow. But in the night before the World Cup race a big storm with heavy rain started... which changed to snow 90 minutes before the first start. The Austrians were very well-prepared and the competition did not collapse in spite of these bad conditions. Only the latest starters were at a disadvantage in the second lap of the sprint race on 'Wurzeralm'. It was interesting to see such a small competition area, with a proportionately small map, in use for a ski-O competition, but the Austrians demonstrated that a good

competition is possible in this situation with an experienced course planner in conjunction with a good-quality map and detailed terrain.

In the women's class Arja Nuolija (Finland) won in front of World Cup leader Riitta Karjalainen and the Norwegian Hilde G. Pedersen; in the men's, the Russian runners were unexpectedly strong, with Nikolai Bondar in front of the two Norwegians Harald Svergia and world champion Vidar Benjaminsen, who was lucky to get the bronze medal 3 seconds ahead of the second Russian Ivan Kuzmin.



Ivan Kuzmin, Russia - exhausted in the storm and snow

The Austrian ski-orienteers took a big step forward in their own country: they had 3 runners in the leading group - Johann Kugler (7th), Josef Hones (9th) and Michael Pirklbauer (11th).

Hard and Dirty Snow in Italy

The snowstorm which covered the North side of the Alps with (in some places) more than 70cm of snow during the third World Cup race day did not visit the South side of the mountains: not one fresh snow flake came into the Italian resort of Val di Non where the fourth race took place

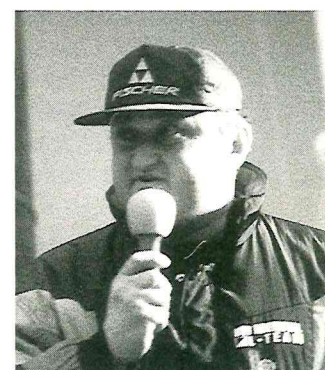


Stormy weather on the Wurzeralm

three days later. The snow was old, hard and dirty, the tracks very fast... - for some runners, sometimes too fast. The Italian organisation was fine, as had been that of the Austrians three days earlier. In the Italian race - a sprint again - the Norwegian runners re-gained their dominant position in the men's race. Three Norwegians were in front: Andreas Evardsen, Lars Lystad and Vidar Benjaminsen. But then came the 'home favourite', Nicolò Corradini, with the second Italian Marco Selle in 6th place. The Russians and Austrians were again not far behind.

In the women's class it was the Bulgarian Pepa Milusheva who surprised everyone by coming in third behind the two leading girls from Finland, Sana Savolainen and Riitta Karjalainen. The remainder of the leading group was entirely Scandinavian apart from Maret Vaher, one of the well-known Vaher sisters from Estonia, in 8th position.

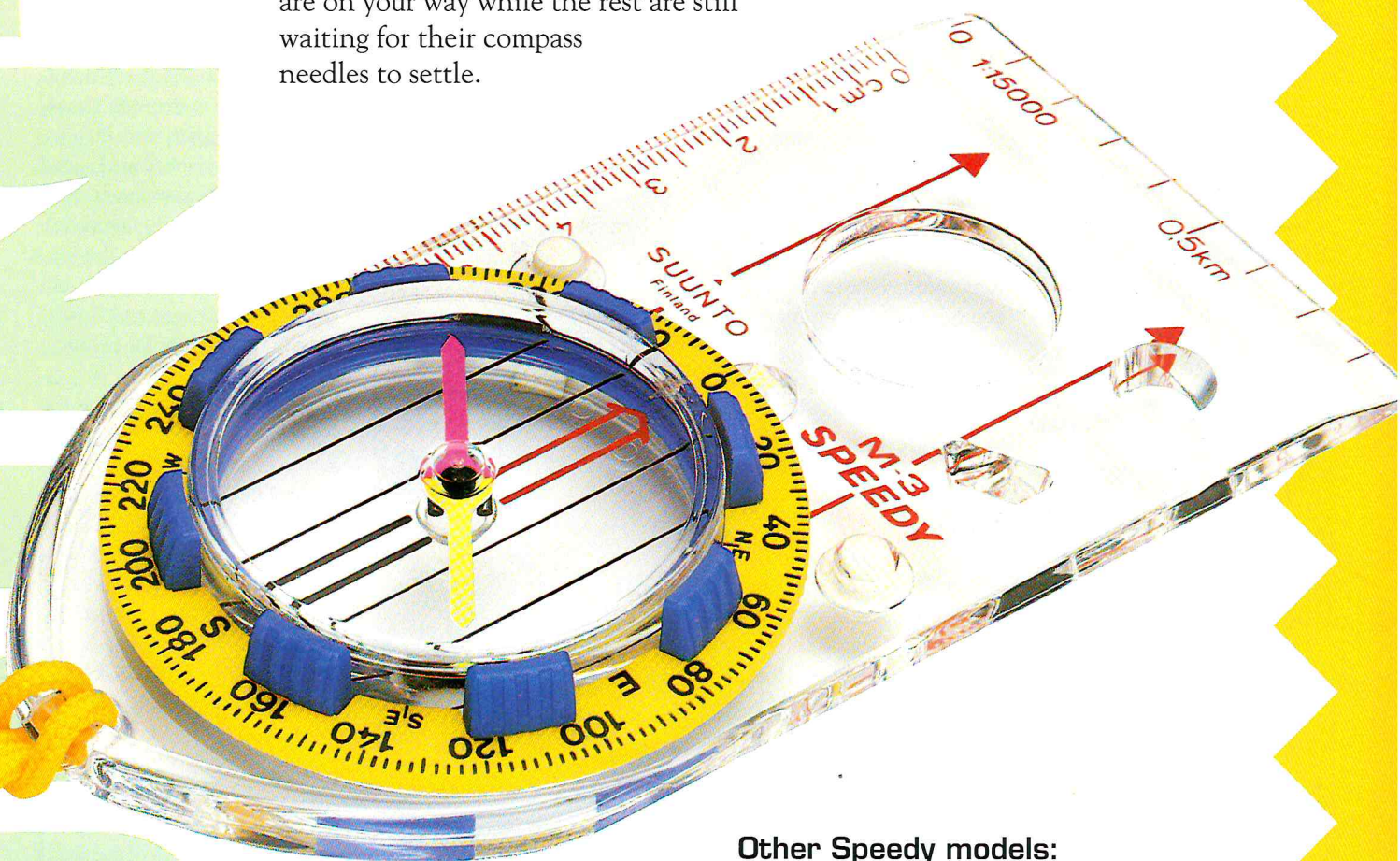
The World Cup will continue with four competitions in Sweden and Norway. Will the leaders Riitta Karjalainen and Vidar Benjaminsen be able to hold on to their top positions?



