Closing Ceremony Agenda

- ISCA Speech Prosody Special Interest Group (Daniel Hirst)
- Bids for Speech Prosody 2012
  - China (Hongwei Ding)
  - France (Philippe Martin)
  - The Netherlands (Carlos Gussenhoven)
- Speech Prosody 2010: Take-Home Messages
Take-Home Messages

- Explosion of Evidence
- Explosion of Applications
- Pre-Linguistic Universals
Experimental Approaches to Focus:

- Post-Focal Compression: Mandarin, Dutch, Korean, American English, Donegal English, Irish, Finnish
- Morphological or Other Mechanisms: Min, Cantonese, Akan, Sotho

Shape, Scaling, and Alignment of F0 Events:

- Scooping, doming, pitch range, pitch rise, plateau alignment and peak alignment: when is the phonetic also phonological?
Sign Language Prosodic Cues in First and Second Language Acquisition

- L1 and L2 signers use different prosodic systems when spontaneously narrating a Tweety-Sylvester cartoon
- Other speaking styles studied at the conference: child-directed speech, speech produced by children, knock-knock jokes, religious oratory, political speeches, controlled speech, radio speech, emotional speech (several different scales), human-human and human-machine dialogs (angry or otherwise...)

Narayanan, Ramanarayanan: Video MRI shows nasal coarticulation differences between spontaneous and read speech

- Other imaging methods studied at the conference: fMRI, EEG, EMG, intracranial evoked potentials; Video MRI, Video tracking of visible markers, EMA, EGG, EMG, oral airflow
Explosion of Applications

- Enriching Speech Engineering:
  - Annoyance detection
  - Speech-to-speech translation
  - Literacy tutors
- Computer-Aided Pronunciation Training and Prosody:
  - Lexical Tone: Only point out one mistake at a time, please!
  - Intonation: H-L% is hard to learn...
- Representations of Prosody in Computational Models
  - Prosody in Speech Technology is as useful as Phonemes in Speech Technology: reducing the dimension of the problem
  - Peer review for machine learning algorithms: Targeted cross-training corrects machine learning mistakes
  - Features matter: Garbage in, garbage out
Pre-Linguistic Universals

- Hidden Connections Between Linguistic and Musical Intonation
  - Amusia inhibits question/statement discrimination
  - Pomp & Circumstance is English; Clair de Lune is French
  - Torppa: children with cochlear implants better discriminate focal accent if their parents sing
  - Globerson: tone discrimination thresholds predict emotional prosody detection with $R^2=35\%$

- The Co-Evolution of Music and Language
  - Language = structured use of symbols, H. Sapiens
  - Language anatomy preceded symbolic language. H. Rudolfensis, H. Neanderthal used it for complex sung communication
  - Cvejic: Prosody off the top of the head (brow, blink, body)
  - But Brentari: gesture and sign language use different prosodic systems; gesture influences L2 sign language
Thank You: Conference Assistants

- Erin Cvejic
- Gopala Krishna Anumanchipalli
- Caroline Kaufhold
- Jun Gao
- Matt Benton
- Candise Chen
- Govind D.
- Hae-Sung Jeon
- C.C.L. Kaland
- Yong-Cheol Lee
- Chungsheng Yang
- Magdalena Jitca
- Rena Nemoto
- Marianna Nadeu
- Rachel Rae Benavides
- Clayton Franks
- Heather Pon-Barry
- Argyro Katsika
- Dora Hsin-Yi Lu
- Chen-Huei Wu
- Arthur Kantor
- Jui-Ting Huang
- Chi Hu
- Chen-Huei Wu
- Erin Rusaw
- Yoonsook Mo
Thank You: Scientific Committee

- The Speech Prosody Scientific Committee is a standing body of 118 experts, representing
  - 24 countries, on 6 continents
  - Social Sciences, Psychology, Medicine, Humanities, Engineering, and Computer Science
  - Ages ranging from 28 to 80
- All Scientific Committee members from previous conferences were invited to serve again in 2010
- New members of the Scientific Committee were nominated by the Organizing Committee to fill perceived gaps in expertise
Thank You:
Organizing Committee

- Ann Bradlow, Northwestern University
- Jennifer Cole, University of Illinois
- Karen Livescu, Toyota Technological Institute
- Janet Pierrehumbert, Northwestern University
- Chilin Shih, University of Illinois
Thank You... To The People Who Created This Conference...
Thank You To... The People Who Made this Conference Worth Attending...
... the authors.
See You in 2012!