>>> Go back to Table of Contents <<<

1p - MONDAY AFTERNOON, 15 MARCH 1999

1pAA	Architectural Acoustics: Concert & Opera Halls; Case Studies of New Halls; Opera Houses
1PAA1	Yoichi Ando, Yukio Suzumura, Itaru Yamamoto Acoustic design of the Tsuyama-Music Cultural Hall based on the preference theory
1PAA2	Russell Johnson, Eckhard Kahle The new Konzertsaal of the KKL Center, Lucerne, Switzerland. I. Acoustics Design
(no paper)	The new Konzertsaal of the KKL Center, Lucerne, Switzerland. II Preliminary acoustical measurements
(no paper)	The acoustics evolution of Chicago's Orchestra Hall: A case study
(no paper)	Yokohama Minato Mirai Hall
1PAA6	Henrik E. Möller, Tapio Lahti Acoustical design of the Marienkirche concert hall, Neubrandenburg
(no paper)	Festspielhaus Bayreuth-The unique acoustic situation
1PAA8	Nicola Prodi, Patrizio Fausti, Roberto Pompoli Acoustics of opera houses: A cultural heritage
(no paper)	New subjective and objective data on 20 opera houses of the world
1PAA_10	Robert Harris Acoustic considerations in the redevelopment of the Royal Opera House, London
1PAA_11	Lamberto Tronchin, Maria Luisa Vaccari Acoustic quality in the Theatre "PalaFenice", Venice
(no paper)	Orchestra shells: Acoustical and practical design considerations
(no paper)	Acoustical modifications of the interior design of a 50' chapel (Poster)
1PAA_14	Bojan Ivančević, Hrvoje Domitrović, Siniša Fajt The acoustical properties of large studios (Poster)
1PAA_15	Lamberto Tronchin, Valerio Tarabusi The sound quality of the Theatre Comunale in Treviso, Italy (Poster)

1pABAnimal Bioacoustics:Animal Electrophysiological Acoustics

"Internal spectra" in the dolphin's auditory system obtained by a minimal-masking technique (no paper) 1PAB___2 Iris Poganiatz, Hermann Wagner, Israel Nelken, Gilad Jacobson Effect of removing physiologically relevant sound-localization parameters on tuning properties of barn owl tectal neurons (no paper) Temperature effects on the auditory system: An amphibian case history Lateral inhibition in frequency tuning of central auditory neurons (no paper) Paradoxical lateral suppression in the dolphin's auditory system (no paper) Analysis of the role of inhibition in shaping responses to sinusoidally amplitude modulated signals (no paper) in the auditory system Measurement of impulse noise-induced temporary threshold shift in endangered and protected (no paper) animals--two case studies

1pEAEngineering Acoustics:
3D Loudspeaker Reproduction Methods

1PEA1	P. A. Nelson, O. Kirkeby, Y. Kahana, T. Takeuchi, P. A. Hill, H. Hamada Factors in the performance of systems for the production of virtual acoustic environments
(no paper)	Creating virtual surround using dipole and monopole pressure fields
1PEA3	Marinus M. Boone, Diemer de Vries Spatial sound reproduction with wave field synthesis
1PEA4	Holger Strauss, Jörg Buchholz Comparison of virtual sound source positioning with amplitude panning and Ambisonic reproduction
(no paper)	Modification of electrodynamic loudspeakers for 3D spatialization
(no paper)	Sound focusing in reverberating rooms: The time reversal approach
(no paper)	Algorithm for the design of broadband, constant-beamwidth, point-element linear arrays with constant sidelobe level
1PEA8	Daniela L. Manger A sound transducer with a flat, flexible diaphragm working with bending waves
1PEA9	Armin Jost, Reiner Kressmann FEM and semianalytical simulations of horn loudspeakers and their experimental verification
1PEA_10	M. Schinnerl, H. Landes, R. Lerch, J. Schöberl, M. Rausch New numerical simulation tool for the design of electromagnetic transducers
1PEA_11	Andrzej B. Dobrucki, Piotr Pruchnicki Determination of structure of NARMAX model for dynamic loudspeaker using orthogonal algorithm
(no paper)	A proposal to adopt Maxwell distribution as a measure of acoustic field diffuseness in a reverberation room

1pED Education in Acoustics: Acoustics Education 2000

(no paper)	Acoustics education in France: Past, present and future	
1PED2	Edward Hojan Survey of the university institutions teaching acoustics in Poland	
(no paper)	Acoustics education in the Low Countries	
1PED4	Peter Költzsch State and trends of acoustics education in Germany	
(no paper)	Acoustics education in Ukraine	
(no paper)	Education in acoustics: The Italian experience	
1PED7	Manuel Recuero López, Constantino Gil, Antonio Mínguez Education on acoustics in Spain and Latin America	
1PED8	C. G. Rice UK education in Acoustics	
(no paper)	Education in acoustics: Fundamentals and peculiarities	
1PED10	Thomas D. Rossing Acoustics: A route to science literacy in the 21st century	

1pMU Musical Acoustics: Sound Production of Wind Instruments

1PMU1	James W. Beauchamp A comparison of wind instrument time-variant spectra
(no paper)	Sound production of flue organ pipes
(no paper)	Sound production in flue instruments: A review
(no paper)	A Rayleigh wave model for the lip reed: Qualitative aspects
(no paper)	Self-excitation in woodwinds: From a particular model to a generic model
1PMU6	Tohru Idogawa Some comments on the artificial blowing of the woodwind instruments
(no paper)	Differences between cylindrical and conical reed instruments
(no paper)	A complete period doubling cascade on a cromorn
1PMU9	James P. Cottingham, C. Joseph Lilly, Christopher H. Reed The motion of air-driven free reeds
(no paper)	[cancelled; discussion or break]
(no paper)	Blowing and breathing in the woodwinds: Generation and control of input parameters
(no paper)	Swiss horns and their harmonicity

1pNSa Noise: Urban Noise and Soundscapes

1PNSA_1	Joachim Vogt, Karl Th. Kalveram Trading level for number of aircraft immissions: A full-factorial laboratory design
(no paper)	Calculation of noise contours for Belgian airports
1PNSA_3	J. Pons, J. S. Santiago Normalized noise spectra of aircraft take-off and landing operations
1PNSA_4	Fernando J. Elizondo-Garza Noise problems, savage approaches. From "just forget it" to physical violence
1PNSA_5	Catherine M. Stewart Can population density be used to determine ambient noise levels?
(no paper)	[cancelled; discussion or break]
1PNSA_7	Ana María Verzini, Carlos Antonio Frassoni, Aldo Hugo Ortiz Skarp A field research about effects of low frequency noises on man
1PNSA_8	Karl Theodor Kalveram, Juergen Dassow, Joachim Vogt How information about the source influences noise annoyance
(no paper)	Use of immersive sound in museum exhibition
1PNSA_10	Patrick Susini, Valérie Maffiolo Loudness evaluation of urban soundscapes by a cross-modal matching method
1PNSA_11	Valérie Maffiolo, Michèle Castellengo, Danièle Dubois Is pleasantness for soundscapes dimensional or categorical?
1PNSA_12	Marianna Mirowska Assessment of low-frequency noise in dwellings. New Polish recommendations (Poster)

1pNSbNoise:
Noise from Air-Conditioning, Ventilating and Industrial Fans1PNSBW.T.W. Cory

111(50_1	Fan noise induct sound power - What are we measuring and why?
1PNSB_2	Frank Arnold, Wolfgang Neise In-duct fan sound power measurement. Part I: Review of general problem
1PNSB_3	Wolfgang Neise, Frank Arnold In-duct fan sound power measurement. Part II: Revision of ISO 5136
(no paper)	Numerical method and software package for prediction of pressure pulsation in centrifugal ventilators
(no paper)	Modeling centrifugal fan blade trailing edge noise
1PNSB_6	J.G. Lalanne, M. Åbom, H. Bodén Aeroacoustic response of a six-bladed fan to installation effects
1PNSB_7	M. Stremel, Th. Carolus Experimental determination of the fluctuating pressure on a rotating fan blade
(no paper)	[cancelled; discussion or break]
(no paper)	Experimental investigation of noise sources in cross-flow fans
1PNSB_10	Ondřej Jiříček, Petr Koníček Practical approach to ANC of fan noise with feedback compensation
1PNSB_11	Vadim I. Tokarev, Oleksander I. Zaporozhets Noise from airborne conditioning system
1PNSB_12	Volkmar Weise Rotational noise generation in peripheral fans (Poster)
(no paper)	Experiences with attenuation of low frequency noise in duct (Poster)

1pNSc Noise: Railway Noise I

1PNSC_1	David J. Thompson, Chris J. C. Jones, Guillaume de France The effects of rail support stiffness on railway rolling noise
(no paper)	Time domain simulation of railway noise
1PNSC_3	Steffen Müller, Klaus Knothe Short pitch corrugation on straight tracks - Theory and numerical simulation
(no paper)	On the determination of dynamic properties of elastic rail fastenings
(no paper)	Reduction of groundborne noise from rail systems
1PNSC6	Jan Lub The Quiet Rail Traffic (STV) Project. Part 2 - Demonstrating practical low noise solutions
1PNSC_7	Peter Fürst The real sound emission of "Rasengleis"
(no paper)	Structure-borne noise reduction in a railway tunnel in Cologne by means of a ballastless mass- spring-system type Zublin with discrete Sylodyn bearings and dynamically soft ylodyn ballast mats
1PNSC_9	Thomas Klimpel, Klaus Knothe Short pitch corrugation on straight tracks - practical experiences
1PNSC_10	P.F. van Tol A reciprocal method to evaluate low, close to track noise barriers

1pNSd Noise: Airframe Noise

(no paper)	The "Owl" as a	challenge in	airframe	noise research

- (no paper) Airbus airframe noise reduction A European harmonized research effort
- (no paper) Directivity of flap side-edge noise as observed with a phased microphone array on landing aircraft
- (no paper) Simulation of acoustic scattering from a trailing edge

1pNSe Noise: Jet Acoustics

(no paper)	The noise spectrum of isotropic turbulence
(no paper)	Jet noise of subsonic aircraft. An aeroengine manufacturer's perspective
(no paper)	Industry perspective on jet noise-Prediction and reduction requirements
(no paper)	[cancelled; discussion or break]

1pPAa Physical Acoustics: Scattering

1PPAA_1	U.R. Kristiansen, N. Brachet Scattering from simple shape bodies using the TLM technique
(no paper)	Space-wave number representation of transient waves. Experimental determination of the space location origin of Lamb waves on cylindrical shells
1PPAA_3	Naum Veksler, Jean-Louis Izbicki, Jean-Marc Conoir Scattering by cylindrical shells: The Scholte-Stoneley wave nature
(no paper)	Sound scattering by Gauss beam from by cylindrical objects
(no paper)	Scattering from cylindrical structures with various end-cap shapes
1PPAA_6	Marc Deschamps, Olivier Poncelet Complex poles of Lamb waves propagating along anisotropic and absorbing fluid-loaded plates
1PPAA_7	Guy Durinck, Willy Thys, Pascal Rembert, Jean-Louis Izbicki Experimental determination of the angular width of plate modes
1PPAA_8	Mitsuhiro Ueda Wedge diffraction analyzed by localized response function of boundary value problem
1PPAA_9	J. L. Horner, R. Lyons, B.A.T. Petersson Approximation for scattering from orifices

1pPAbPhysical Acoustics:
Ultrasonic Non-Destructive Evaluation and Time Reversal Techniques

	1
(no paper)	Reflection coefficient of a Stonely-Scholte wave: An experimental investigation
(no paper)	Characterization of bonding quality of composites with nonlinear modulation method
(no paper)	Sound scattering and transmission through cylindrical layer with concentrated defects
1PPAB_4	Nazir Chebbo, Noëlle Mercier Modeling of ultrasonic wave interaction with alumina and silica inclusions in steel
(no paper)	Depth profiling of residual stress in steel by laser ultrasonics
1PPAB_6	N. Ouarradi, B. Piwakowski Measurement of pulsed velocity field generated by circular and rectangular piezoelectric transducer directly coupled to a bloc of aluminium
(no paper)	Quality assessment of adherent and fusion-welded joints in silicon wafers by nonlinear ultrasound
1PPAB_8	Bruno Morvan, Alain Tinel, Jean Duclos, Hugues Duflo Ultrasonic weld testing using the laser vibrometer detection of a time reversed A-wave
(no paper)	One bit time-reversal through high order multiple scattering media
(no paper)	Characterization of time reversed elastic waves in ergodic billiards
(no paper)	Backscattering time-reversal of acoustic waves in random media
1PPAB_12	T. Niederdraenk, R. Thaden A correlation-measuring-system for ultrasonic NDT using maximum length sequences (Poster)

1pPAc Physical Acoustics: Nonlinear Acoustics

1PPAC_1	Sigve Tjøtta Higher order effects in finite amplitude sound fields
(no paper)	Modeling and simulating finite-amplitude propagation through time-varying inhomogeneous absorbing media
1PPAC_3	Shigemi Saito Second harmonic component in the focused ultrasound transmitted through a weakly dispersive liquid layer
1PPAC_4	Grażyna Grelowska, Eugeniusz Kozaczka, Grażyna Łypacewicz Investigation of nonlinear wave distortion in a focal and post focal region of focused sound field
1PPAC_5	Sergei N. Gurbatov, Bengt O. Enflo, Galina V. Pasmanik The decay of pulses with complex structure according to Burgers' equation
1PPAC_6	V.E. Nazarov, V.Yu Zaitsev, A.B. Kolpakov Investigation of the process of self-demodulation of acoustic pulses in river sand
1PPAC_7	Shin-ichi Sakamoto, Yoshiaki Watanabe Effects of micro bubbles vibration for increase of acoustic streaming
1PPAC_8	Vladimir Zaitsev Anomalously high elastic nonlinearity and the frequency-independent Q-factor as complementary properties of microinhomogeneous solids
(no paper)	Dissipation in solids: Thermal oscillations of atoms
(no paper)	Acoustical modeling according to the theory of the common networks-taking into account nonlinear effects
1PPAC_11	Ricardo E. Musafir On the ambiguity in the description of sources and the choice of the acoustic variable
(no paper)	Nonlinear effect of the inertia of the fluid on acoustic streaming in cylindrical guides (Poster)

1pPAdPhysical Acoustics:
Cavitation Physics and Sonoluminescence I

(no paper)	Sonoluminescence: Current status and future perspectives
1PPAD_2	B. Gompf, R. Pecha, W. Eisenmenger The cavitation collapse on a sub-ns time scale
(no paper)	Measuring cavitation conditions by multi-bubble sonoluminescence
1PPAD_4	R. Mettin, S. Luther, CD. Ohl, W. Lauterborn Simulation of bubble motion in acoustic cavitation
(no paper)	Bubble dynamics and SBSL in a variable acceleration environment
(no paper)	Single-bubble large-scale cavitation
1PPAD_7	R. Pecha, Z. Q. Wang, B. Gompf, W. Eisenmenger Single bubble sonoluminescence: Investigation of the emitted pressure wave with a streak camera and a fiber optic probe hydrophone
1PPAD_8	M. Dan, J. D. N. Cheeke, L. Kondic Experimental observation of the effect of ambient pressure on single bubble sonoluminescence
(no paper)	Parameter space of single bubble sonoluminescence for various liquid temperatures
(no paper)	Molecular dynamics approach for a sonoluminescing bubble
(no paper)	Single bubble sonoluminescence in water during transitions from hyper-gravity to low-gravity on NASA's KC-135 aircraft and laser beam extinction methods for studying bubble dynamics

1pPAePhysical Acoustics:
Acoustic Evaluation of Materials (Poster Session)

(no paper)	Acoustic emission signals from the sol-gel transition of tetraethoxysilan (TEOS) and sodium silicate solutions (Poster)
(no paper)	Ultrasonic velocity and absorption in the binary mixtures of 1-butanol with isomeric butanediols at 298.15K (Poster)
1PPAE_3	Birutė Voleišienė, Gintara Miglinienė, Algirdas Voleišis Ultrasonic study of ionic association in aqueous solutions of lanthanide salts (Poster)
(no paper)	Effect of wall adsorption on the photoacoustic detection of ammonia with a 1.53 micrometer DFB diode laser (Poster)
1PPAE_5	Vesna Ignjatovic, Mile Novakovic, Milena Miljkovic The effects of ultrasonic waves on dye penetration with cellulose fabrics dyed by vinylsulphonic dyes (Poster)
1PPAE_6	Mile Novakovic, Vesna Ignjatovic, Milena Miljkovic The effects of ultrasonic energy on reactive dye absorption in the presence of reduced quantities of salt (Poster)
1PPAE_7	Przemysław Ranachowski, Ignacy Malecki Acoustic emission (AE) generated by thermomechanical stress in engineering (Poster)

1pPPa Psychological and Physiological Acoustics: Recent Advances in Models of Auditory Processing

(no paper)	Modeling within- and across-channel processing of amplitude modulation
(no paper)	Computer models of the auditory periphery
(no paper)	Modeling the effects of peripheral compression on temporal processing
(no paper)	Recent advances in models of binaural detection and localization
(no paper)	Temporal models of pitch processing
(no paper)	Cochlear wavelength representation of acoustic frequency content
1PPPA7	Frank Baumgarte Evaluation of a physiological ear model for the simulation of nonlinear masking effects
1PPPA_8	Hans-Peter Rangol Physiological measurements and mathematical models for interaural pathways
1PPPA_9	
IIIIA_7	Claus Weiland A network model for the functional architecture of the medial superior olivary nucleus
(no paper)	
	A network model for the functional architecture of the medial superior olivary nucleus Modeling the precedence effect: Mechanisms of onset enhancement in binaural lateralization

1pPPb Psychological and Physiological Acoustics: Cross-Spectral Processing (Poster Session)

(no paper)	Effect of target versus distracter-tone frequency region and variance on sample discrimination of frequency differences (Poster)
(no paper)	Detection of tones on unexpected frequency in amplitude-modulated noise (Poster)
(no paper)	A behavioral reverse correlation technique to decipher early auditory feature coding (Poster)
(no paper)	Internal representation of spectral information in dependence of signal style and auditory filter bandwidth (Poster)
(no paper)	Amplitude modulation discrimination interference (MDI) and speech intelligibility for normal hearing and hearing-impaired subjects (Poster)
1PPPB_6	Martin Vestergaard, Karsten Bo Rasmussen, Torben Poulsen Comodulation masking release in bit-rate reduction systems (Poster)
(no paper)	Comodulation masking release (CMR) for multiple temporal envelope maskers (Poster)
(no paper)	An exploration of coherence masking protection in a spectral profile discrimination task (Poster)
(no paper)	Auditory profile analysis: Effects of asynchrony and ear of presentation (Poster)

1pSAaStructural Acoustics and Vibration:
Inverse Problems in Structural Acoustics I

(no paper)	An overview of the inverse problem for sound reconstruction in interior spaces
(no paper)	Problem of reconstructing the full vibration field from limited data
(no paper)	An overview of reconstructing acoustic pressure fields using the HELS method
(no paper)	Some inverse problems in structural acoustics
(no paper)	Identification of forces by the RIFF method
(no paper)	Source localization on a "fuzzy structure" beam using matched-field processing
(no paper)	Inverse scattering of acoustic waves by two elastic shells in water
(no paper)	An inversion approach based on multiple-aspect resonance analysis of finite cylindrical shells in water
(no paper)	High spatially sampled interior acoustic measurements of a turboprop aircraft for nearfield acoustic holography (NAH) algorithm development
(no paper)	Force spectra identification by FRF matrix inversion: A sensor placement criterion
(no paper)	Experimental reconstruction of the vibration field in a cylindrical shell

1pSAbStructural Acoustics and Vibration:
International Workshop on Active Noise and Vibration Control -
- Signal Processing and Controllers for Active Control

(no paper)	Iterative feedback control design for active vibration control
1PSAB_2	Jer-Nan Juang, Kenneth W. Eure Predictive feedback control for systems with unknown disturbances
1PSAB_3	Marcus Bronzel, Holger Boche, Thomas Kuhwald Constrained beamformer optimization for adaptive antenna arrays
(no paper)	[cancelled; discussion or break]
1PSAB_5	Minh Q. Phan, Jer-Nan Juang, Kenneth W. Eure Design of predictive controller for simultaneous feedback stabilization and disturbance rejection from disturbance-corrupted data
1PSAB_6	Jonathan Cook, Steve Elliott Multichannel signal decorrelation using a generalisation of the prediction error filter
1PSAB_7	Wolfgang Klippel Nonlinear adaptive controller for electrodynamic transducers without additional sensor
1PSAB_8	Luis Vicente, Enrique Masgrau Fast convergence algorithms for active noise control in vehicles
1PSAB_9	Leon H. Sibul, Michael J. Roan, Gregory A. Babich Application of nonlinear adaptive signal processing techniques to blind source separation and interference suppression
1PSAB_10	V. Zimpfer, K. Buck Digital filter used in feedback loop of ANR hearing protectors
1PSAB_11	Antonio Minguez, Manuel Recuero A control friendly software to convert a low-cost DSP board into a powerful active noise controller

(no paper) Adaptive compensation of noise in a sonar system

1pSCaSpeech Communication:
Speech Quality in Telecommunications

(no paper)	Methods for subjective assessment of service quality: Milestones to customer-centered quality engineering
(no paper)	Speech quality and the E-model
1PSCA_3	Frank Kettler, Hans Wilhelm Gierlich, Winfried Krebber Hands-free car kits - A performance discussion of "state of the art"-solutions -
(no paper)	Scenarios for economic conversation tests in telephone speech quality assessment
(no paper)	Expectation in quality assessment of internet telephony
(no paper)	Speech quality evaluation: Auditory and instrumental procedures
(no paper)	Psychoacoustically motivated objective speech quality evaluation procedures
1PSCA_8	Rafał Królikowski, Andrzej Czyżewski Noise reduction in acoustic signals using the perceptual coding
(no paper)	Application of auditory contours to speech quality measurements
1PSCA_10	Wojciech Majewski, Wojciech Myślecki Application of automatic speech recognition to evaluation of speech transmission quality
(no paper)	Instrumental speech-quality measures: New insights, ideas and results

>>> Go back to Table of Contents <<<

1pSCbSpeech Communication:
Data Based Speech Synthesis and Analysis I (Poster Session)

(no paper)	[cancelled] (Poster)
(no paper)	Issues in the design of an advanced unit selection method for natural sounding concatenative synthesis (Poster)
1PSCB_3	Ralf Th. Pietsch, Arild Lacroix System for wideband speech coding based on recursive filterbanks (Poster)
(no paper)	Selection of crossfade regions for concatenation of demisyllable units (Poster)
1PSCB_5	Jörn Anemüller Correlated modulation: a criterion for blind source separation (Poster)
(no paper)	A combined wideband speech and audio coder using human articulatory and auditory models (Poster)
(no paper)	Evaluation of monaural and binaural speech enhancement for robust auditory-based automatic speech recognition (Poster)
1PSCB_8	Grażyna Demenko, Wiktor Jassem A text-to-speech oriented comparison of English and Polish intonation (Poster)
(no paper)	Blind deverberation using short time cepstrum frame subtraction (Poster)
1PSCB_10	Alistair Conkie Robust unit selection system for speech synthesis (Poster)
1PSCB_11	Heiko Freienstein, Knut Müller, Hans Werner Strube Vocal-tract parameter estimation from formant patterns (Poster)
(no paper)	Blueprint of a biomechanical model of vocal tract structures (Poster)
1PSCB_13	M. I. Abdallah, M. Abd El Gawad Saif, A. I. El Mallawany, H. S. Sedik Arabic figures recognition based on formant analysis using artificial neural networks (Poster)
(no paper)	[cancelled] (Poster)

1pSP Signal Processing in Acoustics and Psychological and Physiological Acoustics: Auditory Displays

1PSP1	Tapio Lokki, Lauri Savioja, Jyri Huopaniemi, Rami Hänninen, Tommi Ilmonen, Jarmo Hiipakka, Ville Pulkki, Riitta Väänänen, Tapio Takala Virtual concerts in virtual spaces - in real time
1PSP2	William L. Martens, Jens Herder Perceptual criteria for eliminating reflectors and occluders from the rendering of environmental sound
1PSP3	Winfried Krebber, H. W. Gierlich Auditory displays using loudspeaker reproduction
(no paper)	Spatial auditory displays for speech communications: A comparison of free field and virtual acoustic environments
1PSP5	E. Milios, B. Kapralos, S. Stergiopoulos Sonification of range information for 3-D space perception
1PSP6	Mark Houben, Luuk Franssen, Armin Kohlrausch, Dik Hermes, Berry Eggen Auditory perception of the size and velocity of rolling balls
1PSP7	William L. Martens, Jens Herder, Yoshiki Shiba A filtering model for efficient rendering of the spatial image of an occluded virtual source
(no paper)	Communication and 3-D sound: Speech intelligibility and speaker recognition
(no paper)	Simplified auralisation of reflections in a virtual auditory environment
(no paper)	[cancelled; discussion or break]
1PSP_11	Stéphanie Viollon, Catherine Lavandier, Carolyn Drake A sound judgment depending on the urban visual setting?
(no paper)	discussion + audience sign-up for the presentation in the multichannel studio

1pUWUnderwater Acoustics:
Wave Propagation: Session in Honor of Leonid M. Brekhovskikh I

(no paper)	Acoustic thermometry of ocean climate (ATOC)
(no paper)	Leonid Brekhovskikh: The man and the scientist
(no paper)	Theory of sound propagation in the ocean: A tribute to L. M. Brekhovskikh
1PUW4	Dinghua Guan Development of underwater acoustics in China and L.M. Brekhovskikh's early activities in China
(no paper)	[cancelled; discussion or break]
(no paper)	Leonid M. Brekhovskikh and his scientific school
(no paper)	Applications of the waveguide invariant approach
(no paper)	Wave diffraction at reflection and propagation in layered media
1PUW9	Leonid Brekhovskikh My life in science, my teachers, pupils and friends

>>> Go back to Table of Contents <<<

2a - TUESDAY MORNING, 16 MARCH 1999

2aAAa Architectural Acoustics: Modeling of Halls; Halls with Special Features

(no paper)	Room acoustic simulation in the planning of concert halls and opera houses
(no paper)	Scale model experiences in concert and opera hall design
2AAAA_3	Anders Chr. Gade, Niels Vilhelm Jordan Recent multi purpose hall designs in Denmark with physically variable acoustics
(no paper)	Variable-volume/coupled-volume response at Sala Julia Prestes
2AAAA_5	Robert Essert Links between concert hall geometry, objective parameters and sound quality
2AAAA_6	Christopher Jaffe, Mark Holden, Robert Lilkendey Consistency in acoustic design when building symphonic performance halls
2AAAA_7	Robert W. Wolff, Damian J. Doria, Thomas M. Young Hammerson Hall, the living arts centre in Mississauga, Ontario
2AAAA8	Kyoungsoo Park, Chulmin Choi, Yeongha Choi, Koeng-Mo Sung Assessing and optimizing the acoustical parameters of concert halls for Korean traditional music
(no paper)	Acoustical design of the Walt Disney Concert Hall in Los Angeles
2AAAA_10	Dawn R. Schuette, Scott D. Pfeiffer The acoustic evolution of Chicago's orchestra hall: Construction details
2AAAA_11	Anssi Ruusuvuori Sopukka, the new experimental stage of the Turku City Theatre
2AAAA_12	Russell Cooper, Pamela Clements Excellent acoustics and a low RT? A case study of the recent renovation of the John F. Kennedy Center Concert Hall
2AAAA_13	Marius Smigelschi, Radu Pana, Alexandru Badescu, Gabriel Negoescu CAAD architectural and acoustical design (Poster)

2aAAb Architectural Acoustics and Noise: Modeling of Noise in Work Rooms

(no paper)	Prediction of noise in workrooms including extended sources, directivity of radiation and screening
2AAAB_2	Jürgen H. Maue Experiences with the application of a software for noise prediction in workrooms
2AAAB3	Uwe M. Stephenson Is it worth applying sound particle scattering methods to sound propagation in factory halls?
2AAAB_4	D. N. Lewis Modelling of noise in factory workrooms - A practical perspective
2AAAB_5	S. M. Dance, B. M. Shield The comparison of five computer models for the prediction of sound propagation in industrial rooms
2AAAB_6	Murray Hodgson, Nelson Heerema, Kurtis Halingten Prediction, visualization and auralization of noise in industrial workrooms during computer "walk-through"
(no paper)	An adaptive beam tracing method for room acoustics prediction
2AAAB_8	Ernst Joachim Voelker, Sabine Fischer Call center as an acoustical challenge for modern working places in offices
2AAAB_9	Lia Kortchmar, Michael Vorländer, Jules G. Slama Acoustic quality at workplaces
2AAAB_10	Claus Lynge Christensen Modelling large sound sources in a room acoustical calculation program
(no paper)	discussion

2aAB Animal Bioacoustics: Physics of Animal Bioacoustics I

(no paper)	Insect sounds in agriculture
2AAB2	D. Robert Directional hearing in small animals: Tympanal mechanics and evolutionary innovations
2AAB3	Marc Holderied, Johannes Schul, Dagmar von Helversen, Otto von Helversen Directional hearing in grasshoppers: Biophysical mechanisms and animal performance
(no paper)	Middle ear adaptations in an old world amphibian
(no paper)	The traveling-wave amplifier model of the cochlea adapted to dolphins
(no paper)	An excitation of surface acoustic waves in the ear canal
2AAB7	Gunther Tschuch, Denis J. Brothers Sound production in wasps and ants (Hymenoptera)
(no paper)	The target strength of the northern right whale (Eubalaena galacialis)
(no paper)	[cancelled; discussion or break]
(no paper)	Physical constraints on blue whale sound production mechanisms derived from matched-field processing
(no paper)	Using broadband humpback whale vocalizations to locate nonvocal whales in shallow water
(no paper)	Anthropogenic ocean noise; negligible or negligent impact?