Karl Lex, Organiser in Austria

The world's fastest needle does not waste precious seconds.

The championship has reached its decisive moments. Split seconds separate the winner from the also-rans. You check your direction one last time ... and the Suunto M-3 Speedy shows what the champion of competition compasses can do. Its large capsule gives a firm grip; the long special needle rotates smoothly and quickly, then settles firmly in place. No swinging, no wasted time - and you are on your way while the rest are still waiting for their compass needles to settle.



M-3 Speedy

The champion of the Speedy series. A top-class M-3 competition and field compass has been equipped with the super-fast Speedy needle. This needle, guided by two special, strong bar magnets, rotates smoothly, stops quickly and shows the direction without quivering.

Other Speedy models:

Speedy I (thumb compass), Speedy II, Speedy III and Speedy IV (base plate compasses).

SUUNTO

FIELD COMPASSES

Juvan teollisuuskatu 8
02920 Espoo, Finland
Tel: +358-0-847 033
Fax: +358-0-843 810



Sundsvall

- the Home of Ski-Orienteeing

by NILS-OLOV SKOTT

In their invitation to the 6th and 7th events of this year's Ski-O World Cup, the organisers set out their welcome in the following way: "Welcome to Sweden and Sundsvall - the home of Ski-Orienteeing".

1888 - the first ideas

Swedish ski-orienteeing was born in the Sundsvall region in the middle of Sweden. The chairman of the one hundred year-old ski club 'Vidar', Eric Collinder, first came up with the idea of staging an orienteeing event on skis. In 1888 he wrote in his sports calendar: *"The best form of ski competition would be to have all the competitors find their way over unknown and varying ground, through forests and valleys and over lakes and mountains to a destination far away, everyone using a route of his own best choice. Only in this way can each skier demonstrate his practical skills and do justice to himself"*.

The first event

Putting into practice the proposal made by their chairman, the members of the ski club

Vidar, on 22 January 1899, arranged a competition which is regarded as being the first of its kind in Sweden. The course was set in the surroundings of Sundsvall and had 4 controls in all over a distance of 25km. The start interval was 3 minutes, and the competitors were given the location of one control at a time. There was heavy snow in the days preceding the event, which made the conditions very demanding. According to a newspaper report, the skis sank over one foot in the soft snow. The winner took 4 hours 34 minutes. The organisers were aware that, on account of the deep snow, the conditions were not the same for all competitors, and the runner who started first and who came in in fifth place received an extra award.

Norway, at this time joined with Sweden in the Swedish-Norwegian Union, arranged its first competition two weeks after the event in Sundsvall. This competition was staged in Trondheim. Here, deep snow was an even bigger problem! Another event was held there a month later and was said to be very successful.

Relay competitions the most popular

In both Scandinavian countries, ski-O now became very popular. The most important event for the development of the sport was the relay, introduced in 1900 by the Swedish national ski federation. The first relay event, over 175km, also had some connection with Sundsvall. The start was at Bollnäs, with changeovers in Hudiksvall and Sundsvall and the finish was in

staged again to any extent in Sweden. Local championships were introduced in 1947, and four years later Sweden had its first champion. In Finland the first national championship was arranged in 1962, but Norwegian ski-orienteeers had to wait until 1988.

Going international

The person who worked hardest to introduce the sport at an international level was Frank



Good conditions for ski-O - a typical Sundsvall winter

Härnösand. The winning team - from the mountain country of Härjedalen - used a bit over 28 hours! Vidar was in second place; their team also contained the winner of the individual competition a year before.

The first national championships

For many years the relay was the only big event in Sweden, so when in 1910 national ski championships were introduced, the relay was on the programme. And it was the relay which attracted the greatest interest: the long distances and the 'unknown paths in the wilderness' appealed to the public's imagination.

In Finland the first relay was staged in 1904. As the First World War neared, the interest in individual competitions declined. The Swedish relay lived on, though, perhaps reminding everyone of the old way of bringing a message or summoning the people to war. It was not until after World War 2 that individual competitions were

Lindbergh of the Swedish Ski Association. Frank, who was born in Sundsvall, failed to get the Nordic ski associations interested in ski-O. So he turned to the then recently founded IOF, who established a Ski-O Committee. Frank Lindbergh was first Secretary and from 1975, Chairman of this committee. He replaced Lasse Heideman who then took the Chair of the IOF Council.

Six world champions

Sundsvall has brought up no less than six World Champions. Three of them - Arja Hannus, Örjan Svahn and Annika Zell - have won individual competitions. Four former national coaches live in Sundsvall, one of them being the present Chairman of the IOF Ski-O Committee, Gunnar Jonsson.

This year's World Cup events will become yet another milestone in Sundsvall's ski-O history, because they are pre-events for the first Junior World Championships.



