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## Index of papers (per session) and posters (\* only abstract available)



**Opening Session**

	Governor's Proclamation	Official statement by Her Excellency M. Jodi Rell, Governor of the State of Connecticut
	Kenneth M. Eldred	Dedication to Henning von Gierke
	Barbara Griefahn	Dedication to Alexander Samel
	Gerd Jansen	Outlines of ICBEN
	Adrian Davis	<b>Keynote</b> Noise: Public health challenges and solutions
	Roger L. Gentry	Review of underwater noise and its effects on marine animals*
	James A. Simmons	<b>Banquet Talk</b> Effects of environmental sounds on bat sonar*



## Noise-Induced Hearing Loss

**Chair: Mariola Sliwinska-Kowalska;  
Thais Morata  
Co-chair: Adrian Davis; Robert Dobie**

<b>Oral</b>	Mariola Sliwinska-Kowalska	Noise-induced hearing loss in humans – 5 year update*
	Sharon G. Kujawa	Acute, chronic and delayed consequences of noise exposure in animal models – 5 year update*
	Robert A. Dobie	Relative contributions of aging and noise to the overall societal burden of adult hearing loss*
	Adrian Davis, Russell Ecob, Pauline Smith	The relationships between work-based noise over the adult life course and hearing in middle age
	Deanna K. Meinke, William Hal Martin, Susan E. Griest, Linda Howarth, Judith L. Sober, Theresa Scarlotta	Dangerous Decibels® I: Noise induced hearing loss and tinnitus prevention in children. Noise exposures, epidemiology, detection, interventions and resources
	Elliott H. Berger, Jeremie Voix, Lee D. Hager	Methods of fit testing hearing protectors, with representative field test data
	Brian Fligor	Risk for NIHL from personal listening devices*

	Helmut Strasser, Min-Chi Chiu, Oliver Müller	Threshold shifts and restitution of the hearing after energy-equivalent noise exposures with an equal NRC-value and non-equal frequency composition
	Yi-ming Zhao, Roger P. Hamernik, Lin Zeng, Xiaoru Cheng, Shan-song Chen, Wei Qiu, Bob Davis	Dose-response relationship for noise induced hearing loss in impulse noise and continuous noise exposure workers by kurtosis adjusting exchange rate*
	Noah Seixas, Patrick Feeney, David Mills, Richard Folsom, Lianne Sheppard, Richard Neitzel, Sharon Kujawa	Opportunities and challenges in longitudinal assessment of hearing parameters among construction workers*
	William Hal Martin, Deanna K. Meinke, Judith L. Sobel, Susan E. Griest, Linda C. Howarth	Dangerous Decibels® II: Critical components for an effective educational program and special considerations for hearing loss prevention devices for children
	Pierre Campo, Katy Maguin	Effects of aromatic solvents on acoustic reflexes
	Thais C. Morata, Mariola Sliwinska-Kowalska, Ann-Christin Johnson, Jukka Starck, Krystyna Pawlas, Ewa Zamyslowska-Szmytke, Per Nysten, Esko Toppila, Edward Krieg, Deepak Prasher	A European multicenter study on the audiometric findings of styrene-exposed workers*
<b>Poster</b>	Lin Zeng, Dong-liang Chai, Hui-juan Li, Zhuo Lei, Yi-ming Zhao	Personal noise exposure assessment of overhead-traveling crane drivers in steel-rolling mills
	Gerald Fleischer, Reinhard Müller	Acoustics versus insight: Strategies against noise-induced auditory damages
	Rafidah Hanim Mokhtar, Raja Ahmad, Azizi Ayob, Wan Ishlah	Ratio of total cholesterol over HDL is a better hyperlipidemia indicator for sensorineural hearing loss?*
	Tony Leroux, Adriana Lacerda, Jean-Pierre Gagné	Auditory effects of chronic exposure to carbon monoxide and noise among workers
	Deanna K. Meinke, Barden B. Stagner, Brenda L. Lonsbury-Martin, Glen K. Martin	Detailed DPOAE level/phase maps provide insight into normal and noise-damaged human ears*

