

Message from the Chair of the Local Organizing Committee for the 18th ICPhS

Ceud mìle fàilte! Fair faw ye!* On behalf of the Scottish phonetics community, welcome to Glasgow, “the dear green place”, for the 18th International Congress of Phonetic Sciences (ICPhS 2015)! I’m delighted that we are able to host this conference at the SECC, beside the renovated River Clyde and close to Glasgow’s lively and elegant city centre.

At least since the days of Alexander Graham Bell, phonetic research has been at home in Scotland. Phonetic sciences were part of the Speech and Language Therapy programme in the Glasgow School of Speech Therapy, founded by Anne H. McAllister at Jordanhill College, in the 1930s (and now continued at Strathclyde University). The academic subject was established here shortly after the Second World War, when a phonetics department was founded at Edinburgh University, and a lecturer in phonetics was appointed at Glasgow University. And phonetics was also an integral part of the course offered by the Edinburgh School of Speech and Language Therapy since 1946, now continued by Queen Margaret University Edinburgh.

Since these early days, phonetics in Scotland has flourished and diversified so that now members of our Scottish Consortium together represent most of the major subfields of phonetics researched today, including speech production and perception, sociophonetics, laboratory phonology, speech synthesis and recognition, phonetic fieldwork, and communication disorders. This is reflected at this Congress; we are very proud that Scotland has contributed almost a third of the papers from the UK. It has been both very enjoyable and a privilege to work with my colleagues across this range of phonetics over the past five years, to prepare for this conference.

Now that you are in Scotland, I hope that you will enjoy taking part in the conference and the substantial programme offered by our distinguished plenary speakers, the innovative discussant sessions, and the wide-ranging papers from across the international phonetics community. We are all excited by the large number of papers and delegates who will be taking part in this Scottish Congress.

Finally, I hope that (in your spare moments) you will be able to make the most of the city of Glasgow and the attractions it has to offer (if you like museums, take this opportunity to visit the wonderful Burrell collection – like all Glasgow’s museums, it’s free, but it will be closed from 2016-2020), as well as the beautiful local scenery (possibly with a light waterproof jacket), lochs and islands which can be visited in a single day, and of course, Scotland’s capital city, Edinburgh, is less than an hour away (you might catch a show or two at its world-famous International Festival or at the ‘Fringe’).

Thank you for making the trip to Scotland – enjoy your time with us.



Jane Stuart-Smith
Chair of the Local Organizing Committee for ICPhS 2015

**Ceud mìle fàilte* [ˈtʃiət mɪːlə faːlɪtə] is ‘a hundred thousand welcomes’ in Gaelic. *Fair faw ye* [fɛɪ fə ʒi] is a Scots blessing wishing good fortune.

Welcome from the President of the Permanent Council of the ICPhS

Dear colleagues,

On behalf of the Permanent Council for the Organization of the International Congress of Phonetic Sciences, it is with great honor and pleasure that I welcome you to the 18th International Congress of Phonetic Sciences. It is the first time the Congress is being held in Scotland, organized by a consortium of four Scottish Universities. Scotland has had a long and rich tradition in phonetic research and teaching and has been privileged with the presence and inspiring work of many eminent phoneticians over the years and to this date. Its institutions have fostered interdisciplinary collaboration among scientists which have led to very important developments and new orientations in both basic and applied research in the phonetic sciences. This is the third time the Congress is in the UK and the 18th ICPhS returns to the country exactly 80 years after the 2nd ICPhS held in London in 1935 and 40 years after the 8th ICPhS held in Leeds in 1975. This year's ICPhS also marks the 15th Congress to be held in a European country.

