

**Final Call and Call For Papers**

# XXX International Congress on Electrophysiology

11-14 June 2003, Helsinki, Finland

## Midnight Sun Symposium

15-17 June 2003, Saariselkä, Lapland, Finland

[www.ice2003.net](http://www.ice2003.net)

**XXX International Congress  
on Electrocardiology**  
11-14 June, Helsinki, Finland

**Midnight Sun Symposium**  
15-17 June, Saariselkä, Lapland, Finland

**Organizers**


 Ragnar Granit Foundation

 Ragnar Granit Institute

 Finnish Cardiac Society

 Finnish Society for Medical Physics and Medical Engineering

Ministry of Social Affairs and Health

 International Society for Bioelectromagnetism

Under the auspices of International Society of Electrocardiology

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Jaakko Malmivuo (Finland)

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## WELCOME

Electrocardiography was developed as a clinical tool about one hundred years ago. Since that time the ECG has been the first and most important method for diagnosing cardiac diseases and for monitoring status of the patient.

The development of computers made it possible to create automatic diagnostic programs and considerably decrease the work needed for cardiac diagnosis. Computer models of the cardiac electric field and the development of the theory of bioelectromagnetism increase our possibilities to understand the activation sequence and its measurement process in more detail. One new area is the detection of the magnetic field induced by the cardiac electric sources. The new implantable cardiac pacemakers and defibrillators include intelligent sensors and versatile programs to control the operation of the heart. Despite the simple basic principle of the ECG and its hundred year old history, this important field of science is continuously strongly developing and improving.

The congress venue in Helsinki is in the heart of the monumental center of the city. In June the days are sunny and warm and the nights are light in Finland. You will certainly enjoy the beauty of the Empire style architecture of the White City of the North.

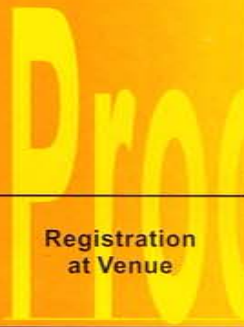
Following the congress there is the Midnight Sun Symposium in Lapland. The Symposium focuses on the abnormal cardiac repolarization and how to ablate paroxysmal atrial fibrillation. This would be a unique opportunity for you to follow a scientific lecture at midnight in full sunshine!

I wish you all welcome to Finland and I hope that you enjoy your stay here!

Jaakko Malmivuo  
Congress President

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Wednesday June 11		Thursday June 12	Friday June 13	Saturday June 14
	8:30	Plenary lecture	Plenary lecture	Plenary lecture
	9:15	Posters Coffee and exhibition	Posters Coffee and exhibition	Posters Coffee and exhibition
	10:15	Parallel sessions	Parallel sessions	Parallel sessions
	12:00	Lunch	Lunch	Lunch
	13:30	Parallel sessions	Parallel sessions	Parallel sessions
	15:15	Posters Coffee and exhibition	Posters Coffee and exhibition	Posters Coffee and exhibition
Registration at Venue	15:45	Parallel sessions	Parallel sessions	Parallel sessions
Opening Ceremony, Ragnar Granit Lecture and Get-together at the University of Helsinki	17:30			
	18:00	Concert in Tempeliaukio Church	Free Evening	Banquet at Restaurant Sipuli

Ragnar Granit and Pierre Rijnant Lectures will be given.

Changes in the program and sessions are possible. Please follow the Congress web page.

### Presentations

**ORAL PRESENTATIONS** will be 10 min, with an additional 5 min for discussion. A computer with data projector and slide projector will be available in each lecture hall.

**POSTER SESSIONS** are scheduled during the coffee breaks (coffee is served in the Poster hall). Posters will be displayed for one full day.

The scientific committee will make the final decision as to which of the proposed papers will be presented as orals or as posters.