A. Shubhra Shanker, Imran Dhamani, B. Rajashekar	Use of narrow band noise to screen for cochlear dead regions*
Adrian Fuente	Central auditory dysfunction associated with solvent exposure*
Ewa Zamyslowska-Szmytko, Adrian Fuente, Mariola Sliwinska-Kowalska	Temporal processing disorders associated with styrene exposure*
Malgorzata Pawelczyk, Lut van Laer, Annelies Konings, Elzbieta Rajkowska, Adam Dudarewicz, Erik Fransen, Guy van Camp, Mariola Sliwinska-Kowalska	The contribution of genetic variations to the individual susceptibility to noise*
Jennifer Tufts, Paul K. Weathersby, Gales Ferry	User-friendly parameterizations of an unscreened population dataset for the prediction of noise- and age-related hearing threshold shifts*
Thais C. Morata, Angela Maria Fontana Zocoli, Jair Mendes Marques	Audiological characteristics, attitudes and habits of Brazilian young adults and noise*
Mariola Sliwinska-Kowalska, Ferdinando Grandori, Wolf-Dieter Baumgartner, Arne Ernst, Thomas Janssen, Sophia Kramer, Stefan Stenfelt, Rudolf Probst, Adrian Davis	AHEAD III - Assessment of hearing in the elderly: Aging and degeneration - integration through immediate intervention*
Deanna K. Meinke, Noel Dice	Comparison of school-based hearing screening protocols and the identification of noise induced hearing loss in adolescents
William Hal Martin, Susan E. Griest, Judith L. Sobel	Changing knowledge, attitudes and intended behaviors regarding sound exposure in high school students: A challenging target group*
Theresa Y. Schulz, Güner Gürtunca, Mark Stephenson, Robert Randolph, Geoffrey M. Calvert, RJ Matetic, Pete Kovalchik, William J. Murphy, Rick Davis	The CDC/National Institute for Occupational Safety and Health (NIOSH) Hearing Loss Prevention Research Strategic Plan*
Ann-Christin Johnson,	Different approaches towards knowledge

Gunnel Backenroth-Ohsako, Barbara Canlon, Björn Hagerman, Nancy L. Pedersen, Ulf Rosenhall, Thöres Theorell, Mats Ulfendahl	about noise induced hearing loss in working life*
Vic S. Gladstone, George O. Purvis, Dennis Burrows	Educating the public about the safe usage of personal audio technology*
Yori Kanekama, David Downs	A university-based hearing conservation program for high school students
Madeleine J. Kerr, OiSaeng Hong, Sally L. Lusk	Theory-based health communication interventions to prevent NIHL*
Judith L. Sobel	Communicating hearing protection behaviors in adolescents
Ingrid M. Blood, Gordon W. Blood	A university course on preventing hearing loss
William Hal Martin, Genevieve Y. Martin, Susan E. Griest, William E. Lambert	How loud is your music? Beliefs and practices regarding use of personal stereo systems*
William Hal Martin, Genevieve Y. Martin	Meet Jolene: An inexpensive device for doing public health research and education on personal stereo systems
Søren Peter Lund, Gitte B. Kristiansen, Pierre Campo	Hearing loss in rats from combined exposure to carbon monoxide, toluene and impulsive noise



## Noise and Communication

**Chair: Christian Giguère**  
**Co-chair: Chantal Laroche; Anthony Brammer**


### Oral

Pierre Deshaies, Richard Martin, Danny Belzile, Pauline Fortier, Chantal Laroche, Serge-André Girard, Tony Leroux, Hughes Néliste, Robert Arcand, Maurice Poulin, Michel Picard

Noise as an explanatory factor in work-related fatality reports: A descriptive study

