



Contest Club
Finland
Newsletter
WRTC2002



Hosted by
Contest Club
Finland (CCF)
and
the Finnish
Amateur
Radio League
(SRAL)

PileUP!

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EXTRA





PileUP!

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PileUP!
Extra
3/2002



50th Anniversary of the Helsinki Olympic Games

Exactly fifty years before the opening of the WRTC2002 Games in Helsinki this year, there was a ceremony on the Arctic Circle in the always exotic Lapland (OH9) to mark the lighting of the Olympic torch and the start of the relaying of the torch on a long journey to Helsinki.

The Olympic Stadium was packed full on July 19, 1952 during the opening ceremony of the XV Olympic Games in Helsinki. This year we are celebrating the 50th anniversary of the greatest event in Finnish sports history.

Those participating in the greatest and most spirited event in radio contesting, WRTC2002, are encouraged to join in the July 19, 2002 festivities at the Helsinki Olympic Stadium when footage of the original opening ceremony will connect us from 1952 to the present day in a true Olympic spirit.

The WRTC2002 symbol featuring the Helsinki Olympic Tower reminds us of the unparalleled Spirit of Helsinki, the strength of this small nation.

WRTC TIMELINE AT A GLANCE

ON THE SUNNY SIDE OF THE ALPS



WRTC2002, hosted by Finland, is the fourth in the sequence of WRTC events. Here's a brief look at the history of World Radiosport Team Championships.

1990 Seattle, USA

During the Cold War years, Ted Turner, principal owner of Cable News Network (CNN) wanted representatives from the United States and the then Soviet Union to meet under the banners of Olympic-style but more varied competition and camaraderie. Coming to Seattle for the sporting and cultural event were 24 plane-loads of Soviet participants to take part in what were billed as Good Will Games. Also invited were top individuals from all countries of the world. The first WRTC was organized as part of the Good Will Games or mini-Olympics.

1996 San Francisco, USA

By this time, WRTC had assumed more clearly defined proportions of the Olympics of Amateur Radio, with more than 50 teams arriving in San Francisco to race against each other. Now it was a pure Amateur Radio event, and WRTC began to emerge as a worldwide radio contest and, in particular, a warm-hearted get-together of radio contesters.

2000 Bled, Slovenia

Now the contest was hosted by a newly independent, small country. Logistical arrangements were courtesy of the Slovenian army, and little Slovenia experienced and enjoyed a highly memorable week in the true spirit of WRTC. The overriding theme was a joint project bringing together all radio amateurs of the country. The assumption was that WRTC couldn't get any better after this — so impressive was the fireworks display in connection with the closing ceremony.

2002 Helsinki, Finland

WRTC logos have been dominated by two antenna towers in combination with the globe, viewed from different angles. As the WRTC2002 logo was created, we wanted to add a touch of Finnishness to the design. However, in line with previous creations, the logo had to be round-shaped. In the new logo, Finland is elevated from the surface of the globe, as it were, and rhythmic Morse signals emanate from Finland inviting everyone to take part.

The WRTC 2002 logo is designed by Jussi Taipale of Total Communication Oy



CONTACT INFORMATION:

WRTC HQ, Hotel Radison SAS, Espoo
Address; Otaranta 1, Espoo 02150
Telephone number: 09-43580

VISITOR SERVICES & EMERGENCY

0400-221170 & 040-7762168

TECHNICAL SERVICES

050-5867161 & 041-5148473

SCORING NETWORK

050-558 0102

A Message from the **President of the Republic of Finland Tarja Halonen**



Amateur Radio has a long and rich history in Finland. Wireless telecommunications also play a strong part in the infrastructure of modern Finland. Therefore, the Ministry of Education has supported the aspirations of the Finnish youth in this field for many years now.

It is indeed a great pleasure to see so many highly skilled people from all over the world taking part in the World Radiosport Team Championships 2002 here in Finland. I extend my best greetings and wishes for success to the WRTC2002, to all participants and spectators as well as to the organisers of the Championships.

Tarja Halonen
President of the Republic,
Patron of the WRTC2002

WRTC2002 Welcomes You to the Land of the Midnight Sun



The World Radio Team Championship (WRTC) will be held for the first time above 60 degrees north in terms of latitude. This gives all of us enjoying the Games an extraordinary opportunity to savor the specialties of Finnish nature together with the exotic radio propagation conditions of Scandinavia.

The Organizing Committee has faced a long and sometimes hectic journey in planning and creating the facilities for the WRTC2002 Games. This would not have been possible without the highest of dedication and focus in completing even the most difficult tasks. Important as the voluntary work of Finnish hams has been, we also wish to acknowledge the strong support of our sponsors who have provided us with a sound financial base to make the Games happen. A big thank-you to all our sponsors!

We wish all the testers, referees, overseas guests and OH hams warmly welcome to WRTC2002 in the Land of the Midnight Sun!

Jouko Hayrynen, OH1RX
Chairman, Organizing Committee WRTC2002

WRTC2002 - A Tribute to the Finnish Contesting Community



Contest Club Finland (CCF) is the society of Finnish testers. CCF is known as one of the most active European contest clubs with its more than 100 members. The annual CCF Contest and DX event occupies a well established place in the European contesting landscape.

CCF is a relatively young organization, but it has a long and laudable history in Finnish competitive amateur radio. We are proud of having in our group several well-known world-class competitors who have won numerous world championships and world records.

Arranging WRTC2002 is the most significant challenge to face CCF in the course of its history. When CCF decided to arrange WRTC2002, it was clear that we would respect tradition. Not only did we want to have a level playing field for everyone but we also wanted to stage one of the finest social events.

One of our objectives was to bring something new into this great event. A semi real-time scoreboard service, which can be followed everywhere in the world, was designed to be in place. We also wanted to give the teams greater freedom regarding their station setup. State-of-the-art technology can be utilized up to well defined limits, making team play highly interesting.

I want to thank the contesting community for the confidence you have shown us by giving us the opportunity to arrange WRTC2002 in Finland. We take it as a great honor. I would also like to thank the Finnish Amateur Radio League (SRAL) who have supported us with the arrangements. Finally, a word of thanks to all the people who have worked so hard in making this great event possible.

I wish all the teams, referees and other dignitaries a very warm welcome to Finland as our special guests. I also hope you can enjoy Finnish hospitality and the highly unique Finnish summer atmosphere.

Jukka Kulha, OH2MA
President of Contest Club Finland



Those Who Made WRTC 2002 Reality

PATRON OF WRTC2002, Mrs. Tarja Halonen, President of Finland

WRTC2002 OFFICERS & COMMITTEE MEMBERS

Jouko Häyrynen, OH1RX, Head of the Organizing Committee
Jukka Kulha, OH2MA, President of Contest Club Finland
Matti Laine, OH2BH, Co-Chairman, Radio Competition
Pasi Luoma-aho, OH2IW, Co-Chairman, Radio Competition
Risto Lund, OH3UU, Scoring Management
Veijo Kontas, OH6KN, Scoring Communication
Ari Korhonen, OH1EH, Correspondence, International Publicity
Timo Klimoff, OH1NOA, Correspondence, webmaster
Toni Linden, OH2JTE, Head of Competitor Support
Merja von Weissenberg, Financial Controller

THE FINNISH AMATEUR RADIO LEAGUE (SRAL)

Jari Jussila, OH2BU, President of SRAL
Raimo Lehto, OH2BCI, Contest Manager of SRAL
Markus Ilvonen, OH3RM, SRAL Summer Camp

INTERNATIONAL REPRESENTATIVES

Rusty Epps, W6OAT, Financial Coordination
Bruce Butler, W6OSP, Financial Advisor
Bob Allphin, K4UEE, Representative, USA South
Steve Merchant, K6AW, Representative, USA West
Jeffrey Briggs, K1ZM, Representative, USA East
Tack Kumagai, JE1CKA, Representative, Japan
Dennis Motschenbacher, K7BV, Honorary WRTC Ambassador

WRTC2002 JUDGING COMMITTEE

David Sumner, K1ZZ, Co-Chairman
Pekka Lämsman, OH2NCS, Co-Chairman
Roger Western, G3SXW, Referee Management
Olli Rissanen, OH0XX, Referee Management
Robert Cox, K3EST, Judging Advisor
Ville Hiilesmaa, OH2MM, Judging Advisor
Atilano de Oms, PY5EG, Judging Advisor
Manolo de Aquilar, EA8ZS Judging Advisor

GUEST SERVICES

Miika Heikinheimo, OH2BAD, Head MC
Jukka Heikinheimo, OH2BR, Assistant MC

Dave Bell, W6AQ, MC Award Dinner
Jorma Saloranta, OH2KI, Hospitality
Peter Tigerstedt, OH5NQ, Hospitality
Pekka Kolehmainen, OH1RY, Hospitality
Pekka Holstila, OH2TA, Hospitality
Pertti Simovaara, OH2PM, Hospitality
Marianne Lund, Guest Services Management
Tajja Lund, Guest Services Assistant
Toni Linden, OH2JTE, Head of Support Operations
Petri Laine, OH2NB, Help Desk
Juho Salonen, OH5JOC, Help Desk
Esko Hoppania, OH2BNP, Cellphone Network
Raili Heikinheimo & Pertti Turunen, OH2RF, Medicare

WRTC 2002 PUBLICITY

Ari Korhonen, OH1EH, Head of International Publicity
Don Doughty, W6EEN, Executive Video Producer
Dave Bell, W6AQ, Head of Filming
Alpo Reho, OH3TM, Filming Support
Jukka Tuomisto, Filming Support
Ward Silver, NOAX, Executive Press Reporter
John Devoldere, ON4UN, Executive Photographer

HOST STATION NETWORK MANAGEMENT

Jukka Kulha, OH2MA, Head of Host Station Network
Esa Anttila, OH2KPU, Station Certification
Jukka Kovanen, OH3GZ, Antenna Installation Support
Pekka Mikkilä, OH2HE, Antenna Material & Training
Juha Tuovinen, OH1JT, Antenna Design & Training
Arno Martin, OH7XM, Radio Equipment Troubleshoot
Jarmo Räisänen, OH7JR, Accessory Design & Support

PILE-UP "EXTRA" PUBLICATION

Matti Laine, OH2BH, Guest Editor
Jarmo Jaakola, OH2BN, Language
Barbara Chatelain, Proof-reading
Pekka Siiskonen, Lay-out
Kari Lajaste, OH2BKH, Production

A Word and Dedication from the Guest Editor

WRTC 2002 — the biggest ever international Amateur Radio happening in Finland — will soon be concluded. It has been a sometimes challenging and even bumpy road to get this far. But it has been also rewarding. At least these suffering OHs have gotten to know each other better...they have discovered each others' strengths and weaknesses, and helped one another in the true meaning of Amateur Radio. They have also discovered the deep truth about many things, an understanding that can certainly be valuable in many other phases of life.

I have personally lived through this busy time with the hope that our contesting friends of many decades will positively experience our small country and its people. So much so that OH signals come to them as more than just aurora ravaged blazing splutters.

I dedicate this booklet to Leena, OH2BE who has experienced these four letters — WRTC — with much personal sacrifice. I would also like to thank my employer Nokia Corporation who gave me 6-month leave to assist in making the WRTC 2002 a success.

Thank you!

Matti J. Laine, OH2BH, Guest Editor



Organizing Committee members hard at work.

