CURRICULUM VITA

Susan Duncan Department of Psychology University of Chicago 5848 South University Avenue Chicago, IL 60637 USA Tel.: (773) 680-6132 Fax: (773) 702-4186 E-mail: deng@uchicago.edu

Professional Preparation		
University of Chicago	Ph.D., Psychology	1996
East Asian Languages Summer Institute	Adv. Chinese Comp. Cert.	1990
Goethe Insts., Rothenburg, Prien-am-Chiemsee, & Vienna	Kl. Deutches Sprachdiplom	1985
Albert-Ludwigs Universität Freiburg, Germany	semester in Linguistics	1984
Reed College	B.A., Psychology	1981

Current Position

Senior Staff Researcher, University of Chicago, Psychology Department. 2008-present

Postdoctoral Appointments

Center for Interdisciplinary Research, Research Fellow, Embodied Communication 2005-2007 Research Group, Bielefeld University, Bielefeld Germany.

University of Chicago, Research Associate & Lecturer, Psychology Department.		
Wright State University, Asst. Research Professor, Computer Sci. & Engin. Dept.	1999-2003	
National Yang Ming University, Taiwan, National Science Council Research and		
Teaching Fellow, Center for Cognitive Neuropsychology.	1998-2002	
Max-Planck Institute for Psycholinguistics, Cognitive Anthropology Research		
Group, Postdoctoral Fellow, Nijmegen, The Netherlands.		

Areas of research

Multimodal communicative dynamics related to interpersonal rapport and interpersonal deception in face-to-face interactions.

Complex language use in individuals with Idiopathic Parkinson Disease, comparing outcomes of habilitative behavioral therapies.

Discourse factors in combined gesture, speech, and prosody production; cross-language.

Theoretical issues in modeling language production processes in Embodied Conversational Agents.

Evaluation and design of tools for visualization, annotation, query and analysis of multi-modal language data.

Left and right brain hemisphere contributions to language production in healthy individuals and in individuals with brain damage; evidence from speech, speech prosody, and gesture.

Cross-language and developmental comparative analyses of gesture in relation to speech; Spanish, Mandarin Chinese, Arabic, and English.

Gestural dimensions of signed language use, with particular reference to natural Taiwan Sign Language.

Editorial Board: Gesture, John Benjamins Publishing Company.

Ad hoc Reviewer: Brain and Language, Cognitive Science, Discourse Processes, First Language, Gesture, International Journal of Semantic Computing, Journal of Experimental Social Psychology, Journal of Pragmatics, Journal of Speech, Language and Hearing Research, Language and Cognition, Language and Cognitive Processes, Language Resources and Evaluation, and Phenomenology and the Cognitive Sciences.

U.S. National Science Foundation, invited reviewer

Linguistics Program, Human Language and Communication Program, Human and Social Dynamics, Cyber-Enabled Discovery and Innovation.

National Science Council (NSC), Taiwan, Republic of China, invited referee

NSC Outstanding Research Award candidate applications.