	Christian Giguère, Chantal Laroche, Rida Al Osman, Yun Zheng	Optimal installation of audible warning systems in the noisy workplace
	Søren Peter Lund, Berit Grevstad, Jesper Kristiansen	Test of hearing loss and hearing impairment in employees complaining of noise annoyance
	Chantal Laroche, Christian Giguère, Sigfrid D. Soli, Véronique Vaillancourt	Establishment of fitness standards for hearing-critical jobs
	Payam Ezzatian, Liang Li, Kathy Pichora-Fuller, Bruce A. Schneider	Effect of priming and amplitude fluctuations on age-related differences in release from informational masking*
	Josée Lagacé, Benoît Jutras, Jean-Pierre Gagné	Understanding the listening problems in noise experimented by children with Auditory Processing Disorders
	Anthony J. Brammer, Gongqiang Yu, Donald R. Peterson, Eric R. Bernstein, Martin G. Cherniack	Hearing protection and communication in an age of digital signal processing: Progress and prospects
	Richard H. Lyon	High output ear canal transducer for active noise reduction
	Karen L. Payton, Mona Shrestha	Evaluation of short-time speech-based intelligibility metrics
	Muhammed Ayas, Imran Dhamani, B. Rajashekhar	Speech recognition in fluctuating background noise in presence of envelope and fine structure cues: Implications in cochlear implants*

<b>Poster</b>	Barry Blesser, Linda-Ruth Salter	The unexamined rewards for excessive loudness
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	<h2 style="margin: 0;">Non-Auditory Effects of Noise</h2> <p style="margin: 0;"><b>Chair: Irene van Kamp; Hugh Davies</b> <b>Co-chair: Hugh Davies; Irene van Kamp</b></p>
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<b>Oral</b>	Hugh Davies, Irene van Kamp	Environmental noise and cardiovascular disease: Five year review and future directions
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Wolfgang Babisch, Danny Houthuijs, Göran Pershagen, Klea Katsouyanni, Manolis Velonakis, Ennio Cadum, Lars Jarup	Hypertension and exposure to noise near airports - results of the HYENA Study
R.F. Soames Job, Chika Sakashita	Conceptual differences between experimental and epidemiological approaches to assessing the causal role of noise in health effects
Goran Belojevic, Branko Jakovljevic, Katarina Paunovic, Vesna Stojanov, Jelena Ilic	Urban road-traffic noise and blood pressure in school children
Yvonne de Kluizenaar, F.J. van Lenthe, H.M.E. Miedema, J.P. Mackenbach	Road traffic noise and air pollution exposure and incidence of cardiovascular events*
Danny Houthuijs, Rob Beelen, Gerard Hoek, Bert Brunekreef, Piet A. van den Brandt, Leo J. Schouten, R. Alexandra Goldbohm, Paul Fischer, Ben Armstrong	The association of noise and air pollution from road traffic with cardiovascular mortality*
Irene van Kamp, Hugh Davies	Environmental noise and mental health: Five year review and future directions
Jesper Kristiansen, Thomas Clausen, Karl Bang Christensen, Thomas Lund	Self-reported noise exposure as a risk factor for long-term sickness absence
Anker Jensen, Søren Peter Lund, Thorsten Lücke	Health effects and noise exposure among flight-line maintainers
Masamitsu Miyakawa, Toshihito Matsui, Iwao Uchiyama, Kozo Hiramatsu, Naoki Hayashi, Iwao Morita, Kenichi Morio, Koichi Yamashita, Shinji Ohashi	Relationship between subjective health and disturbances of daily life due to aircraft noise exposure - Questionnaire study conducted around Narita International Airport -
Peter Lercher, Bram de Greve, Dick Botteldooren, Luc Dekoninck, Dietmar Oetl, Ullrich Uhrner, Johannes Rüdissler	Health effects and major co-determinants associated with rail and road noise exposure along transalpine traffic corridors

<b>Poster</b>	Hugh W. Davies, P.A. Demers, M. Buzzelli, M. Brauer	Joint effects of noise and air pollution: A progress report on the Vancouver retrospective cohort study*
	Mary Ellen Eagan, Grant Anderson, Bradley Nicholas, Richard Horonjeff, Terry Tivnan	Relation between aircraft noise reduction in schools and standardized test scores
	R.F. Soames Job	Stress-related personality tests and noise effects: New evidence but old interpretations*
	Toshihito Matsui, Takashi Uehara, Takashi Miyakita, Kozo Hiramatsu, Takeo Yamamoto	Dose-response relationship between hypertension and aircraft noise exposure around Kadena airfield in Okinawa