Arja Hannus and Annika Zell - World Championship medal winners

SKI-O WORLD CUP ROUNDS 3 & 4 - RESULTS

ROUND 3 - AUSTRIA - MEN

1.	Nikolai Bondar	Russia	50.46
2.	Harald Svergja	Norway	50.48
3.	Vidar Benjaminsen	Norway	52.00
4.	Ivan Kuzmin	Russia	52.03
5.	Lars Lystad	Norway	53.20
6.	Anssi Juutilainen	Finland	54.10
7.	Johann Kugler	Austria	54.28
8.	Lars Goran Kletthagen	Norway	54.40
9.	Josef Hones	Austria	55.07
10.	Tomas Wikblom	Finland	55.16



Arja Nuolioja - winner in Austria

ROUND 4 - ITALY - MEN

1.	Andreas Edvardsen	Norway	42.10
2.	Lars Lystad	Norway	42.44
3.	Vidar Benjaminsen	Norway	42.59
4.	Nicolo Corradini	Italy	44.17
5.	Kjetil Ulven	Norway	44.23
6.	Marco Selle	Italy	44.51
7.	Vesa Mäkipää	Finland	45.07
8.	Anssi Juutilainen	Finland	45.18
9.	Harald Svergja	Norway	45.29
10.	Raino Pesu	Finland	46.23

ROUND 3 - WOMEN

1.	Arja Nuolioja	Finland	42.55
2.	Riitta Karjalainen	Finland	42.57
3.	Hilde G. Pedersen	Norway	43.11
4.	Kristin Hasle	Norway	44.13
5.	Valborg Madslien	Norway	45.21
6.	Mia Karvanen	Finland	46.23
7.	Maria Parakova	Slovakia	46.47
8.	Sanna Savolainen	Finland	47.10
9.	Sarka Zurynkova	Czech R.	47.53
10.	Hanne Sletner	Norway	48.02



Vidar Benjaminsen - overall leader

ROUND 4 - WOMEN

1.	Sanna Savolainen	Finland	36.40
2.	Riitta Karjalainen	Finland	37.07
3.	Pepa Milusheva	Bulgaria	37.14
4.	Valborg Madslien	Norway	38.48
5.	Kristin Hasle	Norway	38.51
6.	Arja Nuolioja	Finland	39.07
7.	Terhi Holster	Finland	39.40
8.	Maret Vaher	Estonia	39.41
9.	Mervi Anttila	Finland	40.45
10.	Mia Karvanen	Finland	41.15

SCORES AFTER 4 ROUNDS - MEN

EVENT:			1	2	3	4	T
1.	Vidar Benjaminsen	Norway	40	40	35	35	150
2.	Lars Lystad	Norway	27	37	31	37	132
3.	Raino Pesu	Finland	37	33	23	26	119
4.	Vesa Mäkipää	Finland	33	29	24	29	115
5.	Harald Svergja	Norway	16	27	37	27	107
6.	Andreas Edvardsen	Norway	29	22	0	40	91
7.	Tomas Wiklam	Finland	25	16	26	23	90
8.	Nikolai Bondar	Russia	20	10	40	17	87
9.	Ivan Kuzmin	Russia	0	27	33	24	84
10.	Markku Järvinen	Finland	35	28	20		83

SCORES AFTER 4 ROUNDS - WOMEN

EVENT:			1	2	3	4	T
1.	Riitta Karjalainen	Finland	40	40	37	37	154
2.	Arja Nuolija	Finland	37	33	40	30	140
3.	Hilde G. Pedersen	Norway	35	37	35	22	129
4.	Sanna Savolainen	Finland	33	27	28	40	128
5.	Kristin Hasle	Norway	29	28	33	31	121
6.	Pepa Milusheva	Bulgaria	31	29	11	35	106
7.	Valborg Madslien	Norway	22	12	31	33	98
8.	Mervi Anttila	Finland	27	30	8	27	92
9.	Hanne Sletner	Norway	16	26	26	23	91
10.	Marketa Novotna	Czech R.	26	20	21	24	91

Ski-O's Historical Highlights

compiled by NILS-OLOV SKOTT

1972 - first Cup race, in Velingrad, Bulgaria. Participants from 9 countries.

1973 - second Cup race, called a World Meeting, in Sundsvall; runners from Canada and Japan as well as many European countries. IOF Congress in Magglingen, Switzerland, decided to introduce World Championships. (Norway and Switzerland voted against!)

1975 -first World Championship. 33 men and 16 women competed, from 9 nations.

24 nations have participated in World Championships, but only 5 in them all - **Austria, Bulgaria, Finland, Great Britain and Sweden.**

Finland has been the most successful nation with 51 medals in all.

Sweden has won 40.

Arja Hannus (Sweden) has won most medals - 4 gold, 4 silver and 3 bronze. **Anssi Juutilainen** (Finland) and double World Champion **Vidar Benjaminsen** (Norway) both have 9.

Anssi Juutilainen and **Ragnhild Bratberg** (Norway) have both won 5 golds.

WORLD CHAMPIONSHIPS IN SKI-ORIENTEERING, 1975 - 1992

RELAY RESULTS - MEN

1975 - Hyvinkää, Finland

1. Finland (Pökälä, Taskinen, Karvonen, Svanberg)	5.49.05
2. Sweden (Svensson, Bergvall, Axelsson, Persson)	6.14.33
3. Switzerland (Stämpfli, Räber, Oswald, Gerber)	7.16.32

1977 - Velingrad, Bulgaria

1. Sweden (Bergvall, Svahn, Larsson, Persson)	5.26.34
2. Bulgaria (Stoev, Arisanov, Christov, Nenov)	6.57.55
3. Czechoslovakia (Pachner, Kaomarcik, Tichacek, Gorny)	7.01.27

1980 - Avesta, Sweden

1. Sweden (Jonsson, Persson, Larsson, Thorn)	4.10.12
2. Finland (Mutikainen, Väisänen, Svanberg, Tikka)	4.15.01
3. Bulgaria (Stoev, Pankov, Shandurkov, Nedkov)	4.42.25

1982 - Aigen, Austria

1. Sweden (Löfstedt, Berglund, Persson, Thorn)	3.11.33
2. Norway (Kinneberg, Sagvolden, Berglia, Daehli)	3.13.43
3. Finland (Pellinen, Väisänen, Tikka, Svanberg)	3.16.31

1984 - Lavarone, Italy

1. Sweden (Larsson, Boström, Thorn, Berglund)	4.32.49
2. Finland (Tikka, Svanberg, Väisänen, Pellinen)	4.40.00
3. Norway (Kinneberg, Berglia, Daehli, Benjaminsen)	4.50.50

1986 - Batak, Bulgaria

1. Norway (Daehli, Lystad, Knutsen, Benjaminsen)	4.00.58
2. Bulgaria (Hadshimitev, Sergiev, Dejanov, Orlov)	4.16.06
3. Finland (Koponen, Pellinen, Kosonen, Juutilainen)	4.19.05

