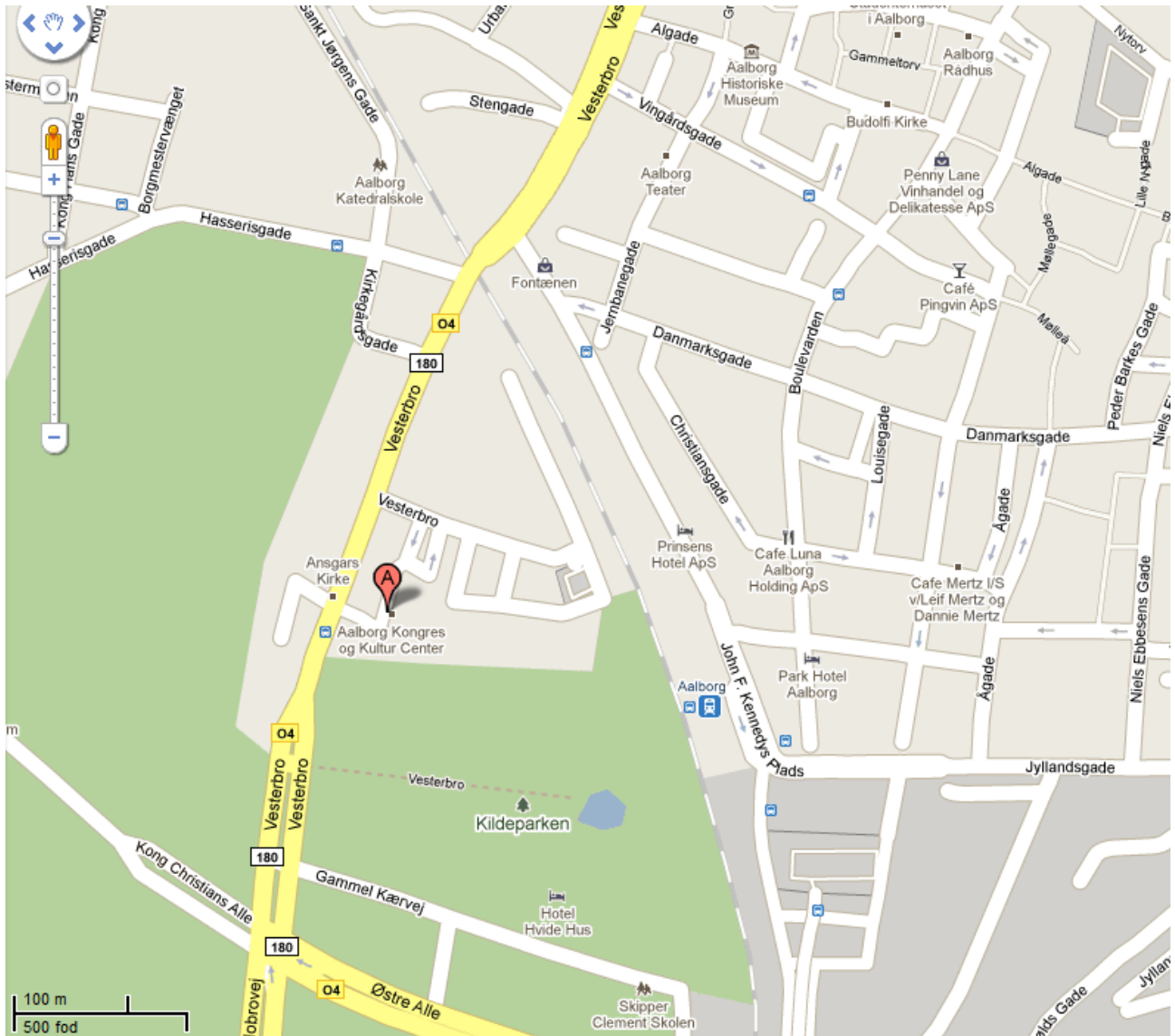


Final programme for the Low-frequency 2010 conference:

Conference venue overview.

The conference venue is Aalborg Kongress & Kultur Center (Aalborg Congress & Culture Center) which is located at Europa Plads 4, 9000 Aalborg, Denmark (marked with **A** on the map below).