WRTC Itinerary 9–16 July, 2002

July 09, Tuesday

Arrival in Helsinki:

WRTC competitors & referees:

- WRTC HQ, Hotel Radisson SAS Espoo, Otaranta 1, Espoo 02150
- Telephone: +358 9 43580
- FAX +358 9 466 693

Other guests & visitors:

- Hotel Radisson SAS Hesperia, Mannerheimintie 50, Helsinki 00260
- Telephone: +358 9 43101. FAX +358 9 4310 995

18.00 Get-together at WRTC HQ
(WRTC beer tent, light snacks)

July 10, Wednesday

08.00 - 10.00 Breakfast
10.00 WRTC 2002 kick-off for competitors and referees at Dipoli Congress Center, Espoo
12.00 Lunch at Dipoli Congress Center
13.30 Departure to Himos holiday resort by bus from WRTC HQ and Hotel Radisson SAS Hesperia)
16.30 Arrival at Himos holiday resort
<http://www.himoslomati.fi/english/>
17.00 - 19.00 Dinner
19.00 - 20.30 Competitor Meeting & Pileup competitions
19.00 - 20.30 Referee Meeting & Pileup Competition
20.30 Smoke and normal saunas are ready for you

On-going summer camp activities e.g. technical, DX and contest related lectures, flea market, rag-chewing

July 11, Thursday

08.00 - 09.30 Breakfast
09.30 - 11.30 Competitor and referee meeting
12.00 Opening ceremonies and introduction of teams and referees
14.00 Lunch
15.00 - 16.30 Referee training
16.30 - 17.00 IARU2002 Contest / SRAL Station presentation
17.00 - 18.30 K1B - DX-pedition presentation
20.00 WRTC Dinner and evening program

July 12, Friday

08.00 - 10.00 Breakfast.
10.00 - 12.00 Drawing for team operating QTH & call signs
12.00 - 13.00 Lunch
13.00 - 13.30 Departure from Himos
16.30 Arrival in Helsinki
17.00 - 19.00 Transportation to contest sites
19.00 - ... Preparations at contest sites
21.00 - ... Option to return to WRTC hotel

July 13, Saturday

(Breakfast at the hotel)
Back to contest sites
11.00 - 12.00 Referee Training, on-site
15.00 Contest starts

July 14, Sunday

15.00 Contest is over — return to Helsinki
18.00 Contest Postscript at Radisson SAS Espoo beer tent, snacks served

July 15, Monday

08.30 Nature of Finland Tour with OH5NQ
09.00 Helsinki sightseeing, lunch is included
09.30 Helsinki sightseeing, lunch is included
16.00 Return to hotel
17.00 Boat transfer from Radisson SAS Espoo
17.30 Transfer by bus from Radisson SAS Hesperia
18.00 Award Dinner at restaurant Klippan, Helsinki
23.00 Bus transfer back to hotels

July 16, Tuesday

WRTC2002 is over
Post Contest Tours begin

World Top RTTY Contesters' Round Table

Casual meeting & Garden B-B-Q

hosted by Kari OH2BP

Sunday, July 14th at 18.00

QRZ de oh2bp@alpha.fi or +358-50-68800

FOC Guys

are organizing a gathering on Thursday, 11th, following the official WRTC2002 ceremonies.

QRQ, OH2KI, jorma@salor.pp.fi

+358-50 429 2625

Competitors and Referees

The above program is FREE of CHARGE for competitors and referees who share a double room with a team mate. Himos tour accommodation is in 4-6 person cottages. EXCEPTION: "Nature of Finland" tour has a fee of EUR 20.

Other Guests

All other guests will pay their own program upon their package selection below; (Please note that EUR equals USD)

Total Guest package EUR 295
excluding accommodation
at Radisson Hotels,
including all meals (+4) and programs
together with competitors.

10-12.07 Tour to Himos EUR 130
including transport,
accommodation and meals

15.07 Helsinki sightseeing EUR 30
including lunch

16.07 Award dinner EUR 50
including transport



Like Stars Falling from the Sky

*Steve Morris, K7LXC, Chairman
WRTC Sanctioning Committee*



Some people are good. I mean REALLY good. They're capable of acts that mortal humans aren't. Whether it's running faster, climbing higher, growing better orchids, or setting some sort of record, it's these highly capable people that raise the bar of achievement. Some of the names you recognize but most of them you don't. Some are athletes and some are not - but they're all world class competitors.

So it is also with amateur radio. There are those ham radio operators who are able to compete at the highest level, sitting in front of their radios, computers, and other equipment while contacting other radio sportsmen around the world. And there is one amateur radio event that crowns the

world champions — the World Radiosport Team Championship.

The WRTC is the ham radio equivalent of the Olympics. There are teams of competitors from around the world that will be gathering in Finland for the fourth WRTC event in July 2002. There are the young hotshots — blessed with unbounded energy and physical stamina — who will be competing against the old veterans who will use their cunning and years of experience to their advantage.

The first WRTC was held in 1990 in Seattle in conjunction with the Goodwill Games. One of the highlights was that a delegation of 13 Russian amateurs was allowed to participate. While many of these

Russians had never been allowed to travel outside of the Soviet Union, some had never been permitted to meet outsiders. Many political and legal challenges had to be met and overcome so they could simply set foot on American soil. But they made it!

Referring to all of the gathered competitors, the Russian Army colonel that was in charge of his group said it was as if all "these stars fell from the sky and landed in Seattle". And he was right.

What we learned from the first WRTC that continues with each subsequent event is that yes, the competition is important. But the biggest lesson and feeling was that the friendship and camaraderie among the competitors, judges, and spectators was overwhelming. We were no longer concerned with borders, elected officials, or politics. We were ALL comrades, all brothers and we had more in common than we realized.

Yes, it's a world class competition but it gives us all a chance to discover more about our brothers and about ourselves.

A huge thanks to the Contest Club Finland and the organizing committee members for undertaking this challenging task and letting us be a part of this event.

LET THE GAMES BEGIN!

Past, Present and Future of the WRTC Concept

*Martti J. Laine, OH2BH
WRTC 2002 Co-Chair*



Thinking about the world's evolution from 1990, when the first WRTC was organized, up to this point in 2002, we can say that the world order has changed dramatically. Not everyone may remember the Cold War year of 1990 when a mysterious Russian contingent was arriving for the first time in Washington state. It was a friendship gathering between two worrying nations, and we oddballs were there to witness this historical occasion. But today the Soviet Union is no more, there is no Berlin Wall, and people and information are moving rather freely throughout this world of ours.

So, setting up a world event twelve years later requires a lot of serious thinking. Do we get back to those early years and make the event focus on the traditional amateur radio concepts, or shall we try to catch up with the world as it stands today? Amateur Radio is facing the challenge of winning the souls of today's youth — there is no doubt

about that — our intake of young people suffers badly, as us Old Timers are not getting any younger.

This specific point prompted the WRTC 2002 organizers to take a fresh look at things and make a quantum leap in the evolution of WRTC. It is this upcoming event that will determine whether our approach is successful and which concepts may be used next time around. But at least with this thinking, we were able to line up a group of young and enthusiastic people in Finland to make WRTC 2002 happen.

Selected Technology

When you limit technology and go back to the basics of Amateur Radio, you may please yourself with the idea that the playing field may be ultimately the same. No one can use any of today's technology — just change the antennas manually and pass those "yellow stickers" from station A to station B on the

multiplier passing. In factual thinking promoted by some, WRTC should compete in the "historical playing field", not taking on board those concepts that skillful operators use at their stations today.

So, WRTC 2002 decided to challenge this thinking and allow the well-known concepts of today to form a basic framework for station design, clearly spelling out the permitted options early on so that the teams can determine their strategy to make the best out of it. We do not expect everyone to employ an up-to-the-limit configuration — we do not even know what such configuration might be — but we will allow the participating teams to work together in true team spirit to design a set-up that will best serve their specific operating styles. Maybe some teams will go vanilla. But in many ways we will clearly underscore the fact that this is a team competition in which each team works together, utilizing today's known basic technical concepts as a winning formula for WRTC 2002.

Selected Optimum Team

In our observation, WRTC has an interesting record when it comes to the actual teams. Without going into the history of team selection, we have noticed that at one time, WRTC was to a large degree team captain "driven", with the captain's partner considered something of a "substitute operator" for those hours that the actual lead

operator took a break of some sort. Isn't it strange that in a true team competition, the "team working together" and keeping itself busy systematically at all times probably was not an underlying issue at all? No doubt past and future "team captains" are in a class by themselves, but continuing the promotion of "team effort" seems to be worth an additional big push.

In the WRTC 2000 team captain selection, it was noticed that in many cases the captain was chosen from among those who were "available" for travel. Hence, the starting point was not necessarily healthy. This selection criterion may work against us, resulting in some cases in a situation where the captain is not the actual captain. In those cases, the "second op" scores the result in a somewhat complicated "leadership" scenario. Here, the WRTC 2002 organizers decided to set highly ambitious goals and aim for the top potential of today's two-man skills to compete against each other.

Best teams ever selected

Looking at the teams, we can be very proud of the results. The teams seem to be made up of those names from the ranks of contestants that we are used to seeing high up on the lists. For the most part, the teams represent the very best from their individual countries. We claim that almost every team will target for placing among the top twenty-five (25). What a wonderful scenario, in the true spirit of competition and friendship; everyone will be committed to doing very well. No one will be left for the rankings 25 through 52! A truly fantastic and momentous competition is in the making.

When the captains were selecting their partners, they knew exactly which personalities and additional skills they were looking for. Up-front captain selection and matching pairs represent to us the two critical points for ensuring the highest level of competitors. When you set the standards high, it seems the snowball effect will make sure everyone likes to be on board! No wonder then that for the first time, we had so many applications to choose from and not very many to canvass. Even referee applications totalled more than 100, without any recruiting efforts. WRTC Magic!

We purposely left the wildcard criteria quite open, and here some countries lost some. In certain cases, country teams were promoted on the basis of the actual top team entering via the wildcard gate and thus potentially resulting in more than one team from the country. In some cases it worked but in others it did not; thus the risk taking did not always pay off. While targeting the highest possible level of competition, we really went for it. In the case of several countries, we went the extra mile to facilitate the very best operators, still staying within the original selection criteria. For the most part, it was highly successful, but in some less fortunate cases a potential country captain was not able to find a partner of needed calibre and track record. Consequently a few countries did not make it.

Is It a Social Gathering or Competition?

Based on the above two paragraphs, the answer to that question is self-evident. WRTC 2002 is a highly serious competition. The stage is set to facilitate such a competition. It is noteworthy that in the history of WRTC, some competitors have claimed they just came for the fun of it and said their main motivation was to have a happy week. But we all know better! If the concept is correct and the best people are in town, they will make it a damn serious happy week competition. They cannot do otherwise.

It would also be unfair to those who come here seriously at their own expense, using their valuable family holiday and more, if we were to bill WRTC as a "social gathering" and not a serious competition. So, let it be stated that we have promoted WRTC 2002 to all parties, competitors and sponsors as a serious competition among the world's best. All in the spirit of Olympic competition or even more. In traditional Olympic Games, a variety of countries send their representatives for the fun of it at the expense of the Olympic Committee! Since we do not have such resources, we have to limit WRTC 2002 to a more select group of serious competitors while still bringing together an impressive array of countries for the event.

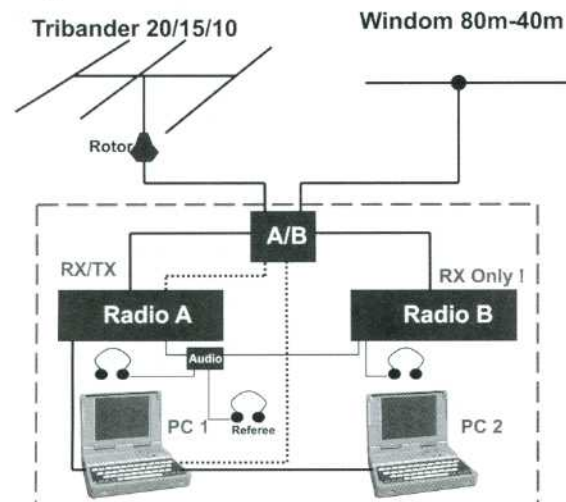
But ultimately, the competitive spirit and the social gathering will be present, co-existing. Our expectation, however, is that the social sense of gathering will get into full bloom when the competition is finished on Sunday, allowing people to have fun and meet each other and exchange those "war stories" that are typical for the people who enjoy the competitive spirit of WRTC. Prior to the competition, most teams are likely just to concentrate and experience the setting in a "making the best out of it" mode.

So, What's the Bottom Line?

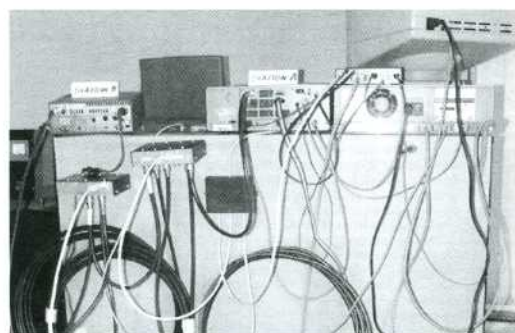
First, we do not want to disappoint anyone, but just wish to point out the ultimate nature of WRTC 2002. The Contest Club Finland (CCF) gang has put in hundreds of hours of their time to set the stage for this competition. The playing field should therefore be adjusted to meeting today's challenges and motivating today's competitors to put their soul into this one.

Hopefully the very best will win in the spirit of fair competition, and hopefully those down the list will discover the profiles of the winners so that they can further sharpen their skills together with the technology that we have in the racing circles today. Here, providing an opportunity for learning from each other, experiencing WRTC spirit together, and hopefully leaving Finland with many fond memories and rich experiences as human beings, is probably the best we can offer for Amateur Radio and contesting specifically at WRTC.

Providing WRTC kind of experience at on-site/on-the-air competition is the long lasting experience that we can all ultimately be proud of — and in the process, creating many hours of "hunt entertainment" for those whom we need at the other end of the circuit to whet our competitive appetite on the radio waves. "Contesting Will Be" is a saying among those who will gather in this northern, no-darkness setting to flex their operating muscles in a competition between the world's best in this ever-changing multi-matrix game of operating skill, propagation, technology and experience that we all seem to enjoy year after year.