## Noise and Performance

**Chair: Charlotte Clark**

**Co-chair: Patrik Sörqvist**

<b>Oral</b>	Charlotte Clark	The influence of noise on performance and behavior – 5 year update
	Dylan Jones, Robert Hughes, John Marsh, William Macken	Varieties of auditory distraction
	Bridget Shield, Julie Dockrell	The effects of classroom and environmental noise on children's academic performance
	Göran Söderlund, Sverker Sikström	Positive effects of noise on cognitive performance: Explaining the Moderate Brain Arousal model
	Staffan Hygge, Ingela Enmarker, Eva Boman	A comparison of structural equation models of memory performance across noise conditions and age groups
	Annu Haapakangas, Miia Haka, Esko Keskinen, Valtteri Hongisto	Effect of speech intelligibility on task performance – an experimental laboratory study
	Lily M. Wang, Cathleen C. Novak	Effects of building mechanical system noise with fluctuations on human performance and perception*

	Robert Ljung, Anders Kjellberg	Recall of spoken words presented with a prolonged reverberation time
	Patrik Sörqvist, Niklas Halin, Staffan Hygge	Disruption of reading comprehension by irrelevant speech: The role of updating in working memory
	Valtteri Hongisto, Annu Haapakangas, Miia Haka	Task performance and speech intelligibility – a model to promote noise control actions in open offices

<b>Poster</b>	Ron Aylward, Hennie Esterhuizen	Student performance when taught in a noisy environment*
	Penny Bergman, Daniel Västfjäll, Erkin Asutay, Ana Tajadura, Anders Sköld, Anders Genell, Niklas Fransson	Emoacoustics: Sound character versus source meaning in emotional responses to sounds*
	Hsiao-chuan Chen	The effect of school location on retention of knowledge learned from an educational hearing conservation program
	David Downs, Barbara Gonzalez, Yori Kanekama, Lisa Belt	Effects of hearing protection on auditory annoyance from ultrasonic scalers used by dental hygiene students*
	Annu Haapakangas, Riikka Helenius, Esko Keskinen, Valtteri Hongisto	Perceived acoustic environment, work performance and well-being – survey results from Finnish offices
	Valtteri Hongisto	Effects of sound masking on workers – a case study in a landscaped office
	Robert Ljung, Anders Kjellberg, Anne-Marie Green	Memory of a text heard in noise
	Sanjeev Kumar Shrivatava, Kailash	Causes and effects of noise pollution: An overview*



## Effects of Noise on Sleep

**Chair: Barbara Griefahn; Kenneth I. Hume**

**Co-chair: Kenneth I. Hume; Barbara Griefahn**

<b>Oral</b>	Kenneth I. Hume	Sleep disturbance due to noise: Research over the last and next five years
	Mathias Basner, Eva-Maria Elmenhorst, Hartmut Maass, Uwe Müller, Julia Quehl, Martin Vejvoda	Single and combined effects of air, road and rail traffic noise on sleep
	Evy Öhrström, Mikael Ögren, Tomas Jerson, Anita Gidlöf-Gunnarsson	Experimental studies on sleep disturbances due to railway and road traffic noise
	Barbara Griefahn, Anke Marks, Sibylle Robens	Temporally limited nocturnal traffic curfews to prevent noise induced sleep disturbances
	M.A. Graham, S.A. Janssen, W. Passchier-Vermeer, H. Vos, H.M.E. Miedema	Habitual traffic noise at home reduces overall cardiac parasympathetic tone during sleep*
	Mathias Basner	Nocturnal aircraft noise exposure increases objectively assessed daytime sleepiness*
	Jesper Kristiansen, Roger Persson, Jonas Björk, Maria Albin, Kristina Jakobsson, Per-Olof Östergren, Jonas Ardö, Emilie Stroh	Mental distress and modeled traffic noise exposure as determinants of self-reported sleep problems
	Joos Vos	Sleep disturbance caused by impulse sounds
<b>Poster</b>	Mathias Basner, Uwe Siebert	Markov State Transition Models for the prediction of changes in sleep structure induced by aircraft noise
	Mathias Basner, Uwe Müller, Eva-Maria Elmenhorst, Barbara Griefahn	Aircraft noise effects on sleep: A systematic comparison of EEG awakenings and automatically detected cardiac arousals
	Barbara Griefahn, Sibylle Robens, Peter Bröde, Mathias Basner	The sleep disturbance index – a measure for structural alterations of sleep due to environmental influences
	Hui-Juan Li, Wen-Bo Yu, Jing-Qiao Lu, Lin Zeng, Nan Li, Yi-Ming Zhao	Investigation of road traffic noise and annoyance in Beijing: A cross-sectional study of 4th Ring Road
	Nicholas P. Miller, Robin C. Gardner	How many people will be awakened by nighttime aircraft noise?
	Edward T. Nykaza, George A. Luz, Larry L. Pater	Field research on the assessment of community impacts from large weapons