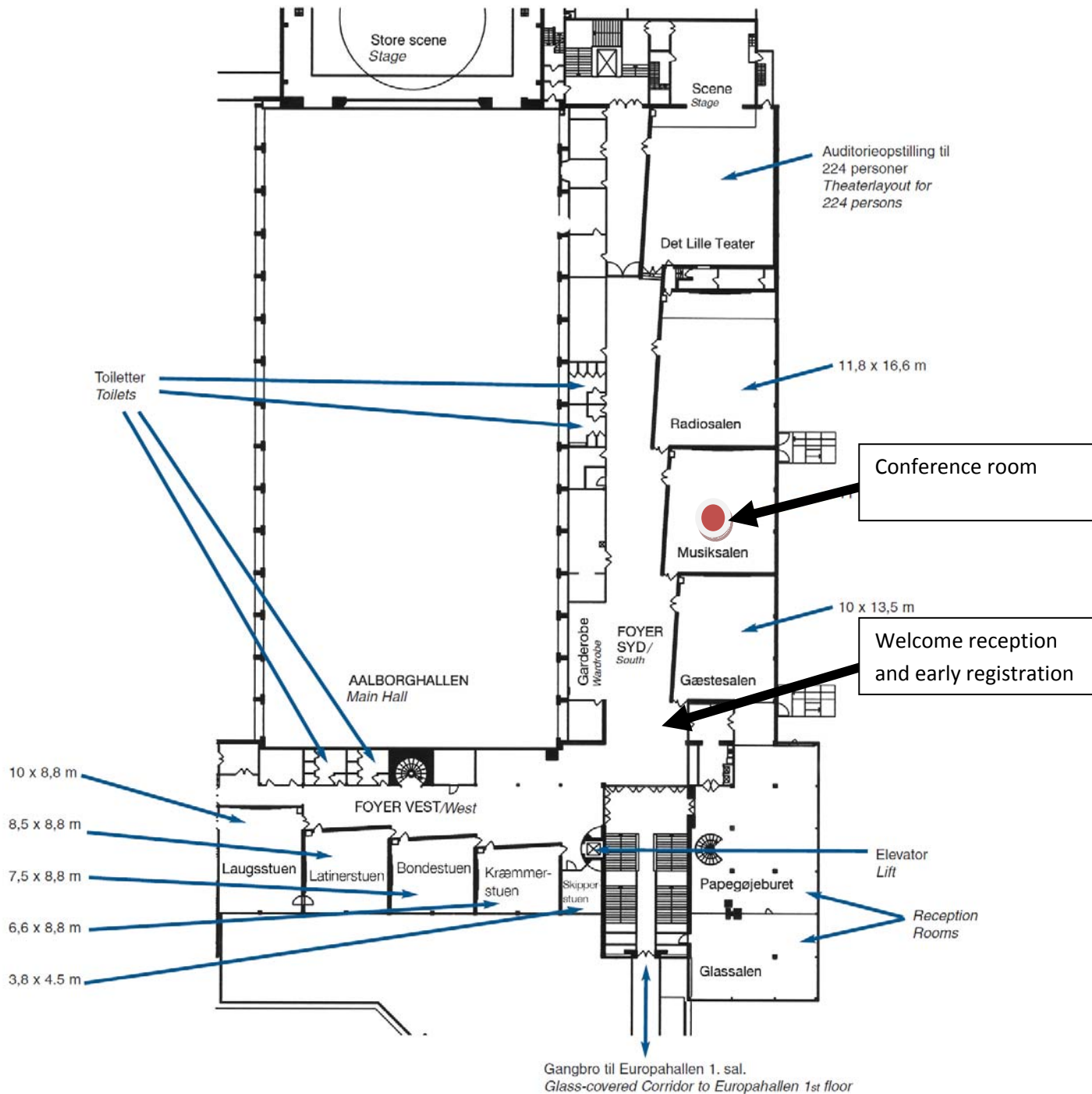
Tuesday 19.00-21.00 the welcome reception is held at the 1st floor outside the conference rooms, where there will be a possibility of early registration (number **16** on the 3D floor plan).

The room for the conference is “Musiksalen” which is located at the 1st floor (number **18** on the 3D floor plan). Registration will be just outside the conference room.

Lunch will be served in the “Papegøjehaven” restaurant on the main floor (number **30** on the 3D floor plan) – down the stairs from the conference floor.

