Auditorium Acoustics:
Historical and contemporary design and performance

19 – 21 July 2002, Imperial College, London

In collaboration with ABTT & ASA
### Conference Programme

**THURSDAY 18th JULY**

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<th>MORNING</th>
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<td>Visit to Milton Keynes Theatre</td>
<td>The acoustic design of the Amsterdam Concertgebouw, and resolution of the hall’s early acoustical difficulties</td>
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<td>5pm–7pm Registration in reception area, Beit Quadrangle</td>
<td>P Clements, Kirkegaard Associates</td>
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**FRIDAY 19th JULY**

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<th>MORNING</th>
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<td>Registration</td>
<td>The mystery of the disappearing forestage in the 18th and 19th century opera house and its relevance to both modern staging and the audibility of the singer over the orchestra today</td>
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<td>Welcome</td>
<td>I Mackintosh, Theatre Projects Consultants</td>
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<td>Architecture, acoustics and design coordination for Sala São Paulo, Brazil</td>
<td>Acoustics in ancient performance spaces: a historical review and auralisation</td>
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<tr>
<td>J Nepomuceno, I Solé and N Dupré, Acustica &amp; Sônica, Acunha Solé Engenharia, Dupré Arquitetura</td>
<td>P Chourmouziadou and J Kang, University of Sheffield</td>
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<td>Variable-volume/coupled-volume response at Sala São Paulo</td>
<td>Concert hall evolution at the classical age: a personal view</td>
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<tr>
<td>J Nepomuceno, D Doria and C Blair, Acustica &amp; Sônica, Artec Consultants, Akustiks</td>
<td>J-D Polack, University Paris VI</td>
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<td>The perceptual relevance of extant techniques for the objective measurement of spatial impression</td>
<td>Tea/Coffee</td>
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<td>R Mason, T Brookes and F Rumsey, University of Surrey</td>
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<td>A study of acoustics of worship spaces</td>
<td>Royal Festival Hall: the history and influence of the acoustic design</td>
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<td>R Heng, Sheffield Hallam University</td>
<td>B Shield, South Bank University</td>
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<td>Tea/Coffee</td>
<td>Acoustical problems in large post–war auditoria</td>
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<td>Refurbishment of the Barbican Concert Hall</td>
<td>J O’Keefe, Aeracoustics Engineering Ltd.</td>
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<td>C Giegold and P Calamia, Kirkegaard Associates</td>
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<td>Subjective preference in relation to acoustical parameters at each seat in a concert hall</td>
<td>The place of acoustical design in the renovation of a chapel</td>
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<td>J Jeon and H J Lee, Hanyang University</td>
<td>E Merida and C Semidor, School of Architecture, Bordeaux</td>
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<tr>
<td>Acoustical intimacy in concert halls: does visual input affect the aural experience?</td>
<td>Severance Hall and the development of the sound of the Cleveland Orchestra</td>
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<td>J Hyde, Jerald Hyde Acoustics</td>
<td>P Scarbrough, Akustiks</td>
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<td>The electro–acoustic enhancement of the Adelaide Festival Theatre – A re-sounding success?</td>
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<td>P Swift, Bassett Acoustics</td>
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Lunch
## SATURDAY 20th JULY

### MORNING

**Acoustics versus architecture – two different approaches: the acoustic variability by CARMEN in the Grimaldi Forum Monaco and the National Grand Theatre of China opera house project**  
*T* P Vian, CSTB, France

**Barcelona Symphony Hall: L'Auditori**  
*H* Arau, Estudi Acustic H Arau

**Simulation and measurement of auditorium acoustics – The round robins on room acoustical computer simulation**  
*I* Bark, PTB, Germany

**The Serralves Auditorium in Porto with concealed alvaro acoustics**  
*J* Commins and *L* Santos, Commins Acoustics Workshop, Absoror, Portugal

**Tea/Coffee**

**Accuracy of acoustic scale modelling**  
*M* Barron, Fleming & Barron

**Architectural translation of the acoustical results**  
*S* Kouzeleas and *C* Semidor, School of Architecture, Bordeaux

**A comparison between some measurement techniques in the Foligno Auditorium**  

### AFTERNOON

**Absorption by surface diffusers**  
*T* Cox and *P* D'Antonio, University of Salford, RPG Diffusor Systems Inc

**Lunch**

**Variation of energy-based room acoustic parameters within a multipurpose hall**  
*T* Gulsrud, Kirkegaard Associates

**A recent survey of British auditoria**  
*R* Richardson and *B* Shield, South Bank University

**The acoustic design of the Concertgebouw Bruges**  
*H* Butcher, Arup Acoustics

**The acoustics of the auditorium of the Royal Albert hall before and after redevelopment**  
*R* Metkemeijer, Peutz & Associes