		noise
	Mikael Ögren, Evy Öhrström, Tomas Jerson	Noise and vibration generation for laboratory studies on sleep disturbance
	Sandra Pirrera, Elke De Valck, Raymond Cluydts	Nocturnal road traffic noise and sleep: Day-by-day variability assessed by actigraphy and sleep logs during a one week sampling. Preliminary findings



## Community Response to Noise

**Chair: Truls Gjestland**

**Co-chair: Soogab Lee**

<b>Oral</b>	Truls Gjestland	Research on community response to noise - in the last five years
	Peter Lercher, Bram de Greve, Dick Botteldooren, Johannes Rüdissler	A comparison of regional noise-annoyance-curves in alpine areas with the European standard curve
	Tetsuya Kaneko, Kyoichi Goto	Dose-response relationship between aircraft noise and annoyance around an airport in Japan
	Jacques Lambert, Chrystèle Philipps-Bertin	Perception and attitudes to transportation noise in France: A national survey
	Jin Yong Jeon, Pyoung Jik Lee, Jin You	Community annoyance from road traffic noise and construction noise in urban spaces
	Soogab Lee, Jiyoung Hong, Jaehwan Kim, Changwoo Lim, Kyutae Kim	Exposure-response relationships on community annoyance to transportation noise
	Sabine Anne Janssen, H. Vos, E.E.M.M. van Kempen, O.R.P. Breugelmans, H.M.E. Miedema	Trends in annoyance by aircraft noise*
	Pyoung Jik Lee, Jin Yong Jeon	Soundwalk for evaluating community noise annoyance in urban spaces
	Lex Brown, Irene van	Estimating the magnitude of the change

	Kamp	effect
	Atsushi Ota, Shigenori Yokoshima, Akihiro Tamura	The metrics of mixed traffic noise: Results of simulated environment experiments
<b>Poster</b>		
	Dick Botteldooren, Bert De Coensel, Birgitta Berglund, Mats E. Nilsson, Peter Lercher	Modeling the role of attention in the assessment of environmental noise annoyance
	James P. Cowan	The results of hum studies in the United States
	Anita Gidlöf-Gunnarsson, Evy Öhrström	The effectiveness of quiet asphalt and earth berm in reducing annoyances due to road traffic noise in a residential area
	Branko Jakovljevic, Goran Belojevic, Katarina Paunovic	Acoustical factors influencing noise annoyance of urban population
	Maarten Kroesen, Eric J.E. Molin, Henk M.E. Miedema, Henk Vos, Sabine A. Janssen, Bert van Wee	A measurement model for general negative reaction to noise
	Maarten Kroesen, Pieter Jan M. Stallen, Eric J.E. Molin, Henk M.E. Miedema, Henk Vos, Sabine A. Janssen, Bert van Wee	Assessing the role of mediators in the noise-health relationship via Structural Equation analysis
	Kin-che Lam, Wai-hong Au	Human annoyance response to a step change in noise exposure following opening of a new railway extension in Hong Kong
	Peter Lercher, Bram de Greve, Dick Botteldooren, Marine Baulac, Jérôme Defrance, Johannes Rüdissler	The effect on annoyance estimation of noise modeling procedures
	Hui Ma, Takashi Yano	Study on sound environment and community response to noise in Tianjin, a Chinese city*
	Takashi Morihara, Tetsumi Sato, Takashi Yano	Influence of attitudes to noise sources on annoyance
	Katarina Paunovic, Branko Jakovljevic, Goran Belojevic	The importance of non-acoustical factors on noise annoyance of urban residents