2D Floor plan of the conference 1st floor.

MØDELOKALER 1. SAL - MEETING ROOMS 1ST FLOOR



Final programme overview

Time	Tuesday	Wednesday	Thursday	Friday
8.00		Registration	Registration	Registration
8.20				
8.40				
9.00		Conference opening	P.2.1	P.3.1
9.20		P.1.1	P.2.2	P.3.2
9.40		P.1.2	P.2.3	P.3.3
10.00		P.1.3	P.2.4	P.3.4
10.20		Coffee break	Coffee Break	Coffee Break
10.40		P.1.4	P.2.5	P.3.5
11.00		P.1.5	P.2.6	P.3.6
11.20		P.1.6	P.2.7	P.3.7
11.40		P.1.7	P.2.8	P.3.8
12.00		Lunch	Lunch	Lunch
12.20				
12.40				
13.00		P.1.8	Bus departure for	Closing discussion
13.20		P.1.9	social programme	
13.40		P.1.10	Visit to Acoustics laboratory	
14.00		P.1.11		
14.20		Coffee break		Coffee break
14.40		P.1.12		Closing ceremony
15.00		P.1.13		
15.20		P.1.14		
15.40		P.1.15		
16.00			Visit to Viking museum -	
16.20			Lindholm Høje	
16.40				
17.00				
17.20				
17.40				
18.00	Registration open			
18.20				
18.40				
19.00	Welcome reception		Conference dinner at	
19.20	and early registration		Lindholm Høje	
19.40				
20.00				
20.20				
20.40				
21.00				
21.20			Bus departure to conference place	

Information for presenters

Each paper has 20 minutes for presentation. It includes oral presentation, discussion and changeover to the next author. For example, 15 minutes for the oral presentation, 3 minutes for the questions or discussions and 2 minutes for changeover to the next author.

A laptop with windows and powerpoint 2007 (which is compatible with earlier versions as well) is available. If you are presenting in the morning please upload your presentation to the notebook before 9.00. If you are presenting in the afternoon please upload your presentation before 13.00.

Programme for technical-social tour Thursday June 10th

13:10 Bus departure from conference place

13:30 Visit to the Laboratories of Acoustics, Aalborg University, including

- Introduction / Dorte Hammershøi
- Presentation and demo in special low-frequency test facility for controlled plane wave exposure / Christian Sejer Pedersen
- Presentation and demo in special low-frequency pressure chamber / Carlos Jurado
- Demonstration of plane wave control for HiFi sound reproduction / Sofus Birkedal Nielsen
- 3D sound recording and playback / Flemming Christensen
- Setup and demo for dynamic 3D sound / Søren Krarup Olesen
- Risk of hearing damage from MP3 players / Dorte Hammershøi
- Hearing diagnosis by use of OAE / Rodrigo Ordoñez

15:45 Departure for Lindholm Høje for the Viking conference dinner.

16:00 Arrival and welcome at Lindholm Høje

- Visit at the historical site, incl. animated introduction to the history and living of the Vikings
- Visit at the Museum

19:00 Dinner at the Museum

Please note that part of this event will take place out-door, and includes walking on non-pathed surface.

Ca. 21:30 Bus departure for conference place

- 1 **Administrationsfløj**
Administration wing
- 2 **Indgang til Aalborg Kongres & Kultur Center**
Entrance to the Aalborg Congress & Culture Centre
- 3 **Arrangørkontor**
Organizer office
- 4 **Billetkontor**
Box office
- 5 **Indgang til Aalborg Kongres & Kultur Center**
Entrance to the Aalborg Congress & Culture Centre
- 6 **"Skipperstuen"**
Mødelokale med plads til 10
Meeting room, seating 10
- 7 **"Kræmmerstuen"**
Mødelokale med plads til 22
Meeting room, seating 22
- 8 **"Bondestuen"**
Mødelokale med plads til 60
Meeting room, seating 60
- 9 **"Latinerstuen"**
Mødelokale med plads til 78
Meeting room, seating 78
- 10 **"Laugstuen"**
Mødelokale med plads til 98
Meeting room, seating 98
- 11 **"Papegøjeburet"**
Restaurant med plads til 264
gæster
Restaurant, seating 264 diners
- 12 **Forhal med information, billetkontor, "Café Oasen" og arrangørkontor**
Vestibule with information desk, box office, "Café Oasen", and organizer office