2aAO Acoustical Oceanography: Innovations in Fish and Plankton Acoustics I

(no paper)	A seven-octave-bandwidth echo sounding system for application to fish and zooplankton
(no paper)	A multiple-frequency method for potentially improving the accuracy and precision of in-situ target strength measurements
(no paper)	The investigation of physiologically-controlled resonance scattering data from fish using a new acoustic approach
(no paper)	[cancelled; discussion or break]
(no paper)	Acoustic observations of the annual cycle of fish and plankton populations in the Beaufort Sea
(no paper)	Acoustic abundance estimation of midwater animals
(no paper)	[cancelled; discussion or break]
(no paper)	Multi-frequency measures and models of Lake whitefish (Coregonus clupeaformis) backscatter from Lake Michigan
(no paper)	Status and distribution of the dolphins in the Black Sea by acoustically improved line transect sampling technique
2AAO_10	D. G. Reid, R. Aukland Schools and clusters: Interannual variability in the aggregative behavior of North Sea herring from acoustic surveys
2AAO_11	Patrick Schneider Assessing the relationships between oceanographic parameters and fish distribution: Methodological access and potential problems
2AAO_12	E. J. Simmonds, F. Gerlotto, P. G. Fernandes, D. N. MacLennan Observation and extraction of three dimensional information on fish schools

2aEA Engineering Acoustics: Silicon Sensors

2AEA1	Marc Fischer, Gerhard M. Sessler Silicon microphones: An overview
2AEA2	A. Dehé, R. Aigner, T. Bever, KG. Oppermann, E. Pettenpaul, S. Schmitt, HJ. Timme Silicon micromachined microphone chip at Siemens
2AEA3	Pirmin Rombach, Matthias Müllenborn, Udo Klein, Roger Frehoff A low-voltage silicon condenser microphone for hearing instrument applications
2AEA4	Quanbo Zou, Rongming Lin, Jianmin Miao Silicon capacitive microphones with corrugated diaphragms
(no paper)	A novel microelectromechanical system (MEMS) design for an underwater acoustic field sensor
2AEA6	Zdeněk Škvor, Axel Stoffel Slot silicon microphone: An analytical and experimental study
2AEA7	Libor Cerny Model measurement of microphone arrays
2AEA8	Jan Škvor Theoretical and experimental study of an electrostatic transducer with a non-planar backplate
2AEA9	Emmanuel Bigler, Jean-Bernard Briot A comparison of surface transverse wave propagation on quartz and gallium orthophosphate
2AEA_10	Martin Klaiber An integrated-optical silicon microphone with a Fabry-Perot cavity as modulator
(no paper)	Development of compact fiber optic microphones

2aMU Musical Acoustics: Modeling Versus Measurements of Wind Instruments

(no paper)	Mouth tones of flue organ pipes: A control of sound aesthetics
(no paper)	Numerical calculations of woodwind impedances without adequate experimental data: Personal experiences
(no paper)	Flow and upstream impedance in wind instruments
(no paper)	Why are historical brass instruments hard to play in tune?
2AMU5	Seiji Adachi Modeling of air-jet driven instruments: An unstable jet driven by pressure gradient (Poster)
2AMU6	James P. Cottingham, Christopher H. Reed, Michael Busha Variation of frequency with blowing pressure for an air-driven free reed (Poster)
2AMU7	Shigeru Yoshikawa Jet and vortex behaviors visualized during the starting transient in organ pipes (Poster)
(no paper)	Foot resonance in organ pipe (Poster) (Poster)
2AMU9	Magdalena Klapper-Rybicka Analysis of time-frequency structure of woodwinds sounds, using discrete wavelet transform (Poster)
(no paper)	Attack transients of free reed organ pipes (Poster) (Poster)
2AMU_11	Vincent Rioux, Daniel Västfjäll, Munetaka Yokota, Mendel Kleiner Noise quality of transient sounds: Perception of "hiss" in a flue organ pipe (Poster)
(no paper)	Experimental investigations of wall influences on woodwind instrument sound (Poster) (Poster)
(no paper)	Mechanical response of artificial buzzing lips (Poster) (Poster)
(no paper)	Reed instruments, from small to large periodic oscillations (Poster) (Poster)
2AMU_15	Lamberto Tronchin, Alessandro Cocchi A virtual reconstruction of trumpet (Poster)
(no paper)	The wave digital filter brass mouthpiece model (Poster) (Poster)
2AMU_17	Wilfried Kausel, Paul Anglmayer A computer program for brass instrument optimization. Part I. Concept and implementation (Poster)
2AMU_18	Paul Anglmayer, Wilfried Kausel A computer program for brass instrument optimization. Part II. Applications, practical examples (Poster)
2AMU_19	Malte Kob, Harald Jers Directivity measurement of a singer (Poster)

2aNSa Noise: Community Noise Annoyance

2ANSA_1	Rainer Guski Limits of utility of dosage-response analysis for predicting the prevalence of annoyance
(no paper)	Panel discussion
(no paper)	Joint noise annoyance: A field evaluation of models concerning road and railway exposure
(no paper)	Panel discussion
(no paper)	Social survey of the annoyance of low frequency aircraft ground noise
(no paper)	Panel discussion
2ANSA_4	Brigitte Schulte-Fortkamp Measurements of noise annoyance: Decisions on appropriate evaluation procedures in field and laboratory settings
(no paper)	Panel discussion
(no paper)	Predicting the joint annoyance of multiple noise sources
(no paper)	Panel discussion
2ANSA_6	Jiro Kaku, Tohru Kato, Sonoko Kuwano, Seiichiro Namba Predicting overall reaction to multiple noise sources
(no paper)	Panel discussion

2aNSb Noise: Computational Aeroacoustics I: Numerical Simulation of Jet and Shear Flow Noise

(no paper)	Jet noise simulations using the nonlinear disturbance equations
(no paper)	Numerical simulation of jet noise: Fundamental issues, progress and outlook
(no paper)	Numerical simulation of jet screech tones
2ANSB_4	San-Yih Lin, Jen-Jiun Hu Inviscid and viscous computations of supersonic jets
(no paper)	Direct numerical simulation of sound generation in turbulent shear flows
(no paper)	Vortex dynamics, transition to turbulence, and aeroacoustics in rectangular free jets
2ANSB_7	Philippe Lafon Use of linearized Euler equations for subsonic flow noise prediction
2ANSB_8	E. J. Avital, K. H. Luo, N. D. Sandham Analysis of sound generated by free shear flows using direct numerical simulations

2aNSc Noise: Hearing Conservation Program Effectiveness

2ANSC_1	Christine Harrison Hearing conservation program effectiveness - A Canadian perspective
(no paper)	Distortion product otoacoustic emissions - Valuable method for hearing conservation programs?
2ANSC_3	Karl Körpert Hearing thresholds of 15 to 18 year old pupils and apprentices
2ANSC_4	Krystyna M. Pawlas Assessment of hearing conservation program implemented in chosen plants in Poland
(no paper)	ANSI S12.13: Using audiometric data variability to assess hearing conservation success or failure
(no paper)	An overview of hearing conservation practices in the USA
(no paper)	Research strategies for evaluating effectiveness of industrial hearing loss prevention programs (HLLP)
(no paper)	Assessment of methods for determining field-equivalent sound levels from real-ear and manikin measurements
(no paper)	The confounding influence of collapsing the ear canal on audiological assessment of noise-exposed workers (Poster)

2aPAa Physical Acoustics: Thermoacoustics I

(no paper)	Thermoacoustic natural gas liquefier
(no paper)	A pistonless Stirling engine - A new direction in thermoacoustics
(no paper)	The thermoacoustic oscillator as a musical instrument
(no paper)	Measurements of the performance of a thermoacoustic refrigerator prototype
(no paper)	Measurements of thermoacoustic functions for unusual stacks
(no paper)	Conventional heat exchanger design methods and their applicability to thermoacoustics
(no paper)	Computational analysis of a thermoacoustic refrigerator
(no paper)	Effects of gas mixture on a thermoacoustic refrigerator driven at high amplitudes
(no paper)	Experimental verification of Rayleigh's interpretation for thermoacoustic Sondhauss-type oscillations
2APAA_10	Pierrick Lotton, Hélène Bailliet, Michel Bruneau, Vitali Gusev Thermoacoustic resonator and its sound source: Model of the coupling and experiments

2aPAb Physical Acoustics: Ultrasonic Imaging: Diagnostic Methods in Material Testing and Medicine

(no paper) Acoustic wave field imaging and measurement by scanning probe methods (no paper) Acoustic images at the nanometer scale - why and how? Atomic force acoustic microscopy: Acoustical imaging on the nm-scale (no paper) Material characterization using micro machined air transducers (no paper) (no paper) Imaging with a 16,000 element 2D array Time-domain ultrasound diffraction tomography (no paper) Transient elastography in biological tissues (no paper) (no paper) Comparison between first and second harmonic imaging in ultrasound tomography Amplitude dependence of down-converted acoustic waves due to a nonlinear force interaction (no paper) [cancelled; discussion or break] (no paper) A new method for nonlinear nondestructive testing of development defects inside inhomogeneous (no paper) solids 2APAB_12 J.-P. Lefebvre, S. Mensah, P. Lasaygues, A. Wirgin, S. Delamare Investigation in ultrasonic tomography Nonlinear acoustic testing of defects for evaluation of risk of insurance of the thermal electric (no paper) power stations (Poster) Experience in nonlinear wave testing of constructions inside the earthquake area (Poster) (no paper) (no paper) Experiments in solids using air-coupled ultrasound (Poster)

2aPAc Physical Acoustics: Interaction of Acoustic Fields with Suspended Particles I

(no paper)	Separation of aerosol fine particles by high power ultrasound
(no paper)	Studying drop cluster and array behavior using an acousto-electric levitator
(no paper)	Generation of a standing wave field using crossing sound beams for acoustic micro-manipulation
(no paper)	Ultrasonic micro-manipulation of particles and effects of acoustic streaming
(no paper)	Studies of particle separation using acoustophoresis
(no paper)	Analysis of composite resonators for ultrasonic micromanipulation and separation
(no paper)	Scattering enhancements and resonator frequency shifts resulting from the interaction between ultrasonic fields and suspended particles and bubbles
2APAC_8	Donald L. Feke, Alan E. Penrod Agglomeration and collection of suspended particles using resonant acoustic fields within porous media
2APAC_9	W.T. Coakley Ultrasonic cell micro-manipulation and separation
(no paper)	Acoustic and electroacoustic spectroscopy for concentrated dispersions and emulsions

2aPAd Physical Acoustics: Cavitation Physics and Sonoluminescence II

(no paper)	Stimulating sonoluminescence
(no paper)	Sonoluminescence light emission
(no paper)	Computed optical emissions from a star in a jar
(no paper)	Water vapor and sonoluminescence
(no paper)	Optimal resonant stimulation of sonoluminescence
(no paper)	Sonoluminescing bubbles rectify argon: Comparing predictions with latest experiments
2APAD_7	Ralf Günther Acoustics within nonlinearly driven cavities
2APAD_7 (no paper)	
	Acoustics within nonlinearly driven cavities
(no paper)	Acoustics within nonlinearly driven cavities The search for electrical discharges from single and multi-bubble sonoluminescence

2aPPa Psychological and Physiological Acoustics: The Role of Peripheral Compression in Hearing

(no paper)	Amplification and compression in the cochlea
(no paper)	Measurements of peripheral compression using forward masking and pulsation threshold
(no paper)	Nonlinear cochlear processing of harmonic complexes
(no paper)	Loudness and ABR findings with short signals: More compression than expected?
(no paper)	On the relation between peripheral compression and the growth of loudness
(no paper)	Relationship between loudness perception and peripheral compression in subjects with unilateral cochlear hearing loss
2APPA_7	Martin Steurer Non-linear amplification in the cochlea - Implications of a computer model
2APPA7 (no paper)	Martin Steurer
	Martin Steurer Non-linear amplification in the cochlea - Implications of a computer model Monaural, cross-frequency coincidence detection as a mechanism for decoding perceptual cues
(no paper)	Martin Steurer Non-linear amplification in the cochlea - Implications of a computer model Monaural, cross-frequency coincidence detection as a mechanism for decoding perceptual cues provided by the cochlear amplifier

2aPPb Psychological and Physiological Acoustics: Spatial Factors in Binaural Hearing (Poster Session)

(no paper)	Near-field localization in echoic rooms (Poster)
(no paper)	The effect of sentence onset asynchrony on call sign detection and message intelligibility in a simulated "cocktail party" (Poster)
(no paper)	Speech intelligibility in real and virtual adverse auditory environments (Poster)
(no paper)	Monaural and binaural minimum audible angles for virtual sound sources (Poster)
(no paper)	The cocktail party effect with conversational speech (Poster)
2APPB_6	Barbara S. Muller, Pierre Bovet Monaural azimuth sound localization with linguistic and pseudo-linguistic stimuli (Poster)
(no paper)	Aided and unaided performance on a clinical test of sound localization (Poster)
(no paper)	Auditory spatial attention influences discrimination of interaural time differences: Evidence from a probe-signal paradigm (Poster)
(no paper)	Effects of low-frequency thresholds on sound-source identification in the frontal horizontal plane using interaural time difference cues (Poster)
2APPB_10	Jürgen Altmann Acoustic weapons? Sources and propagation of strong sound (Poster)

2aSAa Structural Acoustics and Vibration: Inverse Problems in Structural Acoustics II

[cancelled; discussion or break] (no paper) S. Gade, H. Herlufsen, H. Konstantin-Hansen, H. Vold 2ASAA_2 Order tracking using the Vold-Kalman tracking filter Characterization of complex systems from inverse radiative transfer measurements (no paper) Indirect determination of input forces generated by the pump of a watercraft under operating (no paper) conditions: Some guidelines (no paper) Sensor proximity error in the conformal nearfield acoustic holography and its solution by using the nonsingular boundary integral equation C. Marquis-Favre, N. Hamzaoui, C. Boisson 2ASAA 6 A vibroacoustic inverse problem regularized by SVD technique coupled with Miller method

2aSAb Structural Acoustics and Vibration: International Workshop on Active Noise and Vibration Control -- Active Control of Structural Vibration

2ASAB_1	Linus Pettersson, Lars Håkansson, Ingvar Claesson, Thomas Lagö Piezo ceramic actuators versus high magnetostrictive actuators in the active control of tool vibration
(no paper)	Control of vibration of flexible manipulators
(no paper)	Real-time control of a vibrating plate excited by a turbulent boundary layer
(no paper)	Semi-active damping of vibration in mixing or propelling systems
(no paper)	A distributed active vibration absorber for sound radiation and vibration control
2ASAB_6	Marc J. Serrand, Stephen J. Elliot Multichannel feedback control for the isolation of equipment from base vibration
2ASAB_7	George J. Stein Smart/intelligent vibration and shock control by active or semi-active means

2aSCa Speech Communication: Data Based Speech Synthesis II

(no paper)	Rules, measures and corpora for speech synthesis
(no paper)	An overview of Microsofts whistler text-to-speech system
(no paper)	Data-driven speech synthesis
(no paper)	discussion
2ASCA_4	M. Beutnagel, A. Conkie, J. Schroeter, Y. Stylianou, A. Syrdal The AT&T next-gen TTS system
(no paper)	Domain-specific prominence-based concatenation
2ASCA_6	Diane Hirschfeld Phonetic transcriptions - Aligning canonical and pronunciation forms
(no paper)	discussion
2ASCA_7	Martin Holzapfel HMM based database segmentation and unit selection for concatenative speech synthesis
(no paper)	Waveform models for data-driven speech synthesis
(no paper)	Concatenative synthesis with subwords for restricted-prosody applications
(no paper)	discussion

2aSCb Speech Communication: Cross Language and L2 Phonetics I

(no paper)	Spoken word recognition by non-native listeners
(no paper)	The role of speaking rate in the perception of L2 speech
(no paper)	Toward further understanding of second language speech learning: An approach utilizing speech technology
2ASCB_4	Thorsten Piske, James E. Flege, Ian R. A. MacKay, Diane Meador Non-natives' production of vowels in conversational speech
2ASCB_5	James Flege, Grace H. Yeni-Komshian, Serena Liu Age constrains the learning of L2 phonology but not morphosyntax
(no paper)	On what it takes to predict perceptual difficulty in cross-language vowel perception
(no paper)	Phonemic repertoire effects in lexical activation
(no paper)	Native-language phonetic and phonological constraints on perception of non-native speech contrasts
(no paper)	Cortical representation of language in monolinguals and bilinguals
(no paper)	Research in cross-language and second-language speech perception and production: Issues, trends and future directions
(no paper)	discussion

2aSP Signal Processing in Acoustics: Acoustic Image Synthesis for Arbitrary Listeners

Are individualized head related transfer functions required for auditory information displays? (no paper) [cancelled; discussion or break] (no paper) (no paper) Relearning sound localization with new ears (no paper) Explaining individual differences in head-related transfer functions Adapting head-related transfer functions to individual listeners (no paper) (no paper) The contribution of spectral cues to human sound localization (no paper) Sound localization using other people's ears 2ASP___8 **Rozenn Nicol, Marc Emerit** Holophony versus Ambisonic: Deriving a hybrid method for 3D-sound reproduction in videoconferencing

2aUWa Underwater Acoustics, Acoustical Oceanography and Physical Acoustics: Acoustics and the Comprehensive Test Ban Treaty I

2AUWA_1	Martin W. Lawrence Overview of the hydroacoustic monitoring system for the Comprehensive Nuclear-Test-Ban Treaty
(no paper)	Acoustic source calculations for nuclear bursts
(no paper)	Hydroacoustic monitoring of the oceans
(no paper)	Hydroacoustics in monitoring the comprehensive test ban treaty
(no paper)	Automated detection of underwater explosions by the IMS hydroacoustic network
(no paper)	Characterization of reflected hydroacoustic signals for CTBT localization
(no paper)	Modeling hydroacoustic waveform envelopes for comprehensive test ban treaty monitoring
(no paper)	Propagation modeling of T-phase time series via RDOASES
(no paper)	Normal mode composition of earthquake T phases recorded in the deep ocean
(no paper)	Progress in the implementation of the T-phase subnetwork for monitoring oceans
(no paper)	Perturbative eigenvalue techniques for global-scale hydro-acoustic pulse propagation

2aUWb Underwater Acoustics: Rapid Ocean Environmental Assessment

(no paper)	Rapid response, A demonstration of ocean assessment capabilities
(no paper)	Rapid assessment of undersea ambient noise
2AUWB_3	John R. Preston, Dale D. Ellis Summary of bottom reverberation findings and model/data comparisons during three rapid environmental assessment trials
(no paper)	Shallow water REA using autonomous ocean sampling networks
(no paper)	Rapid assessment of bottom backscattering
(no paper)	In-situ update of geo-parameter database
(no paper)	Preliminary results from at-sea tests of the autonomous buoyed environmental sensor system (ABES)
(no paper)	Estimation of modal eigenvalues from an arbitrary distribution of receivers in a planar array
2AUWB_9	B.T. Cox, P. Joseph Bottom reflection phase inversion using modal dispersion curves
2AUWB_10	Dale D. Ellis, John R. Preston Extracting sea-bottom information from reverberation data
2AUWB_11	Steven Kay, S. Bradford Doyle Estimation of the channel scattering function

>>> Go back to Table of Contents <<<

2p - TUESDAY AFTERNOON, 16 MARCH 1999

2pAAa	Architectural Acoustics: Worship and Theater Spaces
2PAAA_1	Emmanuel Tzekakis, Gottfried Schubert The acoustical design of a new open air theatre in Thessaloniki, Greece
2PAAA_2	Gottfried Schubert, Emmanuel G. Tzekakis The ancient Greek theater and its acoustical quality for contemporary performances
2PAAA_3	Russell Richardson, Bridget Shield Acoustic measurements of Shakespeare's Globe Theatre, London
2PAAA_4	Weihwa Chiang, Zenjang Juang Acoustical evaluation of auditoriums in Taiwan built before 1975
(no paper)	Restoration by means of sound reinforcement of a church of the Renaissance
2PAAA_6	Zerhan Karabiber Acoustical problems in mosques: A case study on the three mosques in Istanbul
(no paper)	[cancelled] (Poster)
2PAAA_8	M. Galindo, T. Zamarreno, S. Girón, J. J. Sendra, J. Navarro Simulated acoustic field in mudejar-gothic churches (Poster)

2pAAb Architectural Acoustics: Perceptual Aspects in Rooms

2PAAB_1	Yukio Suzumura, Yoichi Ando, Itaru Yamamoto, Tosiki Iizuka, Masanao Ohwaki Effects of scattered reflection in sound field examined by use of a 1/10 scale model of concert hall
2PAAB_2	Martin A. Gold Listener evaluations of the acoustic qualities spatial impression and auditory source width in rooms and over headphones
2PAAB_3	Junko Atagi, Yoichi Ando, Yasutaka Ueda Controls of a modulated delay time of reflection enhancing subjective preference
2PAAB_4	Paul T. Calamia, Scott D. Pfeiffer The perception and measurement of edge diffraction in three concert halls
(no paper)	Influence of sensory interactions between vision and audition on the perceptual characterisation of room acoustics
(no paper)	Perception of sweep sounds caused by reflective pulse train in a rectangular reverberation room
(no paper)	Appropriate band width and integration time for measurements of the degree of interaural cross- correlation as a measure of apparent source width in concert halls (Poster)
2PAAB_8	Vytautas J. Stauskis The interrelation between the music sound "clarity" index C 80 and the subjective evaluation of the hall acoustics (Poster)

2pAB Animal Bioacoustics: Physics of Animal Bioacoustics II

(no paper)	Biophysics of peripheral auditory systems in three teleost fish
(no paper)	[cancelled; discussion or break]
(no paper)	Whistle signals of sturgeons and cetaceans
2PAB4	Joseph A. Clark, Jane A. Young, Joel B. Gaspin Validation of a system for synthesizing distant signatures of underwater explosions for sea mammal hearing studies
(no paper)	Information entropy of humpback whale song
(no paper)	Ultrasound-mediated transformation of prokaryotic cells
(no paper)	On interfacing physics with electrophysiology in echolocation in bats
(no paper)	Bisonar in a textured world
(no paper)	Modeling the role of non-human vocal membranes in phonation
(no paper)	Middle ear frequency characteristics of Norwegian cattle

