

# Welcome to *ICSLP-2002*

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On behalf of the Conference Organizing Committee, it is my pleasure to welcome you to the International Conference on Spoken Language Processing, ICSLP-2002.

The conference in Denver, Colorado has been organized by researchers, scientists and staff at the Center for Spoken Language Research, the Department of Speech, Language and Hearing Sciences at the University of Colorado at Boulder, and the W.G. Voice Center located at the Center for Performing Arts.

The theme of ICSLP-2002 is "Interdisciplinary Speech Science and Technology from Von Kempelen's Speaking Machine to the New Millennium." The technical program for ICSLP-2002 includes an exciting week of oral and poster sessions. A total of nine **Special Sessions** have been organized on new emerging areas in speech processing. **Keynote talks** will be presented by Tecumseh Fitch on the "Evolution of Speech" and Steve Young on "Talking to Machines (Statistically Speaking)". In addition, an invigorating panel discussion on "Vision Quest: Perceptive Animated Agents" has been organized by Ron Cole which will take place on September 20<sup>th</sup>.

ICSLP-2002 is the seventh biennial conference dedicated to the interdisciplinary study of speech science and language technology. Since the original meeting in Kobe, Japan in 1990, ICSLP has enjoyed a wide variety of venues with conferences held in Banff, Canada (1992), Yokohama, Japan (1994), Philadelphia, Pennsylvania USA (1996), Sydney, Australia (1998), and most recently, Beijing, China (2000).

ICSLP-2002 has received sponsorship from **ISCA**, the International Speech Communications Association with cooperating sponsorship from the **IEEE Signal Processing Society, ASA, LSA, and IPA**. Following in the tradition of previous conferences in speech, we declare ICSLP-2002 an INTERSPEECH EVENT in a sign of cooperation with researchers and scientists from across the world who are actively involved in speech science and language technology.

For the first time, ICSLP-2002 will offer a full **Tutorials Day** program which will take place on September 16<sup>th</sup>. This day will feature a series of six in-depth tutorials offered by world-class experts in their field and will provide valuable up-to-date overviews covering a wide range of topics. In an effort to promote the interdisciplinary nature of ICSLP, this Tutorials Day is intended to provide researchers with both a firm foundation and overview of the latest advances in the field prior to the regular ICSLP-2002 program. We feel that this will encourage experts in their discipline to explore the range of topics offered at ICSLP-2002.

A number of satellite workshops have also been planned including: **ICVPB: Workshop on Voice Physiology and Biomechanics, Pronunciation Modeling Workshop, and the IEEE 2002 Workshop on Speech Synthesis.**

The Conference Committee has made every effort to make this an enjoyable and memorable meeting and wishes to acknowledge the organizational assistance of Centennial Conferences and representatives of the Adams Mark Hotel, as well as ISCA and support from our external sponsors and exhibitors to whom we are truly grateful.

*John H.L. Hansen*  
*Chair of ICSLP-2002:*  
*International Conference on Spoken Language Processing*



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- CSLR: Center for Spoken Language Research, University of Colorado at Boulder, Boulder, Colorado USA  
<http://cslr.colorado.edu/>
- SLHS: Department of Speech, Language, and Hearing Sciences, University of Colorado at Boulder, Boulder, Colorado USA  
<http://www.colorado.edu/slhs/>
- W.J.Gould Voice Center, Denver Center for the Performing Arts, Denver, Colorado USA  
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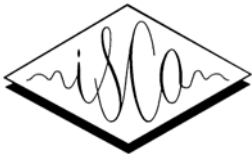
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## SECOND CHRISTIAN BENOÎT AWARD

The Christian Benoît Association has been created on April 26th, 1999, in memory of the late Christian Benoît, researcher in the area of speech communication. Until his death in April 1998, Christian Benoît has conducted research, mainly at the Institut de la Communication Parlée in Grenoble, on speech synthesis and audio-visual speech processing. The objectives of the association are focused on helping projects promoting research on speech communication, mainly through the Christian Benoît Award. The Christian Benoît Award is given periodically to promising young scientists in the area of speech communication. It provides financial support for the development of a multi-media project, such as a web site or CD-ROM, promoting the work of these young scientists, and is valued at 7,622 Euros. The first Award was attributed in June 2000 to Tony Ezzat from the Massachusetts Institute of Technology, who is working in the field of audio-visual speech synthesis.

For the Second Christian Benoît Award, three scientists have been nominated: Johanna Barry (University of Melbourne, Australia) , John Hershey (University of California, San Diego, USA) and Barry-John Theobald (University of East Anglia, Norwich, UK). Finally the elected person is **Johanna Barry**.

**Johanna Barry** is currently a PhD student at the *Bionic Ear Institute* of Melbourne. She is conducting research on speech development in pre-linguistically profoundly hearing-impaired children after they have received a cochlear implant. Currently, she is studying the development of spoken language in Cantonese-speaking children, and she is especially interested in investigating the acquisition of tones discrimination, identification and production when auditory information is conveyed through the cochlear implant. Her general aim will be to contribute to the development of an empirical model of phoneme acquisition which describes the relative effects of articulatory, linguistic and perceptual factors in the acquisition of spoken language. One of her post-doc projects is to develop a computer-based clinical tool for aiding habilitation of tone development through visual speech input. **Johanna Barry** is author or co-author of 8 Journals papers.

In her application to the Christian Benoît Award, **Johanna Barry**, proposed to develop a series of interactive web-pages and an interactive CD-ROM demonstrating her research, in order to receive funding to support the development of the clinical tool, and to attract clinical collaborators from Cantonese speaking countries, who would be able to collaborate on the design and the development of the clinical tool.

Additional information about the Christian Benoît Association can be found at :  
<http://www.icp.inpg.fr/ICP/ACB.fr.html>

## COMMERCIAL SPONSORS



The Organizing Committee of ICSLP-2002 wishes to thank IBM for sponsoring the IBM Student Best Paper Award in Speech Recognition which is to be presented at the Closing Ceremony on Friday, September 20, 2002 and providing ICSLP-2002 with computer support during the conference.



The Speech Technology Group engages in research and development of spoken language technologies. We are interested not only in creating state-of-the-art spoken language components, but also in how these disparate components can come together with other modes of human-computer interaction to form a unified, consistent computing environment. To achieve that goal we're building applications that make computing available everywhere through the use of speech. These applications can help us discover real problems that we need to solve to make speech recognition more useful. As a result of this work we developed [MiPad](#), the first multimodal personal information manager used with speech and pen. We are also working on several other areas, including [noise robustness](#), [automatic grammar learning](#) and [language modeling](#).



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