Left: Each WRTC station can at the maximum throw into battle all this equipment pictured within the dotted line. The antennas and a rotator will be provided.



Bogdan, SP3RBR and Anderzej, SP8NR constructed this fine station. The band-pass filters are a highly essential part of it.



Message from the Host Station Network

Arto Liimatta, OH2KW, Head of NORA WRTC Hosting Group



Dear Competitors and Referees,

All station hosts and their families warmly welcome you to Finland and to the WRTC station sites. We have had an interesting and busy spring preparing the stations for you. Over 50 stations have been built up to specifications and tested in a real contest environment.

All the WRTC station construction work has now been completed. We station hosts are happy and hope to see that everything runs well. The stations are located in a wide variety of places, such as normal residential houses, summer cottages, club facilities, etc. So we hope you will understand that in some places certain luxury items might be missing, but all the sites have been built with a warm heart and in a true ham spirit.

My role at WRTC has been to lead the construction of five stations at the NORA Amateur Radio Club. Founded more than 30 years ago, NORA is the biggest of Nokia-affiliated amateur radio clubs in Finland. Here, I would like to thank our NORA station

hosts — Mika, OH2BJ; Jukka, OH2BR; Jouko, OH1RX and Harry, OH6YF — and their home teams have participated eagerly.

Now I would like to share with you a few words about our country, our characteristics and the expectations of host families:

Finns are probably best known as "Flying Finns", as they have been highly successful in long distance running, rally driving and Formula 1 racing. But Finns are also noted for their very good ham radio operators, winning trophies and setting world records e.g. in CQ WW contests. This is the result of real enthusiasm, many role models, successful history and systematic, hard work done for contesting. If you have the opportunity to travel in Finland, you will also notice big antenna systems here and there.

Some say Finns are quite shy, but don't be afraid, shyness will normally be gone swiftly. Well, maybe our "small talk" skills are yet not as impressive as our "big talk" capabilities. On the other hand, we hams have practised talking overseas for quite a long time compared to most other Finns.

Anyway, if you have anything to ask, or if you need help, do not hesitate to ask. I am sure you will get every possible help.

Finland is considered a highly impartial and independent country, and thus its good offices have been used by the UN in dealing with many recent crises. Maybe because of this, its advanced general infrastructure and extremely low corruption, Finland is also a very safe place. This does not mean that Finland has not changed much in recent times - on the contrary, it has changed significantly. We are now a member of the European Union and have adopted the European single currency, the euro. The Finnish telecommunications industry has surpassed the country's previously dominating and traditionally strong forest industry. Generally speaking, Finland is now much more global in outlook than it was ten years ago.

The time you will be spending here is the best season in Finland. Even though the real midnight sun can be seen only in northern Finland, you will realize why summer nights are called white nights - it doesn't get dark at all. In July, most Finns are on summer holidays visiting their summer cottages, seeing relatives, fishing, grilling food outdoors and relaxing. Of course, the annual SRAL Summer Camp (Field Day) is a very important event for all Finnish hams. As you will all be at the SRAL Summer Camp in Himos this year, it will really be a most memorable one! Let us hope the weather will also be fine during your stay here.

We station hosts expect to see a very well-matched but fair competition at WRTC. We also look forward to having the opportunity to see how top class contesters are operating, and to learn from them. But maybe the biggest thing to experience is making new friends with hams from all over the world! And when you are back home, it would be nice to meet you during the next contest season.



HOST STATION NETWORK

Team OH2V, Nokia: Arto, OH2KW
(OH2KW, OH6YF, OH1RX, OH2BJ, OH2BR)

Team OHDXF North: Kari, OH2BP
OH2BP, OH2BAD, OH2BO, OH2LB, OH2WC

Team OHDXF South: Pekka, OH2TA
OH2TA, OH5KW, OH2KI, OH2BNX, OH2LAK

Team OH2AQ, Elisa Comm: Raimo, OH2BCI
OH2BCI, OH2AQ 1, OH2AQ 2, OH2CV, OH2ME

Team OH2NM, YLE: Teuvo, OH1BV
OH1BV, OH1MK, OH2VB, OH2NM, OH2KFI

Team OH2ET, Kirkkonummi 1: Matti, OH2PJ
OH2HUH, OH2RF, OH2MZB, OH2FQ, OH2MH

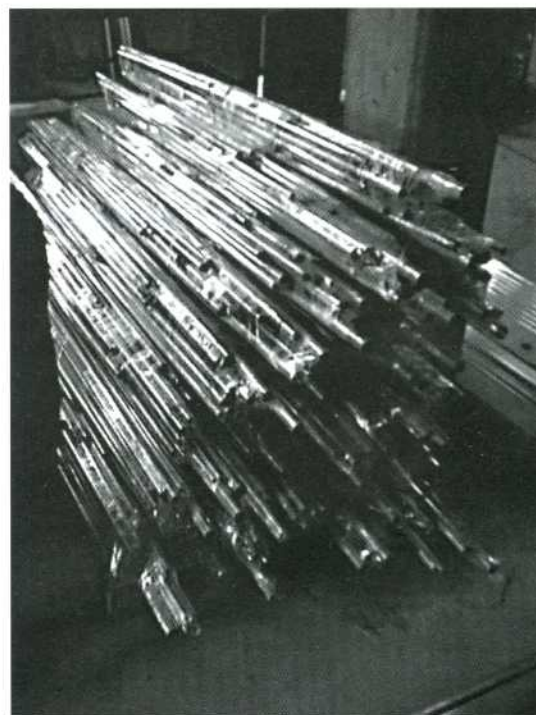
Team OH2ET, Kirkkonummi 2: Simo, OH2HAN
OH2HAN, OH2KKU, OH6XY, OH2ES

Team OH2U, Lohja: Pekka, OH2HE
OH2HE, OH2JTE, OH2BAH, OH2BPI, OH2AAB

Team PRH, Porvoo: Eda, OH2LXB
OH2HXT, OH2KU, OH2LOI, OH2NMZ, OH2HXP

Team Salo: Jari, OH1BOI
OH1BOI, OH1PV, OH1XX, OH3BHL, OH1AV

Team OH-DX-RING, OH2AM:
OH2BC, OH2BH, OH2MM, OH2QV, OH2LQS



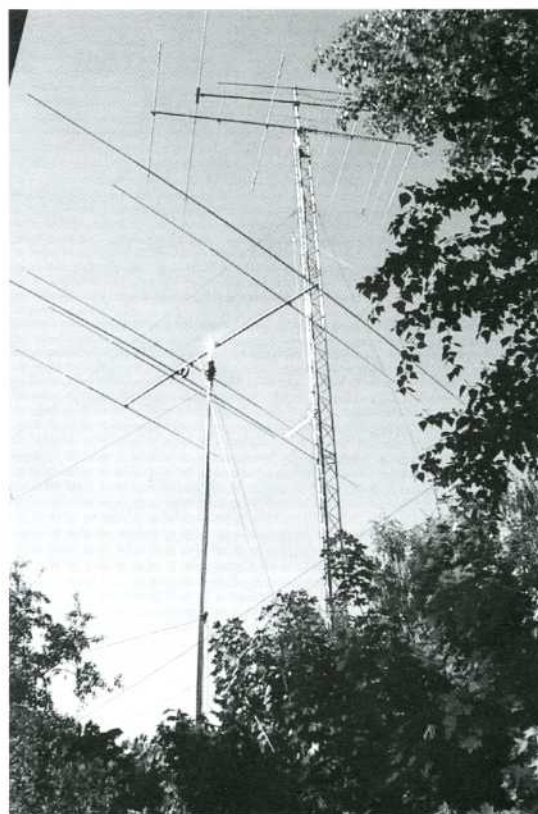
Top: Some 2500 kg of aluminum tubing turned into antennas at the factory of Finnish Antenna Ltd

Bottom left: The host station network gang went to an open-air theater, looking for inspiration and doing team building.

Below: WRTC antennas are often found in the shadow of bigger beams creating a motivational vacuum.

OJ CALLSIGNS TO BE USED

OJ1C, OJ1F, OJ1M, OJ1N, OJ1S, OJ1W, OJ1X
OJ2F, OJ2H, OJ2J, OJ2Q, OJ2V, OJ2Y, OJ2Z
OJ3A, OJ3D, OJ3N, OJ3R, OJ3T, OJ3X
OJ4A, OJ4M, OJ4N, OJ4S, OJ4W
OJ5A, OJ5E, OJ5M, OJ5T, OJ5U, OJ5W, OJ5Z
OJ6C, OJ6E, OJ6K, OJ6N, OJ6W, OJ6X, OJ6Y
OJ7A, OJ7C, OJ7M, OJ7N, OJ7S, OJ7W, OJ7X
OJ8A, OJ8E, OJ8K, OJ8L, OJ8N, OJ8W





SITE-REFEREE NETWORK

Roger Western, G3SXW & Olli Rissanen, OH0XX
Co-Chair, Referee Management



WRTC creates a level playing-field so that we can judge who is the best contest-operator. The contest rules have been devised carefully so as to eliminate any chance of competitors gaining unfair advantage. All of the 52 teams will be monitored by a Referee, designated entirely to ensuring that each team abides by ALL the rules. Each Referee will monitor all the activities of their assigned Team for the duration of the event. They have to stay awake for the full 24 hours of the Contest! If there is any rule-bending then the Referee will report details to the Judging

Committee - maybe the 2nd operator touched Radio A, or maybe the Team tampered with the antennas, or maybe they spoke in their own language (to identify themselves to friends back home).

It is important that the contest Rules are followed 100%, by all Teams. It is highly unlikely that any Team will break the rules but WRTC has invested in one full-time Referee for each Team, just to be sure. Our heartfelt thanks to all these highly-experienced contesters who have volunteered to perform this role.

| Referee Call | Name | Referee Call | Name | Referee Call | Name |
|-----------------|------------------------|-----------------|---------------------|-----------------|-------------------|
| 4Z4KX | Mark Stern | N0AX | Ward Silver | OH6OS | Juha Kasari |
| DL6LAU | Carsten Esch | N2AA | Eugene Walsh | OH7BX | Pauli Laukkanen |
| F6BEE | Jacques Saget | N3AD | Alan Donziger | OH7JR | Jarmo Raisanen |
| G0MTN | Lee Volante | N3BB | Jim George | RZ3AA | Roman Tomas |
| G4BUO | Dave Lawley | N4GN | Tim Totten | S50R | Leo Xhoko |
| HA6ND | George Valoczi | N7BG | Tony Rogozinski | SM3CER | Jan-Eric Rehn |
| IV3TAN | Alberto Annesi | N7NG | Wayne Mills | SM3DMP | Thomas Rylander |
| K1VR | Fred Hopengarten | OH1EB | Jari Kulki | SM3EVR | Tord Julander |
| K3NA | Eric Scace | OH1JD | Ville Lintervo | T93Y | Boris Knezovic |
| K6AW | Stephen Merchant | OH1MA | Jaakko Silanto | UG9AJR | Juan Carlos Munoz |
| K6KR | Dick Dievendoff | OH2JA | Mika Hermas | UA6HZ | Larry Agabekov |
| K6NA | Glenn Rattman | OH3BU | Jari Jokiniemi | W0GJ | Glenn Johnson |
| K7BV | Dennis Motschenbacher | OH4XX | Mikko Pöyhönen | W0RTT | Pete Grillo |
| K8NZ | Ron Harps | OH5BM | Tapani Nisula | W6OAT | Rusty Epps |
| K9ZO | Ralph Bellas | OH5NQ | Peter Tigerstedt | W6UM | Charles Weir |
| KC1F | Stuart Santelmann | OH6DO | Marko Myllymaki | WC4E | Jeff Bolda |
| KM3T | Dave Pascoe | OH6LNI | Ari Hyvonen | WX0B | Jay Terleski |
| KT3Y | Phil Allardice | OH6RX | Jussi-Pekka Sampola | | |

Determining the Best with OH3UU & OH2MM

Over the Years

During the last decade, dramatic improvements have been made in the field of contest log checking. These changes parallel the recent expansion of computer technology. Known for their ability to keep up with the cutting edge of state-of-the-art development, hams have rapidly adopted the new database technology to make the contest results more accurate, fairer, and more credible than ever before. No doubt, appropriate use of database technology has enhanced the esteem of contesting not only among the hams themselves, but also among the general public.

The CQ World Wide DX Contest has been the playground where pioneering work in electronic log checking on a large scale has recently taken place. There are two famous calls that deserve a special mention: Tree, N6TR and Dick, N6AA. It is well known that the popular TR-log contest program was created by N6TR, but maybe not everybody knows that he also developed Calltest, the core software currently used for log checking by the CQ WW DX Contest Committee.

Spending thousands of hours every year in running the software, Dick, N6AA, has made the actual computer analyses of the huge CQ WW database created out of our electronic logs. The talent, enthusiasm, devotion and seamless cooperation of those two

contesters has enabled us to have our uniques, bad calls, and not-in-logs (UBN report), not only for fair ranking by the Committee, but also for a tool to improve our operating accuracy.