2pAO Acoustical Oceanography: Innovations in Fish and Plankton Acoustics II

(no paper)	High resolution target strength measurements in deep water
2PAO2	Ingvald Svellingen, Egil Ona A summary of target strength observations on fishes from the shelf off West Africa
(no paper)	Resonance frequencies of absorption lines due to pelagic fish
2PAO4	David T.I. Francis, Lucio Calise, Kenneth G. Foote, Tor Knutsen Modelling the target strength of Calanus finmarchicus
(no paper)	Comparing predictions from backscatter models to in situ measurements of a dual-chambered, swimbladdered fish
(no paper)	[cancelled; discussion or break]
(no paper)	Analyzing ship-borne acoustic Doppler current profiler measurements to estimate the vertical and spatial distribution of southern Black Sea zooplankton
2PAO8	Andrzej Stepnowski, Tran Van Dung, Joanna Maciołowska Analysis of the neuro-fuzzy classifiers for fish species identification and bottom typing from acoustic echoes
(no paper)	Improving echograms resolution by wide band pulse compression and dynamic focusing
2PAO_10	Olav Rune Godø, Atle Totland Bergen Acoustic Buoy (BAB) - A tool for remote monitoring of marine resources
2PAO_11	Ken Ishii, Kouichi Sawada, Yoichi Miyanohana Design of a transducer-positioning system scanning around an aquatic target in a tank

2pEA Engineering Acoustics: Microphones, Measurements, etc

2PEA1	Jörg Sennheiser Micro-miniaturized microphone for communication applications
2PEA2	W. Niehoff The optical microphone using glass fibre technology
(no paper)	Microphone calibration techniques
(no paper)	Optical measuring and calibration techniques for microphones
2PEA5	Christos A. Goussios, George V. Papanikolaou, George M. Kalliris New design concepts for the construction of an omnidirectional sound source
(no paper)	Simulation of ultrasonic fields in composite media with planar boundaries
2PEA7	Vygantas Augutis, Darius Gailius Wideband ultrasonic piezoelectric microphones
2PEA8	Ulrich Ackermann Simple method to estimate the absorption coefficient of porous absorbers
(no paper)	[cancelled; discussion or break]
2PEA10	T. Niederdraenk, R. Thaden Experimental investigation of bending waves in ultrasonic reactors
2PEA_11	C. Ranz Guerra, P. Cobo Parra Underwater acoustic tank evaluation of acoustic properties of samples using spectrally dense signals
(no paper)	Mechanical impedance of wheeled tractor steering mechanism

2pMU Musical Acoustics: Musical Acoustics and the Musician

(no paper)	The perception of music by the human brain: An introductory course	
2PMU2	Knut Guettler Musical acoustics, the music student and the music teacher	
(no paper)	Acoustical training for stringed instrument makers	
(no paper)	Intensive training on acoustics of pipe organs for organ builders and organists	
(no paper)	Acoustic loading exercises in singing training	
(no paper)	Illustrating music performance principles by synthesis	
2PMU7	Gerald Bennett Musical acoustics and contemporary composition	
2PMU8	R. Dean Ayers, Thomas D. Rossing Teaching musical acoustics	
(no paper)	Measurement of performance response differences when striking different areas of a marimba bar	
(no paper)	Control index of the upright and grand piano actions	
(no paper)	An artificial neural network model for analysis and synthesis of pianists' performance styles	
2PMU_12	Eduardo Castro-Sierra, Martha Gómez-Gama, Miguel Zenker, Santiago J. Pérez-Ruiz Experience of students of composition and instrument construction at the National School o Music of UNAM in the auditory normalization of timbre with age and with exposure to different instruments	

2pNSa	Noise:	
	Railway Noise II	
2PNSA_1	Markus Hecht Today's rail-freight noise situation	
2PNSA_2	Hans Zimmer, Ansgar Hövelmann Cause research and assessment of the acoustic behavior of rail vehicles using SFE AKUSRAIL	
2PNSA_3	Urmas Ross, Anders Nilsson Roughness growth on tread-braked railway wheels: Eurosabot theoretical studies	
2PNSA_4	Stefan Bühler Eurosabot field measurements - methods and results	
(no paper)	[cancelled; discussion or break]	
(no paper)	Experiments and computations of noise reduction by barriers	
(no paper)	[cancelled; discussion or break]	
2PNSA_8	C. Katzenschwanz, G. Hölzl, L. Willenbrink, T. Lölgen Acoustical contribution analysis of railway wheels and tracks	
2PNSA_9	Rik van Haaren, Karel Looijmans Empirical formulas for noise of high speed trains	
2PNSA_10	Berndt W. Zeitler, Michael Möser Calculation of the three-dimensional sound radiation of rails using the multipole approach	
(no paper)	Vibration assessment in buildings from the underground trains	
2PNSA_12	J. Peters, G. Prestele Prediction of railway-induced vibrations by means of transfer functions (Poster)	

2pNSb Noise: Noise at the Workplace I

2PNSB_1	Robert D. Bruce The last 100 years of magazine articles on noise
(no paper)	Combined effects of noise and whole body vibration in the working environment
(no paper)	Hearing disorders from combined exposures to noise and solvents: A review
(no paper)	Communication and warning signal perception
(no paper)	Noise exposure, hearing loss, and hearing conservation in the construction industry
(no paper)	Assessment and remediation of perceived handicap in subjects with acquired hearing impairment
2PNSB7	Keith A. Broughton Noise control guidance for industry
2PNSB8	Ilkka Kyttälä, Erkko Airo Noise declaration of hand held machinery
2PNSB9	Sergio Beristain Common problems in noise control projects
2PNSB_10	Krystyna M. Pawlas Polish system of workers' protection against noise
2PNSB_11	Robert M. Lilkendey A DRC-based analysis of the auditory hazard from exposure to impact noises generated by carpentry tools and tasks
(no paper)	Auditory damage due to impulses or continuous noise

2pNSc Noise and Physical Acoustics: Experience with Noise Prediction I

(no paper)	Remarks on acoustical descriptors for explosions in air
2PNSC_2	Christa Korff Measurement of acoustical emissions from large-calibre weapons
(no paper)	Source data for small arms noise
2PNSC_4	Lars R. Hole Results from Norwegian sound propagation experiments
(no paper)	Measured and computed effect of meteorological condition and ground surface on propagation of impulsive sound to 20 km
(no paper)	Blast noise propagation above a snow cover at Haslemoen, Norway
(no paper)	Air-ground interaction effects in the propagation of low frequency impulse noise
2PNSC_8	Keith Attenborough A comparison of engineering methods for predicting ground effect
(no paper)	On the applicability of models for outdoor sound
(no paper)	Standardization efforts in Germany on the quality of software products for the prediction of environmental sound immission
2PNSC_11	Oleksander Zaporozhets, Vadim Tokarev, Keith Attenborough, Kai Ming Li Aircraft noise model corrected by operational and propagation effects
(no paper)	FLULA2: Aircraft noise prediction and measurements

2pNSd Noise: Computational Aeroacoustics II: Methodology and Applications 2PNSD 1 Christenbe Bailly Daniel Juné

2PNSD_1	Christophe Bailly, Daniel Juvé Aeroacoustic simulations and stochastic approach using linearized Euler's equations
2PNSD_2	E. Manoha, C. Seror, B. Troff, P. Sagaut, G. Rahier Computational Aeroacoustics Activities at ONERA using Large Eddy Simulation
2PNSD_3	Oktay Baysal, Moumen M. Idres Low dispersion schemes for aeroacoustics: Mathematical model and demonstrative cases
2PNSD_4	Jae Wook Kim, Choon Myun Jeong, Dae Nyeong Heo, Duck Joo Lee Direct computation of sound generation and radiation from a "singing wire"
(no paper)	Acoustic radiation due to gust-airfoil and blade-vortex interactions
(no paper)	On the coupling of inverse problem with computational aeroacoustics

2pNSe Noise: Computational Aeroacoustics III: Further Topics

2PNSE_1	Christophe Bogey, Christophe Bailly, Daniel Juvé CAA approaches applied to mixing layer noise computation using LES
(no paper)	An error analysis for the lattice gas time domain (LGTD) method in CAA
(no paper)	Reduction of boundary effects in acoustic analogy application to CFD data basis

2pNSf Noise: Harmonization of Noise Ratings

(no paper)	How many ways is it worth slicing the social survey data cake?
2PNSF_2	Dick B. Botteldooren, Truls Gjestland Uncertainty in dosage-annoyance relations
(no paper)	On using "loudness-weighted" SEL, LEQ and DNL to assess noise environments
(no paper)	Soundscape in cities, limits to the noise limits?
(no paper)	Time-of-day penalty for aircraft noise
(no paper)	Validation of a new procedure for rating shooting sounds with the help of field survey data
(no paper)	A new test of validity of a maximum-single-event-level model in the prediction of the community response to artillery sounds
(no paper)	Panel discussion

2pPAa Physical Acoustics: Thermoacoustics II

(no paper)	Advances in pulse tube refrigeration	
(no paper)	Thermoacoustic instabilities of highly premixed flames in combustors and boilers	
(no paper)	Thermoacoustic research at ETH Zurich in the 1990s	
2PPAA_4	Robert W. M. Smith, Steven L. Garrett, Robert M. Keolian, John A. Corey High efficiency 2-kW thermoacoustic driver	
(no paper)	Performance of a two stack annular prime mover	
(no paper)	On validity of mean-field approximation in thermoacoustics	
(no paper)	Second order thermoacoustics	
(no paper)	Nonlinear saturation of thermoacoustic instability	
(no paper)	Acoustic boundary layer phenomena near a corrugated surface	
(no paper)	How much pressure drop is necessary for heat transfer (Poster)	
2PPAA_11	Thierry Le Polles, Stéphane Job, Hélène Bailliet, Pierrick Lotton, Michel Bruneau, Vit Gusev Threshold condition for travelling-wave excitation in annular prime-mover (Poster)	

2pPAb Physical Acoustics: Nonlinear Motion of Bubbles and Drops I

(no paper)	Acoustic levitation, a theoretical and experimental round up
(no paper)	Physics of drop formation
(no paper)	Bubble dynamics and nucleation of ice in supercooled water
(no paper)	Acoustic diagnosis of singing cavitation vortices
(no paper)	[cancelled; discussion or break]
(no paper)	Bubble size distribution near a pressure antinode

2pPAcPhysical Acoustics:
Interaction of Acoustic Fields with Suspended Particles II

(no paper)	The acoustic generation of internal flow and rotation of levitated fluid particles
2PPAC_2	C. M. Cousins, P. Holownia, J. J. Hawkes, M. S. Limaye, S. E. Higgins, C. Price, P. Keay, W. T. Coakley Clarification of plasma from whole blood using ultrasound
2PPAC_3	H. Böhm, P. Anthony, J. B. Power, M. R. Davey, K. C. Lowe, L. G. Briarty, M. Maitz, E. Benes Viability of plant cells in ultrasonic fields
2PPAC_4	Stefan Radel, Aiden J. McLoughlin, Lisa Gherardini, Ewald Benes Viability of yeast cells in propagating ultrasonic waves
2PPAC_5	I. L. Holwill, A. T. Martin Ultrasonic standing waves to enhance optical particle sizing equipment
2PPAC_6	Johannes Spengler, Martin Jekel Ultrasonically enhanced sedimentation - Results of a semi-empirical scale-up approach
(no paper)	Ultrasonic splitting of oil-in-water-emulsions
(no paper)	Acoustic deinking of paper; pulse effectiveness in particle detachment
2PPAC_9	Jeremy J. Hawkes, Caroline Cousins, W. Terence Coakley, Peter J. Keay Particle filtration by a combination of ultrasound standing waves and laminar flow

2pPAd Physical Acoustics: Cavitation Physics and Sonoluminescence III

2PPAD_1 Yuichiro Kato, Shigeo Hayashi, Kenji Tanaka, Hiroshi Kobayashi Experimental investigation of dynamics of sonoluminescing bubbles On the light emission from collapsing laser-induced cavitation bubble (no paper) 2PPAD_3 Olgert Lindau, Reinhard Geisler, Werner Lauterborn Temperature dependency of luminescence from laser-produced cavitation bubbles [cancelled; discussion or break] (no paper) [cancelled; discussion or break] (no paper) (no paper) Acoustic bubble traps 2PPAD_7 Isaac R. Shreiber Peculiarities of cavitation in a water layer

2pPAe Physical Acoustics: Surface Roughness

2PPAE_1	Keith Attenborough Measurements and models of small-scale roughness effects at audio-frequencies in air
(no paper)	Experimental and modeling results for near grazing propagation over rough surfaces
(no paper)	The influence of millimeter-scale seafloor roughness on measured and predicted high-frequency acoustic backscattering strength
(no paper)	Acoustic backscatter from a sandy seafloor with anisotropic roughness
(no paper)	Acoustic remote sensing of seafloor roughness: Resolving ambiguous estimates of roughness spectrum parameters
(no paper)	Stochastic models for scattering by seafloor roughness
(no paper)	Characterization of small-scale seafloor roughness using close range digital photogrammetry
2PPAE8	C. Nocke Measurement of the effective surface impedance in laboratory and in-situ
(no paper)	The influence of small scale seafloor surface morphology on acoustic backscattering

2pPPa Psychological and Physiological Acoustics and Noise: Application of Psychoacoustics in Rating Environmental Noise

2PPPA_1	Sonoko Kuwano, Seiichiro Namba, Mary Florentine, Zheng Da Rui, Hugo Fastl, August Schick, Reinhard Weber, Holger Höge A cross-cultural study of the factors of sound quality of environmental noise
(no paper)	Individual noise sensitivity and performance on psychoacoustic tasks
(no paper)	Loudness and annoyance of steady state and temporally varying noise
(no paper)	Response to air-cooling machinery noise: A preliminary study
2PPPA_5	Anna Preis, Fumiaki Satoh, Mutsumi Ishibashi, Hideki Tachibana Binaural loudness perception of time-varying environmental stimuli
2PPPA_6	Thomas Hempel Aspects of global assessment of loudness-equalized interior car sound in stationary driving conditions
(no paper)	Psychoacoustic evaluation of noise immissions
(no paper)	[cancelled; discussion or break]
(no paper)	Application of loudness quantities in a field study
2PPPA_10	Manfred T. Kalivoda Psychoacoustics and noise abatement in Austria - Some practical experiences
2PPPA_11	Carsten Reckhardt, Volker Mellert Proposal for the determination of equal-loudness level contours
2PPPA_12	J. Quehl, A. Schick, V. Mellert, B. Schulte-Fortkamp, H. Remmers Combined effects of helicopter and aircraft interior sound and vibration on passengers' well- being and comfort sensation

2pPPb	Psychological and Physiological Acoustics:
	Physiological Acoustics

2PPPB_1	Eric Dudouet, Jacques Martin A new HRTF decomposition and algorithm for sound spatialisation
2PPPB2	Stefan Stenfelt, Bo Håkansson, Anders Tjellström Vibration characteristics of bone conducted sound in vitro
2PPPB3	Herbert Hudde, Andreas Engel Estimation of the sound pressure at eardrum
(no paper)	Three-dimensional measurements of a physical full-size model of the human middle ear
2PPPB_5	EJ. Haberland, H. J. Neumann A general model of inner ear pressure responses including ultra-low frequencies
(no paper)	Cochlear fine structure in chinchillas
2PPPB7	Torsten Marquardt, Johannes Hensel, Günther Scholz, Dieter Mrowinski Modulation of distortion product otoacoustic emissions (DPOAEs) by low-frequency masker tones in human ears
2PPPB8	Günter Mauer, Wolfgang H. Döring Characteristics of amplitude modulation following responses in man
(no paper)	Excitation and inhibition in the dorsal nucleus of the lateral lemniscus influence binaural response properties of neurons in the rat's inferior colliculus
(no paper)	Sensitivity of auditory units in the frog's midbrain to amplitude decrements
(no paper)	Incremental responses in the auditory cortex and the auditory periphery

2pSAa	Structural Acoustics and Vibration: Structural Vibration, Radiation and Scattering I
(no paper)	On the acoustic Zeeman effect
2PSAA_2	Waldemar Maysenhölder, Bozica Horvatic, Klaus Naßhan HYPERION - A computational tool for the investigation of the sound transmission loss of periodically structured plates
2PSAA_3	Olivier Chiello, Franck C. Sgard, Noureddine Atalla A modal approach to investigate the influence of viscoelastic boundary conditions on the sound radiated from a cavity-backed plate
2PSAA_4	S. De Rosa, F. Franco, F. Fontana, R. Paino, A. Sollo Structural-acoustic optimisation of an unstiffened cylinder finite element model
(no paper)	Finite element and boundary elements for underground input to SEA calculations
(no paper)	Radiation of sound from a monopole source near a free-flooded cylindrical shell
2PSAA_7	G. Susanne van der Jagt, Heiko J. Martin Modelling of structure-borne sound transmission via pipe systems to building structures - A framework
(no paper)	Estimating radiation modes for broadband measurement
2PSAA_9	Christophe Langrenne, Alexandre Garcia Integral formulations for the vibro-acoustic characterisation of a cello
2PSAA_10	Nicolas Touraine, Dominique Décultot, Gérard Maze, Aleksander Klauson, Jaan Metsaveer Effect of internal inhomogeneities on acoustic scattering from finite cylindrical shell bounded by hemispherical endcaps
(no paper)	Designing structures for noise and vibration control with statistical energy analysis
2PSAA_12	W. P. Rdzanek, Jr., Z. Engel The acoustic radiation power of an annular plate for the form of vibrations (0,n)

2pSAb	Structural Acoustics and Vibration: International Workshop on Active Noise and Vibration Control - - Active Noise Control in Ducts
2PSAB_1	René Boonen, Paul Sas Development an active silencer for internal combustion engines
2PSAB_2	D. Duhamel, P. Sergent Effects of geometric discontinuities and filter lengths on active control in ducts
2PSAB_3	J. Krüger, P. Leistner An active silencer for harsh environmental conditions
2PSAB_4	Holger Opfer, Dieter Guicking Active noise control of higher order modes in a rectangular duct using stabilized fast transversal filters
(no paper)	A hybrid active passive system for controlling locomotive exhaust noise
2PSAB_6	F. Carimantran, J. Tartarin Active control of pulsating flow in transitory condition
2PSAB_7	Roland Lippold, Joachim Scheuren Experimental investigations on active suppression of sound propagation in a fluid-filled pipe
(no paper)	[cancelled; discussion or break]

```
>>> Go back to Table of Contents <<<
```

2pSCaSpeech Communication:
Data Based Speech Synthesis and Analysis

(no paper)	VCV synthesis from muscle commands
2PSCA_2	Jianwu Dang, Kiyoshi Honda Speech synthesis of VCV sequences using a physiological articulatory model
(no paper)	The FUL speech recognition system
2PSCA_4	Karl Schnell, Arild Lacroix Parameter estimation from speech signals of tube models
(no paper)	A preliminary study of speech transformation using empirically defined articulatory modes
2PSCA_6	Dekun Yang, Georg F. Meyer, William A. Ainsworth A neural model for auditory scene analysis
2PSCA_7	Hans Werner Strube, Hans Wilmers Noise reduction for speech signals by operations on the modulation frequency spectrum
2PSCA_8	Dekun Yang, William A. Ainsworth, Georg F. Meyer Resolution capability of reassigned Fourier spectrum
2PSCA_9	Charles R. Day, William A. Ainsworth, Georg F. Meyer Improved spectral resolution via the reassigned Fourier transform
(no paper)	Intelligibility enhancement of synthesis speech heard via telephone in a noisy environment
2PSCA_11	Andreas Mengel, Ulrich Heid Query language for access to speech corpora
2PSCA_12	Frode Holm, Kazue Hata Prosody templates in word-level prosody

2pSCbSpeech Communication:
Cross Language and L2 Processing II (Poster Session)

2PSCB_1	William L. Martens, Stephen Lambacher The influence of vowel context on the Japanese listener's identification of English voiceless fricatives (Poster)
(no paper)	Can English listeners learning Japanese as a second language employ a mora-based segmentation procedure? (Poster)
2PSCB_3	Matthias Jilka Intonational foreign accent in the speech of American speakers of German (Poster)
2PSCB_4	Marielle Bruyninckx, Bernard Harmegnies A study of the language dominance effects on bilinguals' voice quality (Poster)
(no paper)	Effects of L1 phonotactic constraints on L2 speech perception and production (Poster)
2PSCB_6	Areti Okalidou, Laura L. Koenig Patterns of vowel-to-vowel coarticulation in Greek and English (Poster)
2PSCB_7	Yukari Hirata Production of Japanese durational contrasts by native and nonnative speakers (Poster)
(no paper)	Acoustic-phonetic analysis of the acquisition of American English tense-lax contrasts by native speakers of Chinese (Poster)
2PSCB_9	Dawn M. Behne, Peter E. Czigler, Kirk P. H. Sullivan Perceived vowel quantity in Swedish: Native and British listeners (Poster)
(no paper)	Dynamic information in French vowel identification by native and non-native listeners (Poster)
(no paper)	Training American listeners to perceive Mandarin tones: Transfer to production (Poster)
(no paper)	Point vowels in Japanese mothers' speech to infants and adults (Poster)
2PSCB_13	Kimiko Tsukada Detection of foreign accent by L2 English learners (Poster)
(no paper)	Neurophysiologic correlates of cross-language perception of phonetic categories (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	Recognition of Portuguese vowels by Galician-speaking and Spanish-speaking listeners (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	Does interspeaker variation in habitual speaking rate predict the size of the acoustic vowel space? (Poster)
(no paper)	Russian vowels in mothers speech to infants and adults (Poster)
2PSCB_20	Z. S. Bond, Verna Stockmal Selecting samples of spoken Korean from rhythmic and regional competitors (Poster)
2PSCB_21	Anja K. Steinlen, Ocke-Schwen Bohn Acoustic studies comparing Danish vowels, British English vowels and Danish-accented British English vowels (Poster)

2pSPa Signal Processing in Acoustics and Engineering Acoustics: Smart Microphones and Audio for Teleconferencing

(no paper)	Steerable adaptive first and second-order differential microphones
2PSPA_2	Walter Kellermann Integrating acoustic echo cancellation with adaptive beamforming microphone arrays
2PSPA_3	Jens Meyer Self-calibrating microphone array
2PSPA_4	Andrew Rimell Spatial audio for telepresence
2PSPA_5	Shigeaki Aoki, Manabu Okamoto Audio teleconferencing system with sound localization effect
(no paper)	Robust and adaptive spatialized audio for desktop conferencing
2PSPA_7	Michael Cohen Chat space models: Idioms for uni-, narrow- and multicasting
(no paper)	Spatial voice activity detection using a microphone array noise canceller
2PSPA_9	M. Kazama, M. Tohyama, A. Morita Speech reconstruction from a received noisy signal
2PSPA_10	Peter Mapp, Henry Azima Improvements in teleconferencing sound quality and gain before feedback through the use of DML technology
2PSPA_11	Sławomir K. Zieliński, Andrzej Czyżewski A method for echo cancellation in audio signals using the genetic algorithm
2PSPA_12	A. Martin, M. Ruiz, J. M. López, M. Recuero A one-third octave real time VXI analyzer

2pSPb Signal Processing in Acoustics: Signal Processing (Poster Session)

(no paper)	Improving the performance of ultrasonic range meters (Poster)
(no paper)	Hands-free teleconferencing unit using auxiliary loudspeaker and duo-filter echo canceller DSP (Poster)
(no paper)	Approximation of dummy-head recording technique by a multi-microphone arrangement (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	[cancelled] (Poster)
2PSPB7	Charalambos A. Dimoulas, George V. Papanikolaou, George M. Kalliris, Costas Pastiadis Computer aided systems for prolonged recording and analysis of human bowel sounds (Poster)

2pUWa Underwater Acoustics, Acoustical Oceanography, and Physical Acoustics: Acoustics and the Comprehensive Test Ban Treaty II

(no paper) Overview of the infrasound monitoring system for the Comprehensive Nuclear-Test-Ban Treaty

2PUWA 2 Peter Wille, Lothar Ginzkey An autonomous hydroacoustic monitoring station in support of the fixed CTBT network Adaptation of underwater acoustic propagation models to infrasonic atmospheric propagation (no paper) Naturally occurring sources of infrasound (no paper) (no paper) Interpretation of the different infrasounds detected in France during one year in a four components prototype CTBT station (no paper) Infrasound source location at the prototype international data center Temporal variability in the propagation of infrasonic waves over Hawaii and Alaska (no paper) (no paper) An optical fiber infrasound sensor (no paper) One year analysis of systematic detection and location of infrasounds in a prototype CTBT station High resolution measurements of the angle of arrival of infrasonic signals in the range 0.5-5 Hz (no paper) 2PUWA_11 Michael A.H. Hedlin, Frank L. Vernon, Jon Berger, John A. Orcutt Surveying infrasonic noise on oceanic islands (Poster)

2PUWA_12 Sergey N. Kulichkov On temporal and spatial variability of infrasonic signals at the long distances from surface explosions (Poster)

2pUWb Underwater Acoustics and Signal Processing in Acoustics: Localization, Estimation and Detection in Underwater Acoustics

(no paper)	Cell noise at the output of a MFP beamformers in shallow waters
(no paper)	Tracking results from the three dimensional full field processing array and the Santa Barbara channel experiment
(no paper)	Comparison of mode-shapes-only source depth estimation with conventional matched field source localization and the impact of array tilt on these processes
(no paper)	Highly resolved detection in a waveguide with the D.O.R.T. method
(no paper)	A high-resolution algorithm for wave number inversion using a holographic technique
(no paper)	Beamforming performance of a V-shaped array of sea-bed geophone sensors
(no paper)	Transient tonal and background noise filtering with wavelet and cosine transforms
(no paper)	Objective function particularity for shallow water waveguide parameters estimation procedure
(no paper)	Matched-field depth discrimination with active sonar (Poster)

>>> Go back to Table of Contents <<<

3a - WEDNESDAY MORNING, 17 MARCH 1999

3aABa Animal Bioacoustics: Evolution in Hearing and Sound Production I

- (no paper) The evolution of tympanate hearing from proprioceptors in ancient grasshoppers
- (no paper) [cancelled; discussion or break]
- (no paper) Evolution of vocalization behavior in a Madagascar amphibian
- (no paper) Moths ears evolved first for bat defense and later for communication
- (no paper) Bats, insects and the evolution of hearing

3aABb Animal Bioacoustics: **Evolution in Hearing and Sound Production II**

(no paper)	Temporal resolution in birds and the perception of complex sounds
3AABB_2	Wolfgang Plassmann Audiogram, morphological constraints, environmental acoustics, and adaptation
(no paper)	Acoustic fatheads: Parallel evolution of underwater sound reception mechanisms in dolphins, turtles and sea birds
(no paper)	The upper frequency range in pigeon hearing: Response properties in auditory nerve and cochlear nucleus - is tuning different in birds?
(no paper)	Adaptations for hearing in background noise

