

Kurzbiographie: Jürgen Hellbrück, Univ.-Professor, Dr. phil.

Jahrgang: 1950

Fach: Psychologie

Beruflicher Werdegang:

- 1971-1976: Studium Diplom-Psychologie; Lehramt für Grund- und Hauptschulen an der Universität Würzburg
- 1978: Promotion an der Universität Würzburg
- 1979-1986: Wiss. Assistent am Institut für Allgemeine Psychologie d. Universität Würzburg
- 1986: Habilitation
- 1986-1988: Stipendium von JSPS/AvH am Laboratory of Auditory Perception der Universität Osaka (Gastgeber: Prof. Dr. Seiichiro Namba)
- 1988-1991: Professurvertretungen an der Universität Oldenburg und der Universität Konstanz
- seit 1991: Kath. Universität Eichstätt-Ingolstadt (Professur für Arbeits-, Umwelt- und Gesundheitspsychologie)

Preise, Stipendien, Forschungsaufenthalte

- 1984 Preis des Universitätsbundes Würzburg (zusammen mit Dipl.Ing. L. Moser, HNO-Universitätsklinik Würzburg): Vorstellung eines audiometrischen Verfahrens zur Hörgeräteanpassung in USA (v.a. Central Institute for the Deaf und Washington University, St Louis)
- 1985 Stipendium der Jubiläumstiftung zum 400-jährigen Bestehen der Universität Würzburg: Dreiwöchiger Forschungsaufenthalt in Osaka (Japan) zum Thema „Computergesteuerte Hörgeräteanpassung mittels Lautheitsskalierung“
- April-Dezember 1999 Fellow des Hanse-Wissenschaftskollegs in Delmenhorst
- 2005 Einladung der Robert Bosch GmbH (Stuttgart) zu einem 6-monatigen Forschungsaufenthalt

Japanaufenthalte

- 1986-1988 Postdoc-Stipendiat am Laboratory of Auditory Perception der Universität Osaka (Gastgeber: Prof. Dr. Seiichiro Namba; Laboratory of Auditory Perception); (JSPS/AvH)
- August-Oktober 1994 Gastprofessur an der Universität Osaka (Gastgeber: Prof. Dr. Seiichiro Namba; Laboratory of Auditory Perception); (DAAD/JSPS)
- April-Mai 1996 Gastforscher an der Universität Osaka (Gastgeber: Prof. Dr. Seiichiro Namba; Laboratory of Auditory Perception); (JSPS/AvH)
- April 2000 Gastforscher an der Universität Osaka (Gastgeberin: Prof. Dr. Sonoko Kuwano, Department of Environmental Psychology), (DAAD/JSPS)

Biographical notes: Sonoko Kuwano

Sonoko Kuwano is a Professor of the Laboratory of Environmental Psychology, Graduate School of Human Sciences, Osaka University. She is also a Professor of the Department of Environmental Engineering, Graduate School of Engineering, Osaka University.

She graduated from Osaka University with a B.A. degree in Psychology in 1967, and received a Ph.D. in Engineering in 1983 from the University of Tokyo.

Her interests are psychological evaluation of environmental noise, cross-cultural study of noise problems, evaluation of sound quality of machinery noise and perception of non-steady state sounds.

She was a guest researcher of the Institute of Electroacoustics (Institute of Man-Machine Communication) at the Technical University of Munich in 1985, 1988, 1990, 1993, 1995 and 1997.

She is a member and Secretary General of Board of International Commission for Acoustics and a member of Board of International Union of Psychological Science. She is a fellow of the Acoustical Society of America. She was the President of the Acoustical Society of Japan (ASJ), the Vice-President of INCE/Japan and the President of Japanese Society for Music Perception and Cognition.

She has many experiences in organizing international congresses, e.g. Secretary General of ICA2004, Editor of Proceedings of Inter-noise 94, etc., Coordinator of EAA/ASJ Joint Symposium in 2002 and Chair of Technical Program Committee of International Congress on Empirical Aesthetics in 2002.

Also she was a member of International Advisory Board of Inter-noise 98, 2000 and 2003. She is Co-President of Inter-noise 2006. She gave a plenary lecture at Inter-noise 2000 and a keynote lecture at ICA2001 and SOAS2004.

She has been a member of many committees on environmental problems in central or local governments in Japan, such as the Ministry of the Environment, the Ministry of Land, Infrastructure and Transport, Osaka Prefecture, etc. She has helped to settle many disputes between neighbours over noise as a member of the Environmental Dispute Coordination of Osaka Prefecture.

She won a Sato Paper Prize of ASJ in 1983 and 1987.



Jürgen Hellbrück
Katholische Universität Eichstätt
Abteilung Psychologie, 85071 Eichstätt
[juergen.hellbrueck \[at\] ku-eichstaett.de](mailto:juergen.hellbrueck@ku-eichstaett.de)



Sonoko Kuwano
Osaka University, Graduate School of Human Sciences
1-2 Yamadaoka, Suita, Osaka, 565-0871 Japan
[kuwano \[at\] env.eng.osaka-u.ac.jp](mailto:kuwano@env.eng.osaka-u.ac.jp)

Psychological Acoustics: Sound in Human Environment

Jürgen Hellbrück and Sonoko Kuwano

Wherever we are, we are surrounded with sound. Some sounds are important signals. Other sounds are irrelevant and undesirable. Unwanted sound is called noise. Noise is an increasing environmental problem.

First, Jürgen Hellbrück introduces into research about the effects of irrelevant sound on cognitive performance.

Second, Sonoko Kuwano will report on subjective evaluation of sound and noise.

Both contributions will focus on aspects of temporally varying sounds. Most of the sounds in our environment are varying with time. Temporally varying sounds have specific effects on short-term memory. Especially irrelevant background speech and certain non-speech sounds such as staccato music impair significantly verbal short-term memory. We have carried out a joint experimental study on effects of irrelevant background speech on verbal short-term memory. Moreover, it is important to investigate about the perception of temporally varying sounds. Our joint study of the loudness of such non-steady state sounds is introduced from two viewpoints; one is the loudness of non-steady state sounds with fairly short duration, i.e. about 10 sec in relation to physical metrics and loudness scaling. The other is the loudness of long-term sounds in relation to memory.