Today at WRTC 2002

For more than a year, the WRTC 2002 organizers have worked intensively towards the optimization of the log checking procedures. The Finnish WRTC log checking team is led by Risto, OH3UU. After 30+ years as an active contesteer both nationally and internationally, Risto would take the burden of this core function of the upcoming WRTC. Risto is no stranger to computer programming, either, since he has developed the most popular OH contest software, and is largely responsible for checking the logs in national OH contests. Please note that WRTC, in fact, is like a national contest with 52 OJ teams participating.

Another highly experienced contesteer who has made a major contribution to the WRTC log checking procedures is Ville, OH2MM. As a CQ WW Contest Committee member for many years, OH2MM has closely participated in the international log checking procedures and now brings his expertise to the WRTC. Ville also is quite familiar with the databases; some of you might remember him from his "European QSO Bank" effort in the early 1990's.

The Finnish software team was fortunate enough to get the whole WRTC 2000 database with all the Slovenian and World IARU logs from the ARRL, thanks to N7NG and N6TW. We thus had a chance to apply the software to the year 2000 data. This enabled us to test it thoroughly and simulate the real contest and finally tailor our program to optimally suit our purposes.

Official Participating Country Teams of WRTC-2002

Europe



Austria

OE2VEL ✓
OE9MON ✓

Wolfgang "Wolf" Klier
Carl Maurer



Belgium

ON4WW ✓
ON6TT ✓

Mark Demeuleneere
Peter Casier



Croatia

9A9A ✓
9A3GW ✓

Zdravko Balen
Robert Orehoci



Czech Republic

OK2FD ✓
OK2ZU ✓

Karel Karmasin
Vojta Zeman



Estonia

ES5MC ✓
ES2RR ✓

Arvo Pihl
Toivo Hallikivi



Finland

OH1MDR ✓
OH1MM ✓

Timo Pohjola
Pasi Alanko

OH6EI ✓
OH2XX ✓

Tomi Ylinen
Kari Lehtimäki



France

F6FGZ ✓
F5NLY ✓

Gerard Parat
Laurent Blin



Germany

DJ6QT ✓
DL2OBF ✓

Walter Skudlarek
Heindrich Langkopf

DK3GI ✓
DL1IAO ✓

Roland Mensch
Stefan von Baltz

DL2CC ✓
DL6FBL ✓

Frank Grossmann
Bernd "Ben" Och



Hungary

HA1AG ✓
HA3OV ✓

Zoli Pitman
Antal "Anti" Hudanik



Italy

IK2QEI ✓
I4UFH ✓

Stefano Brioschi
Fabio Schettino



Latvia

YL2KL ✓
YL3DW ✓

Girts Budis
Olegs Osrgiallo



Lithuania

LY1DS ✓
LY2TA ✓

Dainius "Dan" Savicius
Andrius "Andy" Ignotas



Poland

SP3RBR ✓
SP8NR ✓

Bogdan Chorazyk
Andrzej Jarzabkowski

SP7GIQ ✓
SP2FAX ✓

Krzystof Sobon
Kazimierz Drzewiecki



Russia (European)

RW1AC ✓
RW3QC ✓

Vlad Aksenov
Jack Danielyan

UA2FZ ✓
RW4WR ✓

Igor Avdeev
Alex Orlov

RA3AUU ✓
RV1AW ✓

Igor "Harry" Booklan
Andrei Karpov



Slovenia

S56M ✓
S57AL ✓

Vito Kregar
Ivo Jereb

S50A ✓
S59AA ✓

Tine Brajnik
Franc Bogataj



Spain

EA3NY ✓
EA3KU ✓

Eduardo Stark
Fernando Martinez



Sweden

SM5IMO ✓
SM3SGP ✓

Dan Hultgren
Gunnar Widell



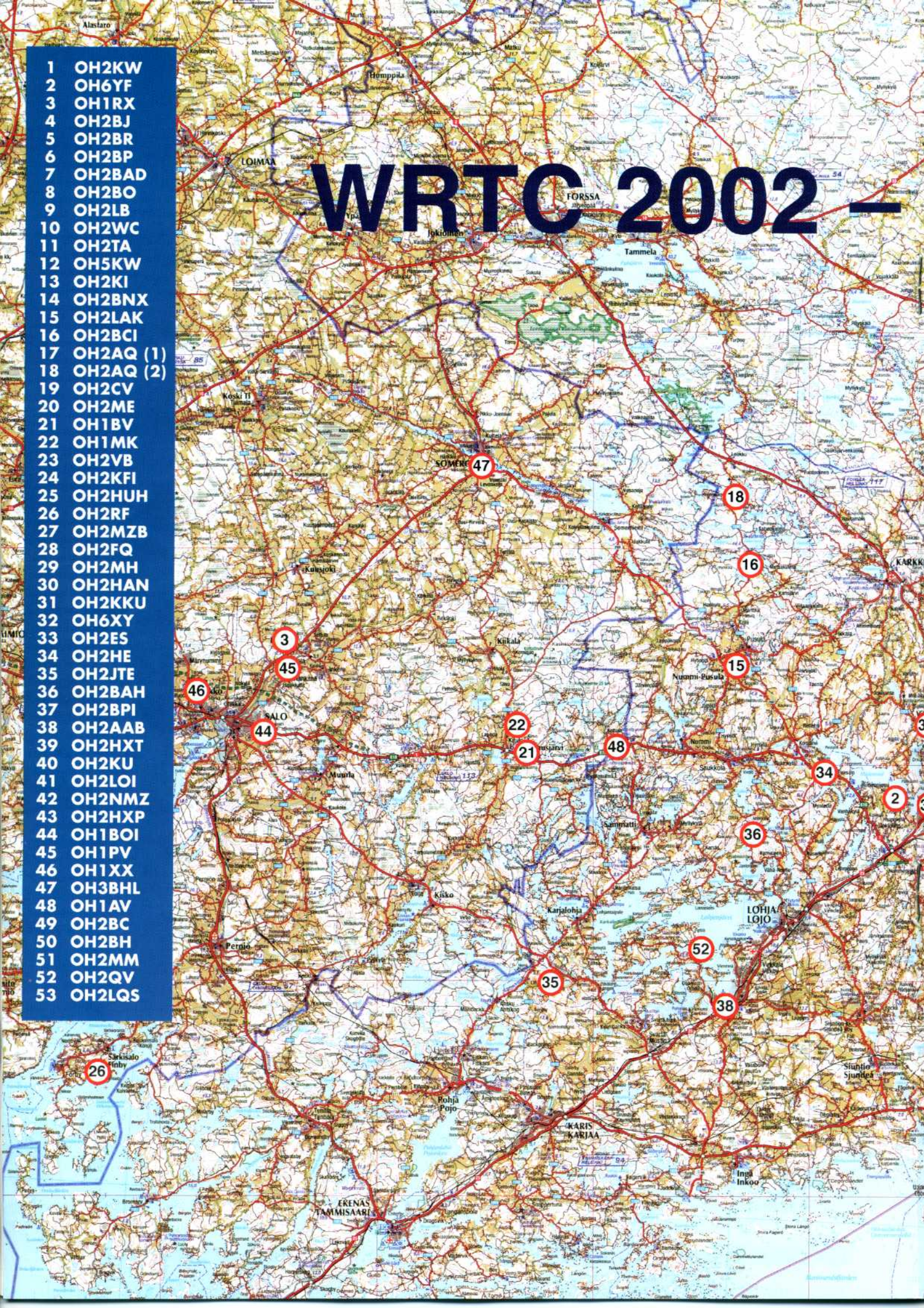
Ukraine

UT4UZ ✓
UT3UA ✓

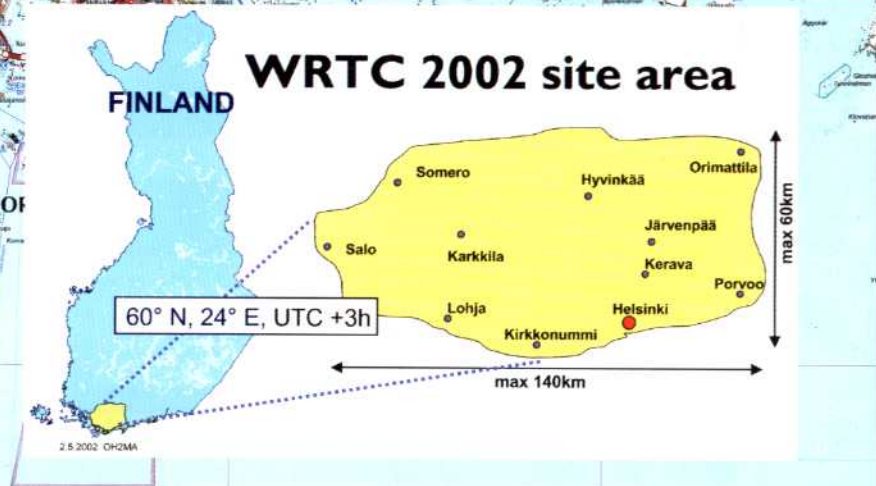
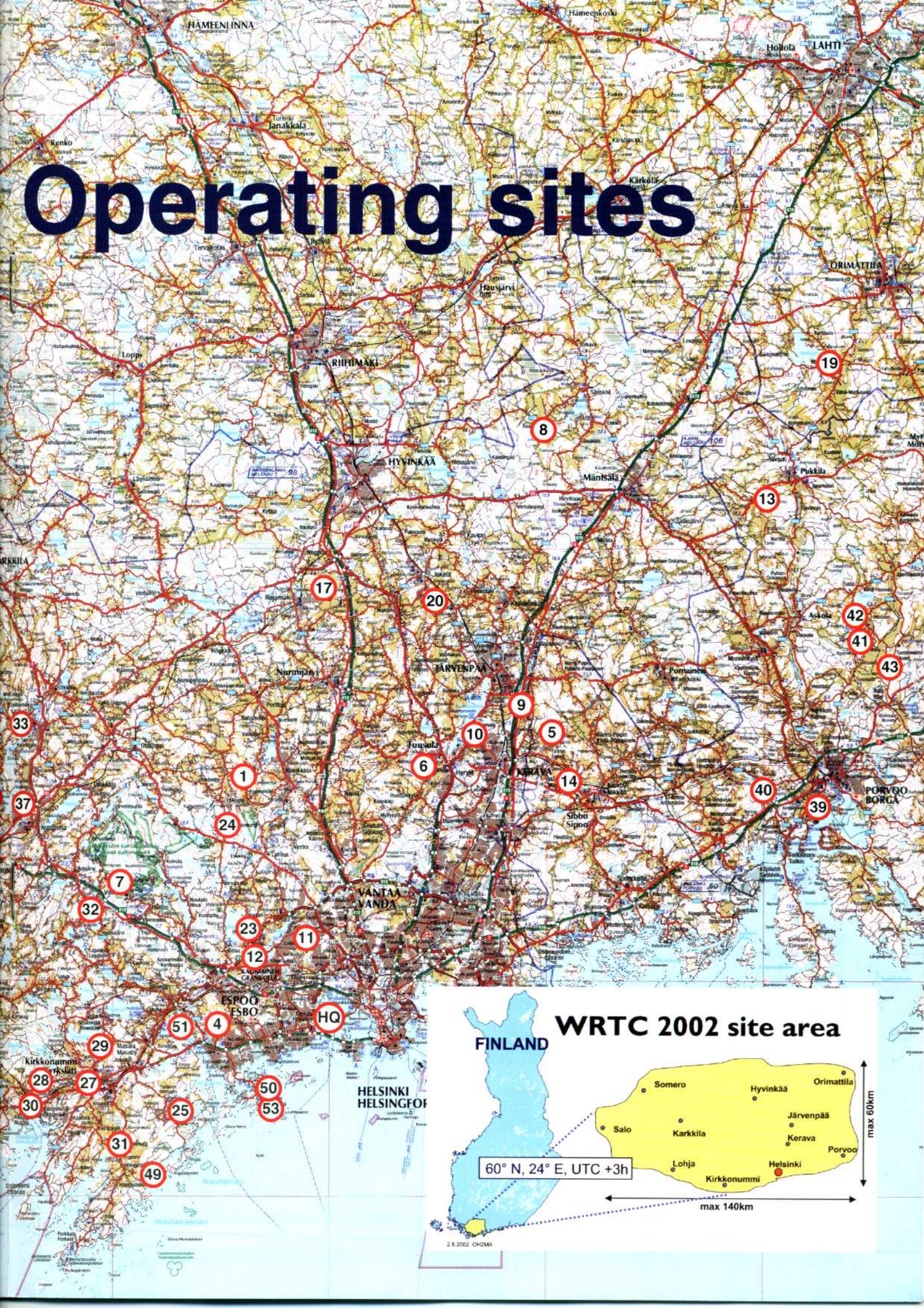
Yuri "Jerry" Onipko
Sergey Vasilenko

WRTC 2002

- 1 OH2KW
- 2 OH6YF
- 3 OH1RX
- 4 OH2BJ
- 5 OH2BR
- 6 OH2BP
- 7 OH2BAD
- 8 OH2BO
- 9 OH2LB
- 10 OH2WC
- 11 OH2TA
- 12 OH5KW
- 13 OH2KI
- 14 OH2BNX
- 15 OH2LAK
- 16 OH2BCI
- 17 OH2AQ (1)
- 18 OH2AQ (2)
- 19 OH2CV
- 20 OH2ME
- 21 OH1BV
- 22 OH1MK
- 23 OH2VB
- 24 OH2KFI
- 25 OH2HUH
- 26 OH2RF
- 27 OH2MZB
- 28 OH2FQ
- 29 OH2MH
- 30 OH2HAN
- 31 OH2KKU
- 32 OH6XY
- 33 OH2ES
- 34 OH2HE
- 35 OH2JTE
- 36 OH2BAH
- 37 OH2BPI
- 38 OH2AAB
- 39 OH2HXT
- 40 OH2KU
- 41 OH2LOI
- 42 OH2NMZ
- 43 OH2HXP
- 44 OH1BOI
- 45 OH1PV
- 46 OH1XX
- 47 OH3BHL
- 48 OH1AV
- 49 OH2BC
- 50 OH2BH
- 51 OH2MM
- 52 OH2QV
- 53 OH2LQS



Operating sites



Official Participating Country Teams of WRTC-2002

Europe (cont.)