3aAOaAcoustical Oceanography:
Innovations in Fish and Plankton Acoustics III (Poster Session)

(no paper)	[cancelled] (Poster)
(no paper)	Modelling the target strength of Meganyctiphanes norvegica (Poster)
(no paper)	Target strength spectra of swimbladdered fish (Poster)
(no paper)	[cancelled] (Poster)
3AAOA_5	Marek Moszyński, Andrzej Stepnowski Wavelet decompositions versus singular value decomposition (SVD) in fish target strength estimation (Poster)
(no paper)	Gas cavities in phytoplankton (Poster)
(no paper)	Modeling considerations for acoustic scattering by fluid-like elongated zooplankton: Model intercomparisons and recommendations for euphausiids and copepods (Poster)
(no paper)	Inference of material properties of zooplankton from acoustic and conductivity measurements (Poster)
(no paper)	Digital transducer novel technology for acoustical oceanography and fisheries research (Poster)
(no paper)	Spheres for calibrating high-frequency broadband echo sounders (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	Mechanoreception for food fall detection in deep sea scavengers (Poster)
(no paper)	Echogram noise quantification with application to herring observations (Poster)
(no paper)	[cancelled] (Poster)

3aAOb Acoustical Oceanography and Underwater Acoustics: Acoustic Tomography and Thermometry I

3AAOB_1	Fabienne Gaillard, Yann Stéphan Meddies and front detection by acoustic tomography
(no paper)	Resonant diurnal internal tides in the North Atlantic
(no paper)	Acoustic monitoring of the transport and temperature variability in the Strait of Gibraltar
(no paper)	AMOC: Acoustic monitoring of the ocean climate of the Arctic
3AAOB_5	Konstantin A. Naugolnykh, Ola M. Johannessen, Igor B. Esipov, Oleg B. Ovchinnikov, Yury I. Tuzhilkin Sound signal scintillation approach to acoustic monitoring of heat and mass transport through the Fram Strait
(no paper)	AMOC: Listen to the climate change?
(no paper)	Acoustic studies of the large scale ocean circulation
(no paper)	ATOC, or Candide: Towards depth-averaged temperature maps of the North Pacific Ocean
(no paper)	Measurements of multi-megameter travel-time bias and coherence
(no paper)	Reciprocal tomography between ATOC transmitters
(no paper)	Modal structure of low-frequency, broadband receptions at megameter ranges
(no paper)	On the existence of nearly stable dynamics in long-range sound propagation through oceanic mesoscale structure

3aBB Biomedical Ultrasound/Bioresponse to Vibration: HIFU and Thermal Effects

(no paper)	Numerical simulation of the enhanced heat production in tissue due to the nonlinear character of high intensity focused ultrasound
(no paper)	Hyperthermia therapy using phase conjugation
(no paper)	[cancelled; discussion or break]
3ABB4	Seong-Wook Song, Min-Joo Choi, Jun-Seok Lim, Koeng-Mo Sung Noninvasive estimation of tissue temperature via frequency shift using narrow band transducer
(no paper)	Thermal effects of ultrasound enhancer for transdermal insulin delivery
(no paper)	Sound scattering and local heating from pulse-driven microbubbles
(no paper)	Numerical modeling of high-intensity focused ultrasound for hemostatic applications
(no paper)	Effect of tone burst ultrasound in combination with PPAA (poly-propyl acrylic acid) on hemolysis of erythrocytes
(no paper)	The effects of temperature on the characteristics of the focal region in high intensity focused ultrasound
3ABB_10	Kristian Jambrošić, Bojan Ivančević, Igor Zorić High intensity ultrasonic spectra in water and brain tissue

3aEA Engineering Acoustics and Underwater Acoustics: Recent Advances in Underwater Transducers I

(no paper)	A new deep-submergence broad-band multiport underwater sound transducer
(no paper)	1-3 piezocomposite underwater transducer
(no paper)	Biased lead zirconate titanate as a high power transduction material
(no paper)	Steered beams using a spatially phased array
(no paper)	Recent low-frequency sonar transducers and arrays
3AEA6	Houqing Zhu Recent developments of underwater acoustic transducers in China
(no paper)	Development of a compact suspension systems for a neutrally buoyant underwater acoustic intensity probe
(no paper)	Comparative study: Flow-induced noise on underwater acoustic pressure, particle velocity, and intensity sensors
(no paper)	Bias error due to flow-induced noise on a velocity gradient underwater acoustic intensity sensor
(no paper)	Development and testing of an ultrasonic PMN transducer
(no paper)	Thermal analysis of high drive transducer elements
(no paper)	The calibration of extended stationary low-frequency hydroacoustic antennae in the real conditions

3aEDEducation in Acoustics:
European Demonstrations in Acoustics Education

(no paper)	[cancelled; discussion or break]
(no paper)	A library of visualisation and auralisation examples to support understanding
3AED3	Anders Eriksson Web-accessible resources for teaching phonetics
3AED4	Klaus Fellbaum, Jörg Richter Model of the human speech production based on vocoder techniques
3AED5	L. Gaul, M. Wagner, W. Wenzel Teaching boundary element methods in acoustics
(no paper)	[cancelled; discussion or break]
3AED7	Juan José Gómez Alfageme, Manuel Recuero López, José Luis Sánchez Bote The use of computers in acoustical engineering: A computer aided electroacoustics course
3AED8	G. Hübner Acoustics education at the University of Stuttgart
3AED9	Frank Ihlenburg Standard and non-standard FEM in dynamics and acoustics
(no paper)	Courses on acoustics: What is needed?

3aMU Musical Acoustics: Musical Instruments and Structural Acoustics I: Experimental Studies, Theoretical Models and Numerical Analysis

- (no paper) Experimental and theoretical studies of the modes of stringed instruments and their relevance for quality control of instrument manufacture
- 3AMU___2 María Jesús Elejabarrieta, Amaya Ezcurra, Carlos Santamaria, José Bretos Dinamical behaviour evolution of the guitar harmonic plate in the successive construction phases
- (no paper) Numerical simulation of timpani
- (no paper) Comparison between modal analysis and finite element modeling of a marimba bar
- (no paper) Investigating the effect of different strutting arrangements on the modes of a guitar soundboard
- 3AMU___6 Anna Runnemalm, Nils-Erik Molin Air cavity modes in sound boxes recorded by TV holography
- (no paper) On the function of the violin bridge
- 3AMU___8 Uwe J. Hansen, Thomas D. Rossing Normal modes of vibration in a violin
- (no paper) Deconstructing the violin-the road from B to A
- (no paper) Finite element analysis of vibrating trombone bell
- (no paper) Simulation and measurement of wall vibrations of a flue organ pipe

3AMU_12 Lars Henrik Morset An investigation of vibrational and acoustical properties of the violin using MLS and TV holography

3aNSa	Noise: Noise at the Workplace II
(no paper)	Characteristics of the noise found in day-care centers
3ANSA_2	Amando García, Jose V. Garrigues, Ana M. García Occupational noise in Spanish textile industries
3ANSA_3	Karl F. Ross, et al. What is and should be in the area of noise-protection: Make progress a catalog on noise reduction
3ANSA_4	Jerzy Wiciak, Marek Iwaniec, Ryszard Panuszka Ladle crane noise
(no paper)	[cancelled] (Poster)
3ANSA_6	Hrvoje Domitrović, Ivana Bagić, Bojan Ivančević Noise levels in dental practice (Poster)
3ANSA_7	Richard Barham The role of measurement standards in acoustics (Poster)

3aNSbNoise:
Hearing Protector Measurements, Effects, Design, and Performance

(no paper)	The results of a unique Nordic HAKK interlaboratory REAT comparison
3ANSB_2	Elliott H. Berger, Ronald W. Kieper, Donald L. Peyton Experience with a new ANSI standard for measuring the REAT of hearing protectors (S12.6- 1997)
(no paper)	Alternative field methods of measuring hearing protector performance
(no paper)	The attenuation of combinations of ear muffs and ear plugs
(no paper)	Artificial heads vs. miniature microphones for measuring active noise reduction hearing protector performance
3ANSB_6	Pascal J.F. Hamery, Armand L. Dancer Amplitude sensitive attenuating earplugs
(no paper)	Implementation of adaptive digital ANR in hearing protectors
3ANSB_8	Martin Liedtke Use of Zwicker method to predict signal audibility in noise with hearing protection devices
3ANSB_9	M.L. Barrenäs Hearing protection in everyday practice - the gap between expert knowledge and the beliefs of the workers
(no paper)	Acoustic modeling and measurements of hearing protectors for impulsive noise
(no paper)	A rating system in search of hearing protectors
(no paper)	Four protectors in search of a rating system (Poster)
3ANSB_13	Paulo Henrique Trombetta Zannin Effects of design parameters - cup, cushion, band force, foam lining - on the attenuation of earmuffs (Poster)

3aNScNoise and Physical Acoustics:
Experience with Noise Prediction II

(no paper)	Experiences with high speed algorithms for full field predictions of long range sound propagation in the atmosphere
3ANSC_2	G. Kerry, M. West The development of prediction models to control noise levels around UK firing ranges
(no paper)	Measurements and computations of shooting noise: Part 1: Muzzle noise
(no paper)	Measurements and computations of shooting noise. Part 2: Bullet noise
3ANSC_5	Reinhard Blumrich, Jürgen Altmann Calculation of aircraft sound propagation on airports via determination of the ground impedance
(no paper)	Forecasts of sound propagation by a mesoscale atmospheric model
3ANSC_7	Eric Premat, Yannick Gabillet Meteo-BEM: A new hybrid approach to predict noise barriers efficiency with meteorological effects, theory and comparison with experimental results
3ANSC_8	George A. Luz Assessing changes in the noise environment from military training ranges: A case study in forensic acoustics
(no paper)	Moving point source - A simple model for predicting statistical sound levels in the neighborhood
3ANSC_10	R. Bütikofer, G. Thomann, S. Plüss Track dispersion in aircraft noise modeling
3ANSC_11	Norbert Kalus Computational methods for designing a silator - a low frequency resonator element

3aNSd Noise: Aerodynamic Noise of Vehicles

3ANSD_1	Hajime Fujita, Akio Sagawa Characteristics of the Aeolian tone generated from cylinders in conjunction with pantograph noise control
(no paper)	Reducing the sound emission of TRANSRAPID by decreasing the aerodynamic sound sources
3ANSD_3	Mikio Yamazaki, Yasuyuki Goto, Masaaki Miyamoto, Makoto Ueno, Yasuo Zenda, Masanobu Iida Aerodynamic noise from vehicles on the Yamanashi Maglev Test Line
(no paper)	Sound radiation from flow-excited elastically supported rectangular panels
3ANSD_5	Th. Lölgen Wind tunnel noise measurements on full-scale pantograph models
3ANSD_6	Marc C. Jacob, Alain Louisot, Daniel Juvé, Sylvie Guerrand Measurements of sound radiated by turbulent wall jets past singularities
3ANSD_7	W. F. King III, B. Barsikow, M. Klemenz Boundary-layer noise from high-speed vehicles: Theory and measurement
3ANSD_8	Antonio Reig, José L. Manglano, Esteban Gaja, Salvador Sancho The relationship between the sound power level and different parameters of a single vehicle noise
(no paper)	Experimental investigations of surface pressure fluctuations related to car interior noise

3aNSeNoise:IEC61672 - The New International Standard for Sound Level Meters

(no paper)	Introductory remarks
3ANSE_2	William V. Richings Scope of the new standard
3ANSE_3	Gaston Banget-Mossaz, Jean-Noël Durocher Free-field response of sound level meters
3ANSE_4	Peter Hedegaard Frequency weightings and responses
(no paper)	Response to steady signals
(no paper)	Response to non-steady signals
3ANSE_7	Hiroaki Takinami Peak C-weighted sound pressure level
3ANSE_8	Richard Tyler Environmental considerations for sound level meters according to IEC 61672
3ANSE_9	Susan P. Dowson Uncertainties of measurement and IEC 61672
(no paper)	Tolerances of "A" weighting at extreme frequencies
(no paper)	Summary

3aNSf Noise: Turbomachinery Noise

3ANSF_1	Michel Roger On the noise from turbomachinery and ducted fans - A review of prediction methods
(no paper)	Predicting the effects of blade geometry on rotor-stator interaction noise
(no paper)	Numerical analysis and active control of wake/blade-row interaction noise
(no paper)	An analytical model for upstream and downstream sound power from swept blade rows
3ANSF_5	Yadong Lu, Jing Tian A cut-off attenuator with perforated plates in a centrifugal fan and it's aeroacoustic experiments
3ANSF_6	M. J. Greaves, B. A. T. Petersson Performance of acoustic liners for jet engine intake ducts
(no paper)	Acoustical forced oscillation diagnosis method of cracks for turbomachinery

3aPAa Physical Acoustics: Duct Acoustics I

(no paper)	Energy conservation time reversal invariance and reciprocity
(no paper)	Acoustic energy estimates in inhomogeneous moving media
3APAA_3	Walter Eversman A reverse flow theorem and acoustic reciprocity in compressible potential flows
(no paper)	Acoustics of ducted sources in motion
3APAA_5	R. Kirby, A. Cummings The effects of flanking transmission on sound attenuation in lined air-conditioning ducts
(no paper)	Sound transmission in a slowly varying flow duct with lossless liner
(no paper)	Scattering at localized absorbers in a lined duct wall
(no paper)	Nonlinear standing waves in the two tube structure
(no paper)	Acoustic pulse reflectometry for the measurement of tubular structures
3APAA_10	Fredrik Albertson Negative resistances in nonlinear lumped acoustic systems and IC-engine source data
(no paper)	Sound speed determination in a fluid-filled elastic waveguide
3APAA_12	Rudolf N. Starobinski Sound propagation in a conical duct with flow
3APAA_13	Fathy B. Shenoda, A. Zaki, Albeer F. B. Shenoda A new acoustic conductor (Poster)

3aPAbPhysical Acoustics:
Nonlinear Motion of Bubbles and Drops II

3APAB_1	T.G. Leighton, B. T. Cox, P. R. Birkin, T. Bayliss The Rayleigh-like collapse of a conical bubble: Measurements of meniscus, liquid pressure, and electrochemistry
(no paper)	Probing and stabilization of interfaces with acoustic radiation pressure: Application to bubbles and capillary bridges
(no paper)	Acoustic radiation forces on bubbles in real fluids
3APAB_4	JL. Laborde Cavitation bubbles´ motions under ultrasound
(no paper)	[cancelled; discussion or break]
(no paper)	Control of nonlinear bubble dynamics
(no paper)	Effects of shape oscillations on bubble dynamics and coalescence
(no paper)	Bubble response to the amplitude modulation signal near the threshold of dynamic stability
(no paper)	An acoustic levitation technique for measuring the rheology of foam near the order-disorder transition

3aPAc Physical Acoustics: Periodic and Layered Media

(no paper)	Time-domain Floquet-wave Green's function for an infinite sequentially excited periodic line array of point radiators
3APAC_2	A. Alippi, M. Germano, A. Bettucci Propagation features of evanescent acoustic waves
(no paper)	[cancelled; discussion or break]
(no paper)	[cancelled; discussion or break]
3APAC_5	Christopher Carr, Roger Yu Sonic band structure and localized modes in a density-modulated system: An experimental and theoretical study
3APAC_6	Catherine Potel, Stefaan Devolder, Jean-François de Belleval, Oswald Leroy, Martine Wevers Multilayered Rayleigh waves in anisotropic periodically multilayered media: Comparison between theory and experiments using acousto-optic technique
3APAC_7	Philippe Gatignol, Catherine Potel, Jean-François de Belleval Modal waves in periodically multilayered fluid structures
3APAC_8	Aly H. A. Moustafa A theoretical investigation of sound transmission through a layered periodic structure in water
3APAC_9	Bruno Rogé, Patrick Lanceleur, Jean-François de Belleval Modeling of inhomogeneous monochromatic plane waves at the interface between two arbitrary homogeneous anisotropic absorbent media
3APAC_10	S. Pogorzelski, J. Szurkowski, A. Śliwiński Micellar structures in layered oil/water surface systems studied with photoacoustics spectroscopy
(no paper)	[cancelled; discussion or break]
3APAC_12	Daumantas Čiplys, Romualdas Rimeika Surface acoustic waves in proton-exchanged lithium niobate

>>> Go back to	Table of	Contents <<<
----------------	----------	--------------

3aPPaPsychological and Physiological Acoustics and Speech Communication:
Localization and Speech Perception in Realistic Acoustic Environments

(no paper)	Localization of sound in reverberant spaces
(no paper)	Localization of distracted speech and noise in reverberant and anechoic environments
(no paper)	The precedence effect: Fusion and localization dominance
(no paper)	Physiological studies and neural mechanisms of echo suppression in the inferior colliculus of the cat
(no paper)	The cocktail party effect: Research and applications
(no paper)	Binaural hearing by listeners with hearing impairments
(no paper)	The "cocktail-party effect" viewed through the lens of psychophysics
(no paper)	Application of localization models to noise suppression in hearing aids
3APPA_9	Thomas Hempel, Sebastian Möller, Ute Jekosch, Sabine Meunier, Xavier Regal Speech perception in telephone situations under ambient noise conditions
(no paper)	Effects of aging on sound localization and speech understanding in realistic listening situations
(no paper)	Localization of distracted sound sources: Determining the role of binaural cues using unilaterally attenuated and interaurally uncorrelated signals
(no paper)	Localization ability in the horizontal plane in adverse auditory environments

3aPPb	Psychological and Physiological Acoustics: Spectral Parameters (Poster Session)
(no paper)	The lower limit of melodic pitch with filtered harmonic complexes (Poster)
(no paper)	Further examination of the relationship between overshoot and filtering (Poster)
3APPB_3	Takuro Kayahara, Takao Sato Frequency discrimination following linear frequency glide (Poster)
3APPB_4	Prudence Allen, Louise Korpela Notched-noise measures of frequency resolution in children: What acoustic cues are available at threshold levels? (Poster)
3APPB_5	Roel Delahaye, Deborah A. Fantini, Ray Meddis Effects of practice on performance for masked signal detection (Poster)
3APPB_6	Jesko L. Verhey, Torsten Dau Simulations of spectral masking and the asymmetry of masking (Poster)
(no paper)	Spectral integration of auditory temporal information (Poster)
(no paper)	Direction discrimination for formant-frequency glides and modulation (Poster)
(no paper)	Estimating the phase characteristic of the auditory system from masking by harmonic complexes (Poster)
3APPB_10	Ulrich Haupt, Reinhard Weber Unexpected dependency of psychoacoustical sharpness on the bandwidth of noise (Poster)
(no paper)	Gap detection within and across perceptual channels (Poster)
3APPB_12	Jürgen Altmann Acoustic weapons? Effects of very high sound levels (Poster)

3aSAStructural Acoustics and Vibration:
International Workshop on Active Noise and Vibration Control -
- Active Control of Sound Radiation and Transmission

3ASA1	S.J. Pietrzko Vibrations of double wall structures around mass-air-mass resonance
3ASA2	M. J. Brennan, S. M. Kim Active control of random sound transmission in a structural-acoustic system
(no paper)	Near field control of complex sources
(no paper)	A comparison of active control strategies for the reduction of sound transmission through double panels
(no paper)	Intensity error sensing in the active control of sound
(no paper)	Simulations of the feedback control of sound transmission through a plate using measured data
3ASA7	Kris Henrioulle, Paul Sas Experiments on the active increase of sound transmission loss using distributed actuators
(no paper)	An experimental investigation of a novel active segmented partition for sound transmission control
3ASA9	María Cuesta, Pedro Cobo A passive/active hybrid system for control of the noise radiated by a small enclosure

3aSCaSpeech Communication:
Psychoacoustic Methods in Speech Recognition I

3ASCA_1	Hiroya Fujisaki What can we learn from human processes of spoken language comprehension?
3ASCA_2	Jürgen Tchorz, Birger Kollmeier A psychoacoustical model of the auditory periphery as front end for ASR
(no paper)	discussion
3ASCA_3	Jürgen Tchorz, Birger Kollmeier Automatic classification of the acoustical situation using amplitude modulation spectrograms
3ASCA_4	Klaus Kasper, Herbert Reininger Evaluation of PEMO in robust speech recognition
(no paper)	discussion
3ASCA_5	Steven Greenberg, Takayuki Arai, Brian Kingsbury, Nelson Morgan, Michael Shire, Rosaria Silipo, Su-Lin Wu Syllable-based speech recognition using auditory-like features
(no paper)	The profile of interaural decorrelation across frequency: A Binaural representation of pitch and timbre
(no paper)	discussion
(no paper)	Recognition of speech from temporal patterns
(no paper)	Some musings on systematic variability and speech recognition
(no paper)	discussion

3aSCb Speech Communication: Fluid Dynamic Models for Speech Production

(no paper)	Fluid dynamic effects in speech
(no paper)	Turbulent glottal flow during phonation
(no paper)	A study of the supraglottal flow behavior during phonation
(no paper)	Models of frication: Advances and limitations
(no paper)	Computational aeroacoustics of subsonic jets for application to speech production
(no paper)	Synthesis of unvoiced speech sounds using an aeroacoustic source model
(no paper)	discussion
(no paper)	A computational study of glottal obliquity
(no paper)	Estimating the non-acoustic fluctuating velocity amplitude from Cranen and Boves' vowel production data
(no paper)	A model of vocal-tract acoustics and aeroacoustics validated by flow experiments
3ASCB_10	Eugen Gallasch Vocal microtremor assessed by complex demodulation
3ASCB_11	Jorge C. Lucero Bifurcations at voice onset-offset

3aSP Signal Processing in Acoustics and Engineering Acoustics: Binaural Technology I

(no paper)	Sound localization with unilaterally degraded spectral cues
3ASP2	Roland Sottek, Klaus Genuit Physical modeling of individual head-related transfer functions
(no paper)	The relevance of the shoulder bounce to HRTFs considering head movements
(no paper)	Determination of optimal HRTFs for binaural synthesis
(no paper)	The effects of source characteristics on the auditory localization of nearby sources
(no paper)	Role of two ears in upper hemisphere localization
(no paper)	Generation of binaural information using cross ambiguity functions
(no paper)	Audition and the sense of presence in virtual environments
(no paper)	A series of experiments exploring the spatial separate of multiple talkers with 3-D audio technology
3ASP_10	Hirofumi Yanagawa, Takatoshi Okuno Sound-image broadening by a single echo and its relation to the transient interaural cross- correlation function
(no paper)	Applications of virtual auditory space in psychoacoustics and neurophysiology
3ASP_12	K. Genuit, J. Poggenburg The importance of binaural auralization for automotive industry

3aUWa Underwater Acoustics: Scattering from Finite Structures Near Boundaries

3AUWA_1	J. A. Fawcett Modeling scattering by objects near an interface
(no paper)	Measurement of 3-D scattering from buried targets in very shallow water
3AUWA_3	Otto von Estorff, Wulf-Christof von Karstedt, Olgierd Zaleski Acoustic investigation of objects in shallow water using FEM and BEM
(no paper)	A comparison of benchmark acoustic scattering solutions with tank experiments on buried and partially buried spheres
(no paper)	Modeling scattering from objects near boundaries using infinite elements
(no paper)	Measurements of acoustic scattering from partially and completely buried thin-shelled targets
(no paper)	Target classification in shallow waters by time-frequency-filtering
(no paper)	Numerical simulation of transient scattering from bodies and shells in a layered fluid-solid medium
3AUWA_9	Rafael Carbó, Adriana C. Molero Sea experimental detection of an array of hollow spheres
(no paper)	Sound diffraction by an underwater topographical ridge
3AUWA_11	H. Khelladi, H. Djelouah Analysis of boundaries effects in the evaluation of transient ultrasonic fields scattered by a rigid reflector (Poster)
(no paper)	[cancelled] (Poster)

3aUWb Underwater Acoustics and Acoustical Oceanography: Ultra Low Frequency (<1 kHz) Ocean Acoustics

(no paper)	A review of ocean acoustics in the band 0.001-1.0 Hz
(no paper)	Ocean bottom seismic noise (1-10,000s)
(no paper)	Lessons from the ocean seismic network pilot experiment
(no paper)	Evaluation of teleseismic waveforms and detection thresholds from the OSN pilot experiment
3AUWB_5	Hans W. Gerber, Francesco Gasparoni, Paolo Favali, Giuseppe Smriglio, Jean Marvaldi, Jean-Michel Coudeville, Claude Millot GEOSTAR benthic observatory: Technological results
(no paper)	Low-frequency dispersion computations by compound-matric propagation
(no paper)	[cancelled; discussion or break]
(no paper)	Validation and application of an effective medium theory to heterogeneous anisotropic structures

3aUWc Underwater Acoustics: Transducers Arrays and Instrumentation (Poster Session)

- (no paper)Optoacoustic technique for remote control of underwater oceanographic instrumentation (Poster)(no paper)Laser optoacoustic diagnostics of sea ice (Poster)(no paper)[cancelled] (Poster)(no paper)[cancelled] (Poster)
- 3AUWC_5 Joon-il Song, Byung-Doo Jun, Jun-seok Lim, Koeng-Mo Sung A linearly constrained design method for minimizing the interference effect in linear and planar array (Poster)

(no paper) New sonar technologies using lower sound pressure levels (Poster)

3p - WEDNESDAY AFTERNOON, 17 MARCH 1999

3pAAa Architectural Acoustics and Signal Processing in Acoustics: Verification of Auralization and Modeling Programs I

3PAAA_1	Bengt-Inge Dalenbäck Verification of prediction based on randomized tail-corrected cone-tracing and array modeling
(no paper)	Report on the second International Round Robin on Room Acoustical Computer Simulation
3PAAA_3	Jens Holger Rindel, Hiroyoshi Shiokawa, Claus Lynge Christensen, Anders Christian Gade Comparisons between computer simulations of room acoustical parameters and those measured in concert halls
3PAAA_4	Wolfgang Ahnert, Stefan Feistel Real time auralization with EASE 3.0
(no paper)	[cancelled; discussion or break]
(no paper)	A computer auralization and "real world" comparison using the computer programs EASE and EARS

3pAAb Architectural Acoustics: Sound Insulation and Subjective Annoyance

- (no paper) On the utility of extending the low frequency range of standards for sound isolation in buildings
- (no paper) On subjective impact sound insulation classes
- (no paper) Group subjective ratings of airborne sound insulation
- (no paper) Considerations about the influence of traffic noise in the design of new hospitals

3PAAB_5 Wolfgang Teuber, Ernst-Joachim Voelker Vibrations caused by construction work - measurements & surveillance

3pAO Acoustical Oceanography and Underwater Acoustics: Acoustic Tomography and Thermometry II

(no paper)	Shallow-water tomography: Acoustic maps of the New England shelfbreak front
(no paper)	Broad band geo-acoustic inversion in shallow water
(no paper)	Results for tomographic geoacoustic inversion on simulated multi-array data
3PAO4	D. Mauuary, B. Faure The acoustic data preprocessing in the TOMOLAB/OCTOPUS project
(no paper)	Matched-peak tomography
3PAO6	M. I. Taroudakis, M. G. Markaki On the simultaneous estimation of current and sound velocity structure in the ocean, using matched-field processing
(no paper)	The experimental demonstration of selective mode excitation in a shallow water environment (Poster)
(no paper)	Model of acoustic monitoring of heat and mass transport in the Fram Strait (Poster)
(no paper)	Internal wave inversions for 1 year of Pioneer Hawaii ATOC transmission (Poster)
(no paper)	AMOC: Preliminary results (Poster)
3PAO_11	Alexander Ya. Kalyuzhny, Leonid G. Krasny Method of the main informative components for acoustic tomography (Poster)
(no paper)	An ocean acoustic tomography experiment in the Central Labrador Sea-First Results (Poster)

3pEA Engineering Acoustics and Underwater Acoustics: Recent Advances in Underwater Transducers II

- (no paper) Application of the Tonpilz design for optimizing parameters of rod transducers
 (no paper) Large aperture 1-3 composite longitudinal resonator (tonpilz) transducer
 (no paper) The development of a doubly curved acoustic array using injection molded 1-3 piezocomposite
 (no paper) Ultra-wide bandwidth backscattering measurements using a transparent flat PVDF sheet source
 (no paper) Mechanical properties of lead magnesium niobate/lead titanate ceramics
- (no paper) Evidence of non-linear losses in electrostrictive materials

>>> Go back to Table of Contents <<<

3pED Education in Acoustics: Take Fives--Sharing Ideas for Teaching Acoustics

5 minute demonstrations on new laboratory experiments, videos, sound examples, ideas for teaching acoustics etc.