### Tentative List of Organized Sessions

Holter Recordings	- Luigi De Ambroggi
Evidence-Based ECG	- Ljuba Bacharova
Cardiovascular Variability Signals	- Sergio Cerutti
Modelling Cardiac Electric Fields	- Olaf Dössel
Ion Channel Remodeling in Cardiac Arrhythmias	- Bulent Görenek Masayasu Hiraoka
Body Surface ECG Mapping	- Milan Horacek
Noninvasive Risk Markers of Sudden Cardiac Death	- Heikki Huikuri
Dynamic Modelling of the Human Body	- Jari Hyttinen
QT Analysis	- Paul Kligfield
Pediatric ECG	- Jerome Liebman
Digital ECG Databases	- Suave Lobodzinski
History of ISE	- Peter Macfarlane
ECG Monitoring and Interpretation During Anesthesia	- Robert MacLeod
Magnetocardiography	- Jaakko Malmivuo
Impedance Cardiography	- Mart Min
ECG in the Emergency Room, CCU and Catheterization Laboratory	- Kjell Nikus
Inverse Problem in ECG	- Adriaan van Oosterom
Lead Systems for Continuous ECG Monitoring	- Olle Pahlm
Theoretical Aspects of ECG	- Robert Plonsey
LVH Classification	- Pentti Rautaharju
Ventricular Repolarization	- Yoram Rudy
Electrophysiology of Acute Myocardial Ischemia and Infarction	- Galen Wagner John E. Madias
Recovery Phase in Exercise ECG Test	- Jari Viik Rami Lehtinen
Joint ISE/ISHNE Session	- Wojciech Zareba

### Main Topics

Basic Electrophysiology  
Cardiac Arrhythmias and Pacing  
Clinical ECG and VCG  
Computer Assisted ECG  
ECG During Anesthesia  
ECG Recording by Implanted Devices  
Evidence-Based ECG  
Exercise ECG  
Heart Rate Variability  
Holter Monitoring  
Impedance Cardiography  
Instrumentation  
Inverse Problem  
Magnetocardiography  
Modelling of Cardiac Electrical Activity  
Potential Mapping  
Signal Processing and Analysis  
Signal-Averaged ECG  
Tele-ECG

### Kenichi Harumi Young Investigator's Award

The annual Kenichi Harumi Young Investigator's Award will be given to three papers of highest scientific value and best presentation quality. The award is donated by Siemens Medical Systems (USA). The first prize is \$500. A second prize of \$300 and a third prize of \$200 are also awarded.

Registrants below 40 years of age are entitled to participate in the Young Investigators' Competition. Investigators must be the lead author in their paper, and present their paper in person. All the YIC papers will be presented orally.

### Instructions for Submission of Papers

XXX ICE requires an electronic submission of papers. All details pertaining to the submission of papers can be found at [www.ice2003.net](http://www.ice2003.net). Paper length max. 2 pages.

Papers with related information must be submitted by **using the web form and by following the instructions**. When sending papers by e-mail an attached file should be in **Microsoft Word or Rich Text (RTF) format**. It is recommended that the authors use the Paper Template File for Word or RTF provided in the web page. If you are participating in the Young Investigators' Competition, you must indicate clearly this in the body of your e-mail.

**Deadline** for submission of formatted papers via e-mail is March 1, 2003. Papers will be peer reviewed by the Scientific Committee. Acceptance of the papers will be notified via e-mail no later than March 31, 2003.

All accepted papers will be **published in the Special Issue of the *International Journal of Bioelectromagnetism*** ([www.tut.fi/ijbem](http://www.tut.fi/ijbem)). At least one of the authors must register and pay for the Congress no later than April 18, 2003, otherwise the paper will be removed from the Program and the Journal.

### How to Register

Congress and symposium registrations must be done on the separate forms in the congress web page.

### Payment

Registration fees can be paid by:

- Bank/wire transfer to the account of the Ragnar Granit Foundation: Nordea Bank, swift-address FI37 1146 3001 0168 79.
- Visa, Eurocard or MasterCard.

Please note that there are separate fees for the Congress and the Midnight Sun Symposium.

### Registration Fees for ICE2003

	Before April 18	After April 18, 2003
ISE Member	€600	€650
Non-Member	€625	€675
Student (under 30 year)*	€350	€400
One-day Fee**	€250	€250
Accompanying Person	€270	€270

\* The student's fee is applicable to those born after January 1, 1973. A photocopy of your passport should be send with the registration form to the secretariat.

\*\* One-day fee does not include the social program.