1988 - Kuopio, Finland

1. Finland (Koponen, Kirvesmies, Kosonen, Juutilainen)	3.58.40
2. Sweden (Matsson, Berglund, Björkman, Bauer)	4.09.25
3. Norway (Ulven, Lystad, Slovik, Benjaminsen)	4.10.55

1990 - Skellefteå, Sweden

1. Sweden (Mattsson, J Engdahl, B Engdahl, Björkman)	3.32.34
2. Finland (Koponen, Mäkipää, Linnainmaa, Juutilainen)	3.34.16
3. Norway (Ulvén, Svergja, Benjaminsen, Slovik)	3.34.30

1992 - Pontarlier, France

1. Finland (Haapasalmi, Borgman, Juutilainen, Mäkipää)	3.32.46
2. Russia (Korchagin, Bondar, Kormschikov, Kuzmin)	3.37.23
3. Norway (Ulvén, Svergja, Lystad, Benjaminsen)	3.43.18

MEDAL STATISTICS - MEN

	G	S	B
Finland	3	3	2
Sweden	5	2	
Norway	1	1	4
Bulgaria		2	1
Russia		1	
Czechoslovakia			1
Switzerland			1

RELAY RESULTS - WOMEN

1. Finland (Sallinen, Flöjt, Kukkonen)	3.37.10
2. Sweden (Samuelsson, Månsson, Bogestedt)	3.46.07
3. Great Britain (Murphy, Ingles, Murray)	5.30.05

1. Finland (Halonen, Flöjt, Kukkonen)	3.16.54
2. Sweden (Bogestedt, Johannesson, Lindgren)	3.25.51
3. Czechoslovakia (Tichackova, Vlachova, Handzlova)	3.41.55

1. Finland (Puhakka, Silvenoinen, Kukkonen)	2.28.36
2. Sweden (Klingström, Bogestedt, Larsson)	2.33.27
3. Czechoslovakia (Tichackova, Gavendova, Novakova)	3.00.05

1. Sweden (Klingström, Hannus, Lindgren)	2.20.37
2. Finland (Kukkonen, Kukkonen, Puhakka)	2.29.01
3. Norway (Narbuvoold, Owren, Hallan)	2.44.01

1. Sweden (Gustafsson, Larsson, Isaksson)	3.09.10
2. Finland (Peltola, Silvenoinen, Puhakka)	3.12.59
3. Bulgaria (Dosseva, Milusheva P, Milusheva G)	3.38.42

1. Norway (Hallan, Olsvik, Bratberg)	3.02.43
2. Sweden (Klingström, Zell, Hannus)	3.03.25
3. Bulgaria (Orlova, Christova, Milusheva)	3.11.50

1. Finland (Kukkonen, Benjaminsen, Juutilainen)	2.16.54
2. Norway (Svingheim, Hallan, Bratberg)	2.17.19
3. Sweden (Karlsson, Hannus, Bergfält)	2.22.49

1. Finland (Karjalainen, Linnainmaa, Juutilainen)	2.07.59
2. Sweden (Hasselström, Zell, Hannus)	2.08.01
3. Norway (Svingheim, Tollefsen, Bratberg)	2.14.43

1. Sweden (Karlsson, Zell, Hannus)	2.04.31
2. Finland (Karjalainen, Ojanen, Juutilainen)	2.12.46
3. Norway (Korsvold, Odegard, Gjermundshaug)	2.14.23

MEDAL STATISTICS - WOMEN

	G	S	B
Finland	5	3	
Sweden	3	5	1
Norway	1	1	3
Bulgaria			2
Czechoslovakia			2
Great Britain			1

Data compiled by the IOF Secretariat

The Hi-Tec Column - Bringing Overprinting out of the Middle Ages

Entry on the Day

For all sorts of reasons, many people will only decide on their Sunday activity the day before, or even when they look out of the window, bleary-eyed, on the Sunday morning. But in Denmark, for example, you have to pre-enter for the main courses on offer at all events, whatever the scale of the event; entry-on-the-day is possible only for a small range of poorly-supported 'open' courses. This is because Danes believe that copying from master-maps in competition time is de-valuing the event and too difficult, and over-printing enough maps to be sure to have sufficient for on-the-day entries is too uneconomical - and we are the last sport to want to leave ourselves open to accusations of wasting paper. Across the water in the U.K., on the other hand, where all colour-coded events are enter-on-the-day only, hundreds of orienteers are starting their events every Sunday by copying a course from a master map in competition time, often in very difficult conditions, quickly or slowly, carefully or sloppily.

Every O-country has the same kind of problem. Neither of the situations described is satisfactory; all 'proper' events should have pre-marked maps, yet for our sport to be as accessible as we would like, we should also be able to have entry on the day at all except at the most important events.

A Modified Printer

So an important technological development, which would give significant benefit to the organisers and participants of the standard local or regional event which attracts 50 to say 800 orienteers, is an **on-site computerised map-overprinting facility**.

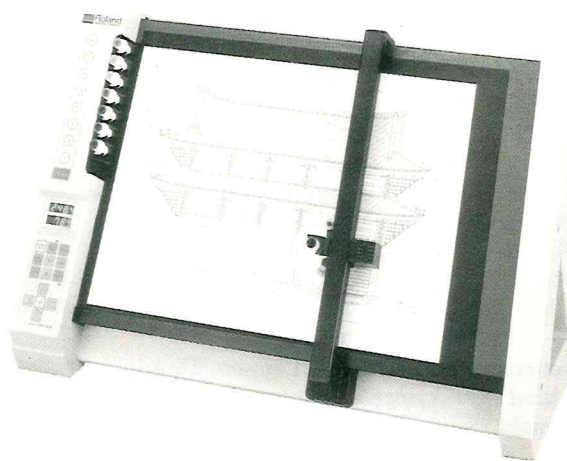
It would be good to find a computer printer manufacturer who would sponsor an adaptation of a suitable standard printer, to our specifications, so that it could take maps of various sizes and print accurately enough, in terms of position on the paper, to meet normal overprinting requirements. A type of program available now for planners to enter control positions with co-ordinates could be used to set up in the computer, for an event, the full-range of courses which could then be individually accessed with a single command and overprinted immediately.