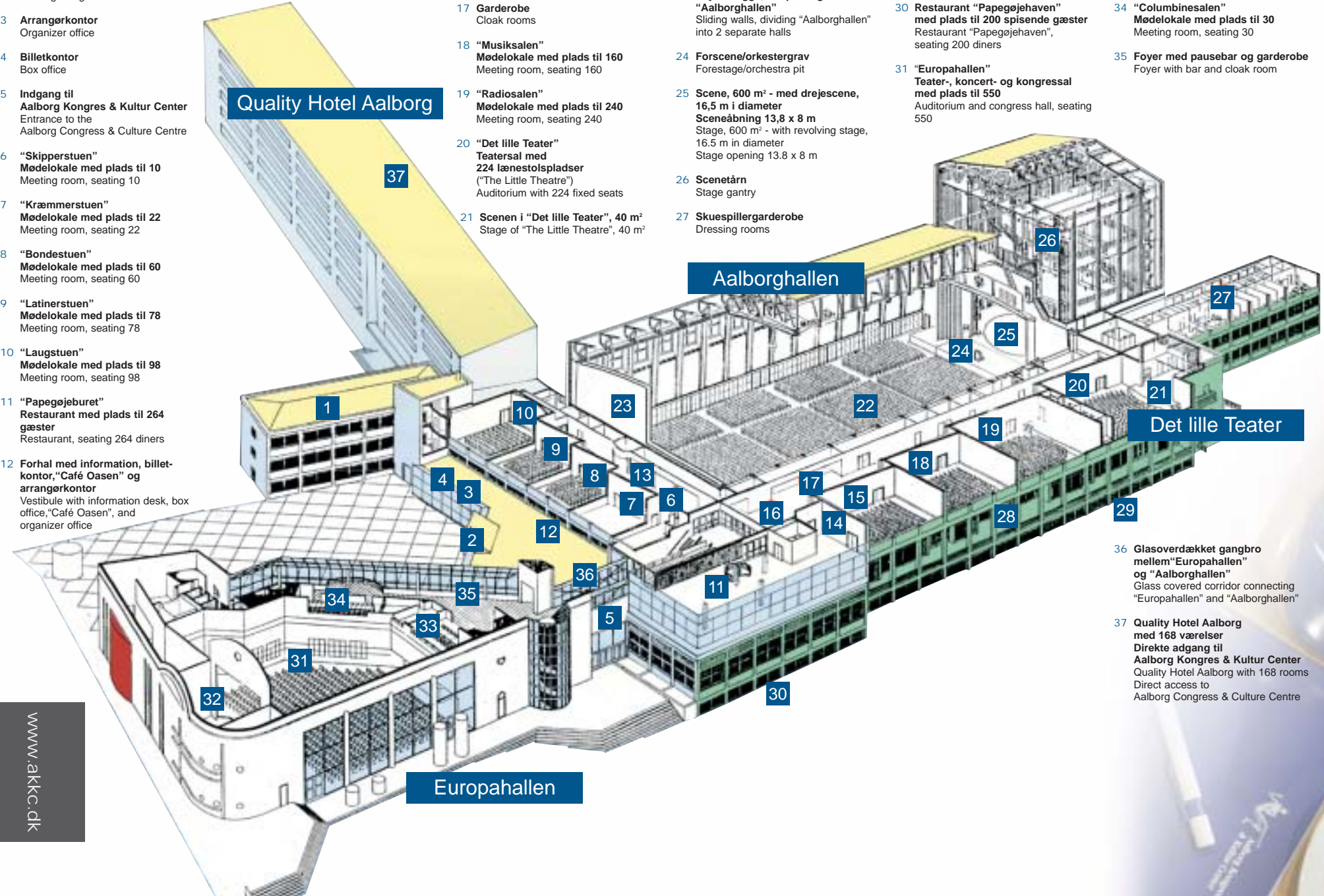
- 13 **Trappe**
Stairway
- 14 **Mellemgang fra "Papegøjeburet" til "Gæstesalen"**
Passage from "Papegøjeburet" to "Gæstesalen"