No papers could be submitted for this session.

3pMU Musical Acoustics: Musical Instruments and Structural Acoustics II: Piano and Related Instruments

3PMU1	Anatoli Stulov Method of piano hammer parameters determination
3PMU2	Hideyuki Tanaka, Keinosuke Nagai, Koichi Mizutani Experimental analysis of two-dimensional vibration of piano-string measured with optical device
(no paper)	Damping of string motion, a significant parameter for the sound quality
(no paper)	The influence of inharmonicity on piano tuning
(no paper)	Psychoacoustic model for calculating the sound quality of piano tones
3PMU6	Edgar Lieber Stiffness of strings; significance in musical acoustics

3pNSa Noise: Tribute to Henning E. von Gierke

- (no paper) Henning E. von Giertke: Mentor, colleague, and public policy leader
- (no paper) Reserach pioneer in biomechanics, Henning E. von Gierke
- (no paper) The major historical events in the relating noise induced hearing loss to noise exposure
- (no paper) 50-year legacy of Henning E. von Gierke's scientific and engineering excellence

3pNSbNoise:
Rotor Noise from Helicopters and Propellers(no paper)European helicopter rotor noise research - Highlights of recent projects

3PNSB_2	Jean Prieur Analysis and capability of a non-compact integration method for rotor noise prediction
(no paper)	Analysis of the excess noise of aircraft pusher propellers
(no paper)	Recent developments in helicopter rotor noise prediction at NASA
(no paper)	Passive-active low-frequency vibroacoustical fault diagnosis method
3PNSB_6	James C. Yu, Kenneth D. Wright, John S. Preisser, Michael A. Marcolini Development of field measurement systems for flight vehicle noise

3pPA Physical Acoustics: Duct Acoustics II

(no paper)	Interaction between resonators and fluid motion in ducts
3PPA2	Björn Lange, Dirk Ronneberger Active noise control by use of an aeroacoustic instability
(no paper)	Computational aeroacoustics of ducts using parallel computers
(no paper)	On the exact solution of the acoustic wave equation in a parabolic velocity profile in a hard-walled duct
3PPA5	Lars Enghardt, Yanchang Zhang, Wolfgang Neise Experimental verification of a radial mode analysis technique using wall-flush mounted sensors
(no paper)	Experimental study of acoustic impedance of a Helmholtz resonator submitted to a grazing flow
(no paper)	On the acoustic of inverse sinusoidal and catenoidal nozzles (Poster)

3pPPa Psychological and Physiological Acoustics: Perceptual Processing of Cross-Spectral Information

(no paper)	Matching formant frequencies of complex sounds on different fundamentals
(no paper)	A "missing data" model of F0-invariance in vowel perception
(no paper)	Evidence of a dissociation between the mechanisms governing the perceptual grouping of spectral components and the computation of low pitch
(no paper)	Auditory processing of coherent and incoherent frequency modulation
(no paper)	Searching for a time window for timbre: Dynamic spectral profiles
(no paper)	[cancelled; discussion or break]

3pPPb Psychological and Physiological Acoustics: Sound Quality

3PPPB_1	Reinhard Weber Interior car sound quality - Assessment of acceleration noises
3PPPB_2	Monica Söderholm, Daniel Västfjäll The influence of sound quality on expected visual impression
3PPPB_3	Etienne Parizet Comparison of two semantic-differential test methods
3PPPB_4	G. Krump Concerning the perception of narrow band frequency response variations of loudspeakers
3PPPB_5	Kai Johannsen, Holger Prante Determination of hearing dimensions and their relations to psychoacoustic descriptors
3PPPB_6	Jörg Becker-Schweitzer, Markus Sapp, Frederik Görges New approach in measuring auditory source width

3pSA Structural Acoustics and Vibration: Structural Vibrations

- 3PSA___1 Qingchun Li, Jacek Jarzynski Torsional waves in a viscoelastic layer
- 3PSA_2
 S. Finnveden, R. J. Pinnington

 Strain concentration and fatigue of pipework
- (no paper) On the dynamic interaction of a pipe conveying fluid with an elastic resisting medium
- (no paper) Investigation at a top counter weight of a washing machine
- (no paper) A mixed use of finite element and geometrical techniques
- (no paper) Irregular modes at the endshield of a heating system motor

3pSCSpeech Communication:
Psychoacoustic Methods in Speech Recognition II

(no paper)Application of a roughness model to pathological voices(no paper)How children recognize spoken words in speech recognition threshold assessment**3PSC__3**M. Brucke, W. Nebel, A. Schwarz, B. Mertsching, M. Hansen, B. Kollmeier
Silicon cochlea: A digital VLSI implementation of a quantitative model of the auditory
system**3PSC__4**Wolfgang Wokurek
Entropy rate based speech segmentation

(no paper) discussion

3pSP Signal Processing in Acoustics and Engineering Acoustics: Binaural Technology II

(no paper)	Implementation issues in the development of a real-time, Windows-based system to study spatial hearing
(no paper)	Computational model of an individual head-related transfer function using the BEM
(no paper)	Auditory perception of reverberant surroundings
3PSP4	Paul Shields, Mark Girolami, Douglas Campbell A comparison of wide-band LMS, sub-band LMS and the SAMLE approach to adaptive noise cancellation for speech enhancement
(no paper)	[cancelled; discussion or break]

3pUWa Underwater Acoustics: Sediment Acoustics

3PUWA_4	Isaac R. Shreiber Bulk viscidity model in acoustics of bubbly water saturated soil
(no paper)	Sediment critical angle estimation via in-situ acoustic measurements
(no paper)	In-sediment coherence measurements in a very shallow water area
(no paper)	Volume scattering realizations from ocean sediment sound speed and density inhomogeneities

3PUWA_5 Franck Sgard, Noureddine Atalla, Raymond Panneton A mixed wave-finite element approach for solving Biot's poroelasticity equations in acoustics

3pUWb Underwater Acoustics: Scattering from Underwater Structures

3PUWB_1	Harald Peine, Wolfgang Kroll Influence of sound-structure interaction on backscattering amplitude in underwater acoustics
(no paper)	A perturbation theory for scattering from targets near rough surface sediments: Numerical results
(no paper)	Localized modes of oscillating structures which lie on the bottom
(no paper)	Trapping modes of oscillations in an infinitely long waveguide with submerged object in the form of a massive die
(no paper)	Repulsion phenomena in the phase-velocity dispersion curves of circumferential waves on elastic cylindrical shells
(no paper)	Localization in acoustic propagation in water with air cylinders

4a - THURSDAY MORNING, 18 MARCH 1999

4aAAa Architectural Acoustics and Signal Processing in Acoustics: Verification of Auralization and Modeling Programs II

(no paper)	Prediction of subjective properties of a sound field in a concert hall with tenth-scale model
(no paper)	The geometric room model as a surround-sound auralization resource
4AAAA_3	Dominique Archambeau Realization of an auralization software based on echograms calculated by a sound ray technique
(no paper)	[cancelled; discussion or break]
4AAAA_5	Rendell Torres, Mendel Kleiner Considerations for including surface scattering in auralization
(no paper)	Acoustical modeling and auralization as a design tool for concert hall renovation
4AAAA7	Jean-François Dindart, Jean-Jacques Embrechts, Catherine Sémidor Use of a Kirchhoff bidirectional reflectance distribution function in a particle tracing method
4AAAA8	Guido Bartsch A simulation package for room acoustics with an open interface
4AAAA_9	Andor T. Fürjes, Éva Arató-Borsi, Fülöp Augusztinovicz, Tamás Póth Evaluation and modeling of small rooms

4aAAb Architectural Acoustics: Development and Verification of Prediction Methods in Building Acoustics

(no paper)	Intercomparison test of sound insulation measurement in test facilities I
(no paper)	Intercomparison text of sound insulation measurement in test facilities II
4AAAB_3	Sean Smith, Roberto Pompoli Verification of using SEA to model differing laboratory conditions
4AAAB4	Marco Fringuellino, Sean Smith Predicting sound transmission through perforated brick walls using SEA
4AAAB_5	Eddy Gerretsen Predicting the sound reduction of building elements from material data
4AAAB_6	Carl Hopkins Measurement of Kij with free-standing masonry walls
4AAAB 7	T.R.T. Nightingale, R. E. Halliwell Vibration response of building elements in wood frame constructions when excited along an edge
4AAAB8	Ivan Bosmans, Trevor R.T. Nightingale Structure-borne sound transmission at floor/joist connections in wood frame buildings
4AAAB_9	Dan Brøsted Pedersen Evaluation of prEN part 1 and 2 for Nordic dwelling houses
4AAAB_10	Heinrich A. Metzen Application of CEN-prediction models to German building situations
4AAAB_11	Rolf Schumacher, Bernd Saß Vertical flanking sound transmission loss by timber-frame-glass-facades
4AAAB_12	Bernd Saß, Rolf Schumacher, Hans Froehlich About the sound insulation of windows
(no paper)	[cancelled] (Poster)
4AAAB_14	Manuel Recuero López, Constantino Gil, Antonio Mínguez Prediction equations of isolating systems: Gypsum panels (Poster)

4aABa Animal Bioacoustics: Acoustics of Terrestrial Animals

(no paper)	Spotted owls reactions to helicopter and chain saw noise
(no paper)	Mechanisms of auditory distance perception in passerine birds
4AABA3	Karl-Heinz Frommolt Acoustic structure of chorus howling in wolves and consequences for sound propagation
(no paper)	The harmonics to noise ratio applied to dog barks
4AABA_5	Bernd Faulstich, Manfred Kössl Otoacoustic emissions and their neuronal correlates in the Mongolian gerbil
(no paper)	Aversion related changes in the call structure of Squirrel monkey vocalizations
4AABA7	G. Marx, E. von Borell, T. Horn, J. Thielebein Vocalisation analysis during the castration of pigs

4aABb Animal Bioacoustics: Acoustics of Echolocating Animals

- (no paper) Do echolocating bats use the acoustic flow field?
- (no paper) Auditory scene analysis for perceptually-guided behavior in the echolocating bat
- (no paper) Auditory categories for the perception of echo spectra in bats
- (no paper) Does echolocation wavelength restrict bats' choice of prey?
- (no paper) The role of selection in marine mammal biosonar: Why pinnipeds don't echolocate

4aAO	Acoustical Oceanography: Seafloor Classification I
(no paper)	A theoretical and experimental examination of seabed discrimination using the 1st and 2nd backscatter from an echo sounder
(no paper)	Variability in the acoustic response from natural shallow water marine sediments
4AAO3	Xavier Lurton, Laurent Guillon Seafloor characterization using a low-frequency multibeam echosounder: Ambiguities in backscattering strength interpretation
4AAO4	Philippe Blondel Textural analysis of sidescan sonar imagery and generic seafloor characterisation
(no paper)	Optimized echo-envelope matching for acoustic sediment classification with high frequency single beam sonars
(no paper)	Recent advances in acoustic sediment classification
(no paper)	Inversion of short range bistatic scatter for seabed properties
(no paper)	Sediment geoacoustics properties determined from local and spatially integrated measurements of interface waves
(no paper)	Model-based seafloor identification with parametric sonar data: Experimental results
(no paper)	[cancelled; discussion or break]
4AAO_11	Ling Xiao, Renhe Zhang, Zaixiao Gong Estimating the ocean bottom properties from multi-frequency data by controlled exhausted search method
(no paper)	Seismic depth imaging and remote sensing of rock properties

4aBB	Biomedical Ultrasound/Bioresponse to Vibration: Modeling and Imaging
(no paper)	Time domain numerical solution of the KZK equation for modeling sound beams radiated by rectangular sources
4ABB2	A. Lorenz, G. Schäpers, HJ. Sommerfeld, M. Garcia-Schürmann, S. Philippou, T. Senge, H. Ermert On the use of a modified optical flow algorithm for the correction of axial strain estimates in ultrasonic elastography for medical diagnosis
4ABB3	Jochen F. Krücker, Charles R. Meyer, Theresa A. Tuthill, Gerald L. LeCarpentier, J. Brian Fowlkes, Paul L. Carson 3D compounding of B-Scan ultrasound images
4ABB4	Andriy Borisyuk Modeling of noise generation by turbulence in a larger human blood vessel
4ABB5	Tadeusz Powałowski, Zbigniew Trawiński, Arnold Hoeks, Marcel Rutten Ultrasonic examination of the forward and reflected pressure waves in human arteries
(no paper)	Ultrasound diagnostic of the blood-vessels random neoplasm distributed in focus sphere limited environs
4ABB7	Victor I. Passechnik, Andrej A. Anosov, Konstantin M. Bograchev Passive thermoacoustic tomography - A new kind of acoustic imaging for material testing and medicine
4ABB8	Marek Moszyński, Waldemar Lis, Roman Salamon Wavelet imaging of the temporomandibular joint in motion for a real-time diagnosing system
(no paper)	Pulse waveform design using time reversal for cardiac ultrasound imaging
(no paper)	Potential applications of ultrasound-stimulated vibro-acoustography in medical diagnosis and material characterization

4aEA Engineering Acoustics and Signal Processing in Acoustics: Digital Signal Processing for Hearing Aids I

4AEA1	Jeremy Agnew Digital signal processing in hearing aids
(no paper)	Noise reduction algorithms for digital hearing instruments
(no paper)	Noise reduction strategies employing interaural parameters
4AEA4	Mark Marzinzik, Thomas Wittkop, Birger Kollmeier Combination of monaural and binaural noise suppression algorithms and its use for the hearing impaired
(no paper)	Signal processing algorithms for an open-platform DSP hearing aid
4AEA6	Søren Laugesen, Kim Vejlby Hansen, Johan Hellgren Acceptable delays in hearing aids and implications for feedback cancellation
4AEA7	Juan Carlos Tejero-Calado, Janet C. Rutledge, Peggy B. Nelson Real-time combined compression and linear gain processing for digital hearing aids
(no paper)	Electrical compensation of the microphone sensitivities in a dual microphone directional hearing aid
(no paper)	Acoustic feedback reduction in hearing aids - A feasibility study
(no paper)	A 4-microphone noise reduction system for hearing aids
4AEA11	G. Szwoch, B. Kostek Modeling of acoustics of hearing aid earmold systems
4AEA_12	Uwe Rass, Gerhard H. Steeger A high performance wearable signal processor system for the evaluation of digital hearing aid algorithms

4aED Education in Acoustics: Demonstrations in Acoustics Education

(no paper)	A computer based lung sound simulator
4AED2	Vygantas Augutis, Darius Gailius Measurement and visualization of vibroacoustic fields caused by impact on a surface of a solid
(no paper)	Speech and hearing demonstrations in MATLAB
(no paper)	Hydrodynamic analog of a thermoacoustic device
4AED5	Martina Kremer, Detlef Krahé A learning program in psychoacoustics with interactive computer-based listening experiments
(no paper)	[cancelled; discussion or break]
(no paper)	Education of applied acoustics for students of automotive engineering (Poster)
4AED8	Pierre Dutilleux, Christian Müller-Tomfelde AML - Architecture and music laboratory (Poster)

4aMU Musical Acoustics: Quality of Musical Instruments and Human Voice

(no paper)	Some aspects on fairly objective results of subjective tests
(no paper)	Vocal qualities that singers can control but often limit
(no paper)	Assessment of musical instrument quality criteria: The notion of "openness" for a trumpet
4AMU4	Gregor Widholm Diagnosis and therapy for brasses. Measurement, evaluation and improvement of the acoustic quality of brass wind instruments
(no paper)	Violin quality and bridge mobility
(no paper)	Quality aspects of violin bows
(no paper)	Tone quality and important modal properties of the guitar
(no paper)	Acoustic quality of musical instruments and categorization
4AMU9	Alexander Galembo, Anders Askenfelt, Lola L. Cuddy On the effect of phase relations for the perception of pitch and timbre of bass tones
4AMU_10	Jan Tro Evaluation of performance precision in piano chords
(no paper)	The effect of crook profile on the perceived playing properties of the bassoon
(no paper)	A common origin for vocal accuracy and melodic expectancy: Vocal constraints

4aNSa Noise: Transportation Noise and Its Effects on People

4ANSA_1	Evy Öhrström Sleep disturbances caused by road traffic noise
(no paper)	[cancelled; discussion or break]
4ANSA_3	Barbara Griefahn, Carola Deppe, Peter Mehnert, Rudolf Moog, Ulrich Moehler, Anke Schümer-Kohrs, Rudolf Schuemer An interdisciplinary study on railway and road traffic noise: Behavioral results
4ANSA_4	U. Moehler, M. Liepert, R. Schuemer, B. Griefahn The effects of determination of acoustic data in field studies
4ANSA_5	M. Liepert, U. Moehler, R. Schuemer, B. Griefahn An interdisciplinary study on railway and road traffic noise: Acoustical results
4ANSA_6	Dirk Schreckenberg, Anke Schuemer-Kohrs, Rudolf Schuemer, Barbara Griefahn, Uli Moehler An interdisciplinary study on railway and road traffic noise: Annoyance differences
4ANSA_7	Rainer Guski, Ute Felscher-Suhr, Rudolf Schuemer Measuring retrospective annoyance in field studies: Prerequisites, procedures, and problems
4ANSA8	Monika Bullinger, Staffan Hygge, Gary W. Evans, Markus Meis, Sylvia von Mackensen Psychological & motivational effects of aircraft noise for children
(no paper)	Noise annoyance assessment around Paris airports
(no paper)	[cancelled; discussion or break]

4aNSb Noise: Noise Emission from Machinery I

4ANSB_1	Hans Lazarus, Patrick Kurtz Noise emission - A part of the risk assessment concerning the safety of machinery
(no paper)	A review of current strategies and criteria for low frequency noise control from combustion turbines
(no paper)	Noise emission measurements in situ- A comparison between different methods
4ANSB_4	Jean R. Jacques Strategy for locating the reference sound source and microphones when determining sound power in situ. A theoretical investigation for the revision of ISO 3747.
4ANSB_5	G. Hübner, V. Wittstock Sound power determination using sound intensity scanning procedure - An investigation to check the adequacy of sound field indicators and criteria limiting the measurement uncertainty
4ANSB_6	Gustav A. Sehrndt, Karlheinz Biehn Remarks about the local environmental correction for determination of the emission sound pressure level
4ANSB_7	Gerhard Hübner, André Gerlach Determination of the airborne sound power radiated by structure-borne sound sources of arbitrary shape using the direct finite element method - further developments
4ANSB8	Mirko Čudina Noise as indicator of instability in centrifugal pumps
(no paper)	The description of noise emission from machinery for use in software programs for noise prediction

4aPAa Physical Acoustics and Engineering Acoustics: Numerical Methods for Computing Sound Radiation and Scattering I

(no paper)	Application of the surface variational principle in coupled fluid-structure interaction analysis
4APAA_2	D. W. Herrin, A. F. Seybert, T. W. Wu Energy source simulation method for solving two-dimensional acoustic problems
(no paper)	An impedance coating formulation for a coupled structural acoustics code
4APAA_4	Anton Homm Numerical computation of underwater sound scattering from complex elastic object
(no paper)	Leaky wave scattering contributions of tilted thick cylindrical shells in water above the coincidence frequency: Ray theory and computational models
(no paper)	Model and experiments of multiple acoustical scattering from small obstacles
(no paper)	Computational methods and experimental measurements of scattered ultrasonics transient fields
(no paper)	A time-domain numerical model for the acoustic scattering for rigid or elastic targets
4APAA_9	Eugene J. Danicki, Donna C. Hurley Resonant scattering phenomenon by in-plane periodic cracks
4APAA_10	Ping Wu, Tadeusz Stepinski An approach to calculating spatial impulse response of curved transducers: Linear arrays with cylindrically curved surfaces
(no paper)	Radiation of a sphere near reflecting planes
4APAA_12	Tohru Imamura Ultrasonic field analysis by numerical quadruple integration with repeated trapezoidal rule

4aPAb Physical Acoustics: Measurement and Evaluation of Ultrasound I

(no paper)	Hydrophone calibration at the UK National Physical Laboratory: From primary standards to dissemination
(no paper)	Ultrasonic power measurement by means of radiation force
4APAB_3	Burkhard Fay, Hans-Peter Reimann Thermoacoustic sensors
(no paper)	Fiber-tip sensors for ultrasonic measurement
4APAB_5	Andrew Hurrell, Francis Duck Two dimensional hydrophone arrays: Measurement methods for the new millennium
(no paper)	[cancelled; discussion or break]
(no paper)	Toepler, Mach and Wood: The visualization of sound
4APAB_8	L. Filipczyński, J. Etienne, T. Kujawska, G. Łypacewicz, J. Wójcik Wide band calibration of a PVDF hydrophone by an electromagnetic one using theoretical spectra of overtones
(no paper)	Optical measurement of wide bandwidth ultrasound fields
(no paper)	Methods of beam divergence corrections on broadband direct contact ultrasonic technique
(no paper)	Characterization of ultrasonic contact transducers using a Michelson interferometer

4aPAc Physical Acoustics: Elastic Properties of Materials I: Methods

4APAC_1	B. Cretin, P. Vairac, R. Patois Quantitative measurements of solid and fluid properties with near-field acoustics
(no paper)	[cancelled; discussion or break]
(no paper)	Influence of the deposition conditions on the elastic properties of chemical vapor deposited (CVD) diamond films studies by laser ultrasonics
(no paper)	Measurement of elastic properties of GaAs with laser-generated surface acoustic waves
4APAC_5	Paul Wallner, Werner Ruile, Robert Weigel Behavior of the LSAW loss in multi-layer systems
4APAC_6	F. Honarvar, A. N. Sinclair, Y. Fan Characterization of elastic materials by resonance acoustic spectroscopy
(no paper)	Thermoacoustic testing on thermal protection systems
4APAC_8	Hans Georg Bossemeyer Evaluation technique for spectra of complex Young's moduli
(no paper)	The nonlinear mesoscopic elasticity class of materials
4APAC_10	Koen E-A. Van Den Abeele Elastic nonlinearity and damage detection in quasi-brittle materials using single mode nonlinear resonance acoustic spectroscopy
(no paper)	Nonlinear slow dynamics and memory in rocks

4aPAd Physical Acoustics: Shock Waves in Liquids

(no paper)	Shock wave characteristics in liquids and extracorporeal lithotripsy
(no paper)	Numerical simulation of ultrasonic shock wave propagation in lossy liquids obeying a frequency power law
(no paper)	[cancelled; discussion or break]
(no paper)	Shock waves from cavitation bubbles
(no paper)	Phase conjugated ultrasonic beams of finite amplitude
(no paper)	Acoustic time reversal experiments in nonlinear regime
(no paper)	Nonlinear profiles and spectra transformation in going from vibrating piston to travelling wave
(no paper)	Nonlinear phenomena in resonator caused by finite displacement of vibrating piston
4APAD_9	Michal Bednařík Nonlinear waves in closed tubes
4APAD_10	Claes M. Hedberg The multi-frequency solution for periodic nonlinear and dissipative waves
4APAD_11	A. M. Kochański, J. P. Mejnartowicz, A. Latos-Bieleńska, J. Etienne, L. Filipczyński Double-strand cellular DNA damage by lithotripter generated shock waves

4aPPa Psychological and Physiological Acoustics: Models and Sound Quality (Poster Session)

4APPA_1	Ralph P. Derleth, Torsten Dau Modeling masking patterns for sinusoidal and narrowband noise maskers (Poster)
(no paper)	Frequency selectivity in amplitude-modulation processing (Poster)
4APPA_3	Shin-ichi Sato, Yoichi Ando On the apparent source width (ASW) for bandpass noises related to the IACC and the width of the interaural cross correlation function (W _{IACC}) (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	Time constants of pitch processing arising from auditory filtering (Poster)
4APPA_6	E. Blumschein Do ears really just perform frequency analysis of crackle sound? (Poster)
4APPA_7	Christoph Eichenlaub, Reinhard Weber Relevant psychoacoustic parameters in assessments on wind turbine noises (Poster)
4APPA_8	Imke Raubold, Reinhard Weber Categorical assessments on fluctuation strength of synthesized sounds (Poster)
4APPA_9	Holger Ostendorf, Reinhard Weber Validation of objective assessment methods for tonal noise from wind farms (Poster)
(no paper)	Response to low frequency HVAC noise (Poster)
4APPA_11	Matthias Scholz, Vincent Rioux, Daniel Västfjäll, Mendel Kleiner PSYCHAT - A program for psychoacoustical tests (Poster)