On-site Overprinting

The planner would initially use the system at home for overprinting the maps for pre-entries plus an agreed surplus. Once started on a particular course, the system can be left to get on with it. A rate of at least one map per half-minute would seem necessary. The computer and printer would then be available at the event site - preferably the same machines as used for results processing. If there are more on-the-day entries than anticipated, the system would quickly print the necessary extras, then someone only has to attach control descriptions (little cost there for having plenty of spares), check the registration, put in poly bag and seal, and take to the start.

Get Rid of 'John Bull'!

A modern ink-jet printer could do as a basis. Rather like the Regnly tents, if a single supplier produced a model to a given specification, many of the larger clubs around the world would buy one, and the others would borrow or hire. And it could do wonders for the common every-Sunday event as well as getting rid of the primitive 'John Bull' overprinting kits!



The Roland DXY-1200 Plotter (normally used flat)

The Australian Solution

PLOTMAPS is a computer program designed to plot courses on to orienteering maps. It is designed to run on an IBM-PC or compatible, and outputs data to a flat-bed plotter. The program and data files fit easily onto a floppy disk. After some initialising tasks, a master map showing all the controls for the event is placed on the plotter and the plotter pen is moved to the centre of each control circle to be used. The Enter key on the computer is pressed each time the pen is correctly positioned; the control code and the position where the number is to be printed are also entered. For any control, the circle can be broken in any of 8 segments. Start triangle, finish circles etc. are also entered. Then each course is registered in the computer by choosing the appropriate control codes. Lines between control circles can be straight, bent, broken or omitted. Course lengths can also be calculated.

Using a Plotter

When an event has been set up in this way, overprinting can be started. In South Australia they use a Roland DXY-1200 plotter, which takes about one minute per map. It has been used in the field, but only where there has been mains or generator supply. In the main the plotter is used for pre-entry overprinting. Three State Associations and at least one club have invested in plotters. The cost is about 2000 Australian dollars, or 8,900 Danish kroner (before tax); the similar-specification DXY-1100 is 6,700 DKr (before tax).

So here is one answer - good on quality, but perhaps a bit slow and certainly rather costly (flat-bed plotters are not easy to borrow). Nevertheless, a huge step forward from 'John Bull'!

Work is under way to link PLOTMAPS with other programs to provide a fully-integrated software package for planners. For more information, contact Paul Davill, 6 Corro Street, Aberfoyle Park, S.A. 5159, Australia, tel. +618 270 5227 or on Email (Internet) mopgd@pippin.cc.flinders.edu.au.

Orienteering World would like to hear from others who have tried overprinting in this way, or who have suggestions on how this kind of facility could be made more widely available.

Letter to the Editor

Running with Martin Brantner

I am writing to comment on the criticism of Martin Brantner's win in last year's World Cup race in Italy. I am referring especially to Thomas Scholl's comments, and also the recent article by Odd M. Jacobsen in issue 3/4 of *OW*.

In that race I had start position 57, 9 minutes ahead of Jörgen Mårtensson, 15 minutes ahead of Håvard Tveite and 18 minutes ahead of Martin. It wasn't a memorable race for me, and as a consequence of this I ran a considerable part of the race with Håvard, Jörgen and Martin.

It was just after control #9 that they caught me, and I was in contact until #16 when I made a mistake and lost them. During most of this time Håvard was leading, followed by Jörgen, Martin and myself. The order often changed, but followed this pattern most frequently.

Not deliberately following

As Martin was in the company of two very strong orienteers, he had little chance to demonstrate his own ability adequately and in my opinion was not deliberately following Jörgen or Håvard. He appeared to be running strongly, in no way struggling to 'hang on', and was not running immediately behind one of them as someone deliberately following might do. I do fully accept that without Håvard and Jörgen, Martin would not have won the race, but I believe he was a victim of circumstance and has been unjustly criticised for running the race the only way he could.

The Terrain

An important factor which cannot be overlooked is the terrain. The ground cover was significant and on top of such steep terrain made for slow going. This combined with few tracks meant that it was necessary to minimise the amount of running through the terrain. The optimum was thus to run reasonably straight; to try anything different wasn't really feasible, especially if you are with others taking the same route choice.

To conclude, seeing Martin in this race was not the first time I have seen him orienteer. Only 4 weeks earlier while at the O-ringen Clinic we had run many exercises together and often in slow and technical Scandinavian terrain. I was very impressed by his talent and ability; he was more than competent at making route choices and executing them.

I hope that this letter helps to remove the blemish on Martin's orienteering career; I'm sure he will prove his ability over the next few years.

Alistair Landels
(New Zealand)

Alistair Landels winning the short-distance event, APOC '92 (photo: David Hogg)



WINTER TRAINING - COME TO SUNNY SPAIN

ADOL (SEVILLA) & CAPU (HUELVA) O-CLUBS
invite you to their
ORIENTEERING TRAINING CAMPS IN SOUTH SPAIN
(average winter temperature 15 - 20°C)

IN HUELVA: lodging in apartments or youth hostel
overprinted maps available
Huelva International Trophy Event 9-10 April

IN SEVILLA: bed and breakfast or youth hostel

20 TRAINING MAPS IN ALL - 6 BY THE BEACH!

Enquiries: Miguel Borrero, Urb. La Brisas-3,
Siroco 26, E-41926 Mairena del Aljarafe, Spain.
Telephone and fax : (34) 5 41 82 354

Sport - Safari - Club



Orienteering
Hungary,
Russia
Kazakhstan
Latvia

Full Service:
SSC Standard.

Courses,
Training
IOF Standard

Catalogue
UBV Kövari
Am Esch 18
D-W4990 Lübbecke

**ADVERTISE
IN ORIENTEERING WORLD
RING CLIVE ALLEN
(45) 86 84 55 02
FOR DETAILS**



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 2 (April) you can read a profile of women's world champion Marita Skogum of Sweden, a guide to avoiding and treating Sports Injuries by Dr Steve Bird and reports of Britain's first two National Events of 1993. 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 MAGAZINE, 25 The Hermitage,
Eliot Hill, London SE13 7EH, England**

YES! Please send me/us *CompassSport* for 1/2/3 years.
I enclose payment of £.....