United Kingdom

G4PIQ ✓ Andy Cook
G4BWP ✓ Fred Handscombe



Yugoslavia

YU7BW ✓ Robert Homolija
YU1ZZ ✓ Milovanovic Milan
YT1AD ✓ Hrane Milosevic
YU7NU ✓ Mladen Bogdanov

Asia



Cyprus

5B4ADA ✓ Ivo Pezer
5B4WN ✓ Marios Nicolaou



Japan

JM1CAX ✓ Koji Tahara
JE1JKL ✓ Satoshi Nakamura



Kazakhstan

UN9LW ✓ Vladimir Vinichenko
UN7LAN ✓ Alex Sytov



Russia (Asiatic)

RZ9UA ✓ Mikhail Klovov
UA9MA ✓ Gennadij "Gena" Kolmakov
UA9BA ✓ Vladimir "Willy" Umanets
RN9AO ✓ Nickolai Perminov



United Arab Emirates

A61AJ Ali Al-Futtaim (Captain)
K1ZM Jeffrey "Jeff" Briggs
N6ZZ Philip "Phil" Goetz

Africa



South Africa

ZS6EZ ✓ Chris Burger
ZS4TX ✓ Bernie van der Walt

Americas



Argentina

LU7DW ✓ Claudio Gabriel Fernandez
LU1FAM ✓ Lucas Maiorov



Brazil

PP5JR ✓ Sergio Lima de Almeida
PY1KN ✓ Marcelo Gomes da Silva



Canada

VE3EJ ✓ John Sluymmer
VE7ZO ✓ Jim Roberts
VE7SV ✓ Dale Green
VE7AHA ✓ Andrew Ponzini



United States of America

N5RZ ✓ Ralph Bowen
K2UA ✓ James "Rus" Healy
N6RT ✓ Douglas "Doug" Brandon
N2NT ✓ Andrew "Andy" Blank
N6MJ ✓ Daniel "Dan" Craig
N2NL ✓ David "Dave" Mueller
K1AR ✓ John Dorr
K1DG ✓ Doug Grant
W4AN ✓ Bill Fisher
K4BAI ✓ John Laney III
N5KO ✓ Robert "Trey" Garlough
N1YC ✓ James Brooks
N2IC ✓ Steven "Steve" London
K6LL ✓ David Hachadorian
NT1N ✓ Dave Patton
AG9A ✓ Mark Obermann
KQ2M ✓ Robert "Bob" Shohet
W7WA ✓ Daniel "Dan" Handa
K5ZD ✓ Randall "Randy" Thompson
K1KI ✓ Thomas "Tom" Frenaye
N5TJ ✓ Jerrfey "Jeff" Steinman
K1TO ✓ Daniel "Dan" Street
K3LR ✓ Timothy "Tim" Duffy
N9RV ✓ Patrick "Pat" Barkey
N6TJ ✓ James "Jim" Neiger
N6AA ✓ Richard "Dick" Norton

Greetings from WRTC Old Timers and Lady "A"

*Pasi Luoma-aho, OH2IW,
Co-Chair WRTC 2002*



As many of you know, or at least our beloved Scandinavian companions know, we Finns take Amateur Radio contesting very seriously, just as we take ski jumping, rally driving, ice-hockey. I guess this reflects the spirit of any small nation in their mission to exist and to be something in this great galaxy of ours. Up here in the north of Europe, "Lady Aurora" often tests our contest enthusiasm and adds her own ever surprising and unpredictable flavor to the contest weekends. But...so what! Your neighbor has the same trouble, and winning your neighbor is almost as rewarding as winning the world. Well, all right, maybe winning the Swedes is even more rewarding, no matter what the sport or the category!

We warmly welcome you all to get a taste of contesting from up here in these northern

parts. We hope you will remember WRTC 2002 as one of *the* happenings in your life — the one where the midnight sun puzzled you to the extent you almost forgot whether it was AM or PM, the one where you wondered where to beam your antenna during sunsets and sundowns that did not seem to exist in the first place, the one where the bands were governed by unpredictable changes with "Lady A" making the job of following a well-planned strategy quite a challenge.

We, the operators listed below, were honored to have been selected to take part in and to represent the contesting community of Finland in the previous Olympics of Amateur Radio contesting. Having been able to meet up with all those guys behind the call signs so familiar to you from contests

and big pileups throughout the years, having had the possibility to rag-chew with the living legends of Amateur Radio contesting, not to mention the many skillful and potent legends of years to come, we feel that all those great feelings of global togetherness certainly make the WRTC a "once in a lifetime" experience for each of us. And surely, we can now feel and experience it once again — this time on our own turf!

We wish you all a very pleasant and memorable visit in Finland. May the best team win — and may all of us enjoy this great get-together of like-minded individuals!

Finnish teams in WRTC 1990-2000

Seattle, USA, 1990

OH1XX, Hannu Nieminen
OH8PF, Jukka Keskiaho

San Francisco, USA, 1996

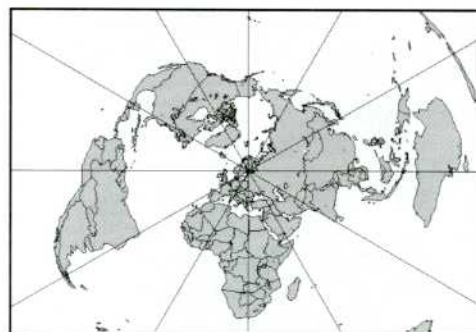
OH1JT, Juha Tuovinen
OH2IW, Pasi Luoma-aho

Bled, Slovenia, 2000

OH1EH, Ari Korhonen
OH1NOA, Timo Klimoff

Propagation Forecast

*Jari Perkiömäki,
OH6BG*



Executive Summary

The 20 and 15 metres are the bands that are open most of the time. On 10 meters the north-south path should work best. On lower bands, your best guide will be the ionospheric grayline maps to determine the best hours to various DX locations.

The Best Band Table assesses which is the best of all available bands to the target area on the given hour. Therefore, be sure to check out the other bands, too.

The dash "-" in the table does not necessarily mean that the propagation path is not open. It can also mean that the predicted value on any band is less than the chosen threshold value.

| UTC | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| CENTRAL EUROPE | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 14 | 14 | 14 | 14 | 14 |
| MIDDLE EAST | 21 | 21 | 21 | 21 | 14 | 14 | 14 | 14 | 21 | 21 | 7 | 7 | 14 | 14 | 7 | 14 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| SIBERIA | 14 | 14 | 14 | 14 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 14 | - | 14 | - | 14 | 14 | 14 | 14 | 14 |
| AFRICA EAST | 21 | 21 | 21 | 21 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 7 | 14 | 14 | 21 | 21 | 21 | 21 | - | 21 | 21 |
| AFRICA SOUTH | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 14 | 14 | 14 | - | - | - | 7 | - | - | 14 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| AFRICA WEST | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 21 | 21 | 21 | 21 |
| USA EAST | - | 14 | 14 | - | - | - | 14 | - | - | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | - | 14 | - | - |
| USA WEST | - | - | 14 | 14 | 14 | 14 | 14 | - | - | - | - | - | 14 | - | - | - | - | 14 | 14 | 14 | - | - | - | - |
| ALASKA | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| CARIBBEAN | 14 | - | - | - | - | - | - | - | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | - | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| CENTRAL AMERICA | 14 | - | - | - | - | - | - | - | - | - | - | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | 14 | 14 | 14 | 14 | - |
| S AMERICA NORTH | - | - | - | - | - | - | - | - | - | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - |
| S AMERICA SOUTH | - | - | - | - | - | - | - | - | 21 | 21 | 21 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | - | - | - | 21 |
| NEW ZEALAND | - | - | - | 14 | 14 | - | - | 14 | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AUSTRALIA EAST | - | - | 14 | 14 | 14 | 14 | 14 | 14 | - | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | 21 | - |
| AUSTRALIA WEST | 21 | - | 14 | 14 | 14 | 14 | 14 | 14 | - | - | - | 14 | 14 | - | - | - | - | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| INDONESIA | - | - | 14 | 14 | 21 | 21 | 21 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | - | 21 | 21 | 21 | 21 | 21 | - | - | - |
| INDIA | - | - | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 21 | 21 | 21 | 21 | 21 | - | 21 |
| CHINA | - | - | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | - | 14 | 14 | - | - | - | - | - | - | - |
| JAPAN | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | - | - | - | - | - | - | 14 |
| PACIFIC | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | - | - | - | - | - | - | - | 14 | - | - | - | - | 14 | 14 | 14 |



"Three Cycles of Perspective on WRTC"

*Ward Silver NØAX,
WRTC Referee & Authorized Reporter*

Dan Street K1TO



I am 42 and have been married for 19 years with no children. We moved to Florida from Connecticut in 1996. I am a consultant for large retailers. As a 12-year-old 7th grader, my best friend asked me if I'd like to attend a radio club meeting after school. I absolutely hated it, but somehow he got me back for one more meeting at which our science teacher, WA1PTK, made a CW contact with a station in New York. Wow - New York! I was hooked. I recall listening to 20-meter CW on my dad's shortwave receiver and copying down every call I could copy - among them was ET3USA. I did work the late JH1WIX on the eve of taking my General exam, further fueling an interest in DX.

It was really SS CW 1974 that got me going in contesting. At one point, I made 7 QSOs in 10 minutes and got so excited that I stopped to describe it to my Elmer. WA1KID (now W6XR) introduced me to the Murphy's Marauders club. K1ZM invited me to join the M/M effort at W1ZM in February 1975, where WA2LQZ (now K1AR) was among the ops. I never missed another ARRL DX Test and the rest is history. Working in the Contest Branch of the ARRL for several years really honed my interest in logging accuracy and analysis. One last point - I recall vividly reading about PJ9JT (W1BIH - op.) averaging over 100 QSOs per hour and thinking to myself how impossible that seemed.

Dave Mueller N2NL



I am 30 years old and am a career active duty member of the US Coast Guard, presently stationed in Palm Beach, Florida at a small boat station from which we perform over 400 search and rescue cases each year. I am married to my beautiful wife Mickey and have a 6 year old son, Jordan. I have a number of

WRTC attracts a diverse crowd. From the spectators and their families to the most intense of the competitors, the entire spectrum of amateur radio contesting is represented. Even within the competitors themselves, a broad set of abilities and experiences is present. This is one of the most interesting aspects of going to WRTC - meeting all those guys and gals that you have put in the log many times and finding out what they are like in person.

The teams representing USA this year span that lifetime of experiences. We've selected three of those teams to sample those lifetimes. Dan Craig N6MJ and Dave Mueller N2NL are the youngest U.S. team ever to participate in a WRTC, but already are having a serious impact on the sport in the US. Dick Norton N6AA and Jim Neiger N6TJ have an unparalleled record in contests spanning decades with many wins from around the globe. Jeff Steinman N5TJ and Dan Street K1TO need no introduction to WRTC fans, having won the past two competitions in San Francisco (1996) and Slovenia (2000), plus holding several individual records in major contests.

In this set of interviews, we posed some questions to gather the opinions and experiences of these top contesters. The reader will enjoy their perspectives on the competition and contesting in general. While these gentlemen hail from quite different places and histories, you'll find it quite interesting to learn what they consider common ground.

