

# SYMPOSIUM II: PARIS

HEALTHCARE ACOUSTICS & SPEECH PRIVACY – INTERNATIONAL PERSPECTIVES

155<sup>th</sup> ASA meeting, 5<sup>th</sup> Forum Acousticum, 9<sup>e</sup> Congres Francais d'Acoustique, 2<sup>nd</sup> ASA-EAA Joint Conference, integrating 7<sup>th</sup> EuroNoise, 9<sup>th</sup> ECUA & 60<sup>th</sup> anniversary of Societé Francais d'Acoustique

Chairs: William Cavanaugh FASA, INCE Bd. Cert., David Sykes ASA, Kerstin Persson Waye, EAA, ASA

## Session AA13: Emerging policy around the world (Tuesday 1 July, 9:20AM - 1PM, Room 252A)

D. Sykes – *Waves of change: global policies & their impacts on the acoustics profession*

K. Bergmark & M.R. Janssen – *Developing acoustical policies around in EU countries*

R. Ulrich – *Effects of healthcare acoustics on medical outcomes*

I. Hagerman, et al – *Influence of intensive coronary care acoustics on the quality of care and physiological state of patients*

A. Popplewell – *The future of UK hospital design*

K. Rockstroh – *Development of 'sound and vibration design guidelines for healthcare facilities'*

S. Prasow – *Acoustics in green buildings: refining the concept of environmental quality while improving occupant health and productivity synergistically*

A. Joseph – *Getting noise and speech privacy issues heard in design of healthcare facilities*

M. J. Kaufman & B. deB. Frederick, et al – *Noise confounds in functional MRI research and potential solutions*

K. Ueno, Y. Shimizu, et al – *Experimental study on applicability of sound masking system in medical examination room*

June 28 – July 4, 2008

Palais des Congres

Paris, France

Details: [www.acoustics08-paris.org](http://www.acoustics08-paris.org)

## Session AA14: (Tuesday 1 July, 2PM - 7PM, Room 243)

G.C. Tocci & W.J. Cavanaugh – *AIA/FGI interim acoustical guidelines for healthcare facilities*

K. Persson Waye, et al – *Relating the hospital sound environment to occupant psychological and physiological response*

S. Ryherd, et al – *Quantifying the noise environment: effects of the wearer's voice on body-mounted noise dosimeter measurements*

J. Solet, et al – *Acoustics in the environment of care: an interdisciplinary Harvard Medical School research project*

W.J. Cavanaugh & G.C. Tocci – *Speech privacy in healthcare buildings: review of early studies and current procedures for analysis*

J.S. Bradley & B.N. Gover – *New measurement procedure and rating categories for speech privacy of closed rooms*

S. Pettyjohn – *Evaluation of speech privacy index and noise isolation class rating of medical examination rooms and comparison of predictions*

J.S. Keranen, et al – *Prediction of speech privacy between rooms*

A. Nash – *Vibration effects in healthcare facilities*

M. Ribeiro Valle Macedo – *The noise control in laboratories and health areas: a keyword in order to practice biosafety*  
[Poster session: Thursday 3 July]

H. Xie & J. Kang – *A systematic review on the influence of noise on patients' sleep in the Intensive Care Units*

Sessions AA13 & AA14 organized by the joint ASA/INCE/NCAC subcommittee on healthcare acoustics & speech privacy, [www.healthcareacoustics.org](http://www.healthcareacoustics.org)



# HEALTHCARE ACOUSTICS: PARIS

MORE SPECIAL SESSIONS ON ACOUSTICS IN HEALTHCARE & LIFE SCIENCES

Co-chairs of session NS15: (part I) Erica Ryherd & Marc Janssen; (part II) Jack Evans & Marc Asselineau;  
Co-chairs of NS16: Barbara Griefahn, Jacques Lambert & Lily Wang

## Noise, vibration and acoustics for medical and research facilities and their occupants

**Session NS15/1: Hospital noise effects on patients, medical staff and occupant safety. (Thursday 3 July, 2 - 7PM, Room 251)** Organized by Erica Ryherd ([erica.ryherd@me.gatech.edu](mailto:erica.ryherd@me.gatech.edu)) and Marc Janssen ([marc.janssen@ecophon.se](mailto:marc.janssen@ecophon.se))

I. Busch-Vishniac and J. West – “Toward a comprehensive hospital noise reduction research program”

E. Ryherd and K. Persson Waye – “Describing the sound environment of the neurological intensive care unit and personnel response”

A. Haapakangas, R. Helenius, and V. Hongisto – “Indoor environment and acoustic conditions in two Finnish hospital wards”

M. Phiri – “Eliminating environmental stressors in hospitals: managing noise through different interventions”

M. Janssen – “Improved perception of sound environments through room acoustic interventions”

S. Okcu, C. Zimring, and E. Ryherd – “Aural connectivity: Enhancing sound environments in critical care settings for effective nurse auditory monitoring”

R. Carman, D. Jue, and G. Glickman – “Vibration effects on laboratory mice during building construction”

H. Amick and M. Gendreau – “Vibration kills and other lessons from the trenches”

S. Beristain – “Noise in an emergency treatment ward”

**Session NS15/1: Scientific and medical research facilities and hospitals. (Friday 4 July, 8 - 10AM, Room 251)** Organized by Jack Evans ([evans@jeacoustics.com](mailto:evans@jeacoustics.com)) and Marc Asselineau ([m.asselineau@peutz.fr](mailto:m.asselineau@peutz.fr))

M. Gendreau – “Generic noise criterion curves for sensitive equipment”

B. Jurdy and M. Yantis – “Realistic floor vibration criteria for MRI operation: A compilation of case studies”

C. Papadimos – “Vibration case study – Design challenges for meeting medical imaging manufacturer specifications”

C. Ostendorf – “Don't forget the quench pipe when installing an MRI”

F. Krajcarz – “Study case of a centre for biomedical analyses: the importance of an acoustic analysis of the current situation and definition of the targets to be achieved.”

C. Laroche, C. Giguère, and V. Vaillancourt – “Use of a versatile acoustic room for audiology applications”

Y. Ben-Dov, P. Heiland, and S. Rajan – “NMR sensitivity to floor vibration”

## NS15 Poster Session (Thursday 3 July 3:40PM - 5:20PM):

J. Perry – “Case study of MRI installation in existing hospitals”

M. Asselineau – “Noise control of laboratories: Case studies”

J. Evans, C. Himmel, and D. Kupersztoch “Nanotechnology research facility – A vibration and noise control design case study”

J. West, I. Busch-Vishniac, J. King, and N. Levit – “Noise reduction in an operating room: A case study”

## Session NS16: Sleep disturbance and other health effects (Wednesday, 2 July, 1:40PM - 3:40PM, Room 252A)

W. Babisch, D. Houthuijs, G. Pershagen, K. Katsouyanni, M. Velonakis, E. Cadum, and L. Jarup – Associations between road traffic noise level, road traffic noise annoyance and high blood pressure in the HYENA study

B. Griefahn – Determination of noise sensitivity within an internet survey using a reduced version of the Noise Sensitivity Questionnaire

S. McGuire & P. Davies – A case study on the validation of models that predict the impact of aircraft noise on sleep

N.P. Miller – Computing number of people awakened by aircraft operations noise

L.M. Ronsse & L.M. Wang – Effects of a hearing aid noise management feature on user perception and performance under noise

H. Wolfert – Noise and health in the greater Rotterdam area

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