



16th International Congress of Phonetic Sciences

Book of Abstracts

www.icphs2007.de

Edited by Jürgen Trouvain and William J. Barry

Previous Congresses

1st	Amsterdam	(1932)
2nd	London	(1935)
3rd	Ghent	(1938)
4th	Helsinki	(1961)
5th	Münster	(1964)
6th	Prague	(1967)
7th	Montréal	(1971)
8th	Leeds	(1975)
9th	Copenhagen	(1979)
10th	Utrecht	(1983)
11th	Tallinn	(1987)
12th	Aix-en-Provence	(1991)
13th	Stockholm	(1995)
14th	San Francisco	(1999)
15th	Barcelona	(2003)

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Message from the General Chair

Dear Colleagues,

On behalf of the Phonetic Sciences in Germany, I welcome you to Saarbrücken and the Saarland. Though Saarbrücken is the venue, it was a Consortium of Phoneticians from the whole country that was accorded the honour of hosting the XVIth ICPHS, 43 years and 11 congresses after the last meeting in Germany, in Münster, Westphalia.

For us, one of the important things about such a Congress is the signal it sends to the emerging generation of speech scientists. As far as Germany is concerned, many have come here from their universities to act as student helpers in the minute-to-minute running of the Congress. Being part of the events here and experiencing the intellectual excitement of discussions and of the exchange of results and ideas will, we hope, serve to strengthen their interest and inspire their own future work in speech research.

But equally important is what such a Congress demonstrates to the “Powers That Be”. It shows the breadth and depth of activity in an area of scientific endeavour that focuses on what is, and always has been, central to human communal life – speech communication. It is the breadth of the activity which constitutes the special nature of the Phonetic Sciences. But it is also what makes them vulnerable to the fast-changing and increasingly commercially-driven fashions that attract the attention of potential funding bodies. They can lead to a neglect of the fundamental question that drives all the disparate branches of the Speech Sciences: How does speech work?

The political and financial pressures for “reform” that keep our educational systems and the contents of our university curricula in flux also make it a challenge to maintain an awareness of what the Phonetic Sciences are and what they contribute to our understanding of so many organizationally separated aspects of science. Without this awareness, there is a real danger that phonetics teaching will be fragmented into the parts that all the participating sciences contribute to the whole, which is, I claim, much more than the sum of the parts.

We therefore rely on the International Congress of Phonetic Sciences as the public declaration of a common core interest in all aspects of spoken language, and it is as such that we are proud to offer our hospitality – intellectual and corporeal – to you all.

You will have noticed that the venue we have provided is a long way from the luxury conference centres to which many of you may have become accustomed over the past decade or so. We trust, however, that the functionalities we offer are efficient, and the more Spartan conditions will help to concentrate the mind on all the exciting scientific issues being presented here this week. But we also secretly hope that the proverbial friendliness of the Saarland people will help create an atmosphere that will transcend any lack of environmental luxury.

On behalf of the Programme Committee I wish you all a stimulating congress.

William J. Barry

General Chair

Welcome from the President of the Permanent Council of the ICPHS

Dear Phonetic Scientists,

It gives me great pleasure to welcome you to the XVIth International Congress of Phonetic Sciences. You are attending the Jubilee Congress, marking 75 years of interdisciplinary exchange among the international phonetic community since the first meeting of phonetic scientists in Amsterdam in July 1932. I am also very pleased that the Congress has returned to Germany, where it was held in 1964, thus paying tribute to the country's rich tradition in phonetics. In this linguistically diverse area of Europe, where West-Germanic, Romance, Scandinavian, and Slavonic languages share frontiers, now open, the choice of Saarbrücken as the Congress site offers the additional attraction of a quick hop into France, Luxemburg, Belgium or Holland, all in close proximity.

The international and interdisciplinary orientation, which shaped the very first gathering in our Congress series and which found its expression in its name, has not only been kept but has been expanded. Whereas the Amsterdam meeting was mainly European, with few participants from outside, and those only from the United States and Japan, the Congress has since then increasingly spanned the world. And the number of fields represented under its phonetic roof has grown, with new techniques of speech analysis, synthesis and application becoming absorbed. The numbers of participants and presentations then – 136 and 45 – are dwarfed by their many-fold increases in Saarbrücken. The local committee of the 2007 event deserves our gratitude for having taken on such a massive commitment as the organization of a congress of these huge dimensions.