The Interview

Does representing the USA, as others represent their own countries, change WRTC for you? How do you plan to be part of the USA team - not just your own two-man team?

K1TO: 9/11 was tremendously sobering for the world, and especially for us Americans. It really puts some things in perspective and makes me want to live and enjoy every moment of my life even more than before. The fact that the WRTC will continue on is a great thing. I expect everyone to compete fairly and constructively - that goes for all teams, not just the USA teams. Unlike other

Olympic-style events, on-the-air events are pretty much every team for themselves. Outside of the competition, I plan to interact as much as possible with the other competitors and attendees, just as I did in Slovenia staying up until all hours at the ice hall!

N6TJ: As for all, I'm sure, it's a great privilege for us to be asked to represent one's country. Rather simply, if you do well as a team, you honor your country. I don't know that we will have the luxury of doing much more than just trying to show up. WRTC2000 in Bled was absolutely fantastic in the opportunity to meet the world's contesters, and we expect Finland will be more of the same.

N2NL: I don't think that representing the USA makes any changes for WRTC for me. I want to go home knowing that we did the best we could regardless of the outcome, without any negative thoughts of "we should have done this, or worked harder at that...."

As part of team USA and as a visitor I need to be on my best behavior. I love to travel; to take in the sites and meet new friends - and know that in order to do so I need to be respectful to those in the country I'm visiting. I want those I meet to have a positive image of the USA through me.

N5TJ: Dan and I know most of the other US operators, some very well. As such I would say we are, to some degree, one happy family, and I so I don't see any conflict. Each team wants to win. I can recall in Slovenia one of the teams having some problems and other teams were volunteering to give them extra equipment if they needed it.

N6MJ: I am very proud to represent the USA, however I don't think it will change much about my approach to WRTC. My main goal is to come home a winner. I know I need to be on my best behavior while in a foreign country. I will do my best to be a good representative of the USA both in the contest and to the local people.

Have you set a target for your final scoring and ranking? Whom do you consider your most serious competitors and what strategies will you use to achieve your targets?

K1TO: I have very simple goals - do my best and enjoy it. Specific goals cause two things: If you are ahead of the goal, you relax and get over-confident. If you are behind the goal, you get frustrated and waste energy worrying. There is really no way to gauge ourselves from any past WRTC competitions, but we would expect the propagation knowledge to be invaluable. This is the toughest field of competitors yet, so it will be interesting to see the official Las Vegas odds on each team. Jeff and I will formulate a more specific strategy closer to the event itself. Each WRTC has had unique rules, each of which requires a slightly different strategy.

N6TJ: Our target for scoring and ranking must be to not embarrass ourselves too badly. We see as our most serious competition ANYONE younger than us. Which is just about everyone. We would be thrilled to make the Top Ten.

N2NL: I don't think Dan and I would have put our names in the hat of possible WRTC competitors if we didn't think we could win. We've already proven to work well together. As far as strategy, ask us after the contest is over. We'll let you know how well our strategies worked.

N5TJ: To be honest, as of late April Dan and I have only spoken about the contest a few times. Not trying to hide anything, we just have not planned a strategy yet. There are so many excellent teams I would say it's difficult to rank which teams may be the top competitors. Certainly those teams that know propagation from Northern Europe should have some advantage.

N6MJ: My ultimate goal is to win the competition. I think it is very important to have a positive attitude when you do a contest. If you don't think you will win, then you probably won't. My main strategy is to be well prepared. I plan to study logs from past WRTC events, and also logs from OH stations. I think that all the teams have a shot at winning.

There are young, journeyman, and veteran contesters all participating in WRTC. What are the benefits and drawbacks of each category? However you rank yourselves, what strengths and skills do you bring to the competition?

K1TO: Even at age 42, I am younger than many competitors, but my 30 years of hamming clearly qualifies for the veteran status. N2NL and N6MJ are clearly the youngest USA team, yet they have plenty of experience. Fatigue is less of a differentiating factor in WRTC, but I'm always inspired by the great performances of N6TJ, for example. Both Jeff and I know the IARU format very well - this is perhaps an overlooked aspect of who does well in WRTC.

N6TJ: As long as the Finn's provide an ample supply of oxygen bottles, we old timers think we can maybe keep up with some of the youngsters. But some of those guys are just too good. We'll see. I like to dream that experience makes a difference. And that size really does make a difference too....

N2NL: This will be our first WRTC and I will be having the time of my life meeting the faces behind the calls — K1AR, OH2BH, etc. Personally, I don't consider myself to be "at their level" yet - maybe in another 10 years. That drives me to do work as hard as I can. Obviously we may be at an experience disadvantage — but we're too young and immature to know any better!

N5TJ: As far as WRTC, we are veterans. As to contesting in general, we are probably in the "middle" of the experience range. It's good to see some young teams of skilled operators coming. Ham radio, as well as contesting, both benefit from new, young hams coming in to the hobby. And while these youngsters may not have years of experience or ever operated from a DX location, they will be very hungry to prove themselves.

N6MJ: Everybody competing in WRTC has had different experiences in contesting. Some are great at technical stuff, others are good at SSB and others are good at CW. No team is perfect.

What value does contesting and WRTC-2002 have for you as a person? How does contesting add value to Amateur Radio as a whole?

K1TO: Contesting is a great outlet for my competitive nature. It combines many interesting facets — competition, communication, efficiency, geography, technology, strategy and tradition. Contesting challenges many hams to improve their skills and knowledge in each of those areas. We have fun together, we learn from each other and we contribute to a common good. What more could you ask for from any hobby?

N6TJ: Radio contesting has been good to both Dick and me. Truly it gives us the excuse to travel the world, and to see places few others see. WRTC2002 will only enhance that opportunity. We can't wait.

N2NL: Contesting is probably the thing I am "best" at and have had the most success. I am honestly a very self-conscious person and have trouble believing I can be successful at something. An exception is contesting, where I have a high level of confidence. I do believe that contesting is one of the elements which pushes amateur radio to new frontiers. With every innovation, we help further the hobby, alongside those who experiment with UHF or new digital modes, for example.

N5TJ: Contesting is an opportunity for me to participate in a competitive event with my friends from around the world. As to WRTC2002, it the best of all contests as so many people will be in one place where we can meet and talk socially, instead of just the regular "59" reports. It's a great chance to meet other competitors and get to learn something about people from a new land and the country they call home.

N6MJ: Contesting has always been a part of my life. I also enjoy DXing, but there is nothing greater than pulling off a 200 hour. Contesting always pushes your limits. You need to continually upgrade your station to keep up with the top guys. There is always something new to learn that will help you

different hobbies, including Scuba Diving. I have been an amateur radio operator for 18 years now. My Dad gave me a shortwave radio and while tuning around I discovered the 40m ham band — and realized that I didn't have to just listen — I could actually talk to those people. I was active in Boy Scouting and was led to Don AA2F who taught Novice classes and showed me what amateur radio had to offer. I discovered an old Hallicrafters HT-32 transmitter and SX-101 receiver in the barn of my neighbors house and he gave it to me for cutting his lawn.

After passing my exam, one evening I heard this huge signal calling "CQ test". It turned out to be Joe W2REH who lived right around the corner - in fact I had been fascinated for months gazing at his towers and monobanders while passing his house. He invited me over, and introduced me to contesting in the ARRL 10-meter contest. I had never really worked much DX, but that weekend I was amazed — working Europe and even a couple ZL's. I was instantly hooked. Joe ended up being my major inspiration and got me involved with the Frankford Radio Club. John K2ZS invited me to join a M/M effort at N2RM and I participated in several contests from N2RM in the early 90's.

In 1992, I joined the USCG and decided to go to Guam for my first tour. Although it was frustrating being unable to get on the air, I did join KD7P/NH2 during a WPX contest. During a second tour in Guam in 1998, I had a station and was quite active, making more than 36,000 contest QSO's. I was transferred to Florida later where I am now an active member of the Florida Contest Group. The FCG is probably the best group of guys I have ever met. They opened their doors for me and were a major supporter of my dream to participate at WRTC.



Jeff Steinman N5TJ

I am 38 years old, have been married for 14 years and have one daughter who is 7. I was first licensed in 1978 as N0AQK in St. Louis, Missouri. I quickly began chasing DX running low power and low dipoles, which meant almost all my activity was limited to CW. The first contest I can recall operating was the 1979 ARRL DX CW Contest in February. I can remember how fast the CW sounded. A few years ago I found that log - wow, talk about busted calls! I quickly met some of the Missouri hams that were contesters, including N0SS and K0VUW, as well as a local club, the Mississippi Valley DX and Contest Club.

In 1981 I read a small advertisement in QST saying "K4VX is moving to Missouri to build a contest station. Operators wanted". I pulled out some old contest results and quickly discovered that K4VX was a BIG GUN. That

Continues overleaf...

Continues overleaf...



Continues...

led to five years of guest operating at Lew's fantastic station. As I have said many times before, without Lew I would not be where I am today in the world of contesting. He taught me a lot about ham radio. And he also gave me the opportunity to operate many contests by myself, using a large station, so I could find my own way.

Dan Craig N6MJ



I am 21 years old and currently go to college. I got introduced to ham radio by my dad, brother and uncle who were all hams. My dad, W6TMD, has a very nice station and used to host many multi-ops. When I was 8 years old I decided to get my license. I had to share the station with my dad and brother, but I was able to win the Novice Roundup three years in a row. I didn't get into contesting right away. I concentrated on getting my USA-CA award. I learned a lot about contesting from the County Hunters net. My dad, brother and I would drive around activating counties. Every time we would enter a new county, we would have huge pileups. That is where I learned how to manage a pileup and how to keep the rate up.

When I was 14 years old I went to Field Day with my dad's radio club. Jan N6AW invited me to go out to the W6BA (now SK) multi-multi for both CQ WWs later that year and that is how I was introduced into big-time contesting. I have been doing CQ WW with Jan and the gang for the last seven years and I have learned a lot from them. I have had a lot of success in the last few years guest operating at N6ND, W6BA, KG6OK, K6RO and W6KP who have all been kind enough to open up their homes to me to let me operate.

Jim Neiger N6TJ



I'm 63 and my partner-in-crime N6AA hits 61 just before WRTC. I'm married to Marilyn with three daughters and two grandchildren. I'm an Aerospace Engineer, specializing in radars and missile/satellite tracking and testing. When not contesting, I'm probably on an airplane headed somewhere.

I was first licensed in Salem, Oregon as WN7WJB in 1954 and was first exposed to "contest" at the 1955 Field Day at W7SAA. From home, my first contest was the 1955 CQ WW PHONE (That's AM Phone, of course). Soon I met W7TML (now W7NI) at

Continues...

increase your score. I personally think that contesting is a great value to ham radio. A lot of the younger generation enjoys contesting the most out of anything that ham radio has to offer. I am involved with the World Wide Young Contesters club, and we have over 150 members. There is great enthusiasm about contesting within the club. A lot of the members go out on contest-expeditions. Lots of them only get on the air for contests.

Do you have a message to your fellow competitors as well as to those testers / hosts in Finland who are about to greet you?

K1TO: The effort in putting together a WRTC event is immense. First and foremost, I want to thank my Finnish hosts for undertaking this historic event. And if any families are opening their homes to us - thanks. It takes courage to welcome strangers from around the planet. This event is not primarily about the contest results to me. It is about the camaraderie and memories that will result! We will all cross the Finnish Line as winners.

N6TJ: Win or lose, WRTC2002 will be an experience not soon forgotten. One team will prevail with the highest score - but truly there will be no losers. Just being there and enjoying friends, and making new friends from all over the world will be more than enough. For our hosts and competitors, thanks for letting a couple of old-timers like Dick Norton and Jim Neiger crash the party. We'll try and keep our usual "low profile".

N2NL: I have 2 goals for WRTC. The first and probably the most important is to finally meet the faces behind the calls. I can't wait to finally meet all of you - It will be a real honor for me. After I have gotten to meet everyone, my second goal is to do my best in the WRTC competition. One of my favorite things in contesting is hearing a friend, and calling him to give a QSO and say "Hi". After WRTC I want to have a much longer list of people I can say "Hi" to.

N5TJ: I expect this WRTC to be a very exciting and fun event just as the past three have been. I appreciate the time and effort that each person from Finland must put in to make such a large effort a success. I expect that all the other competitors understand and appreciate our Finnish hosts for opening their country and homes to us WRTC participants.

N6MJ: My main goal for WRTC is to do my best in the competition. I will be well prepared, and will definitely give it my best shot. Even though Dave and I are probably the youngest team competing, we have a lot of skill and you can't count us out. I am also looking forward to meeting our competitors and hosts.

So there you have the observations and musings of three teams whose experiences in contesting span nearly fifty years. Isn't their enthusiasm contagious? N6TJ and N6AA started out before N6MJ and N2NL were even born, yet they are still potent forces on the air and are having a good time doing it, too. I hope that we all can continue to enjoy this sport of ours as much as Jeff and Dan, Jim and Dick, and Dan and Dave.