### Registration Fee Includes

#### Participants

- Participation in all scientific sessions
- Congress Proceedings and Congress Program
- Admission to the exhibition
- Coffee/tea and refreshment during breaks
- Opening ceremony
- Get-together event
- Concert in Tempeliaukio Church
- Banquet

#### Accompanying Persons

- Opening ceremony
- Get-together event
- Concert in Tempeliaukio Church
- Guided tour to Suomenlinna fortress
- Half day tour to Hvitträsk museum of architects Saarinen, Gesellius and Lindgren
- Banquet



**Language**

The official language of the Congress and the Midnight Sun Symposium is English.

**Badges**

All registrant will be issued badges, which must be worn to gain admission to the scientific sessions and social functions.

**Certificates**

Participants will receive a Certificate of Attendance at the venues.

**Visas**

Citizens of most countries do not require visa to enter Finland for short-term stay. For details, please contact the Finnish Embassy or Consulate General nearest to your residency, or visit <http://formin.finland.fi/english/>.

**Letter of Invitation**

On request, the Congress Secretariat will provide Letter of Invitation to facilitate participant's travel and visa arrangement. An invitation does not imply any commitment on the part of organizer to provide any financial support.

**Exhibition**

A technical and product exhibition will be arranged during the Congress and the Symposium. For further information please contact the Organizing Committee.

**Currency**

The currency of Finland is Euro (EUR) which divides into 100 cents.

**Venue**

The Scientific Sessions will be held at the House of the Estates in the monumental center of Helsinki. Address: Snellmaninkatu 9-11, 00170 Helsinki.

This dignified Neo-Renaissance building serves mainly as a venue for meetings and official functions held by the Prime Minister's Office and other offices of the central government.

**Cancellation**

Cancellation of participation must be notified in writing. Cancellations received by the Congress Secretariat before May 1, 2003 will be refunded after deducting €30 for administrative charges.

No refunds will be made after May 1, 2003.

### City of Helsinki

Helsinki, called the Daughter of the Baltic and the White City of the North, has beautiful sea and landscapes. You will also enjoy the Empire style architecture of the monumental city center built in the 1800's.

The good quality of life in Helsinki is based on the closeness to nature, the clean environment, the excellent technical infrastructure and the respect given to traditional cultural values. The Helsinki area displays many unique architectural and natural sights.

More Information: Helsinki City Tourist & Convention Bureau,  
Pohjoisesplanadi 19, FIN-00100 Helsinki.  
Tel. +358 (0)9 169 3757, Fax. +358 (0)9 169 3839  
[www.hel.fi/tourism/](http://www.hel.fi/tourism/)



### Helsinki in June

Helsinki is a very active city which hosts numerous cultural and sporting festivals each year. Museums, theaters and other institutions offer special summer exhibitions and shows.

In June the days are usually warm. Temperatures range from 15 to 25°C. Nights may be cool.

## Travel

### HELSINKI

International flights arrive at Helsinki-Vantaa airport. From the airport the city of Helsinki can be reached by coach or taxi.

There are frequent boat connections to Helsinki from cities around the Baltic Sea.

### SAARISELKÄ, LAPLAND

Saariselkä, can be reached by flight or train.

There is only one daily flight available to and from Saariselkä (Ivalo Airport). Please reserve flights in good time. Flight time is 1.5 hours

Departure from Helsinki to Ivalo: June 15, Finnair flight AY 473, Airbus 320, 10.40 am.

Departure from Ivalo to Helsinki: June 17, Finnair flight AY 473, Airbus 320, 12.45 pm.

The night train from Helsinki to Rovaniemi or Kemijärvi will leave on Saturday evening.

The distance from Rovaniemi to the Symposium venue by coach is 260 km and from Kemijärvi 240 km.



## Accommodation

You can make a hotel reservation for the following hotels with reduced congress and symposium prices. The prices apply providing that you contact the hotel directly.

Due to the high season in tourism the hotels can only provide rooms with the congress and the symposium indication until April 18, 2003. Kindly make the hotel reservation in advance.

### HELSINKI

Use the indication "ICE2003" when making your reservation.

The distance to the congress venue (D) is given for each hotel.