Awards

Awarus		2005-2006		
German Research Council (DFG) Research Fellowship				
Taiwan National Science Council Post-Doctoral Fellowship				
Dewey Prize Lectureship, University of Chicago Social Sci	1995			
National Resource Foundation / Title VI full grant for Chin	ese language study	1990		
at Indiana University East Asian Summer Language Insti-				
FLEP / FLAS grant for Chinese language study				
Tuition scholarship, Middlebury College Chinese Language School				
University of Chicago full four-year graduate fellowship and living stipend				
Fulbright scholarship alternate candidate for research in West Germany				
West German government full scholarship for summer language study				
National Science Foundation Undergraduate Research Participation Grant				
Current and Durrious Funded Descende				
Current and Previous Funded Research				
<u>Title</u>	Funding Source	Dates		
Co-PI: Dyadic Rapport Within and Across Cultures:	NSF HSD	2008-2012		
Multimodal Assessment of Human-Human and Human-	BCS-0729515			
Computer Interaction. PIs: Gina-Anne Levow & David				
McNeill, University of Chicago				
Senior Researcher, Interactive Deception and its Detection	NSF HSD 0725762	2007-2011		
through Multi-modal Analysis of Interviewer-Interviewee				
Dynamics. PI: Judee Burgoon, University of Arizona.				
Sub-contractor, Efficacy of Voice Treatment for	NIH NIDCD	2002-2012		
Parkinson's Disease. PI: Lorraine Ramig, University of	5R01DC001150-14	2002 2012		
	5K01DC001150-14			
Colorado, Boulder and National Center for Voice and				
Speech, Denver, Colorado.		2006 2007		
Consultant: Creating Rapport. Development &	U.S. Army Research	2006-2007		
Engineering Command (RDECOM) contract.	W911NF-04-D-0005			
PI: Jonathan Gratch, USC Inst. Creative Technologies				
PI: A Comparison of Gesture in Signed and Spoken	Pacific Cultural	1999-2003		
Languages. Ref. No.SC7907	Foundation of Taiwar	1		
Co-PI: Cross-Modal Analysis of Signal and Sense:	NSF Knowledge and	1999-2003		
Multimedia Corpora and Computational Tools for	Distributed Intelligen			
Gesture, Speech, and Gaze Research. PI: Francis Quek,	BCS-9980054	••		
Wright State University Comp. Sci. & Engineering Dept.	Beb //00051			
	Spencer Foundation	1996-1998		
Motion Event Expression in Children, Adults, and	Spencer Foundation	1990-1998		
Bilinguals. PI: David McNeill, University of Chicago.				
Consulting				
University of Southern California, Institute for Creative Technologies, Mission				
Rehearsal Exercise Project. Analysis of gesture in conversational interaction.				
Northwestern University, School of Communication, ArticuLab, Workshop in				
Gesture Analysis.				

University of Rochester, Department of Clinical and Social Psychology, 2003 Workshop in Gesture Analysis.

Consulting (*continued*)

Gallaudet University, Department of Linguistics, Workshop in Gesture Analysis. 2000 Boston University, Advisor to the American Sign Language Linguistic Research 1999 Project on NSF-funded development of software for analysis of multimodal language behavior, <u>http://www.bu.edu/asllrp/SignStream</u>.

Ameritech Corporation, Human Factors Division

Service to the Professional Community

Advisory Board, International Conference on Gesture and Speech in Interaction (GESPIN): September, 2009 at the Centre for Speech and Language Processing, Adam Mickiewicz University, Poznan, Poland; <u>http://gespin.amu.edu.pl/gespin_old/?q=node/5</u>. September, 2011 at Bielefeld University, Center for Interdisciplinary Research (ZiF), Bielefeld, Germany; <u>http://gespin.uni-bielefeld.de</u>.

- Advisory Board, International Society of Gesture Studies 2010 biennial conference, preconference gesture analysis workshop, European University at Viadrina, Frankfurt an Oder, Germany, <u>http://www.isgs2010.de</u>.
- Organizer and Scientific Committee member, International Society of Gesture Studies 2007 biennial conference, Northwestern University, Evanston, IL, June, 2007, <u>http://www.music.northwestern.edu/isgs</u>.

Organizer, with competitive funding from the American Psychological Association, Festschrift Conference in Honor of David McNeill, University of Chicago, Chicago, IL, June, 2003, http://www.mcneilllab.uchicago.edu/events/fest/fest.html.

Organizer, International conference on Brain, Body, and Language, National Yang Ming University, Center for Cognitive Neuropsychology, Peitou, Taiwan, R.O.C., 2001.

Teaching Experience

Term	<u>University</u>	<u>Title</u>	Enrollment
Sum'09	U.C. Berkeley / LSA	Linguistic Institute, Gesture and Language	41
Spr'03	University of Chicago	Basic Techniques for Analysis of Speech and	1 2
& Win'0	3	Nonverbal Behavior	10
Spr'02	National Yang Ming	Brain Damage and Language	12
Spr'99	Univ., Taiwan, ROC	Psychology of Language	25
Spr'95	University of Chicago	Empirical Approaches to the Linguistic	10
1	<i>y c</i>	Relativity Hypothesis	
Aut'94	National Louis Univ.	English as a Second Language	18

Title of Thesis for Most Advanced Degree

Gestural indices of 'thinking-for-speaking' in Mandarin Chinese and English

Publications

Duncan, Susan and Loehr, Daniel (in prep.). Discourse factors in gesture and speech prosody.