The ICPhS has been organized under the auspices of the International Phonetic Association since 2003. Since the last Congress in Hong Kong in 2011, work has been underway in making past proceedings available online at the website of the International Phonetic Association. While working on this, I have had the opportunity to discover a wealth of information on the history of the ICPhS and important landmarks and developments since the first Congress in Amsterdam in 1932. I would like to share some of this information with you and to briefly elaborate on four keywords that I believe have marked the evolution of the Congress over the past 83 years. These keywords are *divergence, co-operation, convergence, and continuity*. The diversity of disciplines that first came together in the Amsterdam Congress was one of the most remarkable features of this event. The first Congress brought together linguistics, biologists, physicists, physiologists, physicians, psychologists and psychiatrists. These scientists spoke different codes and were familiar with different methodologies, research tools and analyses protocols. A remarkable achievement of this first Congress was that it managed to set the foundations for the constructive collaboration of scientists from diverse fields all of whom, however, had a common scientific goal, that of understanding different aspects of speech sounds. Co-operation among scientists since then has led the phonetic sciences from this Babylon state of affairs to a remarkable multidisciplinary convergence where scientists work together, complement and advance research methods and analyses procedures, leading to a more comprehensive and global understanding of human spoken language and communication. At the same time, new challenging questions are posed which lead to further advances in methodology and analyses and necessitate further collaboration among scientists from different fields. This promotes continuity as well as expansion and innovation in the phonetic sciences. Continuity is also evidenced by the new scientists entering the field. One of the most important functions of Congresses has been the opportunity they offer to scientists, whether established or new, to meet in a common forum, exchange ideas and share experiences.

Congress statistics provide evidence of the above. While all papers (40 in total) were single-authored in the 1st ICPhS in Amsterdam, 611 papers are co-authored in the 18th ICPhS indicating that co-operation between scientists is currently very well-established in the field. Continuity and productiveness in the phonetic sciences is evidenced by the large number of papers that will be presented in this Congress (a total of 774 papers) and by the high percentage of papers submitted by students and accepted for presentation (35%; a total of 267 papers).

Before concluding, I would like to point out that to date only three Congresses were held outside Europe; Montreal (1971), San Francisco (1999) and Hong Kong (2011). One of the tasks of the Permanent Council for the Organization of the ICPhS is to ensure that there is rotation of Congresses among countries and continents. Work is currently underway towards the organization of future Congresses in continents and countries where the Congress has not been held before.

I would like to conclude by expressing our sincere thanks and gratitude to the local organizing committee for all the hard work they have put into the realization of this Congress over the past four years. The organization of such a large-scale event is indeed very complex and challenging and we thank them deeply for their commitment, their dedication and all the novel approaches they have introduced throughout the different organizational stages. I wholeheartedly wish the organizers a very successful Congress, and all participants very fruitful and stimulating discussions on current progress and future avenues of research in the phonetic sciences. I am certain that this Congress will continue the long tradition of fostering new collaborations among scientists and promoting developments and innovation in the phonetic sciences.

Katerina Nicolaidis

President of the Permanent Council for the Organization of the ICPhS

Welcome from the Four Host Universities in the Scottish Consortium



THE UNIVERSITY
of EDINBURGH



Professor Dorothy Miell
Vice-Principal and Head of the College of
Humanities and Social Science

As the head of the College of Humanities and Social Sciences at the University of Edinburgh, I am delighted to welcome you to Scotland for the International Congress of Phonetic Sciences. The University of Edinburgh is proud of its history of phonetics research, as evidenced by an illustrious list of former staff members, including David Abercrombie, Ian Catford, Peter Ladefoged, John Laver, and Betsy Uldall. Today, Phonetics at the University of Edinburgh is housed within the Department of Linguistics & English Language, in the School of Philosophy, Psychology & Language Sciences, acknowledged to be one of the strongest departments for Linguistics research and teaching nationally and internationally. Research in Phonetics here includes work in speech production, speech perception, prosody, the phonetics of sound change, field phonetics, second language acquisition, language development, the interface between phonetics and phonology, sociophonetics, and speech technology. We hope you will thoroughly enjoy your phonetic experience in Glasgow and visit Scotland again in the near future.



