

**XXIXth International Congress on Electrocardiology  
43rd International Symposium on Vectorcardiography  
and  
4th International Conference on Bioelectromagnetism**

**2-5 July 2002, Montreal, Canada**

Conference Description

The International Society on Electrocardiology and the International Society for Bioelectromagnetism will be holding a joint concurrent Conference for the year 2002. This is the first time that these two Societies have decided to combine their Conferences, and the joint Conference represents a unique opportunity to foster greater collaborative links between members of the two Societies. There is a large area of scientific overlap in the methodologies and techniques used in quantitative cardiology and neurology, and researchers in one field can benefit immensely from work done in the other field. Furthermore, the membership of both Societies will nearly double the participation in the joint meeting, so that instead of expecting the 200 attendees for a single meeting, we hope to attract nearly 350.

Two proposed Tracks are planned (see Scientific Program below), one on Electrocardiology and the other on Neurophysiology. Several major themes exist within these two Tracks so as to adequately cover the field. Delegates will be free to attend presentations in both Tracks. Two platform sessions will run in parallel at all times, one in each Track. Each session will focus on a particular theme. It will start with a 30 minute talk covering the current state-of-the-art, as well as future perspectives. This invited talk will be given by a reputed authority in the field, carefully selected by the Conference Organizing Committee. The remainder of each session consists of four regular 15-minute presentations selected from the at-large submissions. Since 18 platform sessions are planned, this calls for 18 invited speakers plus 72 regular presentations. The balance of the selected at-large submissions will be placed in two poster sessions. Two Young Investigators' Competitions are planned, one in the Electrocardiology Track and the other in Neurophysiology. There will also be a prize for the best poster. Finally, the International Society on Electrocardiology sponsors a Rijnlant Lecture and the International Society for Bioelectromagnetism a Ragnar Granit Lecture, and these Lectures will be given at the start of the joint Conference.

The Conference dates are from July 2-5, 2002 and will partially overlap with the Montréal International Jazz Festival, to be held in 2002 between June 26 and July 7. We hope that this overlap, together with the July 4 Independence day holiday in the U.S. and the July 1 Canada Day holiday will entice additional participation, especially since an Accompanying Persons program is also planned. The Hilton Bonaventure hotel in downtown Montréal has been selected as the Conference venue, and is within walking distance of the Jazz Festival site. The city becomes transformed to New Orleans North during the Jazz Festival, and delegates will enjoy wandering the downtown streets listening to the music (most of which is free) that starts up every afternoon and lasts well into the night. Other popular local attractions are the La Ronde theme park, the Casino de Montréal, and the International Fireworks competition held every summer.

Montréal is one of North America's safest and most cosmopolitan cities, with its undeniably European atmosphere. Daytime temperatures during early July range from 19 to 27 degrees Celsius (66 to 81 degrees Fahrenheit).

As already mentioned, the number of attendees (not including Accompanying Persons) is expected to reach a high of 350. Reduced registration fees for students are planned, with budget rooms being made available at the nearby McGill University student residences. Social functions included with registration are an Opening Reception, a summer concert given by the Orchestre Symphonique de Montréal in Old Montréal's beautiful Notre-Dame Cathedral, and a Closing Banquet held aboard a cruise boat on the Saint-Lawrence river. Funding has been sought from Canadian and U.S. corporations and foundations, as well as federal and provincial government agencies. This funding will be used to defray the expenses of the invited speakers and to sponsor the coffee breaks and buffet lunches. A limited number of Exhibitors' booths will also be available for rent.

The Joint Conference is managed by a Professional Conference Organizer (Coplanor Congrès Inc.) under the supervision of the Conference Organizing Committee (listed below). A Web Site ([www.heartandbrain.org](http://www.heartandbrain.org)) has been set up from which Conference information as well as forms for paper submission, registration and hotel reservations can be downloaded. Conference mailing costs are thus to be kept to a minimum, and are restricted to the First Announcement, a Call for Papers, and Posters that advertise the Conference and the web site. Papers are restricted to two pages (four pages for invited speakers), and the entire Proceedings will be made available at Conference registration.

### Conference Organizing Committee

Co-chairs: Réginald A. Nadeau, M.D.  
Hôpital du Sacré-Coeur de Montréal, Université de Montréal

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L. Joshua Leon, Ph.D.  
Dept. of Electrical & Computer Engineering, University of Calgary

Denis Roy, M.D.  
Institut de cardiologie de Montréal

## Scientific Program

### Electrocardiology Track:

Session	Invited Lecturer
Rijlant Lecturer	Prof. H.J. Wellens, Maastricht University, The Netherlands <i>Arrhythmology: Lessons from the past, promises for tomorrow</i>
Cardiac Electrophysiology	Charles Antzelevitch, Masonic Medical Research Laboratory, Utica, NY, U.S.A. <i>Electrical Heterogeneity in the Heart</i>
Cardiac Modeling	Peter Hunter, Auckland University, Auckland, New Zealand <i>Computer Heart Models</i>
Body Surface and Cardiac Mapping	Bruno Taccardi, University of Utah, Salt Lake City, Utah, U.S.A. <i>Body Surface and Epicardial Mapping</i>
Clinical ECG and VCG	Mikael Dellborg, Göteborg University, Sweden <i>ST-Monitoring in Acute Coronary Syndromes</i>
Tachycardia and Fibrillation	Michel Haïssaguerre, Centre Hospitalier de Bordeaux, France <i>Catheter Ablation of Atrial Fibrillation</i>
Pacing and Defibrillation	Rahul Mehra, Senior Fellow, Medtronic Inc., Minneapolis, MN, U.S.A. <i>Cardiac Pacing and Defibrillation</i>
ECG Inverse Problems and Signal Processing	Yoram Rudy, Case Western Reserve University, Cleveland, OH, U.S.A. <i>The Inverse Problem of Electrocardiography</i>
Neural cardiology and Heart Rate Variability	Not yet determined

Neurophysiology Track:

Session	Invited Lecturer
Granit Lecturer	Fernando H. Lopes da Silva, University of Amsterdam, The Netherlands <i>Nonlinear Analysis of the EEG</i>
EEG Signal Processing	Gabriel Curio, Free University of Berlin, Berlin, Germany <i>High-Frequency EEG/MEG Analysis</i>
Magnetoencephalography	Not yet determined
EEG/MEG Inverse Problems	Bin He, University of Illinois at Chicago, Chicago, IL, U.S.A. <i>The Inverse Problem of Electroencephalography</i>
Evoked Potentials	Terence Picton, Rotman Research Institute, Toronto, Ontario, Canada <i>Localization of Auditory Sources by the EEG and MEG</i>
Sleep Studies	Richard Kronauer, Harvard University, Cambridge, MA, U.S.A. <i>Computational Models of the Sleep-Wake Cycle</i>
Neural Networks in EEG	Not yet determined
Electric and Magnetic Stimulation	Risto Ilmoniemi, Helsinki University Central Hospital, Helsinki, Finland <i>Transcranial Magnetic Stimulation</i>
Effects of Electromagnetic Fields	Maria Stuchly, University of Victoria, Victoria, BC, Canada <i>Biological Effects of Electromagnetic Fields</i>