- Duncan, Susan, Esposito, Anna, Rohlfing, Katherina, et al. (in prep.). Gesturing compared across languages and cultures: Some implications for language theory.
- McNeill, David, Duncan, Susan, Franklin, Amy, et al. (2010). Mind-merging. In E. Morsella (Ed.), *Expressing oneself / expressing one's self: Communication, language, cognition, and identity*, 143-164. London: Taylor and Francis.

McNeill, David, Quaeghebeur, Liesbet, and Duncan, Susan (in press). IW—"the man who lost his body". In S. Gallagher and D. Schmickin (Eds.), *Handbook of phenomenology and cognitive sciences*. Berlin: Springer Verlag.

McNeill, David and Duncan, Susan D. (2011). Gestures and growth points in language disorders. In J. Guendouzi, F. Loncke, and M. J. Williams (Eds.), *The handbook of psycholinguistic and cognitive processes: Perspectives in communication disorders*, pp. 663-685. LEA/Taylor and Francis.

1992

Publications (continued)

- Duncan, Susan (2008). Gestural imagery and cohesion in normal and impaired discourse. In I. Wachsmuth, M. Lenzen, and G. Knoblich (Eds.), *Embodied communication in humans and machines*, 305-328. Oxford: Oxford University Press.
- Sowa, Timo, Kopp, Stefan, Duncan, Susan, McNeill, David, and Wachsmuth, Ipke (2008). Implementing a non-modular theory of language production in an embodied conversational agent. In I. Wachsmuth, M. Lenzen, and G. Knoblich (Eds.), *Embodied communication in humans and machinese.*, Oxford: Oxford University Press.
- Schmidt, Thomas, Duncan, Susan, Ehmer, Oliver, Hoyt, Jeffrey, Kipp, Michael, Loehr, Dan, Magnusson, Magnus, Rose, Travis, Sloetjes, Han (2008). An exchange format for multimodal annotations. In *Proceedings of the 6th language resources and evaluation conference*, Marakech, May 2008.
- McNeill, David, Duncan, Susan, Cole, Jonathan, et al. (2008). Growth points from the very beginning. In Michael Arbib and Derek Bickerton (Eds.), *Holophrasis, compositionality, and protolanguage*, special issue of the journal *Interaction Studies*, 9(1):117-132
- Duncan, Susan D., Cassell, Justine, and Levy, Elena T. (Eds.) (2007). *Gesture and the dynamic dimension of language*. Amsterdam / Philadelphia: John Benjamins.
- Duncan, Susan and Pedelty, Laura (2007). Discourse focus, gesture, and disfluent aphasia. In S.
 D. Duncan, J. Cassell and E. T. Levy (Eds.), *Gesture and the dynamic dimension of language*, pp. 269-284. Amsterdam / Philadelphia: John Benjamins
- Rohlfing, Katharina, Loehr, Daniel, Duncan, Susan, et al. (2006). Comparison of multimodal annotation tools: Workshop report. *Gesprächsforschung*, <www.gespraechsforschung-ozs.de>.
- Duncan, Susan (2006). Co-expressivity of speech and gesture: Manner of motion in Spanish, English, and Chinese. In *Proceedings of the 27th Berkeley Linguistic Society Annual Meeting*, pp.353-370. Berkeley, CA: Berkeley University Press.
- Duncan, Susan (2006). Invited review of Geoffrey Beattie (2003), Visible Thought: The New Psychology of Body Language. Gesture, 6(1):103-118.
- Duncan, Susan (2005). Gesture in signing: A case study in Taiwan Sign Language. Language and Linguistics, 6(2):279-318.
- McNeill, David and Duncan, Susan (2005). Review of Scott Liddell (2003), Grammar, Gesture and Meaning in American Sign Language. Sign Language Studies, 5(4):506-523.
- Duncan, Susan (2003). Gesture in language: Issues for sign language research. In Karen Emmorey (ed.), *Perspectives on Classifier Constructions*, pp.259-268., Mahwah, NJ: Lawrence Erlbaum Associates.
- Esposito, Anna, Natale, Antonio, Duncan, Susan, et al. (2003). Speech and gesture pauses relationships: A hypothesis of synchronization (in Italian). In *Proceedings of the 5th National Conference on Italian Psychology*, pp. 95-98. Bari, Italy: AIP, Graphica80-Modugno.
- Esposito, Anna, Duncan, Susan, and Quek, Francis (2002). Holds as gestural correlates to empty and filled pauses. In In J. H. L. Hansen and B. Pellom (Eds.), *Proceedings of the International Conference on Spoken Language Processing* (ICSLP'02), pp. 541-544. Rundle Mall, S.A. Australia: Causal Publications.
- Valbonesi, Lucia, Ansari, R., Duncan, S., McCullough, K.-E., McNeill, D. and Quek, F. (2003). Detection of focal points in speech prosody. *Proceedings of the European EUSIPCO 2002 Conference*, Toulouse, France, September, 2002.
- Duncan, Susan (2002). Gesture, verb aspect, and the nature of iconic imagery in natural discourse. *Gesture*, 2(2):183-206.
- Duncan, Susan (2002). Preliminary data on effects of behavioral and levodopa therapies on speech-accompanying gesture in Parkinson Disease. In J. H. L. Hansen and B. Pellom (Eds.), *Proceedings of the International Society of Speech and Language* (ICSLP'02), Denver, USA, pp. 2481-2484. Rundle Mall, S.A. Australia: Causal Publications.