4aPPb Psychological and Physiological Acoustics: Central Auditory Processing

(no paper) Sensory dissonance of two-tone complexes

4APPB_2Nicolle H. van Schijndel, Tammo Houtgast, Joost M. Festen
Perceptual consequences of spectro-temporal smearing in the wavelet coding of speech(no paper)The Indiana test of auditory memory and processing rate (ITAMPR)(no paper)Comparisons between but not within sounds are impaired in stroke victims with unilateral neglect(no paper)Influence of condition variation on learning in auditory backward masking4APPB_6Uwe Seifert, Lueder Schmidt, Randolph Eichert
Computational audition: Perceptual organization and systematic music theory

4aPPc Psychological and Physiological Acoustics, Speech Communication and Musical Acoustics: Honoring the Contributions of Reinier Plomp

- (no paper) On the tones that make music
- (no paper) Honoring the contributions of Reinier Plomp in psychoacoustics
- (no paper) Contributions of spectral resolution to speech recognition in noise
- (no paper) Speech perception: Ideas and concepts initiated by Reinier Plomp
- 4APPC_5 Reinier Plomp 50 years in (psycho)acoustics: Some conclusions

4aSAa Structural Acoustics and Vibration: Smart Materials I

4ASAA_1	U. Gabbert, ChT. Weber Numerical simulation and optimization of smart piezoelectric structures
4ASAA_2	Hans Irschik, Michael Krommer, Uwe Pichler Annihilation of beam vibrations by shaped piezoelectric actuators: Coupled theory and FE- validation
(no paper)	Closed loop finite element modeling of smart structures - an overview
4ASAA_4	F. Bourquin, J-S. Briffaut, M. Collet, M. Joly, L. Ratier Fast control algorithms for beams: Experimental results
(no paper)	[cancelled; discussion or break]
(no paper)	Variational formulations for the vibration of a micropolar piezoelectric body
(no paper)	Active noise reduction for steel bridges
(no paper)	Wavelets transform in oscillation and optimal feedback control of smart cantilever thin walled beams
(no paper)	Love waves in non-classic micropolar piezoelectricity
(no paper)	A coupled finite element-normal modes expansion method to model Lamb waves generated with integrated transducers in composite plates
(no paper)	Active noise and vibration control for turboprop aircraft

4aSAb Structural Acoustics and Vibration: International Workshop on Active Noise and Vibration Control -- Active Noise Control in Enclosures

(no paper)	Developments in active control of aircraft interior noise-Directions for tonal and broadband noise sources
(no paper)	Active noise and vibration control for a high speed railcar: Rolling rig measurements
(no paper)	Two unique approaches for actively controlling the interior acoustic response of a cylindrical aircraft enclosure using active constrained layer damping and end actuation
(no paper)	The reduction of structure-borne road noise by active noise and vibration control
4ASAB_5	Colin F. Ross Active noise control in aircraft cabins
4ASAB_6	Uwe Letens, Gregor Koners, Timothy J. Saunders Adaptive road noise cancellation for a midclass estate car
(no paper)	Active noise control experiences on a GT high speed car
4ASAB_8	M. A. Galland, O. Lacour, D. Thenail Active control of enclosed sound fields via impedance changes
4ASAB_9	Frank Simon, Simone Pauzin Active noise control procedures into a generic composite helicopter cabin
4ASAB_10	M. Viscardi, M. Fontana, A. Vecchio, B. Mocerino, L. Lecce An active approach to interior noise reduction for a modern electrical locomotive
4ASAB_11	Teresa Bravo, Pedro Cobo, Juan Manuel Martín A multichannel active system for control of the booming inside a van

4aSCa Speech Communication: Parameters of F0 Contours

(no paper)	Modeling the alignment of fundamental frequency contours
(no paper)	Measuring perceptual equality
(no paper)	discussion
4ASCA_3	Gregor Möhler
	Comparing two different principles of parametric F ₀ modeling
(no paper)	Analysis and synthesis of F0 contours by linear prediction coding

>>> Go back to Table of Contents <<<

4aSCb Speech Communication: Potpourri of Speech Production, Speech Disorders, Auditory Feedback and Other Fascinating Topics (Poster Session) 4ASCB 1 Patrick C.M. Woog Pandy L. Diebl

4ASCB_1	The effect of reduced tonal space in Parkinsonian speech on the perception of Cantonese tones (Poster)
4ASCB_2	Masanobu Kumada, Fredericka Bell-Berti, Douglas N. Honorof Comparing materials for the evaluation of spasmodic dysphonia patients (Poster)
(no paper)	Perceptual rating and acoustic analysis of tracheo-esophageal voice (Poster)
(no paper)	Assessment of BOTOX effects on adductor spasmodic dysphonia using LTAS guided analysis (Poster)
(no paper)	Linear and nonlinear responses to speech rate in left and right temporal cortex (Poster)
(no paper)	A functional neuroimaging comparison of the neural processing of speech and signal correlated noise (Poster)
(no paper)	Brain function in spasmodic dysphonia: A functional MRI study (Poster)
(no paper)	Attention to auditory feedback during sentence production by speakers with and without stuttering (Poster)
(no paper)	Effect of target source and dynamics on voice F0 stability in the presence of auditory feedback pitch perturbations (Poster)
(no paper)	Rapid changes in speech parameters with a change in auditory stimulation from a cochlear implant (Poster)
(no paper)	A lontigudinal investigation of formant frequency development in children's speech production (Poster)
4ASCB_12	Asli Ozdas, Richard G. Shiavi, D. Mitchell Wilkes, Marilyn K. Silverman, Stephen E. Silverman Acoustical correlates of near-term suicidal risk (Poster)
4ASCB_13	David Canning, Allen Hirson, Paul Arnold Classroom acoustics and vocal efficiency (Poster)
(no paper)	Cross-modal integration in speech and nonspeech tasks (Poster)
4ASCB_15	Michael D. Hall, Jordan R. Green, Christopher A. Moore, Patricia K. Kuhl Contribution of articulatory kinematics to visual perception of stop consonants (Poster)
(no paper)	Research on the acoustic features of stutterer's voices for the purposes of computer animation (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	Influence of the direction of a single reflection on speech intelligibility (Poster)
(no paper)	The adaptive modified rhyme test (Poster)
(no paper)	Method for the development of sentence materials for efficient measurement of the speech reception threshold (Poster)
(no paper)	Spectrographic analysis of stuttering episodes (Poster)
4ASCB_22	Thomas Arnhold, Hans Georg Piroth The learning of tactile syllables as reflected by blink rate and skin conductance variations (Poster)

4aSP Signal Processing in Acoustics: Acoustic Signal Processing for Systems with 2D/3D Sensor Arrays I

(no paper)	[cancelled; discussion or break]
(no paper)	Requirements to signal processing for visualising surfaces from 3D ultrasound datasets
(no paper)	Exploitation and usage of signal evaluating concepts of the nature - ultrasonic data acquisition and neural network signal processing
(no paper)	Multi-dimensional adaptive beamforming for integrated active-passive sonar and medical imaging applications
(no paper)	Matched-field imaging of laser ultrasound using a novel correlation cancelling approach
(no paper)	Application of the continuous wavelet transform to the angular location of jet aircraft
4ASP7	Jacek Lasecki, Andrzej Czyżewski Neural network-based spatial filtration algorithm for 2-microphone array
(no paper)	[cancelled; discussion or break]
4ASP9	Christos Sevastiadis, Christodoulos Chamzas, George Kalliris, George Papanikolaou Software for estimation and processing simulation of microphone line arrays
(no paper)	[cancelled; discussion or break]
4ASP_11	Roy Adams, D. Keith Wilson, Nassy Srour, Brian Sadler A statistical analysis of acoustical detection and tracking of small jet aircraft
(no paper)	Multidimensional array signal processing with multidimensional matrix operations

4aUW Underwater Acoustics: Rough Surface Scattering, Bubbles and Noise

4AUW1	R. C. Gauss, J. M. Fialkowski A new, semi-empirical model for predicting bistatic surface backscattering strengths
4AUW2	J. W. L. Clarke, T. G. Leighton, G. J. Heald, H. A. Dumbrell Time-dependent scattering from bubble clouds: Implications for the use of acoustic pulses
(no paper)	A time-domain path integral method for analyzing reflections from a rough sea surface
(no paper)	Surfzone breaking wave air entrainment and noise generation
(no paper)	Acoustic measurements of air entrainment by a plunging free water jet
4AUW6	Stanisław J. Pogorzelski The influence of marine surface films on underwater sound
(no paper)	Under-ice noise resulting from thermally-induced fracturing of the Arctic ice pack: Theory and a test case application
(no paper)	[cancelled] (Poster)
4AUW9	Françoise Schmitt, Franck Daout Wave scattering in underwater acoustics (Poster)
(no paper)	The effect of grease ice formation on ambient noise (Poster)
(no paper)	Scattering and reflection of sound by random rough surfaces (Poster)

4p - THURSDAY AFTERNOON, 18 MARCH 1999

4pAA	Architectural Acoustics: Building Acoustics I: Airborne and Impact Sound Transmission and Classroom Acoustics
(no paper)	The influence of identical room dimensions on the sound insulation at low frequencies
(no paper)	Sound transmission loss of double-glazed window panes - An empirical approach
4PAA3	Andreas Kurz, Knut Schroeter, Wolfgang Teuber, Ernst-Joachim Voelker Level differences in shaft measurements in the IAB Laboratory
(no paper)	Noise propagation in open-plan space with barriers
(no paper)	An algorithm for auralization of airborne sound insulation
(no paper)	[cancelled; discussion or break]
4PAA7	António P. O. Carvalho, Constantinos Vafiadis, Hugo Borrego The use of agglomerated cork as underlay for improvement of impact sound insulation in buildings
4PAA8	Knut Schroeter, Wolfgang Teuber, Ernst-Joachim Voelker Sound irradiation from walls, ceilings, and floors when excited by impact sound from fresh and waste water - Measurements at IAB
(no paper)	Speech intelligibility in simulated classroom sound fields
(no paper)	[cancelled; discussion or break]
4PAA_11	Gary W. Siebein, Martin A. Gold, Michael G. Ermann, Joseph Walker Background noise levels in classrooms
(no paper)	Good acoustics: A target for the new school of architecture
4PAA_13	Jaehee Jang, Byunghun Lim, Sangwoo Lee System development to reduce floor impact sound in apartment houses (Poster)
4PAA_14	Eberhard Küstner, Peter S. Krämer, Jürgen Scholze, Ernst Sonntag Additional improvement of air-borne and impact sound insulation of ceilings in prefabricated standard-buildings (Poster)
(no paper)	Towards a classification of acoustic comfort. A case study of a university classroom (Poster)

4pAB Animal Bioacoustics: Acoustics of Echolocating Animals II

(no paper)	Discrimination of phantom targets by an Atlantic bottlenose dolphin
(no paper)	The transmission beam pattern and echolocation signal of the harbor porpoise (Phocoena phocoena)
(no paper)	Sperm whale clicks and the Norris/Harvey theory of click generation
(no paper)	Insights into the acoustic behavior of sperm whales
4PAB5	Olaf Jäke, Stephen Dawson Acoustic censusing of sperm whales at Kaikoura, New Zealand - An intexpensive method to count clicks and whales automatically
4PAB6	Konstantin G. Kebkal Specific food-related calling in dolphins
(no paper)	[cancelled; discussion or break]
(no paper)	A plausible mechanism of acoustic click production in the dolphin
(no paper)	[cancelled; discussion or break]
(no paper)	Improved signal processing techniques for measurement of the inter-pulse interval (IPI) of sperm whale clicks
(no paper)	Why do whales communicate at the frequencies they do? Lessons from underwater acoustic signal processing

4pAO Acoustical Oceanography: Acoustic Seafloor Classification II

(no paper)	Aspects of near-real time acoustic sediment characterization
(no paper)	[cancelled; discussion or break]
(no paper)	Effects of differing sediment types and structures on normal incident acoustic reflections
(no paper)	In situ, laboratory and modeled permeability of unconsolidated sands
4PAO5	Stephen F. Bloomer, N. Ross Chapman, William T. Collins, Peter G. Simpkin Subsurface classification of shallow gassy river sediments using broadband seismic data
(no paper)	Acoustic inversion for Biot parameters in water saturated sand
(no paper)	Acoustic classification of a shell-covered seafloor
4PAO8	Eric Smith, Michael D. Richardson, Warren T. Wood, Wolfgang Jans Scaling regimes in incoherent surface-reflected and in-sediment sound fields
(no paper)	Seabottom roughness study using Hydrosweel-multibeam system
4PAO10	Zbigniew Łubniewski, Marek Moszyński, Andrzej Stepnowski The inverse problem approach to the sea bottom identification
(no paper)	Seafloor scattering: Modeling and analysis of classification clues
(no paper)	[cancelled] (Poster)
(no paper)	[cancelled] (Poster)

L	ithotripsy
4PBB1	Michael R. Bailey, Robin O. Cleveland, Oleg A. Sapozhnikov, James A. McAteer, James C. Williams, Jr., Lawrence A. Crum Effect of increased ambient pressure on lithotripsy-induced cavitation in bulk fluid and at solid surfaces
(no paper)	Clinical evaluation of cavitation thresholds in patients undergoing lithotripsy
4PBB3	Andrew P. Evan, Bret A. Connors, Debra J. Pennington, Philip M. Blomgren, James E. Lingeman, Naomi S. Fineberg, Lynn R. Willis Pre-existing renal disease enhances the renal vasoconstriction induced by SWL
(no paper)	Controlled and forced collapse of inertial cavitation bubbles during SWL
(no paper)	Shock wave - inertial microbubble interaction
(no paper)	Transfer of an exact number of molecules into cells by shock waves
4PBB7	Friedrich Ueberle Aspects of pressure pulse lithotripter measurements
(no paper)	In vivo modelling of the HM3 lithotripter
4PBB9	Lynn R. Willis, Andrew P. Evan, Bret A. Connors, Philip M. Blomgren, Naomi S. Fineberg, James E. Lingeman SWL to one pole of one kidney attenuates the injury caused by subsequent SWL to the other pole of that kidney
(no paper)	Shot-to-shot variability of acoustic axis of a spark-source lithotripter
4PBB11	Dahlia L. Sokolov, Michael R. Bailey, Lawrence A. Crum Use of two pulses to localize and intensify cavitation in lithotripsy
4PBB_12	J. P. Sferruzza, A. Birer, D. Cathignol Generation of very high pressure pulse at the surface of a sandwiched pizeoelectric material

4pBB Biomedical Ultrasound/Bioresponse to Vibration: Lithotripsy

4pEAa Engineering Acoustics and Signal Processing in Acoustics: Digital Signal Processing for Hearing Aids II

4PEAA_1	Yingyong Qi, Andrew Dittberner Acoustical analysis on the performance of digital hearing aids
4PEAA_2	G.L. Gibian, Walter Koroljow, Andy LaRow, Scott Shaw, Peggy Nelson, LaGuinn Sherlock Clinical trials of a hybrid adaptive beamformer (HAB) for improved speech understanding in noise
4PEAA_3	Paul Shields, Douglas Campbell Qualitative and quantitative results from a speech enhancement scheme assessed by hearing- impaired subjects
4PEAA_4	Ivo L. D. M. Merks, Marinus M. Boone, A. J. Berkhout Array technology for binaural hearing aids-applications
4PEAA_5	Florian M. Koenig Headphones as nearfield electro-magnetic radiator's and probable health impairing objects

4pEAb Engineering Acoustics and Noise: Implications of Recent Standards

4PEAB_1	Leif Nielsen The role of international and European standardization in relation to European directives
(no paper)	Strategie policy of ISO/TC43 "Acoustics"
(no paper)	New trends in standards indicate need for more inter-laboratory comparisons and data
4PEAB_4	George S. K. Wong, Lixue Wu Implementation of ISO/IEC Guide 25 for acoustical standards at NRC Canada
(no paper)	Hot new topics in ASA/ANSI standardization
4PEAB_6	Hans-Elias de Bree, Miko Elwenspoek Sound intensity probes based on microflown technology

4pMU Musical Acoustics: Mapping Multiple Physical and Perceptual Attributes to Musical Structures

4PMU1	James W. Beauchamp Timbral effect of parameter interchange between musical instrument types
(no paper)	Multidimensional scaling of musical timbre constrained by physical parameters
4PMU3	Carolyn Drake, Laetitia Gros, Amandine Penel How fast is that music? The relation between physical and perceived tempo
(no paper)	Memory for melodies, poetry, faces and other complicated things
(no paper)	What makes singing expressive?
(no paper)	Vibrato and protamento, hypotheses and tests
(no paper)	Acoustical specification and musical meaning
4PMU8	Scott D. Lipscomb Cross-modal integration: Synchronization of auditory and visual components in simple and complex media
4PMU9	Annabel J. Cohen Music serves as a vehicle in multimedia contexts
4PMU_10	Catherine Semidor, Leonie Couthon, Aline Barlet Identification and qualification of instrumental sound sources: Elaboration of a methodology
4PMU_11	Pierre Dutilleux Amplification of the difference tones (f ₂ -f ₁)
(no paper)	Parsing complex rhythmic structures: The contribution of spectral and temporal dimensions of timbre

4pNSa Noise: Military Aircraft Noise

(no paper)	A review of recent military aviation noise programs
(no paper)	[cancelled; discussion or break]
(no paper)	Adjustment factors for assessing long-term aircraft and other noise environments
4PNSA4	Neil M. Standen, Gary W. Humphries Modeling of military aircraft noise in support of environmental impact mitigation
(no paper)	The theoretical and practical aspects of producing source data for helicopter noise modeling
(no paper)	Military aircraft noise and health - Methodological issues in research
4PNSA_7	G. Kerry, C. Lomax, P. D. Wheeler, D. J. James The response of the acoustic reflex to noise from low flying military jet aircraft
4PNSA_8	P. D. Wheeler, N. Matkovits Military jet aircraft overflights and children's hearing - allegations, issues and measurement uncertainties
(no paper)	Presenting noise information to community decision makers
(no paper)	[cancelled; discussion or break]

4pNSb Noise and Psychological and Physiological Acoustics: Product Sound Quality

(no paper)	The perception of product sound quality
(no paper)	Development of a noise criterion for laboratory medical instrumentation
4PNSB_3	Michiel A. A. Schallig Adequacy of product sound: Design - develop - test; Is it so simple?
(no paper)	Combined application of computer simulation and sound quality in the design of a home appliance
(no paper)	3D localization and characterization of acoustical sources in a truck cabin
4PNSB6	Petra Muckel, Leo Ensel, Brigitte Schulte-Fortkamp Exploration of Associated Imaginations on Sound Perception (AISP): A method for helping people to describe and to evaluate their sound perceptions
4PNSB_7	Nicolas Chouard, Thomas Hempel A semantic differential design especially developed for the evaluation of interior car sounds
(no paper)	[cancelled; discussion or break]
4PNSB_9	Daniel Västfjäll, Mendel Kleiner, Árni Ingvarsson Affective judgment of aircraft sound quality
(no paper)	Sound quality design for high speed trains indoor noise: Psychoacoustic evaluation of tonal components
4PNSB_11	Thomas Hempel, Nicolas Chouard Evaluation of interior car sound with a new specific semantic differential design (Poster)
(no paper)	Motion perception and loudness judgments (Poster)

4pNSc	Noise:
	Urban Acoustics
4PNSC_1	Danièle Dubois, Sophie David A cognitive approach of urban soundscapes
4PNSC_2	M. Christine Couic, J. Jacques Delétré An intersensory approach to urban analysis and design
4PNSC_3	Philippe Woloszyn Fractal modelling of diffusive urban configurations
4PNSC_4	John M. MacDonald, Roger L. Wayson Overview of the railway noise model (RWNM)
4PNSC_5	Roger L. Wayson, John M. MacDonald The University of Central Florida community noise model
(no paper)	[cancelled; discussion or break]
4PNSC_7	Miguel Aloysio Sattler Urban noise survey for the city of Porto Alegre, Brazil
4PNSC_8	Chee Kwan Lee, Kwok Keung Lau Planning and designing of developments against noise impacts - Hong Kong experience
(no paper)	Local ordinance targeted to low frequency noise
4PNSC_10	Stefan Becker, Edelbert Schaffert Collection data of noise emissions from building construction sites
4PNSC_11	David Gaulin, Michel C. Bérengier, Claude Depollier Models for acoustic sources in urban areas
4PNSC_12	Judicaël Picaut, Laurent Simon Sound field modeling in streets by a diffusion equation

4pNSd Noise: Noise Emission From Machinery II

(no paper)	A new hybrid approach for estimating "in situ" the acoustic power radiated from vibrating structures
(no paper)	Localization of noise sources inside machines by using a scaled dummy head
4PNSD_3	Ulf Carlsson, Krystof Kryniski Order tracking of diesel engine with a Kalman filter
4PNSD4	S. Frikha, S. Boukhari, X. Mouton, A. Vitel Characterisation of I. C. engines as a linear acoustic source using internal measurements
(no paper)	Experimental study of rasping noise in internal combustion engine exhaust systems
(no paper)	[cancelled; discussion or break]
(no paper)	Development of a high frequency precision anechoic test facility
4PNSD8	Uwe Baumann, Lorenz Jäger Characteristics of MRI acoustic noise in functional imaging of the auditory pathways (Poster)
(no paper)	Adaptive decision method for acoustical turbomachinery diagnostics (Poster)
(no paper)	Investigations of sound insulation of partitions used for integrated enclosures (Poster)

4pPAa Physical Acoustics and Engineering Acoustics: Numerical Methods for Computing Sound Radiation and Scattering II

(no paper)	Application of wavelet decomposition (space-wavenumber) to sound radiation 1D
(no paper)	BEM and the use of explicit frequency dependent matrices - A study on computing wave scattering and radiation
(no paper)	A surface element formulation of the equivalent source method
(no paper)	Two surface element formulations in the time domain for the calculation of sound fields in cavities with varying boundary conditions
(no paper)	Using the equivalent sources method for multibody radiation problem
(no paper)	Efficient boundary element calculations using thin-plate acoustic elements
(no paper)	Finite element methods applied to the propagation of acoustic wave along immersed wedges
(no paper)	A combined finite element, boundary integral and spherical harmonic hybrid technique for computing multiple body sound radiation
4PPAA_9	Walter Eversman A reflection free boundary condition for propagation in uniform flow using mapped infinite wave envelope elements
4PPAA_10	Kai-Ulrich Machens How reliable is the method of comparative sources?
4PPAA_11	M. Rausch, M. Kaltenbacher, L. Kreitmeier, G. Krump, H. Landes, R. Lerch Designing electrodynamic loudspeakers by using a new computer modeling scheme
(no paper)	Acoustic photo- and cinematography based on interference transformation
4PPAA_13	Paulo Henrique Trombetta Zannin Some aspects of scattering calculation using the source simulation technique (Poster)
4PPAA_14	Bronisław Żółtogórski, Andrzej Dobrucki, Cecylia Szmal Numerical modelling of axisymmetric sources in infinite baffle (Poster)

4pPAb Physical Acoustics: Measurement and Evaluation of Ultrasound II

4PPAB_1	Michael Glinka Calibration of contact transducers by means of thermoacoustic sensors
4PPAB_2	Tarek Boutkedjirt, Rainer Reibold Improvement of the lateral resolution of finite-size hydrophones
(no paper)	[cancelled; discussion or break]
4PPAB_4	Ping Wu, Tadeusz Stepinski Investigation of effective geometrical parameters for a pulse-echo linear array with a cylindrically curved, focusing surface
(no paper)	Characterization of an ultrasound system
(no paper)	A unified linear system approach to ultrasonic radiation from a baffled transducer
(no paper)	Application of a fibre-optical probe hydrophone for in vivo measurements of therapeutical ultrasound
(no paper)	Fiber-optic dielectric multilayer hydrophone for ultrasound detection
4PPAB_9	Jens Hald, Irina Bjørnø, Leif Bjørnø Ultrasound cleaning of microfilters
4PPAB_10	Sylvain Poggi, Bruno Gazengel, Jean-Christophe Valière, Anne-Marie Bruneau Laser Doppler velocimetry applied to airborne acoustics: Influence of the signal processing parameters (Poster)
(no paper)	Acoustoelectric effect in gas sensor of the SAW type (Poster)
(no paper)	SAW sensor for low nitrogen dioxide concentration (Poster)

4pPAc Physical Acoustics: Elastic Properties of Materials II: Special Materials

(no paper)	Effects of grain size and shape on ultrasonic attenuation and backscattering
(no paper)	Ultrasonic study of multi-ply composites
(no paper)	Integration of modeling and acoustic microscopy measurements for multiple layered coatings
(no paper)	Review of the method of reduced variables for the dynamic mechanical properties of viscoelastic materials
(no paper)	Ultrasonic anomalies in betaine phosphate/betaine phosphite mixed crystals
(no paper)	Ultrasonic absorption in concrete
(no paper)	Elastic wave propagation and scattering in heterogeneous anisotropic media: Textured polycrystalline materials
(no paper)	[cancelled; discussion or break]
(no paper)	Picosecond ultrasonics in gold nanoparticles
4PPAC_10	Voichita Bucur, Simone Garros Ultrasonic waves birefringence in wood based composite panels
4PPAC_11	Stéphane Rigobert, Franck Sgard, Nouredine Atalla Investigation of dissipative effects in a poroelastic plate

4pPPa Psychological and Physiological Acoustics: Hearing Impairment, Hearing Instruments, and Cochlear Implants