- 15 **"Gæstesalen"**
Mødelokale med plads til 160
Meeting room, seating 160
- 16 **Foyer på 1. sal**
1st floor foyer
- 17 **Garderobe**
Cloak rooms
- 18 **"Musiksalen"**
Mødelokale med plads til 160
Meeting room, seating 160
- 19 **"Radiosalen"**
Mødelokale med plads til 240
Meeting room, seating 240
- 20 **"Det lille Teater"**
Teatersal med 224 lænestolspladser
("The Little Theatre")
Auditorium with 224 fixed seats
- 21 **Scenen i "Det lille Teater", 40 m²**
Stage of "The Little Theatre", 40 m²

- 22 **"Aalborghallen"**
Teater, koncert- og kongressal
med plads til 2.414
Auditorium and congress hall,
seating 2.414
- 23 **Skydevægge, til opdeling af "Aalborghallen"**
Sliding walls, dividing "Aalborghallen" into 2 separate halls
- 24 **Forscene/orkestergrav**
Forestage/orchestra pit
- 25 **Scene, 600 m² - med drejescene, 16,5 m i diameter**
Sceneåbning 13,8 x 8 m
Stage, 600 m² - with revolving stage,
16.5 m in diameter
Stage opening 13.8 x 8 m
- 26 **Scenetårn**
Stage gantry
- 27 **Skuespillergarderobe**
Dressing rooms

- 28 **Foyer med altanadgang til Kildeparken**
Foyer with balcony access to park
- 29 **Selskabslokaler og keglebaner**
Reception rooms and bowling alleys
- 30 **Restaurant "Papegøjehaven" med plads til 200 spisende gæster**
Restaurant "Papegøjehaven",
seating 200 diners
- 31 **"Europahallen"**
Teater-, koncert- og kongressal
med plads til 550
Auditorium and congress hall, seating 550

- 32 **Scene, 90 m², sceneåbning 9 x 5,5 m**
Stage, 90 m², stage opening 9 x 5.5 m
- 33 **"Harlekinsalen"**
Mødelokale med plads til 48
Meeting room, seating 48
- 34 **"Columbinesalen"**
Mødelokale med plads til 30
Meeting room, seating 30
- 35 **Foyer med pausebar og garderobe**
Foyer with bar and cloak room



- 36 **Glasoverdækket gangbro mellem "Europahallen" og "Aalborghallen"**
Glass covered corridor connecting "Europahallen" and "Aalborghallen"
- 37 **Quality Hotel Aalborg med 168 værelser**
Direkte adgang til Aalborg Kongres & Kultur Center
Quality Hotel Aalborg with 168 rooms
Direct access to Aalborg Congress & Culture Centre

Final programme

Time **9. Wednesday**

8.00	Registration		
9.00	Conference opening	Geoff Leventhall/Christian Sejer Pedersen	
9.20	P.1.1 Tetsuya Doi	Field research on window rattling caused by low frequency sound	LFN Measurements
9.40	P.1.2 Masayuki Shimura	Wind Effect on Low Frequency Sound Pressure Measurement Part 2: Results of Wind Tunnel Experiments	Chair: Christian Sejer Pedersen
10.00	P.1.3 Chi-Chwen Lin	The Study and experience of low frequency noise control of the Republic of China (Taiwan)	
10.20	Coffee break		
10.40	P.1.4 Finn Jakobsen	A note on measurement of low-frequency noise in rooms	LFN Measurements
11.00	P.1.5 David Oliva	New measurement method of low frequency noise in rooms	Chair: Geoff Leventhall
11.20	P.1.6 David Oliva	Model for predicting the annoyance risk from external low frequency noise inside a building	
11.40	P.1.7 Jørgen Jakobsen	Sound insulation of dwellings at low frequencies	
12.00	Lunch		
13.00	P.1.8 Geoff Leventhall	Determining the effects of low frequency noise on humans	Effects of noise
13.20	P.1.9 Toshiya KITAMURA	Psychological Influence from Fluctuant Low Frequency Bandwidth Sound	Chair: Dorte Hammershøi
13.40	P.1.10 Mariana Alves-Pereira	Family with wind turbines in close proximity to home: follow-up of the case presented in 2007	
14.00	P.1.11 Detlef Krahe	Low Frequency Noise – Strain on the Brain	
14.20	Coffee break		
14.40	P.1.12 Tulay Ibicek	Quantification of human comfort in a vehicle using a four-post rig excitation	Effects of noise
15.00	P.1.13 Masashi UCHIKUNE	Study on the evaluation of adequate the whole-body vibration through the backrest	Chair: Shinji Yamada
15.20	P.1.14 Hiroshi Matsuda	Influences of whole-body exposure to fluctuating low-frequency sound on psychological responses and task performance	
15.40	P.1.15 Igor M. Dudnyk	Evaluation of vibration and noise in coal mines and prophylaxis of vibroacoustic disease among miners	