Publications (continued)

- McNeill, David and Duncan, Susan (2000). Growth points in thinking-for-speaking. In D. McNeill (Ed.), *Language and Gesture*, pp.141-161. Cambridge, Engl.: Cambridge University Press.
- McNeill, David, Quek, F., McCullough, K.-E., Duncan, Susan, Furuyama, N., Bryll, R., Ma, X.-F., & Ansari, R. (2001). Catchments, prosody and discourse. *Gesture*, 1:9-33.
- Quek, Francis, McNeill, David, Ansari, R., Ma, X., Bryll, R., Duncan, Susan, and McCullough, K-E. (1999). Gesture cues for conversational interaction in monocular video. In *ICCV'99 Workshop on Rec., Anal. & Tracking of Faces & Gestures in R.T. Systems* (pp.64–69). Corfu, Greece, Sept. 1999.
- Duncan, Susan (1999). Language and Communication. In R.A. Wilson and F.C. Keil (Eds.), *The MIT Encyclopedia of the Cognitive Sciences* (pp.439-441). Cambridge, MA: MIT Press.
- Duncan, Susan, McNeill, David and McCullough, Karl-Erik (1995). How to transcribe the invisible and what we see. *KODIKAS / CODE Ars Semiotica*,18(1-3):75-94.
- Huttenlocher, Janellen, Hedges, Larry, and Duncan, Susan (1991). Categories and particulars: prototype effects in estimating spatial locations. *Psychological Review*, *98*(3):352-376.

Invited Talks, Symposia, Short Courses & Workshops, and Refereed Conference Presentations

- Dix, Amy, Duncan, Susan, Loehr, Daniel, and Burgoon, Judee (2011). Evolution of interaction patterns in a game of strategy involving deception. Invited presentation as part of the symposium: Temporal Statistical Pseudo-Fractals and Translation Symmetry: The T-system and the Detection of Hidden Temporal Structure in Behavior and Interactions, Magnus S. Magnusson, organizer. At the Society for Chaos Theory in Psychology & Life Sciences 21st Annual Conference, Orange, California, August, 2011.
- Baldenebro, Tizziana, Dix, Amy, Duncan, Susan (2011). Narrative, metanarrative, and paranarrative levels of discourse in speech and gesture: A comparison of Mexican Spanish and American English 'Pear film' narrations. Presentation at the Illinois Language and Linguistics Society Annual Conference, University of Illinois Urbana Champaign, April, 2011.
- Duncan, Susan, Baldenebro, Tizziana, Lawandow, Atoor, and Levow, Gina-Anne (2010). Multimodal analysis of interactional rapport in three language/cultural groups. Poster presentation at the Neural Information Processing Systems Annual Conference, Workshop on Human Communication Dynamics, Louis-Phillipe Morency, Nigel Ward, and Daniel Gatica-Perez, organizers, Whistler, B.C., Canada, December, 2010.
- Levow, Gina-Anne, Duncan, Susan, and King, Edward (2010). Cross-cultural investigation of prosody and verbal feedback in interactional rapport. Presentation at Interspeech 2010, the Annual Conference of the International Speech Communication Association, Makuhari, Japan, September, 2010.
- Duncan, Susan (2009). Invited conference keynote speaker, Gesture and speech prosody, at GESPIN 2009: Gesture and Speech in Interaction, Poznan, Poland, September, 2009.
- Duncan, Susan (2009). Gesture and Language. Invited 3-week short course at the Linguistic Society of America Summer Linguistic Institute, July-August 2009, University of California at Berkeley.
- Duncan, Susan (2008). Invited keynote speaker, Deaf-Blind International Conference 2008: Co-Creating Communication with Persons with Congenital Deafblindness: Theory and Practice. Leeds, England, October 2008.
- Duncan, Susan (2008). Invited speaker, Gesturing compared across cultures and contexts: Some implications for language theory. At the International School, Multimodal Signals Theoretical and Algorithmic Issues. COST Action 2102, International Institute for Advanced Scientific Studies, Vietri sul Mare, April 2008.
- Duncan, Susan (2008). Invited seminar, I. Gesture and prosody in natural language use; II. Implications of gesture-speech synchrony for psycholinguistic theory. For the Gesture Focus Group, SUNY Stony Brook, April 11-12.