(no paper)	Contribution of reduced audibility to subnormal localization performance in hearing-impaired listeners
(no paper)	Method of measuring and preventing unstable feedback in hearing aids
(no paper)	[cancelled; discussion or break]
4PPPA_4	Astrid van Wieringen, Jan Wouters Gap detection thresholds of LAURA cochlear implant users for complex patterns of stimulation
(no paper)	Two-microphone noise reduction for the LAURA cochlear implant
(no paper)	Efficiency of a medical treatment of the acoust trauma following impulse noise exposure in the guinea pig

Hu	iman Factors (Poster Session)
(no paper)	[cancelled] (Poster)
4PPPB_2	Etienne Parizet, Valery Nosulenko Construction of a minimal set of sound parameters for multi-dimensional tests (Poster)
4PPPB_3	Michael A. Bellmann, Volker Mellert, Carsten Reckhardt, Hermann Remmers Perception of sound and vibration at low frequencies (Poster)
(no paper)	Development and evaluation of an adaptive loudness scaling procedure (Poster)
4PPPB_5	M. Vormann, J. L. Verhey, V. Mellert, A. Schick Factors influencing the subjective rating of tonal components in noise (Poster)
(no paper)	Effects of a neoprene wetsuit hood on low frequency underwater hearing thresholds (Poster)
(no paper)	Estimates of the instantaneous versus overall loudness of noise immissions (Poster)
(no paper)	On the use of auditory information in human movement control (Poster)
4PPPB_9	Dietrich Parlitz, Marc Bangert Short and medium motor responses to auditory pitch shift: Latency measurements of the professional musician's audio-motor loop for intonation (Poster)

4pPPb Psychological and Physiological Acoustics: Human Factors (Poster Session)

4pSAa Structural Acoustics and Vibration: Smart Materials II

 (no paper) Zonal and global control of structural intensity in an infinite elastic plate
 4PSAA_2 M. J. Brennan, J. Dayou A comparison between active and semi-active global vibration control of structures
 (no paper) Compact, inexpensive analog robust controller modules for cabin noise control
 4PSAA_4 Matthias Fischer, Sabih I. Hayek Active control of structural and acoustic intensities in a submerged elastic plate
 4PSAA_5 Kenneth Eure, Jer-Nan Juang, Richard Silcox Direct adaptive generalized predictive control using gradient descent

4pSAbStructural Acoustics and Vibration:
International Workshop on Active Noise and Vibration Control -
- Other Applications of Active Control

(no paper)	Unsteady dynamics and control of marine thrusters
4PSAB_2	Georg E. Ottesen Active noise reduction in an ear terminal
(no paper)	The Plymouth Prowler, active noise control exhaust system, Part 1 Noise reduction
(no paper)	The Plymouth Prowler, active noise control exhaust system, Part 2 Noise shaping
(no paper)	Design considerations for a low impedance loudspeaker in active noise control exhaust systems
4PSAB_6	M. Trimpop, D. Krahé Contemplations about the numeric transposition of the generalised Kirchhoff integral with the intention of active noise reduction
4PSAB_7	Dieter Guicking, Patrick Michaelis Self-adaptive absorber of underwater sound with electrorheological fluid
4PSAB8	Leonardo Lecce, Massimo Viscardi, Bruno Maja, Vincenzo Limone, Mario D'Ischia, Francesco Di Maso Active noise control within the generating/pumping group of a large hydroelectric plant
4PSAB_9	Zbigniew Ogonowski Sound reflex compensation in active noise control
(no paper)	Active volume sound absorber

4pSCa Speech Communication: Parameters of F0

4PSCA_1	Hansjörg Mixdorff, Dieter Mehnert, Diane Hirschfeld Comparing the naturalness of several approaches for generating F0 contours in German text- to-speech systems
(no paper)	Quantifying correlations in pitch- and amplitude contours
(no paper)	Influences of various factors upon parameters of the command-response model for fundamental frequency contour generation
4PSCA_4	Hiroya Fujisaki, Sumio Ohno Application of the command-response model to the analysis, interpretation and synthesis of fundamental frequency contours of speech of various languages
(no paper)	Iconic prosody and information in spontaneous oral narrative
(no paper)	[cancelled; discussion or break]
(no paper)	Changes of voice parameters and melody patterns during the first year of life in human twins
(no paper)	On the waveforms and spectra of glottal flow models
4PSCA_9	Nicholas Kibre Analysis of pitch accent categories in Welsh
(no paper)	Empirical eigenfunctions obtained from highspeed imaging of the vocal folds
4PSCA_11	Chao-Min Wu, Jianwu Dang, Kiyoshi Honda A design of laryngeal structures for a physiological articulatory model

4pSCb Speech Communication and Psychological and Physiological Acoustics: Models of Speech Processing in the Auditory Pathway

(no paper)	Time interval information in the auditory representation of speech sound
(no paper)	On temporal smoothing and speech perception
(no paper)	Modeling speech intelligibility and quality on the basis of the "effective" signal processing in the auditory system
4PSCB4	Gerald Langner, Ulrich Biebel, Susanne Braun Spatial aspects of periodicity processing in the Inferior Colliculus of gerbil and chinchilla
(no paper)	discussion
(no paper)	The representation of spectrally dynamic signals in primary auditory cortex
(no paper)	Representation of consonant-vowel syllables in mammalian auditory cortex: Effects of background noise and speaking rate
(no paper)	Magnetoencephalographic evidence for temporal representations in human auditory cortex
(no paper)	An oscillatory correlation framework for the separation of speech from interfering sounds
4PSCB9	Neil P. McAngus Todd Towards a computational neurobiology of speech perception
(no paper)	discussion

4pSP	Signal Processing in Acoustics: Acoustic Signal Processing for Systems with 2D/3D Sensor Arrays II
(no paper)	Robust matched field processing in underwater acoustics
(no paper)	Phase conjugation and matched field processing
4PSP3	U. Hoelscher-Hoebing, D. Kraus Optimized image processing for multi-beam/multi-aspect sidescan sonar application
4PSP4	Nai-chyuan (Nate) Yen Signal processing algorithm for sound source localization with discretionary distributed multiple receiving sensors
(no paper)	Optimal amplitude shading for arrays of irregularly spaced or non-coplanar elements
(no paper)	Localization of the sources using blind identification of signal subspace
4PSP7	Kenbu Teramoto, Noriko Mori Blind source separation by convex optimization for resolution enhancement
4PSP8	Joon-il Song, Han-Su Kim, Jun-Seok Lim, Koeng-Mo Sung Forward/backward first order statistics algorithm for the estimation of DOA in a multi-path environment
4PSP9	Han-Su Kim, Jun-Suk Lim, Koeng-Mo Sung Robust Kalman based DOA estimator with variable fading memory
(no paper)	Frequency-angle selectivity under conditions of 3D antenna motion
4PSP_11	Sang-Wook Lee, Jun-Seok Lim, Byung-Doo Jun, Koeng-Mo Sung Estimation of time-varying signal parameters via VFM Kalman filtering
4PSP_12	Charles F. Gaumond Coupling criteria for arrays in a channel

4pUW	Underwater Acoustics: Shallow Water
(no paper)	High-resolution modal mapping in a complex shallow water environment
(no paper)	Broadband inversion of shallow water range-dependent acoustic data using a genetic algorithm
4PUW3	John E. Laliberte, Gopu R. Potty, James H. Miller Analysis of modal dispersion in the Middle Atlantic Bight
(no paper)	Effects of the time varying ocean on broadband propagation in shallow water
(no paper)	The influence of internal waves on signal fluctuation in Yellow Sea
(no paper)	Acoustic intensity and phase variability caused by time-evolving internal wave fields
4PUW7	Jin Yan, Renhe Zhang, Zhenge Sun Characteristics of the internal waves and their effects on sound propagation in the central area of the Yellow Sea
(no paper)	Temporal coherence of broadband acoustic signals in the presence of internal waves in shallow water
(no paper)	A look at the modal phase structure function in shallow water
4PUW_10	Renhe Zhang, Fenghua Li Sound vertical coherence in shallow water with a thermocline
(no paper)	Mode diffusion and pulse broadening in shallow water acoustic propagation
(no paper)	Effects of internal waves and bores on acoustic transmissions in the Strait of Gibraltar
(no paper)	High frequency acoustic propagation measurements in coastal areas (Poster)
4PUW_14	Fenghua Li, Renhe Zhang Normal mode propagation through strong range-dependent shallow water (Poster)
4PUW_15	Jacek Gawrysiak Analysis of active hydroacoustic system's parameters versus conditions of sound propagation in inland water (Poster)
4PUW_16	Sergei N. Gurbatov, Maxim V. Gushchin, Sergei A. Egorychev, Vasily V. Kurin, Leonid M. Kustov, Nikolai V. Pronchatov-Rubtsov On the horizontal structure of a field in separate modes radiated by a parametric antenna in axially nonuniform acoustic waveguides (Poster)
(no paper)	Effect of seismic waves on the acoustic field interference structure in the shallow sea (Poster)

>>> Go back to Table of Contents <<<

5a - FRIDAY MORNING, 19 MARCH 1999

5aAA Architectural Acoustics: Building Acoustics II: Reverberation, Absorption and Scattering

5AAA1	Higini Arau The anecoicity phenomenon in a live room
5AAA2	Hiroyuki Sakai, Shozo Shibata, Yoichi Ando Orthogonal acoustical factors of sound fields in a bamboo forest
(no paper)	A refined room acoustical simulation algorithm based on free path distribution
(no paper)	Performing room surfaces effects on the acoustical conditions distribution
(no paper)	Reverberation in rectangular long enclosures with diffusely reflecting boundaries
5AAA6	C. Fillol, C. Legros, J. Štěpánek The genetic algorithms for the optimization of distributed loudspeaker systems
5AAA7	Rolf Tore Randeberg, Ulf Rikard Kristiansen, Tor Erik Vigran A Helmholtz resonator with elongated orifice
(no paper)	A seamless absorbing ceiling with a smooth surface: Alvaro
5AAA_9	Manabu Tanaka, Daiji Takahashi Effect of plate vibration on sound absorption of the micro-perforated elastic plate
5AAA_10	J. Pfretzschner, F. Simón, R. M. Rodríguez, C. de la Colina Simplified calculus to estimate the acoustical absorption of non-planar materials
5AAA_11	Jan Baan, Diemer de Vries Reflection and diffraction in roomacoustic modeling
(no paper)	[cancelled; discussion or break]
5AAA_13	Olivier Legrand, Fabrice Mortessagne High frequency asymptotics and random matrix theory in reverberant rooms (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	An extension of the transfer function method described in ASTM E 1050-90 for its use in semianechoic conditions (Poster)
(no paper)	Towards a global in situ method for materials acoustic impedance assessment at very low frequencies using evolution strategy (Poster)
(no paper)	Sound absorption properties of suspended ceilings with plastic foils (Poster)

5aAB Animal Bioacoustics: Animal Bioacoustics (Poster Session)

5AAB1	Magnus Wahlberg Positioning accuracy of a large-aperture hydrophone array for sperm whale research (Poster)
(no paper)	Analysis of the sound emissions of captive bottlenose dolphins (Tursiops truncatus) (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	Perception of harmonic complexes in budgerigars (Melopsittacus undulatus) (Poster)
(no paper)	Frequency discrimination and advertisement call in the aquatic clawed frog Xenopus l. laevis: Qualification for interindividual recognition (Poster)
5AAB8	N. Ramsauer, D. Robert Acoustic attraction of the parasitoid fly Ormia ochracea to the song of its host (Poster)
(no paper)	Sound-induced cuticular vibrations in the atympanate bladder grasshopper Bullacris membracioides (Poster)
5AAB_10	D. Robert, R. N. Miles, R. R. Hoy Anatomy and biomechanics of interaural coupling in a sarcophagid fly (Poster)
(no paper)	[cancelled] (Poster)
5AAB_12	Evelyn B. Glaser Sound propagation in natural environments (Poster)
5AAB_13	Martin C. Göpfert, Daniel Robert Mosquito bioacoustics: Microscanning laser vibrometry of sound-induced antennal vibrations (Poster)
(no paper)	The detection of conspecific and heterospecific calls in noise by birds (Poster)

5aAO Acoustical Oceanography: Coastal Pollution Research and Monitoring

(no paper)	Acoustical measurements in marine environmental monitoring and research in the United States
(no paper)	Acoustics tools for ocean pollution research and monitoring in the MAST program
5AAO3	Dominique Morisset Low frequency active sonar systems as tools for shallow water environmental monitoring
(no paper)	A hybrid model for echo prediction in coastal waters
(no paper)	Detecting, mapping, sampling and analyzing oceanic suspended particulate matter: Methods complementary to acoustic detection of environmentally sensitive ocean outfall and dumped materials
(no paper)	Measurements of nearbed current flow and suspended sediments using acoustics
(no paper)	[cancelled; discussion or break]
(no paper)	Recent advances in coastal ocean pollution research and monitoring

5aBB Biomedical Ultrasound/Bioresponse to Vibration: Safety Guidelines for Diagnostic Ultrasound

5ABB1	Hans-Dieter Rott European committee for medical ultrasonic safety (ECMUS): Tasks and activities
(no paper)	Temperature elevation generated by ultrasound in soft-tissue, bone, and transcranial phantoms
(no paper)	Thermal test objects and the measurement of temperature rise produced by diagnostic ultrasound
(no paper)	ICRU Report 61: providing reference data for tissue properties
(no paper)	Fundamentals of the mechanical index and caveats in its application
(no paper)	Ultrasonically induced vascular damage to mouse intestine
(no paper)	Thermal safety considerations for diagnostic ultrasound
(no paper)	Mechanical index: the influence of nonlinear propagation in water and tissue
5ABB9	Francis A. Duck, Hazel C. Starritt Boundaries to effective acoustic output regulation from acoustic saturation
(no paper)	[cancelled; discussion or break]

(no paper) The Future Direction of Safety Standards (discussion)

5aEA Engineering Acoustics: SAW Devices

- (no paper) Surface acoustic waves and devices-A brief overview
- (no paper) Surface acoustic wave sensors for the detection of gases and for biological applications
- (no paper) Radio-frequency SAW filters for mobile communications systems
- (no paper) [cancelled; discussion or break]
- 5AEA___5 V. I. Anisimkin, A. Bonfiglio, C. Caliendo, M. Penza, E. Verona Humidity sensing properties of uncoated and coated SAW delay lines

5aMUa Musical Acoustics: General Topics in Musical Acoustics I

(no paper)	Sound power of musical instruments measured with sound intensity in a practice room
(no paper)	Data-driven modeling of acoustical instruments
5AMUA_3	Magdalena Klapper-Rybicka Application of linear predictive coding and additive synthesis in computer music
(no paper)	[cancelled; discussion or break]
(no paper)	Measurements of arm motion, timing and striking force in a simple drumming task
(no paper)	A tale of three violins: Comparison of radiation mechanisms measured with near-field acoustic holography

5aMUb Musical Acoustics: General Topics in Musical Acoustics II (Poster Session)

(no paper)	[cancelled] (Poster)
(no paper)	The acoustic analysis of reinforced harmonics (Poster)
5AMUB_3	Petr Volný, Jan Štěpánek, Václav Syrový Time relations between violin tone harmonics in relation to playing techniques (Poster)
5AMUB_4	Ondřej Moravec, Jan Štěpánek, Václav Syrový Harmonic and unharmonic components of violin tones in relation to playing techniques (Poster)
5AMUB_5	Jan Štěpánek, Zdeněk Otčenášek, Alois Melka Comparison of five perceptual timbre spaces of violin tones of different pitches (Poster)
5AMUB_6	Helmut Fleischer Diagnosing dead spots of electric guitars and basses by measuring the mechanical conductance (Poster)
5AMUB_7	Zdeněk Otčenášek, Václav Syrový Directivity of violin radiation (Poster)
(no paper)	Recent results on "unison quality" or finding objective and quantitative criteria to decide that a piano is perfectly tuned (Poster)
5AMUB_9	Hrvoje Domitrović, Mladen Maletić, Siniša Fajt Space-induced distortion of starting transient of musical sound (Poster)
(no paper)	Jazz drummers' swing ratio in relation to tempo (Poster)
(no paper)	Emotions in the singing voice: Acoustic cues for joy, fear, anger and sadness (Poster)
5AMUB_12	George Papadelis, George Papanikolaou Effect of timing variations on the categorical perception of musical rhythm patterns (Poster)
5AMUB_13	Markus Sapp, Jörg Becker, Claas Brouër Simulation of vacuum-tube amplifiers (Poster)
(no paper)	[cancelled] (Poster)
5AMUB_15	Emil Rajčan, Marek Sedliak, Stanislav Urgela Physico-acoustical properties of imission affected resonance spruce wood (Poster)

5aNSa Noise: Power Plant Noise

(no paper)	Prospects for active noise control in power plans
(no paper)	Modern methods for attenuation in ductwork and silencers
(no paper)	Turbine exhaust noise radiated by stack walls and tops
(no paper)	Limiting technology for combustion turbine power plants - How quiet can we make them?
5ANSA_5	Ulrich Scholz Feasibility of meeting a limit of 85 dB(A) everywhere inside a power plant
(no paper)	Noise control as a revenue enhancer
5ANSA_7	Sergio C. Martinez How to distinguish accurately between industrial and traffic noise? New statistical methods for the acquisition and evaluation of data
(no paper)	Measurement methodology for sound power levels of industrial noise sources (Poster)

5aNSb Noise: Road Traffic Noise I

5ANSB_1	Reiner Stenschke, Michael Jäcker-Cüppers Reduction of road traffic noise - The legislature's point of view
(no paper)	How to reduce tire/road noise: Chances and limits
(no paper)	A spatial analysis of topographic and vegetation factors affecting the propagation of highway traffic noise
5ANSB_4	N. Barrière, Y. Gabillet Prediction of traffic noise control by forests using a three dimensional Green's fast parabolic equation model
5ANSB_5	B. Gauvreau, M. Bérengier, Ph. Blanc-Benon, C. Depollier A numerical method to predict sound propagation for realistic road environments
5ANSB_6	Gaetano Licitra, Mauro Cerchiai, Silvia Canessa SimNoise: A new low traffic flow road noise estimation by a statistical approach
(no paper)	A theoretical tyre model based on the general field equations
5ANSB_8	A. I. El Mallawany, M. I. Abdallah, M. Abd El Gawad Saif Modeling of traffic noise pollution with neural networks
(no paper)	[cancelled; discussion or break]
5ANSB_10	Ernst-Ulrich Saemann, Jørgen Hald, Andreas P. Schuhmacher Sound field studies of tires
5ANSB_11	Siegfried Ullrich Low-noise road surfaces in the Federal Republic of Germany - State of the art -

5aPAa Physical Acoustics: Radiation and Relaxation	
(no paper)	[cancelled; discussion or break]
(no paper)	Moment method calculation of radiation from a cylindrical tube with an infinite flange
5APAA_3	R. Lyons, P. C. Macey, J. L. Horner Acoustic performance of finite length apertures using finite element analysis
5APAA_4	Bogumił B.J. Linde, Nikolai B. Lezhnev Influence of the frequency range broadening for the value of the acoustic vibrational relaxation time
5APAA_5	Vladimir Larichev, German Maksimov Universal local state equation for description of exponential and resonant relaxation at sound wave propagation
5APAA_6	Vladimir Larichev, German Maksimov Propagation of short acoustic pulse in medium with two relaxation processes. Exact solution

5aPAb Physical Acoustics: Acoustic Remote Sensing of the Atmosphere I

5APAB_1	Margarita A. Kallistratova Current progress and problems in the atmospheric acoustics
(no paper)	Scattering of sound in a stratified moving atmosphere
5APAB_3	Nikolai Krasnenko Advances in acoustic remote sensing of the atmosphere at the IAO SB RAS
5APAB_4	Sergey N. Kulichkov On acoustic sounding of fine structure of the middle atmosphere
5APAB_5	Philippe Blanc-Benon, Daniel Juvé Dislocations in the wavefront of acoustic waves propagating through thermal turbulent fields

5aPAc Physical Acoustics: Elastic Properties of Materials III: Piezoelectrics, Plates, and Shells

5APAC_1	Ramute Giriuniene, E. Garshka Acoustoelectric sensing and actuating of physico-chemical processes by SAW
5APAC_2	Eugene J. Danicki Piezoelectric interfacial waves in directions of vanishing slowness curvature
5APAC_3	Stéphane Pouyez, Robert Hazebrouck Application of the piezoelectric implant method to study the frost phase in frozen porous media
5APAC_4	Arnaud Bernard, Marc Deschamps, Mike Lowe The energy velocity of attenuating guided ultrasonic waves in plates
5APAC_5	Arnaud Guillet, Mounsif Ech-Cherif El Kettani, Francine Luppé Guided waves propagation in an elastic plate of linearly varying thickness
5APAC_6	Y. Kagawa, T. Fujitani, T. Tsuchiya Transmission-line matrix (TLM) modeling of an elastic wave propagation
5APAC_7	Francisco J. Nieves, Francisco Gascón, Ana Bayón Direct measurement of dynamic elastic constants of a disc
(no paper)	Investigation of thin film shear modulus from spatially resolved measurement of Love wave velocity
(no paper)	Vibration response of perforated thin plates
(no paper)	Acoustic waves transmission through elastic cylindrical shell and investigation of its parameters
5APAC_11	M. Rath, J. Döring, W. Stark, G. Hinrichsen Inline process monitoring of thermosets by ultrasonic measurements in a compression mould (Poster)
(no paper)	Accurate noncontact measurement of elastic properties of ceramics using acoustic microscopy and laser ultrasonics (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	[cancelled] (Poster)

5aPPa	Psychological and Physiological Acoustics: Binaural HearingModels, Movement and Measures
(no paper)	The normalized correlation: Accounting for NoS thresholds with Gaussian and "low noise" masking noise
(no paper)	Should normalization be included in cross-correlation based models of binaural processing?
5APPA_3	Edward Ozimek, Jacek Konieczny, Andrzej Wicher Dichotic perception of AM and FM signals
5APPA_4	Makio Kashino Interaction in the perceived lateralization of two sounds having different interaural time differences
(no paper)	Virtual auditory localization in noise
(no paper)	Investigating the precedence effect with a virtual auditory environment
5APPA_7	Philip Mackensen, Uwe Felderhoff, Günther Theile, Ulrich Horbach, Renato Pellegrini Binaural room scanning - A new tool for acoustic and psychoacoustic research
(no paper)	Minimum audible movement angle in vertical, horizontal, and oblique planes: Effects of velocity and frequency content
(no paper)	Marking the starting and ending points of auditory apparent motion: Effect of timing, spatial separation, and azimuth
(no paper)	Changes in perceived velocity following adaptation to simulated auditory motion
(no paper)	Effects of the spatial distribution of competing sounds on speech reception thresholds
5APPA_12	Juerg M. Stettbacher Audiometry for binaural hearing

5aPPb Psychological and Physiological Acoustics: Hearing Impairment I (Poster Session)

5APPB_1	M. Patrick Feeney, Douglas H. Keefe, Kristen L. Smith A comparison of power-based and admittance measures of the acoustic reflex threshold (Poster)
(no paper)	Performance of children on the multisyllabic lexical neighborhood test as a function of the number of channels of stimulation (Poster)
(no paper)	Temporal jitter disrupts speech intelligibility: Simulations of auditory aging (Poster)
(no paper)	Rupture pressures of membranes in the ear (Poster)
5APPB_5	H. Skarzyński, A. Czyżewski, B. Kostek Prediction of post-operative profits in cochlear implanted people using electrical stimulation test results (Poster)
(no paper)	The impact of placement of noise sources on directional hearing aid benefit (Poster)

5aPPc Psychological and Physiological Acoustics: Hearing Impairment II (Poster Session)

(no paper)	Communication problems in noisy workplaces for normal hearing and hearing impaired employees (Poster)
(no paper)	Effects of selective serotonin reuptake inhibitors on auditory processing (Poster)
5APPC_3	Norimichi Kitagawa The changing-loudness aftereffect following adaptation to visual motion in depth (Poster)
(no paper)	Classification of the acoustic environments using a psychoacoustic model (Poster)
(no paper)	On the relationship between auditory evoked potentials and psychophysical loudness (Poster)
(no paper)	Conductive hearing losses caused by static pressure differences in the ear (Poster)

5aSAa Structural Acoustics and Vibration: Vibrations of Complex Structures

5ASAA_1	Qiushuang Guo, David A. Brown Determination of acoustic constants from flexural waves in thin bars
(no paper)	[cancelled; discussion or break]
5ASAA_3	S. Finnveden Sea of coupled oscillators
(no paper)	A clamped beam, images solution
(no paper)	Modal overlap and dissipation effects in a fuzzy structure containing a continuous master element
(no paper)	Reflection and transmission at an attachment half-space
(no paper)	Localized modes of long floating structures
(no paper)	Elastic wave scattering on a rod-like inclusion
(no paper)	A boundary controller for realistic double panel partitions: Feasibility and experimental validity
(no paper)	[cancelled; discussion or break]
(no paper)	On the acoustical properties of cylindrical shells and pipe sleeves

5aSAb Structural Acoustics and Vibration: International Workshop on Active Noise and Vibration Control -- Active Control in Aircraft Engines

5ASAB_6	L. Tardy, E. Gonneau, J. P. Guilhot Comparison of two algorithms for modal active control of fan noise in a duct
(no paper)	Active cancellation of rotor/stator interaction tones in turbofan engines
(no paper)	Active flow control using MEMS actuators to reduce fan noise
(no paper)	A model concept for active noise control in circular or annular ducts
(no paper)	[cancelled; discussion or break]
(no paper)	On overview of the fan active noise control effort at NASA Lewis

```
>>> Go back to Table of Contents <<<
```

5aSCa Speech Communication: New Spectral Analysis Techniques for Speech

5ASCA_1	Shubha Kadambe Adaptive wavelets and their application
5ASCA_2	Yannis Stylianou Analysis of voiced speech using harmonic models
(no paper)	Data driven speech analysis for ASR
(no paper)	discussion
(no paper)	Crime detection automatic speaker verification and identification (CASVI) system
(no paper)	Revisiting analysis by synthesis
(no paper)	Speech visualization with auditory contours
5ASCA_7	Jinlin Lu, Satoshi Nakamura, Kiyohiro Shikano Spectral analysis of esophageal speech
(no paper)	Comparing alternate representations of acoustic properties in vowel perception
(no paper)	discussion