Final programme

Time **10. Thursday**

8.00	Registration		
9.00	P.2.1 Yoshiyuki MARUTA	Controlling the Flow Induced Vibration of Fan Casing on the Large Cooling Tower	Control
9.20	P.2.2 Nasser Pooladian	A nonlinear differential equation for 1/f Noise	Chair: Federico Paoletti
9.40	P.2.3 Katsuhiko Kikuchi	Optimization of Train Nose Shape for Reducing Micro-pressure Wave Radiated from Tunnel Exit	
10.00	P.2.4 Federico Paoletti	The seismic Superattenuators of the Virgo gravitational waves interferometer	
10.20	Coffee Break		
10.40	P.2.7 Dong Ming-rong	A Prototype High-Intensity Infrasonic Acoustic Generator based on Modulated Air	Control
11.00	P.2.8 Sofus Birkedal Nielsen	Low Frequency Sound Field Control for Loudspeakers in Rectangular Rooms using CABS (Controlled Acoustical Bass System)	Chair: Torsten Marquardt
11.20	P.2.9 Torsten Marquardt	Cochlear anatomy shapes sensitivity to low-frequency sounds	LFN Hearing Mechanisms
11.40	P.2.10 Carlos A. Jurado	Frequency selectivity at very low centre frequencies: the influence of the helicotrema on individual differences in low frequency sound perception	Chair: Torsten Marquardt
12.00	Lunch		
13.00	Bus departure for technical/social tour		
13.40	Visit to Acoustics laboratory		
16.00	Visit to Viking museum - Lindholm Høje		
19.00	Conference dinner at Lindholm Høje		
21.20	Bus departure to conference place		

Final programme

Time 11. Friday

8.00	Registration		
9.00	P.3.1 Carel Ostendorf	A field comparison of five vibration analyzers	Vibration Chair: Carel Ostendorf
9.20	P.3.2 Mehdi Setareh	Building Vibration Serviceability Due to Human Activities	
9.40	P.3.3 Mehdi Setareh	Building Floor Vibration Assessment and Evaluation Due to Walking Excitations	
10.00	P.3.4 Sung Kwon Ahn	Field tests investigating the ground borne vibration induced by railway tunnel	
10.20	Coffee Break		
10.40	P.3.5 Toshio Watanabe	Temporal masking of low frequency sound	Perception of LFN Chair: Christian Sejer Pedersen
11.00	P.3.6 Yukio Takahashi	On the contribution of actual head vibrations to equal-sensation levels for “vibration perceived in the head” of subjects exposed to low-frequency noise	
11.20	P.3.7 Werner G. Richarz	Low Frequency Noise Monitoring of a Wind Turbine	Windturbine noise
11.40	P.3.8 Christian Sejer Pedersen	An analysis of low frequency noise from large wind turbines	Chair: Christian Sejer Pedersen
12.00	Lunch		
13.00	Closing discussion		
13.20			
13.40			
14.00			
14.20	Coffee break		
14.40	Closing ceremony		
15.00			

Possible presentations friday afternoon that might move the schedule for closing discussion and closing ceremony

P.3.9 Rajiv Kumar	Enhanced ACLD Treatment using Stand - off – Layer: - FEM based design and experimental vibration analysis	Vibration
P.3.10 Rajiv Kumar	Analytical and FEM based vibration analysis of PCLD treated beams with different boundary conditions: A Comparative study	
P.3.11 Alireza Shooshtari	A new approach to linear and nonlinear free vibrations of composite and fiber metal laminated rectangular plates	
P.3.12 Soheil Khani	Analyzing and Comparing the Free Vibration of Diaphragm of Pressure Control Valve in Injection Engine with Using EFG and ANSYS Methods	