Roibeard O Maolalaigh
Vice-Principal / Head of the College of Arts,
Professor of Gaelic

Fàilte oirbh uile gu Baile Ghlaschu. [fa:lʲiə ɹiɛv ulʲə kə palʲə ɣlasəxə] As Vice-Principal / Head of the College of Arts and as Professor of Gaelic, I am delighted to welcome you to Glasgow for ICPhS 2015, on behalf of the University of Glasgow. Phonetics has a long history at Glasgow, beginning formally with Charles Martin who taught phonetics in the French department from 1907, but acknowledged before then in the honorary degree awarded by the University of Glasgow in 1892 to the distinguished philologist – and phonetician – Henry Sweet. From the early 1980s, Phonetics moved to English Language, where it is now taught and researched, supported by the facilities and researchers of the *Glasgow University Laboratory of Phonetics* (GULP). Phonetics contributes to teaching and research in English Language, English and Scottish Literature, which receives very high levels of student satisfaction, and which has been recognized in research assessments as world-leading and internationally excellent. Phonetics is a key part of the undergraduate curriculum in other areas too, including Celtic and Gaelic. Phonetic research at Glasgow, which has strong links with Celtic and Gaelic, Psychology and Computing Science, reflects strong theoretical interests in the role of social, indexical and psychological factors in relation to phonetics. In recent years, this research has been recognized through major university investments such as the upgrading and expansion of the Laboratory, and by a series of major grants from funders such as the AHRC, the ESRC, the Leverhulme and Carnegie Trusts. I am delighted that my colleagues at Glasgow have joined forces with our neighbouring institutions in Scotland to host ICPhS 2015. I very much hope that you enjoy your time in Glasgow, ‘the friendliest city in the world’ according to *Rough Guides*, and that your own research interests may bring you back to work with our researchers in Phonetics in Glasgow in the future.



Professor Petra Wend PhD FRSA FRSE
Principal and Vice Chancellor



Queen Margaret University
EDINBURGH



Professor Alan Gilloran
Vice Principal-Academic

On behalf of Queen Margaret University, Edinburgh, we are delighted to welcome you all to ICPhS. We would also like to thank our three partner institutions and all the individuals who have put so much hard work into the organisation of this event. The Congress is a fantastic opportunity for academics, students and research users to contribute to and benefit from this broad showcase of excellence at the cutting edge of the phonetic sciences, and now it can begin.

Co-hosting ICPhS is a particular honour for QMU, since we have such a strong focus in this scientific area. Though we are one of the newest universities in Scotland, our phonetic roots reach back to 1946, with the founding of the Edinburgh School of Speech Therapy. Our institutional focus in teaching and learning remains proudly vocational, while our research strategy emphasises both clinically-relevant questions and the development of models and instrumentation relevant to the phonetic sciences as a whole. To find out more about QMU and the Clinical Audiology, Speech and Language (CASL) Research Centre we invite you to visit our academic exhibition here, where you will find information on our research facilities, our recent projects and outputs, and our approach to real-world impact. Together these were rated among the very best in the UK in REF2015. But most importantly, we extend a warm welcome, and not just for this week, but in the hope of interaction and collaboration in the years to come.



Anja Lowit, PhD
Vice-Dean Research & KE,
Faculty of Humanities and Social Sciences

Strathclyde University would like to welcome you warmly to Glasgow. We are proud to co-host the 18th congress of the ICPhS together with our partners of the organising committee, whose varying expertise aptly captures the breadth of the phonetic sciences and the wide ranging impact this discipline can have on society. At Strathclyde we have a long history of applying phonetic principles to the diagnosis and treatment of people with speech disorders, being one of the first speech and language therapy courses to be established in the UK. In addition to providing excellent training to emerging as well as qualified practitioners, we have a strong research profile in clinical and applied phonetics. Our expertise ranges from investigations of normal speech behaviours to build normative databases on the one hand, to trying to better understand disordered behaviours and pioneering new methodologies in a clinical context as a basis for improved patient management on the other. We rank amongst the top UK universities both for our teaching provision as well as our research contribution.

We hope that you will enjoy your time in Glasgow and that ICPhS will be a thought provoking and stimulating event that will allow you to strengthen existing and build new links with colleagues, and we would be delighted to welcome some of you back here in future to work with us.

Organization

The Permanent Council for the Organization of the International Congress of Phonetic Sciences

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John Wells (*UK*)

International Phonetic Association (IPA)

The International Phonetic Association (IPA) is the major as well as the oldest representative organisation for phoneticians. It was established in 1886 in Paris. 2011 marked the 125th anniversary of the founding of the IPA, and 2013 marked the 125th anniversary of the first publication of the International Phonetic Alphabet and the formulation of the principles. The aim of the IPA is to promote the scientific study of phonetics and the various practical applications of that science. In furtherance of this aim, the IPA provides the academic community world-wide with a notational standard for the phonetic representation of all languages - the International Phonetic Alphabet (also IPA). The latest version of the IPA Alphabet was published in 2005.