**Tea/Coffee**

**The redevelopment of the Royal Albert Hall, 1995 – 2003**  
*I* Blackburn and *M* Ward, Royal Albert Hall, BDP

**Visit to Royal Albert Hall**

**Dinner**

**Second night of the Proms at Royal Albert Hall**

## SUNDAY 21st JULY

### MORNING

**Acoustics of Teatro Arcimboldi in Milano. Part 1: Design, computer model studies, construction**  

**Acoustics of Teatro Arcimboldi in Milano. Part 2: Scale model studies, final results**  

**The "Le Muse" Theatre in Ancona: recent developments**  
*A* Cocchi and *Y* Ando, Universities of Bologna and Kobe

**Acoustic renovation of two Danish theatres**  
*A-C* Gade, Technical University of Denmark

**Tea/Coffee**

### AFTERNOON

**The influence of a large reflector over the orchestra pit in an opera house**  
*T* Halmrast, Statsbygg, Norway

**A health or a nuisance problem? A one year noise survey during rehearsals and performances in the Netherlands Ballet Orchestra, a full time professional pit orchestra.**  
*A* Boasson, Peutz & Associes

**Workshop on opera house objective measurements**  
*Chairman, R* Harris, Arup Acoustics

**Lunch**

**Visit to Royal Opera House, Covent Garden** (limited places available)
Registration Form

Auditorium Acoustics – 19 - 21 July, Imperial College, London

Name: ____________________________________________
Company: __________________________________________
Address: _____________________________________________
(for invoice)
Postcode: ____________________________________________
E-mail: ______________________________________________
Telephone: ____________________________________________
Facsimile: ____________________________________________

Registrations before 30 April 2002: Registrations after 30 April 2002:

- IOA, ABTT, ASA & RIBA Members & Authors: £ 314.90 + VAT = £ 370.00
- Other delegates: £ 364.26 + VAT = £ 428.00
- Students: £ 59.58 + VAT = £ 70.00

- IOA, ABTT, ASA & RIBA Members & Authors: £ 346.00 + VAT = £ 407.00
- Other delegates: £ 400.86 + VAT = £ 471.00
- Students: £ 65.54 + VAT = £ 77.00

(I enclose written confirmation of my student status from my Head of Department)

- I wish to visit the Milton Keynes Theatre on Thursday 18 July 2002
- I wish to visit the Royal Opera House, Covent Garden on Sunday 21 July 2002

No fee is charged for these tours but delegates should make their own travel arrangements, limited no. of places available to those who register first

- I will require vegetarian meals

Accommodation:
- I require bed & breakfast for three nights at Beit Quadrangle £148.09 + VAT = £174.00
  - Thursday 18th July, bed & breakfast £ 49.37 + VAT = £ 58.00
  - Friday 19th July, bed & breakfast £ 49.37 + VAT = £ 58.00
  - Saturday 20th July, bed & breakfast £ 49.37 + VAT = £ 58.00

Proceedings:
- I am unable to attend the conference. Please send me a copy of the Conference proceedings.
  - Members £ 30.00 + VAT £ 35.25
  - Non-Members £ 40.00 + VAT £ 47.00

Payment instruction:
- I enclose cheque/credit card details for the full amount. Please supply purchase order number for invoice.
  - VISA
  - MASTERCARD
  - DELTA
  - SWITCH

Card Number: ____________ ____________ ____________ ____________
Issue No: __________________
Expiry Date: ____________ Holders name: ____________________________________________

Venue:
The conference will be held in the Civil Engineering Building, Imperial College Road, Imperial College, London SW7 2AZ. The registration desk will be open from 5pm - 7pm in the reception area of Beit Quadrangle on Thursday 18 July for collection of delegate information and open throughout the conference at the Civil Engineering Building at Imperial College.

Registration Fee:
The Conference fee covers participation in all conference activities, conference CD, refreshments and lunch on Friday, Saturday and Sunday. The registration fee also includes a technical visit and concert ticket for the Royal Albert Hall (subject to availability) and dinner on Saturday 20 July.

Accommodation:
A number of en-suite rooms have been reserved for delegates at Beit Quadrangle which is situated adjacent to the Royal Albert Hall. This historical building has undergone extensive refurbishment and upgrade to 3* accommodation. Alternative accommodation list available.

Cancellations:
Cancellations are payable in full.

Please return this form by fax, post or email as soon as possible to:
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