#### Category 1, single room prices €100+/night

Scandic Hotel Grand Marina D: 500m  
www.marinacongresscenter.com Tel. +358 (0)9 16 661

Sokos Hotel Helsinki D: 500m  
www.sokoshotels.fi Tel. +358 (0)2 01234 600

Sokos Hotel Pasila D: 5km, 15 min by tram  
www.sokoshotels.fi Tel. +358 (0)2 01234 600

LordHotel D: 2km  
www.lordhotel.fi Tel. +358 (0)9 615 815

#### Category 2, single room prices €50-100/night

Hotel Arthur D: 300m  
www.hotelarthur.fi Tel. +358 (0)9 173 441

Hotel Helka D: 2km  
www.helka.fi Tel. +358 (0)9 613 580

#### Category 3, single room prices less than €50/night

Hostel The Congress Home D: 100m  
Tel. +358 (0)9 1356 839

Eurohostel D: 1km  
www.eurohostel.fi Tel. +358 (0)9 62204 737

### SAARISELKÄ

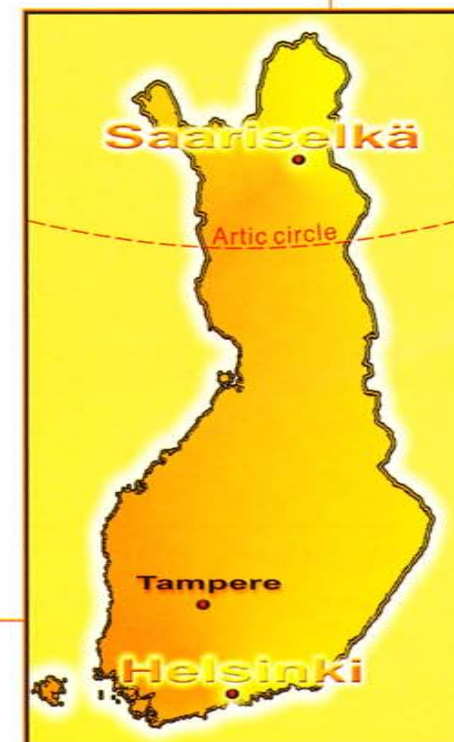
Use the indication "Midnight Sun Symposium" when making your reservation.

All hotels are next to each other.

Saariselkä Tunturihotel (Congress venue)  
www.saariselantunturihotelli.fi/mss  
Tel. +358 (0)16 681 501

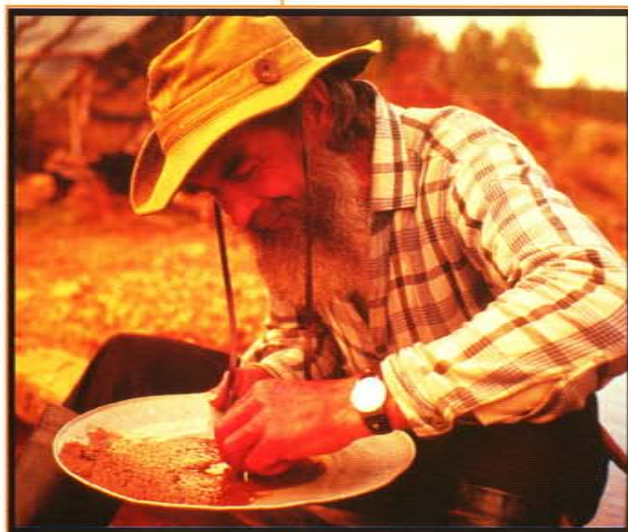
Hotel Riekkonlinna  
www.riekkoparvi.fi  
Tel. +358 (0)16 679 4400

Holiday Club Saariselkä  
www.holidayclub.fi  
Tel. +358 (0)16 682 332



### Welcome to Saariselkä

Update in cardiac electrophysiology in 2003 will be held in Saariselkä, Lapland, 250 km north of the Arctic Circle. The symposium focuses on two hot topics: "How to document the abnormality in cardiac repolarization" and "How to ablate paroxysmal atrial fibrillation".



### Weather

Average day and night temperatures are +17°C and +7°C. Summer in Lapland is full of light and energy. Under the Midnight Sun the days follow one another without interruption.

## Symposium Program

### June 15, 2003

Transportation from the airport

Opening remarks. President of Finnish Cardiac Society  
*Dr. Markku Mäkijärvi, Helsinki, Finland*

#### General Overview of the Topics

Chairmen: Dr. Pekka Raatikainen and Dr. Mario Gonzalez

The impact of atrial fibrillation on mortality, morbidity and health care costs.