The IPA also sponsors the International Congresses of Phonetic Sciences, and, through Cambridge University Press, publishes the Journal of the International Phonetic Association three times a year, to which members of the IPA have free online access.

Website: <https://www.internationalphoneticassociation.org>

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Gerard J. Docherty	John Kingston	Maria Wolters
John Esling	Anders Löfqvist	Yi Xu
Cécile Fougeron	Francis Nolan	
Paul Foulkes	Daniel Recasens	

Brief outline of review process

We adopted a two-stage review process. At Stage 1, each reviewer read 8-10 papers, and rated them under each of five general headings (Interest, Scholarship, Method, Clarity, and English/Expression, and Overall Impression). Reviewers were encouraged, but not required, to provide written comments. At Stage 2, an expert panel of mostly senior reviewers considered the Stage 1 reviews for roughly 40-50 papers in their broad field of expertise and made final recommendations about acceptance or rejection. Stage 2 reviewers were asked to focus on borderline cases and cases where the Stage 1 reviewers were in clear disagreement. Our final acceptance rate was 85%.

Statistics

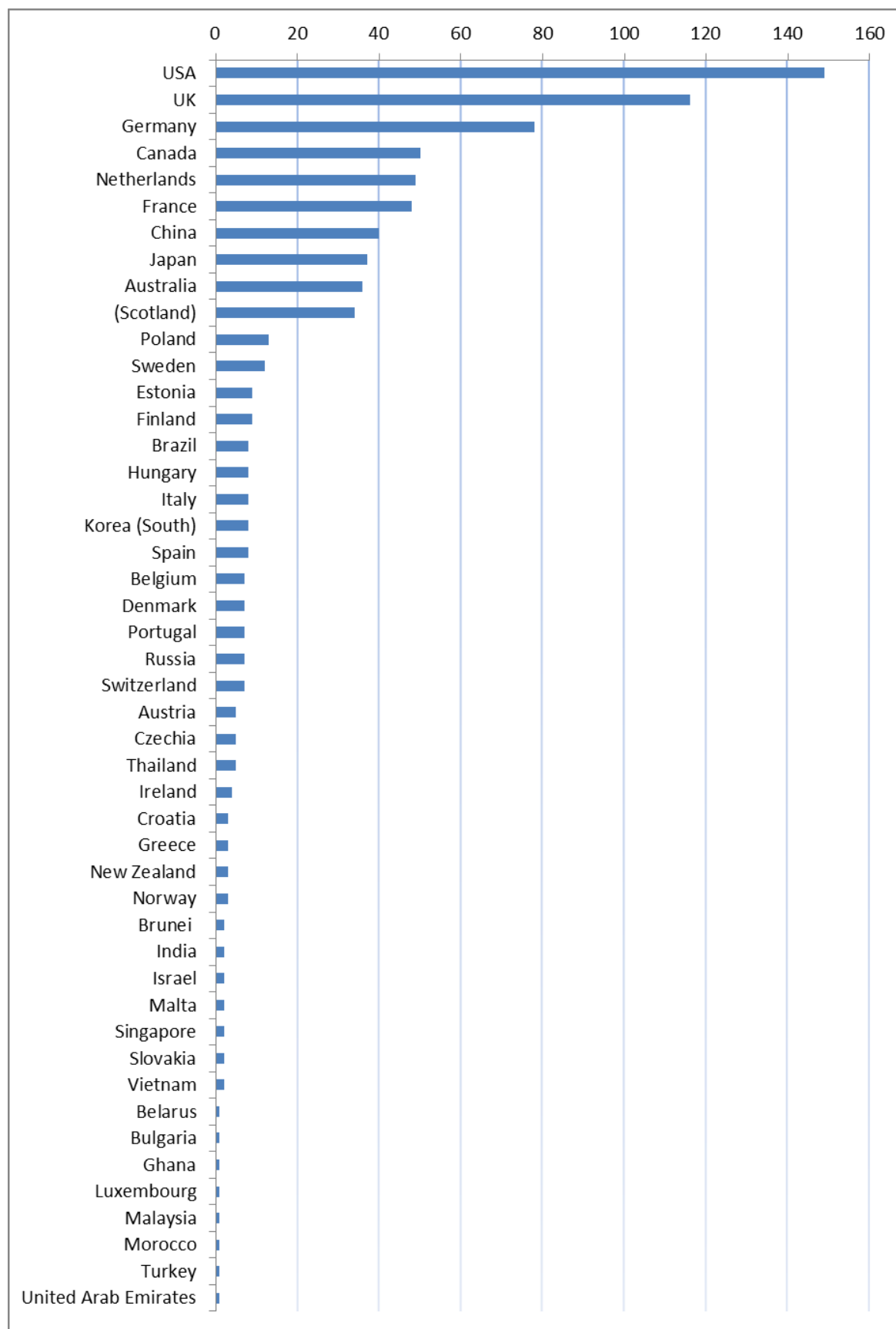
Number of papers for the ICPhS XVIII

Sessions	Number	Papers
Plenary Lectures	4	4
Parallel Sessions	13	345
Discussant Sessions	10	50
Poster Sessions	7	375
TOTAL	34	774

Number of contributions per country

(according to affiliation of corresponding authors as at 15 June 2015)

Australia	36	Japan	37
Austria	5	Korea (South)	8
Belarus	1	Luxembourg	1
Belgium	7	Malaysia	1
Brazil	8	Malta	2
Brunei	2	Morocco	1
Bulgaria	1	Netherlands	49
Canada	50	New Zealand	3