Name.....

Address.....

Cheques, etc. to "CompassSport". Postgiro payments to National Girobank A/c 32 575 4004.



INTERNATIONAL FIXTURES LIST



This list includes events in the IOF Calendar with entry closing dates before 1 June 1993. The entry closing date is shown at the end of the event name, e.g. 'LOF-Open, Riga Latvia (10/4) indicates a closing date of 10 April. 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.

MAY

- 1, 2 **National events, Bellinzona, Switzerland (31/3) 2I**
Lidia Nembrini, CH-6965 Cadro, Switzerland (41) 91 91 46 37
- 9 **First Nationale, Toulouse, France (6/5) I**
FFCO, B.P. 220, F-75967 Paris Cedex 20, France Fax (33) 1 47 97 90 29
- 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
- 16 **Oripenta, Trento, Italy (30/4) R**
G S Argentario, Via Venezia 2, I-38100 Trento TN, Italy (39) 461 512 084
- 19, 20 **Trofeul Olteniei, Romania (15/4) 2I**
Badea Natalia, Calea lui Traian, bloc 58 bis, ap. 8, R-1000 Rimnicu Vilcea, Romania
- 22, 23 **Leksands OK Individual + Siljanskavlen, Leksand/Rättvik, Sweden (3/5) I/R**
Mats Ekers, Hjortnäs 192, S-793 00 Leksand, Sweden (46) 0247 61024
- 22 **15-stafetten, Oslo, Norway (12/5) R**
Trond Engblad, Munkebekken 24, N-1061 Oslo, Norway (47) 22 30 71 50 from 28/3/93
- 22, 23 **'Two days of Aveiro', Portugal 2I**
ANORTE, Rua G. Bloco 1-R/C, Centro Esq., Montes de Azurva-Eixo, P-3800 Aveiro, Portugal (351) 34 93 16 41
- 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
- 22, 23 **International 24-hours OL, Eisenach, Thuringen, Germany (24/5) 2R (day & night)**
Anja Brenner, Heimstättenstr. 77, D-O-6900 Jena, Germany
- 22, 23 **Knut Valstads Minnelöp, Oslo, Norway (12/5) 2I**
Trond Engblad, Munkebekken 24, N-1061 Oslo, Norway (47) 22 30 71 50 from 28/3/93
- 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 **Hälsingekavlen + Alfta Ösa OK, Sweden (10/5) R/I**
Rolf Jacobsson, Pl. 1851, S-822 00 Alfta, Sweden (46) 0271 11185
- 29, 30 **Suunto Games, Helsinki, Finland (1/5) 2I**
Atso Mäkinen, Aidasmaentie 41 D, SF-00650 Helsinki, Finland (358) 0 37 11 33
- 29, 30 **Scottish Championships, Dumfries, Scotland (1/5) I/R**
D McQuillan, 10 Craigvale Court, Dumfries, Scotland DG1 4QH (44) 387 61 741
- 29-31 **Int. 3-Tage OL (Panthersprung), Deggendorf, Bavaria (30/4) 3 days**
Juergen Schwanitz, S.-Huber-Str. 4, D-8354 Metten, Germany
- 29-31 **Trois Jours de Belgique 1993, Arlon, S. Belgium (1/4) 3I**
Nicole Lauwers, Avenue Blondin 35/72, B-4000 Liege, Belgium (32) 41 52 92 21

JUNE

- 6 **Second Nationale, Lyon, France (1/6) I**
Ligue du Lyonnais de Course d'Orientation, 48 D Rue E. Renan, F-69200 Venissieux, France



JUNE

- 6 **3. Nationaler OL, Murten, Bern, Switzerland (3/5) I**
Hansulrich Huerzeler, CH-1784 Wallenried, Switzerland (41) 37 34 21 67
- 12 **Venla + Jukola Relays, Paimio, Turku, Finland (12/5) 2R (day & night)**
Paimon Jukola -93, Pl. 57, SF-21531 Paimio, Finland Fax (358) 21 80 72 57
- 13 **Italian Meisterschaften, Lago Maggiore, Italy (31/5) R**
Comitato Lombardo Fiso, Piazza S. Ambrogio 23, I-20137 Milano, Italy (39) 2 864 53 660
- 19, 20 **Cupa Vointa Cluj, Romania (1/5) 2I**
Fey Sandor, Str. Negoiu 10, ap. 35, R-3400 Cluj Napoca, Romania
- 19, 20 **International Ostsee-OL, Germany (31/5) I/R**
Juergen Weinreich, Kiessender Ring 29, D-O-2820 Hagenau, Germany (49) 03 883 236 50
- 19-22 **'KO-4', Sigulda, Brasla, Latvia (25/5) 4I**
OK 'KO' Siguldas PR-TS 37-2, Riga 226014, Latvia
- 22-24 **Grand Prix Polonia '93, Wedrzyn, Poland (1/5) 3I**
WKS 'Gruenwald', ul. Promienista 27, 60-288 Poznan, Poland (48) 61 49 70 87
- 23, 24 **XX Midsummer Event, Kolga-Kuela, N. Estonia (1/5) 2I**
EOF, Regati 1, EE-0103 Tallinn, Estonia (7) 0142 23 70 21
- 23-27 **Jeux Meditteraneens, Montpellier, France 4I/R**
FFOC, B.P. 220, F-75967 Paris Cedex 20, France (33) 1 47 97 11 91
- 25-27 **Shamrock O-Ringen, S.W. Ireland 3I**
B & M Creedon, Mount Prospect, Douglas, Co. Cork, Ireland (353) 21 36 18 24
- 25-27 **I Baltic Sea Games, Viitna, N. Estonia R/2I**
EOF, Regati 1, EE-0103 Tallinn, Estonia (7) 0142 23 70 21
- 25-27 **OK Käpa 3-Days, Jekabpils, Latvia (20/5) 3I**
OK Käpa, A/K 70 229063 Carnikava, Latvia
- 27-29 **Grand Prix Gdyni, Gdynia, Poland (31/5) 3I**
WKS 'Flota', ul. Zygmunt Augusta 2, 81-301 Gdynia, Poland (48) 58 20 18 20
- 30/6-4/7 **Takas 93 5-Days, Alytus, Lithuania (15/5) 5I**
OK Takas, Box 558, 3031 Kaunas, Lithuania (7) 0127 72 87 01