5aSCb Speech Communication: Speech Production Issues

H. Betty Kollia, Jay Jorgenson Maximum likelihood methodology applied to probability distributions of speech movement data
Emphasized vs. unemphasized /aJ/: jaw, tongue and formants
Control of oral closure in stop consonants with different closure durations
Coarticulation of tongue and jaw movements in speech
Effects of lip protrusion on measurements of lip aperture
Niels O. Schiller No role for syllables in English speech production
Two kinematic models of the human tongue from MRI data
M. Wakumoto, S. Masaki, K. Honda, N. Kusakawa, T. Ohue Integration of 3-dimensional and pressure sensitive palatography for speech production study
Tongue-jaw trade offs and naturally occurring perturbation
[cancelled; discussion or break]
Adjustments in kinematic parameters of bilabial articulatory gestures during repeated oral readings of the same passage
Simulation of token to token variability in vowel production

5aSPa Signal Processing in Acoustics: Acoustics in Multimedia

(no paper)	[cancelled; discussion or break]
(no paper)	Cognitive theories of musical meaning
(no paper)	[cancelled; discussion or break]
(no paper)	A novel computing structure for 3D audio rendering with multiple sources
(no paper)	Challenges facing 3D audio display design for multimedia
5ASPA_6	Thomas Funkhouser, Ingrid Carlbom, Gary Elko, Gopal Pingali, Mohan Sondhi, Jim West Interactive acoustic modeling of complex environments
(no paper)	Multi-channel subband inverse filtering for room dereverberation
(no paper)	Echo cancellation for multimedia applications
5ASPA_9	Noël Chateau Contribution of perceived audio-visual spatial fusion to subjective audio-visual quality
5ASPA_10	Bożena Kostek, Piotr Suchomski Multimedia database of musical instrument sounds
5ASPA_11	Holger Pastillé An approach to analyze the linear movement of condenser microphone membranes
(no paper)	Development of a mulitiprocessor system (HUGO) for acoustic applications

5aSPb Signal Processing in Acoustics and Engineering Acoustics: General Signal Processing in Acoustics

(no paper)	Practical aspects of analyzing cyclostationary noise emitted by real acoustic sources
5ASPB_2	Wolfgang Klippel Measurement of loudspeaker parameters by inverse nonlinear control
5ASPB_3	Alain Dufaux, Laurent Besacier, Michael Ansorge, Fausto Pellandini Automatic detection and classification of wideband acoustic signals
5ASPB_4	Robert Henke, Eva Wilk Algorithms for modeling nonlinear geometric distortion of vinyl records
5ASPB_5	P. Lasaygues, J. P. Lefebvre, S. Mensah Ultrasonic reflection tomography: Signal processing and resolution
(no paper)	Application of ultrasound reflection tomography for non-destructive evaluation of objects with a complex geometry
5ASPB_7	Tjundewo Lawu, Mitsuhiro Ueda Low-pass filter for DFT process and its application to impulse response of sound field and ultrasonic B-mode echo simulator

5aUWa Underwater Acoustics: Wave Propagation: Session in Honor of Leonid M. Brekhovskikh II

(no paper)	Signal coherence and energy effects of propagating internal solitary wave packets
(no paper)	[cancelled; discussion or break]
(no paper)	Sensitivity analysis of the acoustic field in shallow water to environmental parameters
(no paper)	Role of acoustics in oceanographic monitoring of the Arctic ocean
(no paper)	On the adiabaticity of acoustic propagation through non-gradual ocean structures
(no paper)	Wave propagation in the ocean with fine structure stratification
(no paper)	Coupling to SH as a loss mechanism in shallow water acoustic propagation
(no paper)	An energy conserving one-way coupled mode propagation model
(no paper)	Numerical simulation of time domain ocean acoustic propagation
(no paper)	Energy conserving and reciprocal solutions for high order parabolic equations
(no paper)	Sound propagation modeling with the enhanced ray theory in four dimensions
(no paper)	On the adiabatic normal modes in the 3D inhomogeneous waveguide
(no paper)	[cancelled] (Poster)
(no paper)	[cancelled] (Poster)

5aUWb Underwatater Acoustics and Signal Processing in Acoustics: Underwater Communication and Signal Processing

(no paper)	First results from an acoustic-communication transmission model using 3D Gaussian beams and quadrature detection
(no paper)	Examination of time reversal acoustics and applications to underwater communications
5AUWB_3	Gérard Loubet, Bernard Faure Characterization of the underwater channel for acoustic communications
(no paper)	Telesonar channel estimation and adaptation
(no paper)	Channel characterization using FSK waveforms
(no paper)	Improved reliability and data rates for AUV acoustic communications
(no paper)	Statistics governed channel simulation
5AUWB_8	Azizul H. Quazi, Richard A. Katz Information theoretic/chaotic sonar signal processing
(no paper)	Colored-noise performance of the order-truncate-average ratio (OTAR) filter
(no paper)	[cancelled; discussion or break]
(no paper)	Identification of the radiating sources in underwater acoustics (Poster)
5AUWB_12	Suzanne Richardson, Charles Loeffler 3-D auditory display of passive sonar data (Poster)

5p - FRIDAY AFTERNOON, 19 MARCH 1999

5pAA	Architectural Acoustics: Building Acoustics III: Acoustical Measurements
5PAA1	Hiroyuki Okubo, Masamichi Otani, Ryo Ikezawa, Setsu Komiyama A system for measuring the directional parameters of room acoustics
5PAA2	Mladen Maletić, Hrvoje Domitrović, Ivan Djurek Frequency response measurement with composed audio test signal
5PAA3	Diemer de Vries, Jan Baan Fluctuation of roomacoustical parameters on small spatial intervals
(no paper)	Influence of time-variance on room impulse response measurement
(no paper)	Time variances with MLS technique: Theoretical considerations concerning rotating microphones in building acoustics
(no paper)	[cancelled; discussion or break]
5PAA7	Masatsugu Sakurai, Shinichi Aizawa, Yoichi Ando An internet-oriented system for acoustic measurements of sound fields
5PAA8	Jörg Becker, Markus Sapp, Oliver Schmitz Four-microphone-array measurement combined with geometrical room acoustic technique (Poster)
(no paper)	On the accuracy of the assessment of room acoustical parameters using MLS technique and ray- tracing simulation (Poster)

5pBB Biomedical Ultrasound/Bioresponse to Vibration: Low Intensity/Low Frequency Ultrasound

(no paper)	Therapeutic ultrasound-An historical overview
(no paper)	Enhancement of fibrinolysis by low-intensity c.w. ultrasound
5PBB3	O. D. Kripfgans, J. B. Fowlkes, D. L. Miller, O. P. Eldevik, K. A. Frey, P. L. Carson Ultrasonic induced phase transitions of micrometer size droplets
5PBB4	Algirdas Voleišis, Rymantas J. Kažys, Liudas Mažeika, Reimondas Šliteris, Birutė Voleišienė Ultrasonic technique for the investigation of structural properties of biological fluids
(no paper)	Are there gas cavities in red blood cells?
5PBB6	Waldemar Lis, Roman Salamon, Józef Zienkiewicz The acoustic system for investigation of the temporomandibular joint pathology
5PBB 7	Igor Zorić, Bojan Ivančević, Kristain Jambrošić The velocity of ultrasound propagation through brain tissue at low ultrasound frequencies
(no paper)	Modification of chamber resonance through active mass control

5pEA	Engineering Acoustics: General
5PEA1	Matti Airas, Antti Järvinen, Esa Piirilä Using tubephones for wideband auditory stimulation in brain research
5PEA2	Robert Hoeldrich, Martin Pflueger A parameterized model of psychoacoustical roughness for objective vehicle noise quality evaluation
5PEA3	Martin Pflueger, Robert Hoeldrich, Franz K. Brandl, Werner Biermayer Psychoacoustic measurement of roughness of vehicle interior noise
(no paper)	[cancelled; discussion or break]
(no paper)	[cancelled; discussion or break]
(no paper)	[cancelled; discussion or break]
(no paper)	A numerical and experimental investigation into the effects of cavity geometry on the production of cavity tones
5PEA8	Ronald J. Epstein, Alan B. Cain, Anthony Leonard Hybrid discrete vortex method / boundary element method calculations for cavity acoustics
(no paper)	Sound power measurements at low frequencies
(no paper)	[cancelled; discussion or break]
(no paper)	[cancelled; discussion or break]
5PEA_12	Ronald M. Yannone The powerful role of the commander's decision aid (CDA) software and acoustic sensor to increasing ground combat vehicle survivability
5PEA_13	Antonino Di Bella, Roberto Zecchin Multi-purpose apparatus for evaluation of noise transmitted through air ducts (Poster)

5pNSa Noise: Road Traffic Noise II

(no paper)	Perception and meaning of warning signals in urban contexts
5PNSA_2	Fülöp Augusztinovicz, Ferenc Márki, János Granát, Wim Hendricx, H. Van der Auweraer Extension of acoustic holography for tire noise investigations
5PNSA_3	David Casini, Cesare Fagotti, Andrea Poggi, Simone Secchi Measurements of the acoustic absorption coefficient of a double layer pavement - analysis of variability
5PNSA_4	Miguel Aloysio Sattler Assessment of noise impact determined by binary traffic systems
5PNSA_5	Christian Maschke Preventive medical limits for chronic traffic noise exposure
5PNSA_6	Ulrich Schober Standardization in the field of traffic noise - An overview of current projects
5PNSA_7	Jean-Pierre Clairbois, Peter Houtave, Andreas Köllmann, Gerhard Mosdzianowski Cadastre of the acoustic characteristics of the whole road network of the Brussels Region
5PNSA_8	Dietrich Heimann Modeling the propagation of traffic noise in topographically modified environments
5PNSA_9	Wolfgang Foken The effect of road features on the traffic noise - Prediction and Measurement
5PNSA_10	Joël Lelong, Roger Michelet Effect of acceleration on vehicle noise emission (Poster)

5pNSb Noise: **Future Noise Policy in Europe** (no paper) The new policy of the European Unio

(no paper)	The new noise policy of the European Union
(no paper)	A European noise indicator
(no paper)	EU's future noise policy: Progress report of WG dose/effect
(no paper)	Harmonisation of computational and measurement methods for noise exposure in the European Union
5PNSB_5	John Hinton A progress report on EC proposed noise mapping
5PNSB6	Volker Irmer A new EU directive concerning the noise emission by equipment used outdoors
5PNSB7	Peter Hübner The action programme of UIC, UIP and CER "abatement of railway noise emissions on goods trains"
5PNSB_8	D. Botteldooren, S. Decloedt, J. Bruyneel, S. Pottie Characterisation of quiet areas: Subjective evaluation and sound level indices

5pPAa Physical Acoustics: Acoustic Remote Sensing of the Atmosphere II

5PPAA_1	Astrid Ziemann, Klaus Arnold, Armin Raabe Acoustic tomography as a remote sensing method inside the atmospheric surface layer
5PPAA_2	Lyudmila Shamanaeva Opto-acoustic sounding of the atmospheric parameters
5PPAA_3	Gerhard Peters Radio acoustic sounding of the planetary boundary layer
(no paper)	The application of SODAR and RASS configurations in operational meteorology
5PPAA_5	Lyudmila Shamanaeva, Sergei Shamanaev Acoustic sounding of fog and rain
5PPAA_6	Igor Chunchuzov, Sergey Kuchlikov Acoustic pulse sounding of the atmospheric boundary layer
(no paper)	Acoustic investigation of a vorticity filament using time reversal mirrors
(no paper)	Investigation of the effects of acoustic refraction on Doppler measurements caused by wind- and temperature profiles
5PPAA_9	Lyudmila Shamanaeva, Aleksandr Bogushevich Sodar-derived vertical profiles of the parameters of atmospheric turbulence
(no paper)	[cancelled; discussion or break]
5PPAA_11	K. Arnold, A. Ziemann, A. Raabe Experimental method of acoustic tomography inside the atmospheric surface layer

5pPAb Physical Acoustics: Sonochemistry

(no paper)	Sonochemical synthesis of new materials
(no paper)	On the frequency effect and the solvent effect in sonochemistry
5PPAB_3	Gareth J. Price The production of free radical species in ultrasound fields
(no paper)	Sonolysis of nitrophenol and nitrophenyl acetate in aqueous solution
5PPAB_5	Melanie Bradley, Muthupandian Ashokkumar, Franz Grieser Sonoluminescence from water-ethylene glycol mixtures
(no paper)	Bridging the gap between single and multi-bubble sonoluminescence
(no paper)	[cancelled; discussion or break]
(no paper)	Effect of crosslinking on dynamic mechanical properties of polyurethanes
5PPAB_9	Hui-Ming Hung, A. J. Colussi, Michael R. Hoffmann Kinetic of halogenated organic compounds degradation by ultrasound

5pPAc Physical Acoustics: Porous Media

5PPAC_1	Olga Umnova, Keith Attenborough, Kai Ming Li A coupled phase model for the acoustical properties of granular materials
(no paper)	Physics of acoustic-to-seismic coupling and detection of buried objects
(no paper)	[cancelled; discussion or break]
(no paper)	About Biot's theory and the acoustic propagation in aerogels
5PPAC_5	Alexei G. Moussatov, Christophe Ayrault, Bernard Castagnéde Influence of static pressure on ultrasound propagation in plastic foams
5PPAC_6	Z. E. A. Fellah, B. Castagnéde, C. Depollier Propagation of an ultrasonic impulse in porous media having a rigid frame
(no paper)	Calorimetric measurements of losses in mineral wool
(no paper)	Ainsotropy and sound propagation in glass wool
(no paper)	Measurement of ground impedance - Test of method
(no paper)	[cancelled; discussion or break]
(no paper)	Determination of porous material data via 2-port measurements
(no paper)	Acoustical signal attenuation, velocity and filtering by beach sand, with different water content
5PPAC_13	Andreas Blum, Ivo Flammer, Peter Germann Acoustic determination of water distribution in unsaturated soils (Poster)
(no paper)	Surface waves above thin porous layers and periodic structures (Poster)
(no paper)	Low frequency acoustic stimulation of fluid flow in porous media (Poster)
5PPAC_16	S. Sahraoui, M. Etchessahar, E. Mariez Damping modelization of acoustic foams at low frequency: Calculation of the air flow resistivity (Poster)

5pPAd Physical Acoustics and Noise: Outdoor Sound

(no paper)	The eigenray method for rapidly estimating refraction effects in a linear profile atmosphere
5PPAD_2	Cora Cremezi, Claude Legros Atmospheric sound propagation: Application to the case of aircraft landing and take off
(no paper)	Long-range acoustic propagation in the nocturnal boundary layer
(no paper)	[cancelled; discussion or break]
5PPAD_5	D. Keith Wilson, Calandra R. Tate, David C. Swanson, Karl M. Reichard Acoustic scintillations induced by atmospheric turbulence, as imaged with a large planar vertical microphone array
(no paper)	Sound propagation near the ground in a turbulent atmosphere
5PPAD_7	Branko Somek, Siniša Fajt, Hrvoje Domitrović The high-power acoustical warning system
(no paper)	Infrasound detector design for recording sonic booms and events of CTBT interest
(no paper)	Wind induced infrasound in the atmosphere
5PPAD_10	Dieter Hohenwarter, Friedrich Jelinek Snell's law of refraction for a moving medium

5pPPa Psychological and Physiological Acoustics: Pitch, Loudness and Frequency Effects

5PPPA_1	Hideki Iwasawa, Makio Kashino Adaptation to a two-component amplitude modulator
(no paper)	A privileged perceptual status for rising intensity tones
(no paper)	Effects of instantaneous phase shifts and gap duration on pitch of unresolved complex tones
(no paper)	Fundamental frequency discrimination: Influence of lateralized temporal fringes
(no paper)	Competition between space and time in the auditory system
(no paper)	Forgetting pitch and loudness
(no paper)	Loudness recalibration and complex tones
(no paper)	Is the auditory filter optimal?
(no paper)	Adaptive psychophysics based on unforced-choice tasks
5PPPA_10	Ingrid M. Noordhoek, Tammo Houtgast, Joost M. Festen Relation between speech intelligibility in noise and spread of masking for hearing-impaired listeners
5PPPA_11	Georges Canévet, Xavier Regal, Olivier Sauvage, Robert Teghtsoonian, Martha Teghtsoonian Magnitude estimation of auditory and visual signals with continuously decreasing level or size
(no paper)	[cancelled; discussion or break]

5pPPb Psychological and Physiological Acoustics: Binaural Processing, Cocktail Party Effects and Localization (Poster Session)

- (no paper) Spectral integration in binaural processing (Poster)
- (no paper) A cocktail party effect in the median plane? (Poster)
- 5PPPB_3Takayuki Kawashima, Makio Kashino, Takao Sato
Perceptual learning in the discrimination of interaural time differences (Poster)
- (no paper) Measuring the role of masker-correlation uncertainty in binaural masking experiments (Poster)
- (no paper) Modeling the role of masker-correlation uncertainty in binaural masking experiments (Poster)
- (no paper) A priori knowledge of the sound source spectrum in median plan localization (Poster)
- (no paper) Analysis of different pointing methods in localization experiments of sound sources (Poster)
- (no paper) Localization experiments with saccadic responses in virtual auditory environments (Poster)

5pSAaStructural Acoustics and Vibration:
Structural Vibration, Radiation and Scattering II5pSAA1

5PSAA_1	Sven Lindblad, Karl-Ola Lundberg The modulation direct field radius
5PSAA_2	Victor T. Grinchenko Eigenforms and eigenfrequency spectrum of finite elastic cylinder
5PSAA_3	Eric Landel, Patrick Blanc, Thierry Loyau Acoustic pressure radiated by a vibrating body in the high frequency domain
(no paper)	Finite panel sound radiation through an absorbent layer
(no paper)	Low frequency (ka<10) monostatic scattering and elastic wave generation produced by end insonification of homogeneous, finite rods $(1/a=8)$
5PSAA_6	Karl-Ola Lundberg, Sven Lindblad The modulation direct field radius: Experiments
(no paper)	Broadband 3D high spatial density structural response measurements of a pair of framed air-loaded cylinders of differing internal complexity
(no paper)	Measurements of the condition of compliant coatings for prediction of acoustic performance
5PSAA_9	R. A. Fulford Analysis of structure-borne sound transmission using spatial statistical distributions
5PSAA_10	Andrzej Dobrucki, Bronisław Żółtogórski The influence of sound radiation on vibration of mechanical structures
5PSAA_11	N. Enescu, M. Bugaru, M. V. Predoi Acoustic emission model for a thin circular plate with large deflections
5PSAA_12	W. J. Rdzanek, Z. Engel, W. P. Rdzanek, Jr. The acoustic radiation power of a circular plate simply supported for axially-symmetric free vibrations

5pSAbStructural Acoustics and Vibration:
International Workshop on Active Noise and Vibration Control -
- Transducers for Active Noise and Vibration Control

(no paper)	Novel electrostrictive poly(vinylidene fluoride-trifluoroethylene) copolymer actuators
(no paper)	Cymbal-based actuator panels
5PSAB_3	Helmut Berger Estimate of the radiated acoustical power using strain sensing
5PSAB_4	R. Bauer, P. Lotton, P. Hamery, A. Dancer A new piezoelectric ANR (Active Noise Reduction) earplug
(no paper)	Robust design of a sensorless bass-enhanced moving coil ANC actuator
(no paper)	Magnetostrictive actuation and digital variable structure control for active noise and vibration cancellation
(no paper)	Piezo actuators for active vibration control and isolation - Principles and practical experiences
5PSAB_8	Steffen Deus, Wolfgang Schatz Test of various sound transducers for the use in ANC-systems and several applications of the ANC-system NANCY (Poster)

5pSCa Speech Communication: Speech Perception and Recognition (Poster Session)

(no paper)	Vowel recognition from harmonic spectra (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	Voiced-unvoiced classification for recognition of stop consonants (Poster)
5PSCA_4	Olivier Crouzet, Nicole Bacri Toward an attentional account of the involvement of phonotactical constraints in speech segmentation processes (Poster)
(no paper)	Burst spectra and place of articulation in read speech (Poster)
5PSCA_6	Corine Bickley Does "one hundred fifty five" mean 155 or 100,55 or 100, 5 or 1,155 or 100,50,5? (Poster)
(no paper)	The acoustic-front-end of the FUL speech recognition system (Poster)
5PSCA_8	Shahla Sehhati Inventory of the used "phonetic elements" (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	The time course of lexical involvement in phonetic categorisation (Poster)
(no paper)	Use of temporal envelope cues for the recognition of words and phonologically-significant contrasts (Poster)
(no paper)	On the link between acoustic cue distributions and categorization dependencies (Poster)

5pSCb Speech Communication: Consonants and Vowels (Poster Session)

5PSCB_1	Peter M. Janker, Bernd Pompino-Marschall, Seadet Zeynalowa Variation in the pronunciation of German "ein_" (Poster)
(no paper)	[cancelled] (Poster)
(no paper)	Do harmonic consonant clusters in Georgian have only one release? (Poster)
(no paper)	Effect of frequency modulation of F0 on the accuracy of formant frequency matches (Poster)
(no paper)	Articulatory discriminability of vowels: Articulator and corpus effects (Poster)
(no paper)	Perceptual consequences of unintended epenthetic stops (Poster)
(no paper)	The relevance of F4 in distinguishing between different articulatory configurations of American English $/r/$ (Poster)
(no paper)	[cancelled] (Poster)
5PSCB_9	Bernd Pompino-Marschall, Peter M. Janker The perception of German syllabic [n] (Poster)
5PSCB_10	Frank Gooding Loudness and prominence in front vowels (Poster)
(no paper)	Adults' perception and production of the English vowel /i/ (Poster)
5PSCB_12	Anthony J. Watkins Reflection patterns and coloration of vowels (Poster)
(no paper)	Help or hindrance: How violation of different assimilation rules affects spoken language processing (Poster)
(no paper)	Perceptual properties of English fricatives (Poster)
(no paper)	Influence of frequency range in the perceptual recognition of fricatives (Poster)
(no paper)	Phonetic priming of features in a naming task (Poster)
(no paper)	Top-down influences on phonetic processing as a function of aging (Poster)
(no paper)	Speaking rate effects on vowel identification in natural sentence contexts (Poster)
(no paper)	Perceptual vowel spaces derived by computer game (Poster)

NATIONAL DAY - DAGA-TAG

Psychoakustik

DAGA1	Gerald Langner, Elisabeth Wallhäußer-Franke, Claudia Mahlke Physiological evidence for tinnitus generation in the central auditory system
(kein Beitrag)	[Vortrag abgesagt]
DAGA3	Werner Vespermann Kriminelle psychoakustische Bedingungen in Hochschul-Auditorien behindern beim Lernen und bringen die Redner (akustisch) auf den Weg zum Eunuchen
Sprache	
DAGA4	Gudrun Klasmeyer, Thomas Meier Rhythm in emotional speech

DAGA5	Astrid Paeschke, Miriam Kienast, Walter F. Sendlmeier F ₀ -Konturen bei emotionaler Sprechweise
DAGA6	Ralf Kern, Dieter Leckschat, Edgar Bolinth, Uwe Schwark Untersuchungen des BLUETOOTH-CVSD-Sprachcoders im Vergleich zum DECT ADPCM- Sprachcoder (G.726)
DAGA7	Felix Burkhardt, Walter F. Sendlmeier Simulation des emotionalen Ausdrucks "Freude" mit Sprachsyntheseverfahren

Meßtechnik

DAGA8	Joachim Herbertz Zeigt der Schallpegelmesser den Pegel des Schalldruckes?
DAGA9	Karl-Heinz Pflaum, Stefano Klinke, Dieter Leckschat Mikrofone mit ausgeprägten Richteigenschaften zum Einsatz unter Störschallbedingungen

Schienenverkehr

- (kein Beitrag) Geräuschemissionen von Zugvorbeifahrten auf Festen Fahrbahnen
- DAGA_11 H.-J. Giesler Geräuschemissionen von Strassenbahnen

Thermodynamik

- (kein Beitrag) [Vortrag abgesagt]
- (kein Beitrag) [Vortrag abgesagt]

Raum- und Bauakustik

DAGA_14 Carsten Bayer, Arild Lacroix Kopplung der Schwingungsmoden eines kreiszylindrischen Hohlraumresonators mit den Eigenschwingungen einer Membran

DAGA_15	R. Heitfeld, A. Jakob, M. Möser Aktive Verbesserung der Luftschalldämmung von kleinen Doppelfenstern
DAGA_16	W. Schirmer, D. Friedemann, L. Wiedemann
	Erfahrungen mit dem Trittschall-Kurzprüfverfahren nach CEN TC 126 WG 1 bei der Überwachung der Sanierung von Treppenhaus-Podesten großer Zahl
DAGA_17	W. Schirmer, D. Friedemann
	Zur Planung von Fußböden mit verminderten Gehgeräuschen
DAGA_18	Uwe Ritterstaedt
	Noise contingentation in land use planning

Lehre in der Akustik

DAGA_19	Peter Költzsch
	Überlegungen zum Studium der Akustik an deutschen Universitäten und Hochschulen

Biologische Akustik

DAGA_20	G. Marx
	Beurteilung der Lauteigenschaften von Küken zur Einschätzung sozialer Belastungen

Elektroakustik

DAGA_21 Florian M. König Über die Möglichkeit einer ortsunabhängigen, individuellen Bestimmung von Außenohr-Übertragungsfunktionen ohne akustischen Meßaufwand (Poster)

Poster: Biologische Akustik

(kein Beitrag) Einschätzung von Belastungen durch Managementmaßnahmen beim Geflügel an den Lautäußerungen in größeren Tiergruppen (Poster)

Poster: Lärmschutz

DAGA_23	V. Marquardt, D. Schäffer, G. Marx, H. Prange Lärm als Umweltkomponente in der Schweinehaltung (Poster)
DAGA_24	Udo Lenz, Reinhold Waßmann, J. Siegmann Ermittlung des Lärmminderungspotentials von Straßenbahnen durch Optimierung des Fahrweges - Ableitung von Bauempfehlungen - (Poster)

Poster: Sprache

- DAGA_25 Marcin Kuropatwinski, Dieter Leckschat, Kristian Kroschel, Andrzej Czyzewski Ein Ansatz zur Integration von Quellenkodierung und Geräuschreduktion bei der Sprachübertragung im Mobilfunk (Poster)
- DAGA_26 F. Ranostaj, A. Lacroix Analyse der akustischen Eigenschaften des Nasaltrakts (Poster)