China	40	Norway	3
Croatia	3	Poland	13
Czechia	5	Portugal	7
Denmark	7	Russia	7
Estonia	9	Singapore	2
Finland	9	Slovakia	2
France	48	Spain	8
Germany	78	Sweden	12
Ghana	1	Switzerland	7
Greece	3	Thailand	5
Hungary	8	Turkey	1
India	2	United Arab Emirates	1
Ireland	4	USA	149
Israel	2	UK (Scotland 34)	116
Italy	8	Vietnam	2



IPA Awards

Recipients of IPA Student Awards

Hye-young Bang (<i>Canada</i>)	Christina Otto (<i>Germany</i>)
Anastasia Chionidou (<i>Greece</i>)	Maida Percival (<i>Canada</i>)
Mirjam de Jonge (<i>Netherlands</i>)	Page Piccinini (<i>USA</i>)
Eleanor Drake (<i>UK</i>)	Amanda Ritchart (<i>USA</i>)
Luke Galea (<i>Germany</i>)	Timo Roettger (<i>Germany</i>)
Tyler Heston (<i>USA</i>)	Scott Seyfarth (<i>USA</i>)
Shiori Ikawa (<i>Japan</i>)	Stavroula Sotiropoulou (<i>Germany</i>)
Anna Jespersen (<i>UK</i>)	Taja Stoll (<i>Germany</i>)
Oriana Kilbourn-Ceron (<i>Canada</i>)	James Tanner (<i>Canada</i>)
Yoonjeong Lee (<i>USA</i>)	Rory Turnbull (<i>USA</i>)
Michael McAuliffe (<i>Canada</i>)	Shufang Xy (<i>Brunei</i>)

Recipients of Gösta Bruce Scholarships for ICPhS 2015

Ann Aly (<i>USA</i>)	Martin Kohlberger (<i>Netherlands</i>)
Helena Beeley (<i>UK</i>)	Eleanor Lewis (<i>Australia</i>)
Yifei Bi (<i>Netherlands</i>)	Miguel Llompарт-Garcia (<i>USA</i>)
Tingting Brengelmann (<i>Germany</i>)	Henrik Niemann (<i>Germany</i>)
Charles Ricky Chan (<i>USA</i>)	Kimmo Peltola (<i>Finland</i>)
Una Chow (<i>Canada</i>)	Rebekka Puderbaugh (<i>Canada</i>)
Matthias Franken (<i>Netherlands</i>)	Zhen Qin (<i>USA</i>)
Sarah Hamilton (<i>USA</i>)	Mitko Sabeв (<i>United Kingdom</i>)
Jonathan Havenhill (<i>USA</i>)	Amos Teo (<i>USA</i>)
Qandeel Hussain (<i>Australia</i>)	Andreas Windmann (<i>Germany</i>)