Invited Talks, Symposia, and Refereed Conference Presentations (continued)

- Duncan, Susan, and Rohlfing, Katharina (2007). Workshop organizer: Choosing among tools for annotation and analysis of multimodal language. International Society of Gesture Studies conference, Northwestern University, Evanston, IL, June 2007.
- Loehr, Dan, Duncan, Susan, and Rose, Travis (2007). Workshop organizer: Annotation Interchange among Multimodal Annotation Tools. ISGS conference, Northwestern University, Evanston, IL, June, 2007.
- Duncan, Susan (2006). Invited speaker, Discourse factors in gesture production. Embodied Communication II: An Integrated Perspective, conference at the Center for Interdisciplinary Research, Bielefeld University, Bielefeld, Germany, September, 2006.
- Duncan, Susan, Loehr, Daniel, and Parrill, Fey (2005). Discourse factors in gesture and speech prosody. Paper presented at Interacting Bodies Corps en Interaction, The 2nd Conference of the International Society fo Gesture Studies, Lyon, France June 2005.
- Duncan, Susan, Gallagher, Shaun, and Goss, James (2005). Panel organizer: Gesture, affect, and time in language: A neurophenomenological approach to psychotic and other non-aphasic language disorders. Interacting Bodies Corps en Interaction, The 2nd Conference of the International Society for Gesture Studies, Lyon, France June 2005.
- Loehr, Daniel, Duncan, Susan, and Rohlfing, Katharina (2005). Workshop organizer: Comparison of multi-modal annotation tools. Interacting Bodies – Corps en Interaction, The 2nd Conference of the International Society for Gesture Studies, Lyon, France June 2005.
- Grahe, Jon and Duncan, Susan (2005). Symposium organizer: Studying dyadic interactions and rapport: "Thin-slice" and multi-modal discourse analyses. Midwest Psychological Association Annual Meeting, Chicago, IL, May 2005.
- Duncan, Susan (2005). Invited speaker, Spatio-motor and temporal imagery in language: Gesture and cohesion in normal and impaired discourse. Embodied Cognition in Humans and Machines: A Research Agenda. Bielefeld University, Bielefeld, Germany, January 2005.
- Duncan, Susan (2004). Symposium organizer: Cognitive Processing Effects of 'Social Resonance' in Interaction. Cognitive Science Society Annual Meeting, Chicago, IL, August, 2004.
- Duncan, Susan (2004). Invited speaker, Cognitive processing effects of 'social resonance' in interaction. Center for Interdisciplinary Research (ZiF) Workshop on Alignment in Communication, University of Bielefeld, Bielefeld, Germany, July 2004.
- Duncan, Susan (2004). Invited Presentation: Gesture mechanics and meaning. Co-Organizer: NSF-sponsored workshop: Accelerating Progress in Perceptive Animated Interfaces and Virtual Humans, Del Mar, CA, April, 2004.
- Duncan, Susan (2003). Invited discussant, Panel on Metaphor and Gesture (C. Mueller and A. Cienki, Organizers), The8th International Cognitive Linguistics Conference, Universidad de la Rioja, Logroño, Spain, July, 2003.
- Duncan, Susan (2002). Invited presentation: Left- and right-brain hemisphere contributions to speech-gesture production. Conference on The Multimodality of Human Communication, University of Toronto, Victoria College, May 2002.
- Duncan, Susan (2001). Invited seminar. Gesture in language. Tai Dong University Department of Special Education, Taiwan, May, 2001.
- Duncan, Susan (2001). Invited speaker: Co-speech gesture and main verbs in three languages: Implications for the 'verb problem' in dysfluent aphasia. Berkeley Cognitive Sciences symposium series, University of California at Berkeley, February, 2001.
- Duncan, Susan (2001). Invited Plenary Speaker: Co-expressivity of speech and gesture: Manner of motion in Spanish, English, and Chinese 27th annual meeting of the Berkeley Linguistic Society Annual Meeting, University of California at Berkeley, February, 2001.
- Duncan, Susan (2000). Gesture in language: Issues for sign language research. Invited discussant at the Salk Institute Symposium on Classifier Constructions in Sign Languages, La Jolla, CA.

