

Schedule of Presentations

Forum Co-chairs: Philip Nelson and Tor Kihlman

Monday, August 24: **LOW-NOISE MACHINERY AND EQUIPMENT
FOR WORKPLACE AND COMMUNITY (Session 1)**

The first day of the forum will be devoted to the design of products, machinery, and equipment that are sources of noise in occupational, domestic, and community settings. Included will be 'basic' mechanical components (engines, pumps, fans, compressors...) and a 'green' source of power.

Session 1 Chair: Jean Turrett

Time		Presenter	Presentation Topic
1:35	Forum Opening	Philip Nelson, U.K.	
1:40	Session 1 Opening	Jean Turrett, France	Overview of the machinery and equipment noise issue
2:00	Panelist 1	Raj Singh, Ohio State University, U.S.A.	Design of low-noise mechanical components
2:20	Panelist 2	Steve Marshall, Baltimore Air Coil, U.S.A.	Design of low-noise refrigeration compressors
2:40	Panelist 3	Marco Beltman, Intel, U.S.A.	Design of low-noise fans and air-moving devices
3:00	Panelist 4	Serguei Timushev, Moscow, Russia	CFD programs for pumps and fans; acoustic optimization
3:20	BREAK		
3:40	Panelist 5	Michael Dittrich, TNO (by Frits van der Eerden, TNO), The Netherlands	Low-noise design of complex machines using specific software
4:00	Panelist 6	Mark Bastasch, CH2M Hill, Oregon, U.S.A.	Design of wind turbines and farms
4:20	Discussion		
5:00	Close		

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Tuesday, August 25: LOW-NOISE PRODUCTS AND BUILDING NOISE
(Sessions 2 and 3)

On the morning of the second day the focus continues on the design of low-noise products and equipment (stationary production equipment in manufacturing plants, consumer products and household appliances, off-road recreational vehicles, and offices).

The afternoon of the second day will focus on the design of buildings (including "green" buildings) and the construction products and materials developed to provide low-noise environments. Recommended practices and building codes will be considered.

Session 2 Chair: Jean Tourret

Session 3 Chair: J. David Quirt

Time		Presenter	Presentation Topic
8:55	Session 2 Opening	Jean Tourret, France	
9:00	Panelist 1	Goran Pavic, INSA Lyon, France (by Jean Tourret)	Noise prototyping of machines
9:20	Panelist 2	Chuck Hayden, NIOSH, Cincinnati, U.S.A.	Noise control by design of air compressors and tools
9:40	Panelist 3	Bob Anderson, Consultant, Michigan, U.S.A.	Noise reduction at source in manufacturing plants and workshops (machine tools, other tools, processes . . .)
10:00	Panelist 4	TBD	Low-noise household appliances
10:20	BREAK		
10:40	Panelist 5	Tom Reinhart, Southwest Research Institute, U.S.A.	Low-noise, off-road recreational vehicles
11:00	Panelist 6	Egons Dunens, Hewlett Packard, U.S.A.	Noise reduction at source in offices (computers, printers, air-moving devices, call centers . . .)
11:20	Discussion		
12:00	LUNCH		
1:40	Session 3 Opening	J. David Quirt, NRC, Canada	Overview of building noise
2:00	Panelist 1	Brad Gover/Berndt Zeitler, NRC, Canada	Noise transmission in commercial and residential buildings
2:20	Panelist 2	Laymon Miller, Consultant, Florida, U.S.A.	System approach to the control of noise and vibration in building due to HVAC equipment, other service equipment, and special needs situations (Part 1)
2:40	Panelist 3	Laymon Miller, Consultant, Florida, U.S.A.	System approach to the control of noise and vibration in building due to HVAC equipment, other service equipment, and special needs situations (Part 2)
3:00	Panelist 4	Ralph Muehleisen, Illinois Inst. of Technology, U.S.A.	Noise problems and opportunities in "green" buildings
3:20	BREAK		
3:40	Panelist 5	Bill Cavanaugh (for Birgit Rasmussen, Danish Bldg Res Inst., Denmark)	Noise limits and building codes
4:00	Panelist 6	Brandon Tinianov, Serious Materials, U.S.A.	Sustainable materials and new developments for building noise control
4:20	Discussion		
5:00	Close		

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Wednesday, August 26: **CODES, PRACTICES, AND STANDARDS FOR LOW-NOISE MACHINERY AND EQUIPMENT (Session 4)**

On the third day there will be discussions of recommended practices, labeling, noise declarations and requirements, and the limitations of current standards as well as future needs for standardization, test codes for products, machinery, and equipment.

Session 4 Chair: Bob Hellweg

Time		Presenter	Presentation Topic
8:50	Forum Objectives	Tor Kihlman, Sweden	
9:00	Session 4 Opening	Bob Hellweg, U.S.A.	Overview of standards and test codes
9:20	Panelist 1	Jean Jacques, INRS, France	International machinery and product noise emission test standards and codes
9:40	Panelist 2	Matt Nobile, IBM, U.S.A.	Product noise declarations for the general public
10:00	Panelist 3	Patrick Kurtz, BUA, Germany	Machinery and product noise emission limits and requirements
10:20	BREAK		
10:40	Panelist 4	Mike Lucas, Ingersoll-Rand, U.S.A.	Limitations of current standards and test codes
11:00	Panelist 5	Hans Jonasson, SP, Sweden	Future needs for standards and test codes for low-noise products, machinery, and equipment
11:20	Discussion		
12:00	Close		