*Dr. Lauri Toivonen, Helsinki, Finland*

Epidemiology and prediction of sudden arrhythmic death.

*Dr. Heikki Huikuri, Oulu, Finland*

#### Midnight Sun Dinner and Honorary Lecture

100 year-old ECG: Changing concepts on measurement and interpretation of cardiac repolarization.

*Dr. Michael Franz, Washington, USA*

### June 16, 2003

#### How to Ablate Paroxysmal Atrial Fibrillation?

Chairmen: Dr. Markku Mäkijärvi and Dr. Carlo Pappone

Catheter ablation of atrial fibrillation. US experience.

*Dr. Mario Gonzalez, Gainesville, USA*

Catheter ablation of atrial fibrillation. Electroanatomic approach.

*Dr. Carlo Pappone, Milan, Italy*

Coffee and Exhibition

Surgical ablation of atrial fibrillation.

*Dr. Hans Kottkamp, Leibzig, Germany*

Ablation of atrial fibrillation in "a low volume center".

*Dr. Pekka Raatikainen, Oulu, Finland*

Lunch and Exhibition

*continued*

### June 16, 2003

*continued*

#### Detection of Abnormalities in Cardiac Repolarization

Chairmen: Dr. Heikki Huikuri and Dr. Michael Franz

Genesis and quantitative analysis of T-wave. An overview.  
*Dr. Michael Franz, Washington, USA*

T-wave morphology. Analysis methods and prognostic significance.

*Dr. Marek Malik, London, UK*

Coffee and Exhibition

T-wave alternans. Concepts on the genesis of TWA and clinical applications of TWA measurement.

*Dr. Stefan Hohnloser, Frankfurt, Germany*

QT-interval dynamics. Analysis methods and potential clinical applications.

*Dr. Matti Viitasalo, Helsinki, Finland*

Visit to the Siida Museum

### June 17, 2003

#### Critical Appraisal on New Diagnostic and Therapeutic Methods

Chairmen: Dr. Pekka Raatikainen and Dr. Markku Mäkijärvi

Biases of the methods and studies assessing the risk for sudden arrhythmic death.

*Introduction: Dr. Heikki Huikuri*

*Comments: Dr. Michael Franz, Dr. Stefan Hohnloser, Dr. Marek Malik.*

Impact of the methods used for ablation, patient selection and volume of the center on the results of ablation of atrial fibrillation.

*Introduction: Dr. Lauri Toivonen.*

*Comments: Dr. Pappone, Dr. Gonzales, Dr. Kottkamp.*

Closing remarks.

*Dr. Markku Mäkijärvi*

Transportation to the airport

## Registration Fees

Before April 18 After April 18, 2003

Participant	€300	€350
Accompanying Person	€200	€200

Cancellation policy as with the main Congress.

## Registration Fee Includes

### Participants

- Participation in all scientific sessions
- Symposium Proceedings and Symposium Program
- Coffee/tea and refreshment during breaks
- Midnight Sun Dinner in Restaurant Huippu on the top of Kaunispää fjeld on Sunday
- Visit to the Siida Museum on Monday
- Coach transportation

### Accompanying Persons

- Guided Goldpanning and lunch
- Midnight Sun Dinner in Restaurant Huippu on the top of Kaunispää fjeld on Sunday
- Social program on Sunday
- Visit to the Siida Museum on Monday
- Coach transportation



## PowerPoint Posters

The registered participants may submit a paper for poster presentation. Please follow the Instructions for Submission of Papers on page 5.

Posters are presented with a computer, which is provided by the organizer, when needed. Posters must be in PowerPoint format. Posters will be viewed during coffee breaks.

When sending a paper, it should be marked as a poster for Midnight Sun Symposium.

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**IMPORTANT DATES**

Paper submission deadline	March 1, 2003
Paper acceptance notification	March 31, 2003
Early registration deadline	April 18, 2003
Hotel reservation deadline	April 18, 2003
XXX International Congress on Electrophysiology	June 11-14, 2003
Midnight Sun Symposium	June 15-17, 2003

**CONGRESS SECRETARIAT**

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