Invited Talks, Symposia, and Refereed Conference Presentations (continued)

- Duncan, Susan (1999). Observations of combined speech and gesture concerning child linguistic development of reference of action. Invited contribution to the symposium on "Speech and gesture: An enhanced window onto the mind," Prof. Gale Stam, organizer. American Association for Applied Linguistics Annual Conference, Stamford Connecticut, USA, March, 1999.
- Duncan, Susan (1998). Evidence from gesture for a conceptual nexus of action and entity. Presentation at the 4th Conference on Conceptual Structure, Discourse, and Language, Emory University, Atlanta, Georgia, October, 1998.
- Duncan, Susan (1998). Gestures in relation to speech: Clues to discourse processes in Chinese and English. Presentation at the Biennial Meeting of the Society for Text and Discourse, University of Wisconsin at Madison, Wisconsin, July, 1998.
- Duncan, Susan (1997). Invited panelist, An alternative view to gesture as an expressive resource. Embodied Thought, Jürgen Streeck, Chair, Annual Convention of the Speech Communication Association, December, 1997.
- Duncan, Susan (1997). Invited presentation, A case study of grammaticization in Mandarin Chinese: Evidence from gesture for the constituent structure of spoken utterances. Constituency Symposium, U.C. Santa Barbara Linguistics Department, Santa Barbara, CA, June, 1997.
- Duncan, Susan (1997). Clues from speech-accompanying gesture to a process of grammaticization underway. Presentation at the Chicago Linguistics Society Annual Meeting, Chicago, IL, April, 1997.
- Duncan, Susan (1996). Invited presentation, Gestures in relation to speech in Mandarin Chinese and English: clues to the organization of utterances and discourse. National Chung Cheng University, Chia-Yi, Taiwan, December, 1996.
- Duncan, Susan (1996). The role of rhythm in the evolution of human language. Presentation at the First Biennial Evolution of Human Language Conference, University of Edinburgh, Edinburgh, April, 1996.
- Duncan, Susan (1995). Evidence from gesture for differences in discourse structure in topicprominent Mandarin Chinese versus subject-prominent English. Presentation at the Conference on Cognitive Processing in Chinese Languages, Chinese University of Hong Kong, Hong Kong, December, 1996.
- Duncan, Susan (1995). Rhythm and human language. Presentation at the Language Origins Society Annual Meeting, Pécs, Hungary, July, 1995.
- Duncan, Susan (1994). Cross-language and cross-typological comparison of conceptual representations related to grammatical form. Paper presented at the Fourth International Symposium on Chinese Languages and Linguistics at the Academia Sinica, Nankang, Taipei, Taiwan, July, 1994.
- Duncan, Susan and Singleton, Jenny (1993). The linguistic and conceptual representation of verb aspect: a comparison of speech and gesture in English and Mandarin Chinese speakers. Symposium presentation for "Hands across the water: Cross-language research on gesture," at the American Psychological Society Annual Meeting, Chicago, June, 1993.
- McCullough, K-E. and Duncan, Susan (1993). Invited symposium presentation, Gesture and linguistic typology in Mandarin Chinese and English. Cross-linguistic Gesture Research, Adam Kendon, Chair, at the Linguistic Society of America Annual Meeting, Los Angeles, 1993.
- Duncan, Susan (1992). The conceptual representation of temporal aspect in English and Mandarin Chinese: gestural indices. Presentation at the Annual Conference of the Linguistic Society of Belgium, Antwerp, Belgium, November, 1992.