Two changes have taken place of late in the way the International Congresses of Phonetic Sciences are administered by the community of phonetic scientists. In Amsterdam, an international and interdisciplinary committee was elected, which came to be known as the Permanent Council for the Organization of ICPHS. It was to decide on future Congresses, elect their Presidents, select the Congress sites, and oversee the scientific standard of the meetings. This Permanent Council became the foundation on which the Congresses were built; it continued to exist, albeit dormant, during World War II, and it is due to its members that the Congress could be revived in Helsinki in 1961. It was exceptional among scientific congresses in that it did not have the backing of a learned society. To adjust this, the Executives of the Permanent Council and of the International Phonetic Association negotiated a union between them. This resulted in the International Congress of Phonetic Sciences being held under the auspices of the IPA as from 2003. It also meant that the Permanent Council became a committee of the IPA, but keeping its original functions and a semi-autonomous status, with its own Executive as before, but 14 of its 25 members now elected by the IPA instead of by the Permanent Council. This new composition has just been finalized. So, the XVIth International Congress of Phonetic Sciences in Saarbrücken is the first to be run under the IPA and a new Permanent Council. On their behalf, I wish the Congress organizers a very successful and rewarding completion of their dedicated efforts and their hard work, and all of us lots of exciting and fruitful discussions of current research in the Phonetic Sciences.

Klaus J. Kohler

President of the Permanent Council for the Organization of ICPHS

Welcome Note of the Patronesse – Grußwort der Schirmherrin

Das Wissenschaftsjahr 2007, das den Geisteswissenschaften in ihrer ganzen Vielfalt gewidmet ist, versammelt unter dem Thema „Sprache“ eine breite Palette menschlicher Artikulationsformen: In Kunst und Kultur, in Wissenschaft und Politik spielt Sprache die zentrale Rolle bei der Erschließung der Wirklichkeit. Auch wenn mit dem Thema „Das ABC der Menschheit“ die Sprachen der Kunst, der Musik und sogar Symbolsprachen der Mathematik oder der Naturwissenschaften mit gemeint sind, kommt doch der Sprache im engeren Sinne eine besondere Bedeutung zu.

Der XVI. Internationale Phonetik-Kongress findet in diesem Jahr in Deutschland statt und dokumentiert auf diese Weise eindrücklich, welches Gewicht die deutsche Sprachforschung auch international hat. Das Themenspektrum des Kongresses ist beeindruckend und lässt erahnen, wie bedeutungsvoll die Phonetik für die Sprachforschung aber auch für die Lern- und Bildungsforschung, die Soziologie, die Psychologie oder der Rechtswissenschaft ist. Im Dialog mit der Neurobiologie wird das enge Verhältnis von Geistes- und Naturwissenschaften deutlich.

Im Mittelpunkt der Phonetik steht die gesprochene Sprache in all ihren Facetten – und damit die Grundlage der alltäglichen Kommunikation, aber auch die Grundlage jedes wissenschaftlichen Arbeitens. Wissenschaft und Forschung leben von Sprache, die ihre Gegenstände erschließt und diskutabel macht. Sie sind für die intersubjektive Kommunikation ihrer Ergebnisse auf Sprache angewiesen – auch da noch, wo auf den ersten Blick nur die Messergebnisse sprechen.

Die Phonetiker leisten einen wichtigen Beitrag zur Klärung der komplexen Bedingungen dieser Grund-Verständigung und tragen dazu bei, sie weltweit zu sichern. Für diese Aufgabe wünsche ich dem XVI. Internationalen Phonetik-Kongress viel Erfolg und einen guten und ertragreichen Verlauf.

Dr. Annette Schavan, MdB

Bundesministerin für Bildung und Forschung

Note from the Editors

Dear Colleagues,

As usual for the Phonetics Congresses, the programme of the XVIth ICPhS offers an extraordinary diversity of topics. They come to you in three different types of presentation.