JULY

- 2-4 **XII Puchar Wawelu, Zakopane, Poland (30/5) 3I**
WKS 'Wawel', ul. Bronowicka 5, 30-901 Krakow, Poland (48) 12 37 26 64
- 7-10 **Ilvestade, Tartu, Estonia (31/5) 4R**
OK Ilves, PK 161, EE-2400 Tartu, Estonia (7) 01434 76542
- 8-10 **Fjällorienteringen, Östersund, Sweden (2/5) 3 days**
Jämtland/Härjedalens OF, Idrottens Hus, Box 43, S-83201 Frosön, Sweden (46) 063 1276 10
- 8-10 **St. Petersburg Family Games, Russia (1/5) 3I**
P.O. Box 90, 192102 St. Petersburg, Russia Fax (7) 812 521 8523
- 10-16 **Schweizer 6-Tage OL, Aarau + Bleniotal (Tessin), Switzerland (30/4) 6I**
6 jours de Suisse CO 93, Casella Postale 256, CH-6850 Mendrisio, Switzerland
- 11-17 **Sörlandsgaloppen, Tönsberg, Norway (31/5) 6I**
Trond Tjomstöl, Skarphagavn. 76, N-3140 Borgheim, Norway (47) 33 20 036
- 12-17 **FIN 5, Juva, Finland (1/6) 5I**
FIN 5 - 93, Pl. 28, SF-51901 Juva, Finland
- 15-17 **Sjællandsk 3-dages, Farum, Denmark (15/5) 3I**
Ole Gold, Maglehøj 6, DK-3520 Farum, Denmark (45) 42 95 12 74
- 30-31 **Ungdomens Tiomila, Skövde, Sweden (24/5) 2R (day & night)**
Hans G Bernard, Stubbvägen 9, S-541 62 Skövde, Sweden (46) 0500 35 911



AUGUST

- 6-8 **Morava, Brno, Czech Republic (15/5) 3 days**
Jiri Urvalek, Bieblova 24, CS-613 00 Brno, Czech Republic (42) 5 62 58 10
- 10-14 **Bohemia 93, Novy Bor, Czech Republic (15/5) 5 days**
Miroslav Beranek, Sadova 745, CS-473 00 Novy Bor, Czech Republic (42) 42 42 834



Events Noticeboard

World Masters Games 1994

Orienteering will be included in the 1994 World Masters Games, to be held in **Brisbane, Australia** at the end of September. The Masters Games orienteering will be a two-day event for men and women 35+ on 27 and 28 September. A package with 13 days of competition in all will be on offer, with championship events in Queensland and South Australia included, over the period 24 September to 9 October 1994.

'Bridges of Friendship'

The emphasis is firmly towards children in a number of the major orienteering gatherings in the St. Petersburg area of Russia. Following the information on European Hope '93 published in the last issue comes news of a 7-day tournament for boys and girls 12-16 years old with 5 days of competition: two sprint races (classification and finals), a classic-distance race and two relays. The tournament, which includes a variety of social and cultural activities, is in the period 15-22 August. More information: telephone 812 312 9164, fax 812 311 3003.

Holland-OL '93 Cancelled

Problems with land permissions have caused the cancellation of this year's 3-day event in Holland. It is anticipated that these problems will in due course be overcome, and it is planned to stage the event at the same venue over the weekend 12-15 May 1994.

Tio Mila Date Change

The current restrictions on orienteering for the elite in Sweden have caused SOFT to change the date of the annual Tio Mila Relay to 14-15 August.

Canadian Events Package

The period 21-29 August can be enjoyably spent in a highly scenic part of the world by competing in the Newfoundland Rogaine or Quebec Championships, 21-22 August and then in the Canadian Championships from 25th to 29th August. See adverts below.

TWO DAYS OF AVEIRO '93 (PORTUGAL)

Organised by the Orienteering Association of North Portugal (ANORT)

22 & 23 MAY 1993

The events will be held near AVEIRO, one of the most interesting tourist centres in Portugal and close to good beaches.

21 May : Registration and opening ceremony

22 May : First individual race, 10 a.m.

Organised tours

Banquet and musical entertainment

23 May : Second individual race, 9 a.m.

Prizegiving, 12.30 p.m.

MAPS: 1:15,000/5m., March/April 1993 to IOF specifications

FURTHER INFORMATION & ENTRIES :

ANORT, Rua G, Bloco 1, R/C, Centro/Esq^a,
Montes de Azurva-EIXO, P-3800 AVEIRO, Portugal. Tel. 34 931641

THE CARIBOU QUEST 24-HOUR ROGAINE

NEWFOUNDLAND, CANADA

AUGUST 21-22 1993

WE INVITE YOU TO NEWFOUNDLAND ON THE
WEEKEND PRIOR TO THE CANADIAN O-CHAMPIONSHIPS
TO PARTICIPATE IN THE CARIBOU QUEST

The event location is wilderness just 40 kilometres from Corner Brook, on the 'Roof of Newfoundland' in the scenic Lewis Hills. The high, serpentine heathland is open, rocky, rugged, barren and beautiful!