The Olympic Oath

At the start of each Olympics, every athlete promises to play fairly and obey all of the Olympic rules. One athlete from the host country takes this oath at the Opening Ceremonies on behalf of all athletes. The chosen athlete holds a corner of the Olympic Flag while repeating the oath:

"In the name of all competitors, I promise that we shall take part in these Olympic Games, respecting and abiding by the rules that govern them, in the true spirit of sportsmanship, for the glory of sport and the honor of our teams".

The oath was written by Baron de Coubertin, and became a part of our Modern Olympic Games in 1920. Olympic officials also have to take an oath. While holding a corner of the Olympic Flag, one official from the host country repeats a similar oath on behalf of all the officials.

college, and we started multi-op'ing from his parents' home near Portland. The big thrill was working KH6J on CW, and thinking, "hmm, wouldn't it be fun to be DX?" Later, I got an opportunity to be DX from the Greenland Ice-cap as KG1BA and KG1CC during the summer of 1961. Wow, this is neat! Propagation was rather like Finland, I fear.

After finishing graduate school in New York, I moved to Northern California in 1962,

and started contesting and DXing, in earnest, in the San Francisco Bay Area with an operating sojourn from Rush Drake's (then W7ESK, now W7RM) nice station in Bellevue, Washington. My job took me to the Marshall Islands in 1967, and I was able to put KX6DB on in the CQ WW CW Contest. I could only operate 3 bands, and 27 hours, but the score was good enough to break into the Top Ten. I remember wondering, "Hmmm, what could a 48-hour effort bring?"

Amateur Radio Clubs Going Strong as Part of Workplace Enjoyment

*Kalervo Korjus, OH2CX,
Chairman, NORA*



Well-being at work has become a key issue within the business community in Finland. Nokia Corporation has, in line with its staff physical fitness strategy, placed a major emphasis on the well-being of its employees. A good example of Nokia's exercise services and leisure activities is provided by the special-interest clubs functioning within the company.

Amateur Radio is recognized as an extremely important pursuit in our company; radio amateurs maintain direct contact, among other things, with educational institutions, domestic and global customers and authorities in the context of their hobby. And the company has always something to offer; we estimate that Nokia employs more than ten percent of the entire amateur radio population in Finland.

NORA (Nokia Radio Amateurs) is the oldest of seven Amateur Radio Clubs within Nokia Corporation with a rich history spanning thirty years: OH2AV/OH2V, NORA ry; OH8AV, Oyj Nokia Oulun Radioamatöörit ry; OH6AAH, Radiokerho Tenora ry; OH3AV, Nokia Radio Club, Tampere ry; NK5A, Radioklub Nokia, Dallas; OZ1NOK, Nokia Hamradio Club, Copenhagen; OH1N, Nokia Radio Club, Salo ry.

We are actively involved in virtually all sectors of Amateur Radio and have played a part in their further development over the years. Also in the global world of ours, Nokia employees have recently got together in Dallas, Texas and the callsign NK5A is on its way to the bands. The South China Sea DX Team (SCSDXT) has brought together Nokia employees in the Asia-Pacific region, not only for well-being and internal gatherings, but also to promote many segments of Amateur Radio in what are often rare countries where ham radio has not yet been established. Here, BY1DX, a Nokia sponsored club station in the Chinese capital, has served to bring the Chinese youth into this great activity of ours.

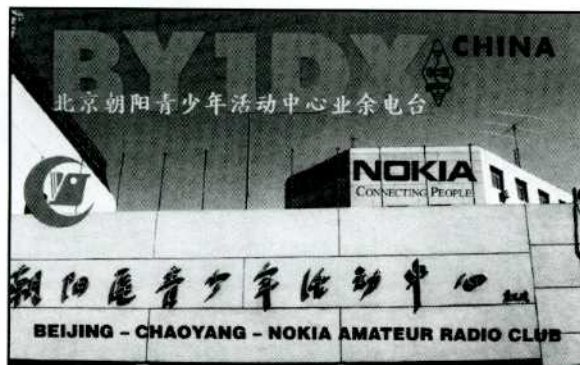
The Amateur Radio

stations of our Club undergo constant change to be able to respond to the challenges of the changing world and technology. The introduction of new technologies and new ideas is necessary for the continuity of Club activity, an activity which compensates for daily work and contributes to well-being and a sense of belonging at work.

One of the future goals of NORA is to develop further the Club's test site for trying out even the craziest ideas. With this project — which has brought us close to our goal — we hope to be able to provide a positive environment for Club members and other devotees interested in electronics to maintain and enhance their manual skills as well as the knowledge and skills accruing from the continuous development of technology.

NORA feels honored to be part of the WRTC 2002 organization. The possibility of being one of the sub-title sponsors and host stations in the organization gives us hope and faith that even in the years ahead, we will be able to play our part in the development of Amateur Radio. With the kilometers of cable that we were able to provide for WRTC stations, we hope to do our share in connecting the world together while our prime goal will continue to be the advancement of wireless telecommunications.

We wish good luck for the competitors and every success for the entire WRTC 2002 organization in their demanding mission and also thank many other supporters who have together with Nokia shown their willingness to make this great event a total success.



**Innovation by
Finnish Antenna
Ltd.
OH1JT & OH2HE**

WRTC Mast



When two 6-meter long tubes were to be lifted up without a risk involved, this construction proved handy. The inner tube is 60 mm and the outer 80 mm, so the wire can go up and down between them. This construction was well received among the 52 host stations.



Not only are the antennas look-alikes but so are the masts. The antennas and their heights are equal to the letter.

CQ WW DX Contest - Finnish Highlights

Ari Korhonen, OH1EH, International Publicity



Established in 1948, the CQ World Wide DX Contest has over the years gained status as the World Championship of Amateur Radio. Today, CQ WW attracts by far the largest number of participants, and more than 200 DXCC countries are represented in the contest. Some of the participating countries are put on the air by contest expeditions launched specifically for CQ WW. For a contest, CQ WW undoubtedly marks the contest season's absolute highlight.

The single operator all band (SOAB) category is the informal championship class of the race, with an SOAB win traditionally seen as the most highly valued achievement in contesting circles. In this category, Finns have done extremely well in the course of many years. What follows is a presentation of the top achievements of a number of OH operators and a discussion of the roots of Finnish contesting.

Where did it all begin in OH-land?

It was ten years from the beginning when the first OH operator scored a world high. Then a young man, Axel Tigerstedt, OH5NW did that in 1958 on 10-meter AM with a great score of 228,727 points. Not only did he score well but he was also featured on the cover of the local radio magazine, receiving his world trophy from the hands of the President of the League.

Many young amateurs with their eyeballs bulging watched all this. Let us keep in mind that the first contesting role model was born

in OH at that time. Axel also headed the Finnish Amateur Radio League (SRAL) for 17 years.

Martti OH2BH entered 1961 his first race at the age of 15 with his initial effort resulting in 19,240 points on 15M mono. Ville OH2MM entered the scene 1967 with an immediate number two in the Scandinavian Activity Contest.

Axel, OH5NW took it to the multi-multi level with a great history of those years at OH5SM. Then we saw the start of a bloody era of OH5SM running against OH2AM, with the two teams — old wisdom versus young energy — openly up in arms against each other. The OH2AM team can trace their roots back to Charles Weir, W3FYS/W6UA (SK) who on his many visits came to teach and guide the youngsters of the day on how to compete in the world arena right on the heels of then famous W3MSK.

While the local fights between OH2AM and OH5SM made history — almost unnoticed — they helped to capture two world multi-multi wins for OH2AM (in 1967 and 1968). Thus the groundwork was laid for many years to come. But Finns as they were, the two teams ultimately got together, and a final victory of those early years was gained jointly at OH5SM in 1969.

OHOW multi-multi was the hallmark of 1982 when seventy (70!) OH contesters assembled on their home turf to capture a world win in declining propagation conditions. Here the target was pure winning,

and thus using the advanced methods of VP2KC while following the rules soon to be changed. It was 60 degrees north contesting magic.

Many of the powerhouses of the current era emerged from those early, highly spirited times. Today's impressive OH2U can easily trace their spiritual roots to those other years.

OH2U — aka "Paksalo Philharmonics" has fought their way through blazing Aurora Borealis to three (3) European multi-multi wins on CW — 1997, 1999 and 2000 — and is currently holding the European multi-multi record. We all know that they will not leave the stage without one world win. QRX!

Below is a list of those heroes and those who served as role models for the Finnish contesting fraternity. They are all proud to be associated with WRTC2002, except one, Erkki, OH8RC who helped to promote WRTC 2002 as SRAL Contest Manager but who had to leave us just on the threshold of the actual event.

We pay tribute to Erkki while presenting some of the key all-round achievements of his beloved brotherhood:

Ville Hiilesmaa, OH2MM

Ville's results are unparalleled in the whole world. From an imposing list, your attention is drawn particularly to his five successive world wins as EA8EA. Here are Ville's thirty years:



Axel Tigerstedt OH5NW set the scene for contesting in OH-land in 1958. He is receiving his trophy here from the League President OH2ZH (sk).



The OH2AM gang was the superpower of multi-multis back in the 1960s. Standing from left: OH2BH, OH0XX, OH2BBR, OH2QV and OH2BS. In the middle OH2BQ. Seated: OH2SB (sk) OH2BC and OH2KH.

CQ WW Single Op All Band, CW

| | | |
|------|-------|--------------------|
| 1969 | OH5SE | EU record |
| 1972 | ZD3Z | World record |
| 1975 | EA8CR | 1st World |
| 1976 | C5AZ | 1st AF |
| 1985 | CN8ES | 1st AF |
| 1987 | FY5YE | World record |
| 1988 | FY5YE | World record |
| 1991 | EA8EA | World record |
| 1992 | EA8EA | 1st World |
| 1993 | EA8EA | 1st World |
| 1994 | EA8EA | 1st World |
| 1995 | EA8EA | 1st World |
| 1996 | PY0FF | 1st World/Assisted |
| 1997 | EA8EA | 1st AF |
| 1998 | EA8EA | 1st AF |
| 1999 | EA8EA | 1st AF |
| 2001 | EA8EA | 1st World/Claimed |

CQ WW Single Op All Band, SSB

| | | |
|------|-------|-----------|
| 1973 | ZD3Z | 1st World |
| 1978 | OH2MM | EU record |
| 1988 | OH0MM | EU record |
| 1991 | CR3A | 1st World |

Martti Laine, OH2BH

Martti is the only ham in the world to be inducted into both the CQ DX Hall of Fame and the CQ Contest Hall of Fame. Martti's DX achievements are legendary, but his Helsinki house is also adorned with the following CQ Contest plaques:

CQ WW Single Op, All Band CW

| | | |
|------|--------|--------------|
| 1973 | ZD3X, | World record |
| 1984 | CT1BCM | EU Record |
| 1995 | 9M8X | 1st Oceania |

CQ WW Single Op, All Band SSB

| | | |
|------|-------|----------------|
| 1974 | ZD3X | World record |
| 1988 | CT9BZ | World record |
| 1990 | CT3BH | World record |
| 2001 | CT7B | 1st EU/claimed |

Jorma Saloranta, OH2KI

Jorma is another contender of long standing who broke European records from year to

year, signing ZB2X from Gibraltar. He got a European win and a new record under his belt on SSB in 1986, 1987, 1989 (world 2.) and 1991.

In the CW portion, ZB2X set a new record in 1986, 1989 and 1993. Jorma has also made the Top Ten on CW several times, signing EL7U and P40I.

Pekka Kolehmainen, OH1RY

OH1RY knows the Pacific. In addition to several DXpeditions, Pekka has done well in CQ WW SSB. A few examples:

| | | |
|------|-------|--------|
| 1987 | T30RY | 1st OC |
| 1988 | YJ0RY | 1st OC |
| 1989 | YJ0R | 1st OC |
| 1990 | YJ1A | 1st OC |

In recent years, Pekka has been active in CQ WW SSB from Canary Islands, signing EA8AH:

| | | |
|------|-------|------------------|
| 1993 | EA8AH | 1st AF |
| 1994 | EA8AH | 1st AF |
| 1995 | EA8AH | 1st World |
| 2000 | EA8AH | 1st AF |
| 2001 | EA8AH | 1st AF (claimed) |

Juha Tuovinen, OH1JT

Highlights of Juha's single operator career include contest operations from Madeira and Aland Islands. From Madeira (CR3A) Juha won the world on CW in 1990 and Africa the following year. He was Europe's No. 1 on CW in 2000, signing OH0Z.

Olli Rissanen, OH0XX

Olli is a regular feature of CQ WW Top Ten listings. Callsigns used by Olli over the years include FY5YE, 8R1K and PZ5JR. His best achievement is No. 2 worldwide in CQ WW SSB in 1986 and best score CW and SSB combined that same year.