The two *keynote* addresses in the opening plenary session provide insight into two less mainstream areas of speech research and illustrate two different methodologies, one representing an extension and new developments of more traditional phonetic analysis, the other firmly rooted in modern technology. But they address two of perhaps the most central aspects of speech communication, namely that we talk with one another, and that we normally talk face to face.

Twelve *Special Sessions* with their 66 papers deal with themes that are currently subject to lively discussion or which have not generally been focused on previously. The sessions have been initiated and organized by scientists with the enthusiasm and commitment to undertake the onerous task of bringing experts together and coordinating their contributions.

For the *Regular Sessions* 467 oral and poster presentations were selected from 708 papers submitted to more than twenty thematic areas. “Speech Prosody” received by far the most submissions — a clear indication of the increased interest in “higher level” structuring in speech, but also of the need for thematic and terminological differentiation in that area.

The Programme Committee decided to introduce two novel aspects to the procedure of paper submission. Instead of the traditional short abstracts, an *anonymised* four-page *full paper* was subjected to review. The review process was therefore more demanding than usual, calling for an extended number of reviewers: 351 reviewers proposed by the Programme Committee and supplemented by the International Advisory Committee reported on between 1 and 10 papers within their fields of expertise. In cases of diverging or unclear opinion, a third review was sought from the appropriate person on the International Advisory Committee. From the papers submitted for presentation in regular sessions, 66% were accepted. Although the reviewing process needs improvement, in particular with regard to the specificity and usefulness of the comments provided for the authors, a questionnaire sent to the reviewers showed that the majority of them believes that full-paper submission and anonymous submission are, in principle, to be preferred. It is the conviction of the editors that the exercise of presenting research results clearly and succinctly on only four pages in a peer-reviewed conference paper is a valuable exercise for the presentation of more extensive studies in journals.

We thank all reviewers, the organisers of Special Sessions and all invited speakers for their contribution to the Congress Proceedings, which will also be available on the Web.

Jürgen Trouvain and William J. Barry

Number of papers per country

(According to first author)

Australia	12
Austria	1
Belgium	7
Brazil	3
Canada	14
China	6
Croatia	3
Czech Republic	4
Denmark	3
Estonia	4
Finland	10
France	49
Germany	74
Greece	3
Hong Kong	8
Hungary	1
Iran	2
Ireland	3
Israel	4
Italy	10
Japan	24
Jordan	1
Korea	2
Malta	1
Morocco	2
Netherlands	30
New Caledonia	1
New Zealand	1
Norway	5
Poland	4
Portugal	2
Russia	3
Singapore	1
Spain	15
Sweden	11
Switzerland	4
Taiwan	8
United Kingdom	74
United States	125
Total	535

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- Jürgen Trouvain, Local Organisation
- Ingmar Steiner
- Claudia Jamhour
- Stephanie Köser
- Christoph Clodo
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- The Saarland University Conference Unit under the guidance of Uta Merkle

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Satellite Events

ICPhS satellite workshops:

- *Phonetics and Phonology in Third Language Acquisition*
(August 3-4, 2007, in Freiburg)
<http://www.phonetik.uni-freiburg.de/L3phonology>
- *Paralinguistic Speech - between Models and Data*
(August 3, 2007, in Saarbrücken)
<http://dfki.de/paraling07>
- *The Phonetics of Laughter*
(August 4-5, 2007, in Saarbrücken)
<http://www.coli.uni-saarland.de/conf/laughter-07/>
- *Intonational Phonology: Understudied or Fieldwork Languages*
(August 5, 2007, in Saarbrücken)
<http://www.linguistics.ucla.edu/people/jun/Workshop2007ICPhS/intonation.htm>
- *EMA (Electromagnetic Articulography)*
(August 11, 2007, in Saarbrücken)
http://www.articulograph.de/Workshop_on_EMA.htm
- *6th ISCA Speech Synthesis Research Workshop – SSW-6*
(August 22-24, 2007, in Bonn)
<http://www.isca-speech.org/ssw6/>
- *Temporal Dynamics in Speech and Hearing*
(August 26, 2007, in Antwerp, Belgium)
<http://www.silicon-speech.com/workshop>