50 controls in 150 sq. km. + camping / prizes / banquet

SAIL FROM NORTH SYDNEY, NOVA SCOTIA TO
PORT AUX BASQUES BY CAR FERRY, OR FLY INTO
STEPHENVILLE OR DEER LAKE

Contact:

Wally & Judy Skinner, Box 52, Pasadena, NF A0L 1K0

HOSTED BY: THE WEST NEWFOUNDLAND ROGAINE CLUB
AND
THE NEWFOUNDLAND ORIENTEERING ASSOCIATION



WELCOME TO THE 1993 CANADIAN ORIENTEERING CHAMPIONSHIPS

25-29 AUGUST 1993

in beautiful New Brunswick

25 August : COC Relay, Grand Falls (Blue Bell Mountain)

26 August : Training day, Sussex

27-28 August : 2-day Individual event, Fundy National Park

28 August : Evening banquet, seafood or lumberjack buffet

New maps to IOF standards for all events

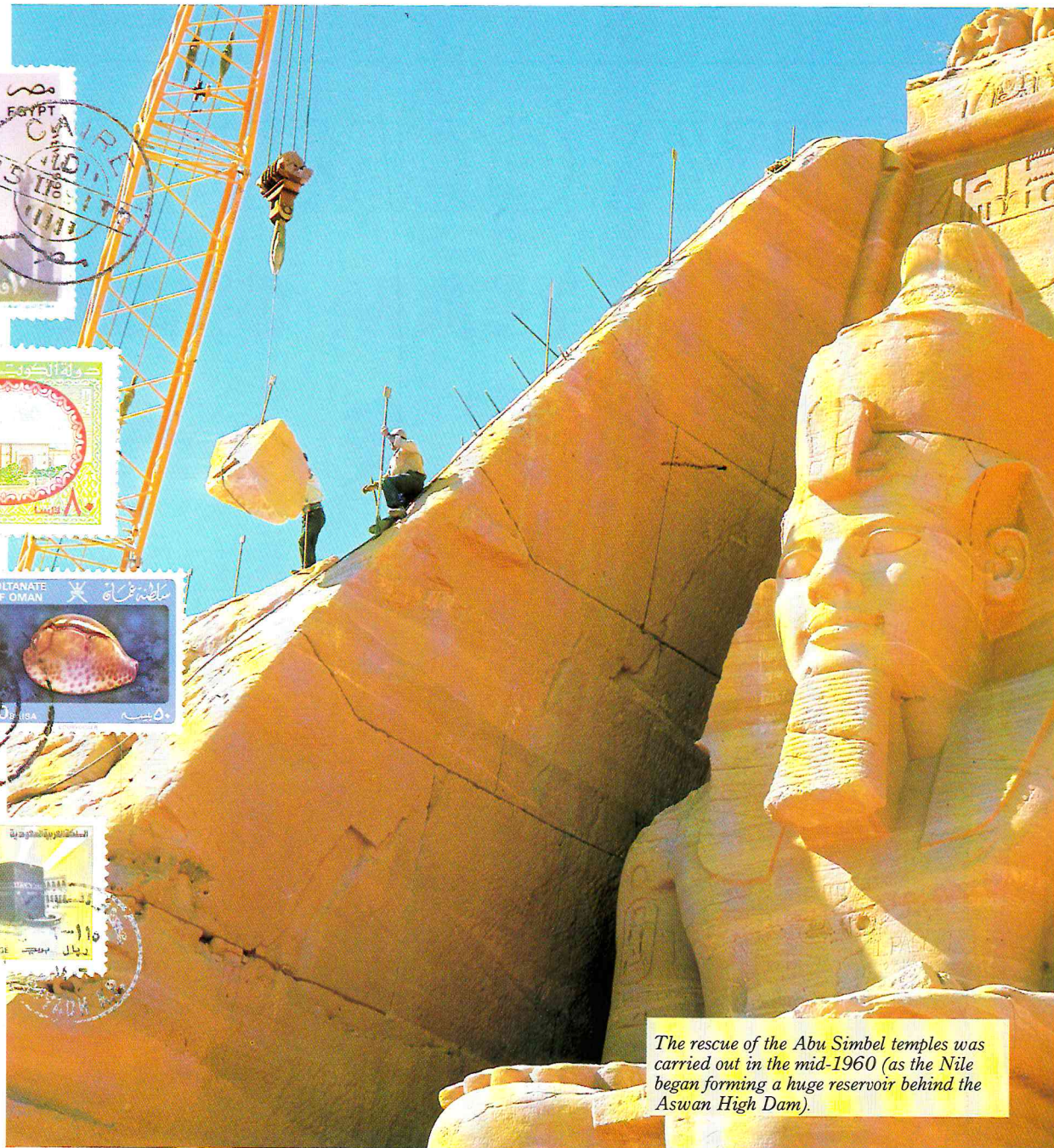
**VISIT THIS UNIQUE NATIONAL PARK WITH THE
HIGHEST COASTAL TIDES IN THE WORLD**
(15m height change in 6 hours)

Closing date for entries : 28 July 1993

INFORMATION AND ENTRIES :

Don Heron, 105 Scarlet Drive, Rothesay,
New Brunswick, E2E 1S3, Canada

ORGANISED BY ORIENTEERING NEW BRUNSWICK



The rescue of the Abu Simbel temples was carried out in the mid-1960 (as the Nile began forming a huge reservoir behind the Aswan High Dam).

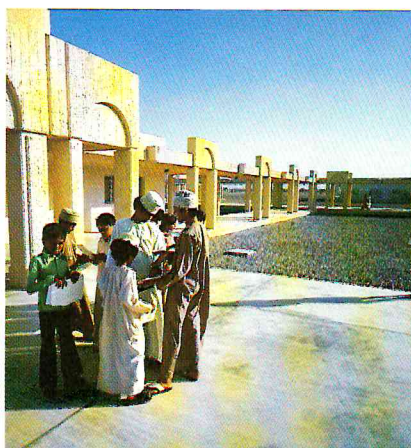
**Skanska International
Sweden**

Tel +46 8 753 80 00

Fax +46 8 755 86 79



Dredging of the Shuwaikh harbour in Kuwait.



The Sultan's boarding-school outside Muscat, Oman.



Turnkey delivery of the Red Sea Hospital with 385 beds in Jeddah, Saudi Arabia.

The total resource. Worldwide.



SILVA COMPASSES

TEAM SILVA



From left:
Martin Johansson
Håkan Eriksson
Jörgen Mårtensson
Kent Olsson
Christina Blomquist
Katarina Borg
Annika Zell
Marita Skogum

**The choice of
Champions!**



SPONSOR OF THE



INTERNATIONAL ORIENTEERING FEDERATION

OFFICIAL SUPPLIER TO THE SWEDISH ORIENTEERING FEDERATION (SÖFT)
SILVA Sweden AB, Kuskvägen 4, 191 62 Sollentuna, SWEDEN