Hai Anh Thi Phan, Tsuyoshi Nishimura, Hai Yen Thi Phan, Takashi Yano, Tetsumi Sato, Yoritaka Hashimoto	Annoyance from road traffic noise with horn sounds: A cross-cultural experiment between Vietnamese and Japanese
Hai Yen Thi Phan, Takashi Yano, Hai Anh Thi Phan, Tsuyoshi Nishimura, Tetsumi Sato, Yoritaka Hashimoto, Nguyen Thu Lan	Social surveys on community response to road traffic noise in Hanoi and Ho Chi Minh City
David Waddington, Paul Kendrick, Geoff Kerry, Matthew Muirhead, Ray Browne	The improvement of helicopter noise management in the UK
Ichiro Yamada, Jiro Kaku, Takatoshi Yokota, Seiichiro Namba, Seigou Ogata	A new method of social survey on transportation noise using the Internet and GIS
Shigenori Yokoshima, Takashi Morihara, Atsushi Ota, Akihiro Tamura	Reanalysis of dose-response curves for Shinkansen railway noise
Jin You, Jin Yong Jeon	Sound-masking technique for combined noise exposure in open public spaces



## Noise and Animals

Chair: Mardi C. Hastings

<b>Oral</b>	Kurt Fristrup, Jesse Barber	The costs of lost auditory awareness for wildlife and park visitors*
	Mardy C. Hastings, Arthur N. Popper	Evolution of noise exposure criteria for fishes*
	David K. Delaney, Susan B. Blaeser	Introduction of the new ASA Subcommittee on Animal Bioacoustics*
	Cornelius (Neil) Huybregts	Protecting horses from excessive music noise – a case study



## Noise Policies: Regulations and Standards

**Chair: Larry S. Finegold; Jacques Lambert**

**Co-chair: Jacques Lambert; Larry S. Finegold**

<b>Oral</b>	Laurence S. Finegold, Carl Oliva, Jacques Lambert	Progress on development of noise policies from 2003-2008
	Brigitta Berglund, Stephen Stansfeld, Rokho Kim	Overview of the World Health Organization Workshop on Aircraft Noise and Health
	Michel Vallet	Airport noise policies in Europe : The contribution of human sciences research
	Mathias Basner	Aircraft noise effects on sleep: Substantiation of the DLR protection concept for airport Leipzig/Halle
	Dieter Schwela, Larry S. Finegold, John Stewart	A strategic approach on environmental noise management in developing countries
	Mikael Ögren, Henrik Andersson	Road noise charges based on the marginal cost principle
	George A. Luz	Maslow's hierarchy of needs as a model for the process of the development of national noise regulations
	Sergio Luzzi, Raffaella Bellomini, Claudia Romero	Acoustical design of hospitals: Standards and priority indexes
	Peer Jansen	Requirements for criteria and emission limits in view of social adequacy – codified law aspects

<b>Poster</b>	Mark Brink, Jean-Marc Wunderli, Hans Boegli	Community response to military shooting noise immissions - preliminary results
	Wayne R. Lundberg	Effects of science-based noise control laws, standards and policies
	Salvatore Curcuruto, Rosalba Silvaggio, Francesca Sacchetti, Guisepppe Marsico	Consideration elements for a legislation on the airport noise: The Italian experience

	Frank Turina	Using acoustic data to manage air tour noise in national parks*
	Martin L. Lenhardt	Airborne ultrasonic standards for hearing protection, 2008