

Olivier DELAS

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QUALIFICATIONS

- 2004 - Master of Mechanical Engineering (Acoustics & Vibration), Sherbrooke University Canada
- 2002 - Professional Studies in Acoustics & Vibration Engineering (Hons), Le Mans University, France
- 2001 - DEUST VAS, Studies in Acoustics, Vibration and Signal Processing (Hons), Le Mans Uni, France
- Corporate Member of the Hong Kong Institute of Acoustics

SUMMARY OF EXPERIENCE

- 2004 Branson Ultrasonics, Shanghai, China, FEM Engineer for design of Ultrasound Welding Horns
- 2005 Cedrat, Grenoble, France, R&D Laboratory Engineer
- 2006 Vipac Engineers & Scientists, Melbourne, Acoustics & Vibration Consultant
- 2007-2012 - Vipac Engineers & Scientists, HK, Acoustics & Vibration Consultant
- 2012-2013 - Vipac Engineers & Scientists, HK Team leader, Senior Acoustics & Vibration Consultant
- 2013- 2014 Vipac Engineers & Scientists, HK, Manager and Senior Acoustics and Vibration Consultant
- Current **mksA** Owner, Acoustics & Vibration Consultant

EXPERIENCE

Olivier is a senior building acoustic consultant who has been based in Hong Kong for 7 years. He has been involved as a project manager in several high-profile building acoustics projects delivered in Hong Kong, Macau, Taiwan and China. Olivier has a deep knowledge of local products, construction methods and way of working is a great asset in proposing a design that is locally feasible. For Building acoustic projects he is responsible for:

- Determining Acoustics Criteria (background noise, sound insulation, room reverberation time)
- Conducting Site Acoustics/Vibration preliminary assessment and environmental impact
- Full acoustic Design in accordance with project requirements
- Handle day to day issues during the different project stages of the multidisciplinary team members
- Attend acoustics/vibration related technical/coordination meetings and design workshops
- Conduct site visits during construction and test and commissioning

In addition to his expertise in building acoustics, his strong knowledge of acoustics and vibration metrology in particular has allowed him to deliver high level consultancy projects such as acoustics/vibration test and commissioning of trains / ships, vibration investigations of MVAC equipment in high-end buildings, energy efficiency test of appliances.

As the owner of **mksA**, Olivier is also responsible to manage all current projects, equipment and successfully deliver budget targets. Olivier also provides technical and commercial support to the business development team during tender or new client prospects so as to ensure new projects are continuously brought in.

AREAS OF EXPERTISE

- Building Acoustics:
 - interior / exterior horizontal/vertical noise/vibration isolation
 - noise/vibration control of building services, lift, escalators, pumps, chillers, cooling towers etc.
 - room acoustics: room geometry, interior finishes wall/ceiling/floor
- Industrial noise and vibration control
- Environmental noise control
- Design and in Lab Testing of Elements: Silencers / Partition
- Advanced Acoustics & Vibration measurements:
 - Acoustic power measurements, intensimetry, acoustic holography,
 - Train interior/exterior noise/vibration measurements
 - Multichannel acoustics / vibration measurements (>24 Channels)
 - Advanced data processing of audio and video signals
- Finite Element Analysis of mechanical structures
- Modal analysis, structure dynamic response

RECENT PROJECTS

- Building Acoustics Consultancy
 - HK - New Media Room for UBS (Cheung Kong Centre, Hong Kong)
 - HK - HP Halo Room for RBS (Cheung Kong Centre, Hong Kong)
 - HK - Philips Listening Room & Showroom at HK Science & Technology Park
 - HK The Sun Yat Sen Swimming Pool
 - HK The Tung Chung Indoor Recreation Centre
 - HK The Canadian International School
 - HK Renovation of Nathan Road Novotel
 - HK The Carmel and Kellett School Shau Kei Wan
 - HK The Kellett School New Campus in Kowloon Bay
 - HK The Open University New Campus at Chung Chau Street
 - HK - Campus Expansion of Wanchai Campus of the Hong Kong Academy for Performing Arts
 - HK The Hong Kong Maritime Museum
 - HK The Diocesan Boy School Auditorium
 - HK Relocation of the Hong Kong Court of Final Appeal
 - HK New Studio Complex for the RTHK (ArchSD tender preparation & review)
 - Macau 1,300 seat auditorium for a large casino
 - Taipei Luxury Residence in Xin Yi by Win Sing
 - Taipei Luxury Residence in Ren Ai Road
 - Taipei Luxury House in Shih Lain District
 - Taipei Agora Garden Luxury Condominium
 - P.R. China Large News TV Studio in Shenzhen
 - P.R. China TV Studio project in Shanghai Huang Pu Qu
 - P.R. China TV Studio project in Shanghai Pu Dong
 - P.R. China Qingdao Car Show, 2,000-seat Theatre
- Others (Acoustics & Vibration Measurements)
 - HK Noise Reduction of a new fleet of Light rail vehicles in TuenMun
 - China Acoustics & Vibration Test and Commissioning of Shanghai Line 7/9 subway
 - China Acoustics & Vibration Test and Commissioning of Shanghai Line 12 subway
 - Singapore Acoustics & Vibration Test and Commissioning of Singapore Downtown line subway
 - HK Water Efficiency survey and study of all HK government building in the New Territories
 - HK Technical Support for Acoustics Laboratory test of Air Conditioning Components
 - Macau Vibration Investigation in the server room of a casino
 - HK 26-month noise monitoring during HK Jockey Club Stable renovation in Shatin
 - HK Construction noise monitoring studies at several construction sites
 - Design and test of temporary noise barriers at several construction sites
 - HK Vibration Investigation in luxury yachts and police patrol ships
 - HK MVAC Vibration Condition Monitoring of several building in HK & Macau:
 - HK Jockey Club (Happy valley and Shatin racecourses),
 - Swire Properties (City Plaza, Taikoo Place, Festival Walk). Olympian City,
 - Starworld Galaxy (Macau), Galaxy Macau, Kowloon Commercial Centre, Hopewell Centre, Pacific Place, Nanfung Centre

PUBLICATIONS

- Influence of the porosity on the sound transmission loss of light weight concrete materials, *Internoise 2009*, Olivier DELAS (Vipac), LUC Jaouen (Matelys), Francois Xavier Becot (Matelys)
- Influence of the porosity on the sound transmission loss of light weight concrete materials, *Internoise 2012*
- Optimizing the Thickness of Piezoceramic Actuators for Bending Vibration of Planar Structures, *Journal of Intelligent Material Systems and Structures* November 2007 vol. 18 no. 11 1191-1201, Olivier DELAS, Alain Berry, Patrice Masson, Yann Pasco