Erkki Korhonen, OH8RC (SK)

Erkki won the world in CQ WW CW from

Canary Islands (EA8CR) in 1979. He pounded the brass to win Europe earlier from the OH8OS mammoth station.

And, from the European front

Also winning Europe in CQ WW SSB have been Antti Kiviluoma, OH6JW (SK) in 1980 and Ari Korhonen, OH1EH signing OH0Z in 2000.

The success stories listed above represent just the tip of an iceberg. OH contesters have captured world championships in virtually every category of the race, exemplified by callsigns such as OH2AM, OH5SM, ZD3X, OD5IQ, OH0W, EA8AGD, EA8CR, PJ9A and many, many others.



Juha, OH1JT is not only a CQ WW winner but also one of the forces behind OH2U. Juha is a highly respected antenna designer - always ready for a dB discussion!



Flying Finns who travel to distant lands year after year to experience what is known as contesting exotica. Their air mile accounts are full of points - the more you travel, the more you get these points, they say! From left: OH2MM, OH0XX and OH2BH



OH2U is today's multi-multi powerhouse with many technical innovations and large antenna systems. From left: OH1JT, OH2IW, OH6EI, OH7BX, OH2JTE, OH7JR, OH6DD, OH2FT, OH5JOC, OH2XX, OH2JQS and OH2HE. Behind the camera OH8KXK.



A List of Amateur Radio Related Individual & Corporate Supporters

Thanks to those who made WRTC2002 Possible!

When the initial WRTC2002 budget was outlined, this world of ours looked quite different from today's. The economic picture had changed dramatically from the days when it was agreed that WRTC2002 was to be held in Finland.

Also, the unfortunate events of September 11 made all of us look at things in a different light. Those fun issues that were once at the top of our agenda were suddenly not there. These developments

were expected to affect the financial outlook for WRTC2002.

But the spirit of WRTC2002 was such that the mission was carried through with the greatest of dedication and those who were committed to making WRTC2002 happen pulled together even more so and did what someone had thought impossible. All those fine corporations and individuals responded favorably. We have WRTC2002 in Finland with no compromise solutions —

it's full-steam ahead. The WRTC flag will fly high!

We would like to thank each and every supporter — large and small — for participating in this mission. We want to thank sincerely those eminent corporations who saw Amateur Radio as more than just another hobby among a host of others, and put their trust in us with their funding.

And finally, WRTC2002 as a whole and I personally would like to thank Rusty, W6OAT, Bruce, W6OSP, Jeff, K1ZM, Bob, K4UEE, Steve, K6AW, Dennis, K7BV and Wayne, N7NG for not only managing the fund raising effort but also giving us faith at all times when we were doing WRTC 2002 together with our supporters for a good cause.

Thank you kindly,
Matti Laine, OH2BH

Major amateur radio related supporters (5000USD and more):

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W9VA William B. Smith • WC4E Jeffrey D. Bolda • 9V1YC James Brooks

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Alinco/ATOC Technologies, LLC • GOMTN Lee Volante • K1DG Douglas Grant • K1KI Tom Frenaye • K1ZM Jeffrey T. Briggs • K3LR Timothy J. Duffy • K3TUP John Kanzius • K4UEE Robert C. Allphin, Jr. • K6LL David O. Hachadorian • K7BV Dennis R. Matschenbacher • N2IC Steven M. London • N2NC John R. Golomb, Jr. • N3BB James K. George • N3HXQ William E. Himwich • N5TJ Jeffrey S. Steinman • N6AA Richard J. Norton • N6RT Douglas Brandon • N6XI Rick Tavan • N9RV Patrick M. Barkey • NCCC Northern California Contest Club • PVRC Potomac Valley RC, Inc • The Redwood Empire DX Association • SECC South East Contest Club • VE3EJ John Sluymmer • WX0B Array Solutions • YCCC, FRC, PVRC

Copper level (100 USD and more):

AE9YL Vicky Luetzelschwab • AJ6V Edward J. Radlo • BCC - Contest Dinner, HamRadio 2001 • Comtek Systems • Grand Mesa Contesters of Colorado • International Radio Inc. • JA1RU Kazuo Ogasawara • JH1ARJ Massey M. Inami • K1AR John H. Dorr • K1EA Ken Wolff • K1HT David C. Hoaglin • K3DI Richard L. Wilder • K3MM Tyler G. Stewart • K4MA James V. Stevens • K5AB Alan Brown • K5KA Ken Adams • K5OT

Lawrence W. Hammel • K5PI G. Robert Brandon • K5TSQ Ken Quin • K5ZD Randall A. Thompson • K6KO & K6TA Kay & Ken Anderson • K8NZ Ronald Harps • K9DX John W. Battin • K9GX Mark S. Williams • K9LA Carl Luetzelschwab • K9ZO Ralph A. Bellas, Jr. • KE6ZSN John T. Tagliaferri • KL7JM Jim Movius • KM3T David H. Pascoe • KQ2M Robert Shohet • KO4RR Joe Owen • KR1G Ted Demopoulos • Lake Cty. ARA • N2GA & K2DO George Tranos & Diane Ortiz • N2NT Andrew Blank • N4GN Timothy B. Totten • N4KE Ron Blake • N5MT Mike Davidson • N5NJ Robert E. Naumann • N5RZ Ralph Bowen • N6BV R. Dean Straw • N6TJ James B. Neiger • N7NG Wayne A. Mills • N9TK Jim Mornar • Order of Boiled Owls • P43P Jacobo F. Oduber • RZ3AA Roman Thomas • Top Ten Devices, Inc • UA6HZ/N2WW Valeriy Agabekov • VE3MR Martin Rosenthal • VE3RM Don R. Dashney • VE7VR Dave Johnson • W0GJ Glenn Johnson • W1FJ Alfred C. Rousseau • W1WFZ Fred T. Perry • W3SM Stephen E. Moynihan • W3WL Wes Lamboley • W4MYA Bob Morris • W6UJ Tommy Farr • W6ISQ John G. Troster • W7WA Dan S. Handa • W9CEO Maurice L. Schietecatte • W9WU James C. O'Connell • WB9Z Jerry Rosalius • WF2B Harry Hovey • YT1AD Hranislav Milosevic

WRTC2002 Booster: AA4NN AA5NT AA7A AA7PM AG9A CS3MAD CT3EE CT3IA DF3KV DF4RD DJ2YA DJ6QT DK3GI DL8OH DL8WPX EA4TX EI2BB G3BJ G3XTT HB9CRV I7PHH IN3QBR IT9WPO JH1NBN JF1SQC JK3GAD JR3RVO K1CC K1GG K1IR K1KU K1LOM K1VR K1ZZ KA1ZD K2UA K2WR K3MD K3NM K3NZ K4MA K4OJ K4RF K4RX K4VW K5DU K5NY K5OT K5RH K5UIC K5YA K5ZD K6GNX K6MD K6NDV K7BTW K7GEX K7LET K7NPN K7RI K7UQT K8CX K8CX K9GM K9SD K9VV K87HDX KC7V KD5JDV KD7NXS KD8JN KG7DK KI7Y KO4D KR7X LU6ETB NOAX N2FF N2LA N2NL N2SR N2XMA N3BB N3ED N3HXO N3RD N3RS N4CFL N4CFL N4KE N4OO N4ZR N5CK N5GO N5PA N5YA N5ZM N6BV N6DE N6HB N6IG N6RT N7BV N7FL N7LSL N7MQ N7NU N7OU N7UX N7VS N7WA N8BJQ NB1B NF4A NH7A NI6T NO7F NT1N NT5C NU4Y NW7DX NY7T NZ3O OE2GEN OE2VEL OH2RF OH4XX OH7KD P43E P43JB SM5AQD SM5DJZ SM5IMO TG9AJR W0RT W1WEF W2OX W2SC W2TOC W2VJN W3AZD W3BGN W3FV W3UR W3ZL W3ZZ V47KP W4AA W4DR W4DR W4HJ W5ASP W5WP W5WP W5XD W6SZ(?) W7BYK W7EKM W7GTO W7JEN W7JJ W7KCZ W7KNT W7MCU W7NG W7OT W7QGP W7QMU W7QN W7TSQ W7UG W7VW W9CP W9RE WA1SMI WA2S WA3SES WC7N WD5DXL VE3ZI VE6JTM VE6JY VE6NAP VE6POL VE6SV VE7AGG VE7CFD VE7CT VE7IN VE7SV WJ7R VK2APG VK2FHN WK4Y WM5R WM7R WQ5N WZ8P

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Avoiding Any Major Cultural Shock and Severe Death

Martti Laine, OH2BH

This may happen already at Helsinki Airport upon your arrival. Someone, serious as they are, may come to you and say bluntly "welcome" and start taking your trousers off. Shocking, isn't it...so you better be prepared!

It all started more than 2000 years ago when sauna entered Finland, well before those tall rotating towers, and Finns went for it wholeheartedly and never got out of it. They were born in sauna and they died in sauna, meaning that they died somewhere but were taken to sauna to be prepared for their final journey clean and neat. In short, there was nothing more important than this magic steam room. And that is still true.

There are now 1.6 million saunas for 5 million people. There is nothing better for Finns than getting their guests into it! Why not reciprocate and go for an adventure - most people would indeed love it.

So today, listen carefully. Sauna is a part of Finnish culture, it is a way of life in Finland and it is the way Finns show hospitality. Turning them down is almost as bad as drinking Coke at a French dinner table.

But let's get prepared. You will enjoy striptease in a big way. And then you will be whisked off to a temperature at which water begins to boil. But that is not enough. They start throwing water over red-hot stones and you will be pushed to the doorsteps of hell when it comes to the temperature and your survival. You are not expected to rush out or

call first aid. You are simply expected to stay on and ENJOY. And even get more of it. Then you ask how long. The longer, the better. If you are the last one to go out, you almost gain Finnish nationality and a 2x1 call signed on the spot...

Sometimes you will get a "show-off" in the sauna when they throw water on the stove to generate enough steam to cook a potato. And suddenly the Finns start beating themselves with birch twigs to enhance the cleaning effect by opening up the pores and to give themselves a fresh aroma. If you find a totally dead sausage somewhere on the fiery stones, it is all yours. A simple rule of thumb is that if your skin begins to peel off and you look like a baked potato, then it is enough and you can try to escape if you still can. Escape and head north, if you have a choice!

Most important business deals are sealed in the sauna. When you drive by Nokia Corporate Headquarters near the WRTC HQ, be aware that all the top floors are not filled with executive offices but saunas. So, making true friends,

socializing with them or doing business assumes that you share the cultural basis of this great country and survive!

It is Finland. Why don't you ask a Finn whether you can have sauna with him? Artists go to sauna for inspiration. WRTC folks should, too. It cannot get any better for you and your host.



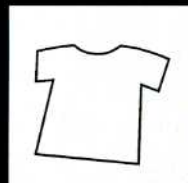
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WRTC 2002

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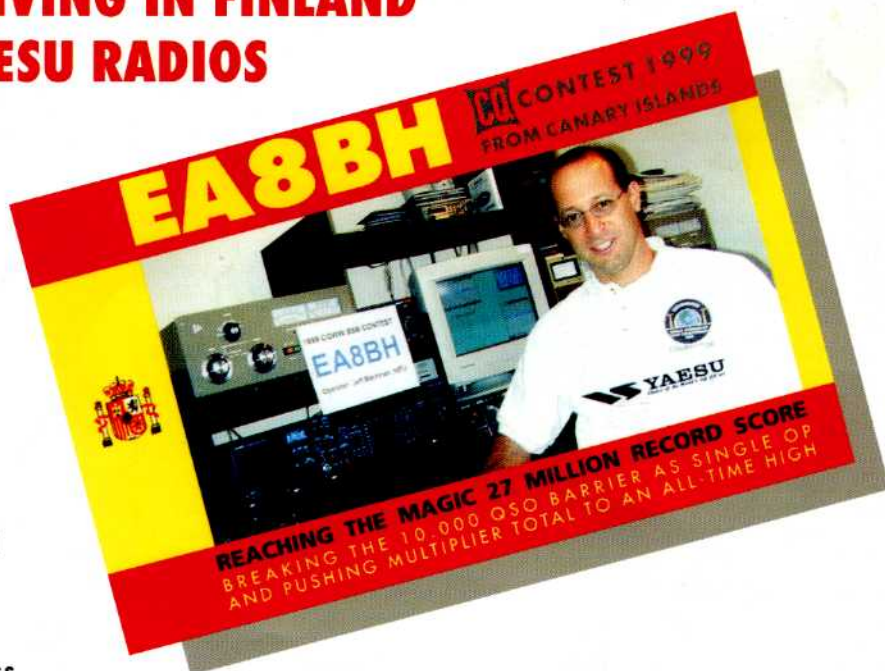
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