Acknowledgements

Organizing ICPhS 2015 has been a substantial undertaking, which would not have been possible without the help and support of numerous people. In particular, we would like to thank:

- The members of the Local Organizing Committee who attended meetings and contributed to online discussions, and specifically: Bob Ladd and Alice Turk (paper submission and review); Maria Wolters and Rachel Smith (programme); Maria Wolters and Mike MacMahon (abstract book); Bert Remijnsen and Pavel Iosad (discussant sessions); Lauren Hall Lew and Claire Timmins (social media); Jim Scobbie and Joe Fruehwald (sponsorship); Felix Schaeffler and Pat Strycharczuk (volunteers); Pat Strycharczuk and Janet Beck (social programme)
- Our authors for submitting papers and contributing to an excellent programme
- All our reviewers for the swift turnabout for the Stage 1 and Stage 2 review process
- Our Glasgow University Postgraduate Intern, Emma Osborne
- Glasgow City Marketing Bureau, and especially Beverley MacLean, Aileen Crawford and Evie Mauchan, who were so helpful in the early stages of the bid process, and close to the conference itself
- the Scottish Exhibition Conference Centre, and especially Dawn Walker and Lynne Guthrie
- Our friends, colleagues and management at our local institutions
- Our enthusiastic group of student volunteers drawn from Glasgow and Edinburgh, from all four institutions
- John Ohala for the display of the obituaries for the phoneticians who passed away recently
- And most especially, our Professional Congress Organizer, Intelligent Events, Celia Lloyd, Judy Livingstone, Claire McLaughlin, and Bernie Beattie, who have helped us from start to finish, and without whom this conference simply would not have been possible.

ICPhS Satellite Meetings

Saturday 8 – Sunday 9 August 2015

DiSS 2015. Disfluency in Spontaneous Speech

Robin Lickley (Queen Margaret University)

Website: http://www.disfluency.org/DiSS_2015/DiSS_2015_home.html

Wednesday 12 August 2015

Building speaker-specific biomechanical tongue models: A practical guide

Susanne Fuchs, (ZAS Berlin)

Ralf Winkler (ZAS Berlin)

Pascal Perrier (GIPSA-lab Grenoble)

Lasse Bombien (USC Los Angeles)

Website: <http://www.icphs2015.info/upldretry/TongueModels.pdf>

The evolution of phonetic capabilities: causes, constraints and consequences

Hannah Little

Bart de Boer

Website: <https://ai.vub.ac.be/ICPhS>

Workshop on Developing an International Prosodic Alphabet (IPrA) within the AM framework

Sun-Ah Jun (University of California Los Angeles)

José Hualde (University of Illinois at Champaign-Urbana)

Pilar Prieto (ICREA-Universitat Pompeu Fabra)

Website: http://www.linguistics.ucla.edu/ipra_workshop/index.html

Workshop on Phonetic Learner Corpora

Jürgen Trouvain (Saarland University, Saarbrücken)

Frank Zimmerer (Saarland University, Saarbrücken)

Mária Gósy (Hungarian Academy of Sciences, Budapest)

Anne Bonneau (LORIA, Nancy)

Website: <http://www.ifcasl.org/workshop.html>

Workshop on Geminate Consonants across the World

Haruo Kubozono (National Institute for Japanese Language and Linguistics)

Shigeto Kawahara (Keio University)

Rachid Ridouane (CNRS/Sorbonne Nouvelle)

Website: http://pj.ninjal.ac.jp/phonology/IntlConference/gemcon_2015/010home_1/

Articulography: Practical use and exchange of experiences

Ulrich Szagun

Website: <http://www.articulograph.de/?p=1384>

Singing in Tone

James Kirby

Bob Ladd

Website: <http://www.lel.ed.ac.uk/~jkirby/song/>