

# construction in challenging environments



**Pacific Association of Quantity Surveyors (PAQS)**  
**12<sup>th</sup> Congress: Construction in Challenging Environments**

**Session 19 – Wednesday, June 18, 2008**  
**1:30 – 3 p.m.**

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**Bob Henry, R.P.T. (Eng.)**  
**Senior Mechanical Consultant**  
**Stantec**

**Wilfred Lach, MAIBC, LEED® AP**  
**Principal**  
**Stantec**

***Presentation: Containing the Cost of Containment***

**Bob Henry** is a senior HVAC designer with more than 42 years' experience in building mechanical systems design and project administration as an engineering consultant for multi-unit residential, commercial, recreational, institutional and industrial facilities.

He is responsible for establishing the definition of project scope, providing the experience base and guidance for detailed design, drafting and preparation of contract documents by engineering and technical personnel.

Bob's approach to projects is to define the project requirements in cooperation with the users, develop the solutions for approval by the client and work with the engineering team to ensure that the contract documents reflect the direction and cost constraints required for the facility construction.

Since joining Stantec, Bob has taken a lead role in laboratory design and business development, attending and presenting at bio containment focused lab conferences. He participated in development of the Stantec laboratory market sector business plan and establishment of the Stantec laboratory experience library.

**Conference Presentations:**

- TRADELINE INC. The 2007 International Conference on Bio Containment Facilities, San Diego, California;
- LABORATORIES FOR THE 21<sup>ST</sup> CENTURY. 2006 Annual Conference, San Antonio, Texas;
- TRADELINE INC. Science Buildings Canada 2006, Vancouver, British Columbia.

**Education:**

- Diploma, Air Conditioning and Refrigeration, Northern Alberta Institute of Technology, Edmonton, Alberta, 1965
- Mathematics of Finance, Statistics (Continuing Ed), Southern Alberta Institute of Technology, Calgary, Alberta, 1977
- AutoCAD Operators Training Series (Continuing Ed), CAD System Management I, AutoCAD I, II & III Release 12), ), Southern Alberta Institute of Technology, Calgary, Alberta, 1994
- Containment Level 3: Design and Operation Certificate of Training, Health Canada/Canadian Food Inspection Agency, Ottawa, Ontario, 2003
- Operational and Design Considerations for Working with Large Animals in Containment Level 3 Facilities, Canadian Food Inspection Agency, Ottawa, Ontario, 2003

**Professional Associations:**

- Member, Association of Professional Engineers, Geologists and Geophysicists of Alberta

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- Member, Association of Science and Engineering Technology Professionals of Alberta

**Wilf Lach** is a Principal at Stantec and has been actively involved in the design, contract documentation and contract administration of research, healthcare, education, civic and commercial projects for the past 20 years. In recent years his interest and work have been focused on research facilities for public and private organizations. He is a regular attendee and speaker at conferences on laboratory design including the 2003 CALAS Symposium, 2002 PITTCON Conference and the 2002 Cahner's Lab Design Conference, and Tradeline 2006 Science Buildings Canada. He is also active in Construction Specifications Canada.

#### Education:

- Bachelor of Environmental Studies, University of Manitoba, Winnipeg, Manitoba, 1978
- Master of Architecture, University of Manitoba, Winnipeg, Manitoba, 1983

#### Registrations:

- Registered Architect #1927, Architectural Institute of British Columbia

#### Professional Associations:

- Associate Member, American Institute of Architects
- Member, BC Biotech
- Member, Canada Green Building Council
- Member, Canadian Association for Laboratory Animal Science
- Member, Construction Specifications Canada

**Prof. Chitra Weddikkara**  
**Dean, Faculty of Architecture and**  
**Professor, Department of Building Economics**  
**University of Moratuwa**  
**Sri Lanka**

#### ***Presentation: Leading Sri Lankan Clients Toward Green Construction Options***

**Prof. (Mrs.) Chitra Weddikkara**, BSc (QS) Aust, MSc (bld) Aust, BSc (BE) Colombo, Arch (Aust), ARIBA, AAIQS, FIQSSL, FIA (SL)

Prof. Weddikkara is Dean, Faculty of Architecture, and the Professor of the Department of Building Economics, University of Moratuwa, Sri Lanka. Her principal area of expertise is in decision making for sustainable construction and arbitration. She has obtained her PhD on alternative dispute resolution processes used in the construction industry from Murdoch University of Western Australia. She teaches Project and Value management methods for the BSc (Hons) in Quantity Surveying and MSc in Project Management degree programmes, which were approved by the senate of the University of Moratuwa. She has published a number of papers from her postgraduate studies. Chitra has been involved in industry collaborative research work and facilitation for the past twenty years. She is the president of the Institute of Quantity Surveyors Sri Lanka.

Chitra is formally qualified as a Chartered Architect (SL), Chartered Quantity Surveyor (Australia), Fellow member of the Institute of Quantity Surveyors and the Institute of Arbitrators, Sri Lanka. She is also an Associate of the Australian Institute of Quantity Surveyors, and the Royal Institute of British Architects (UK).

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**Mark Ward**  
**Department of Property Science**  
**University of the Free State**  
**South Africa**

***Presentation: Sustainable Urban Development: Lessons for Emerging Markets***

Mark Ward enjoyed an 11-year career as an Executive Search Consultant, ultimately fulfilling the role of Managing Director: MCW Executive Search (Pty) Ltd. He was educated in Communication Science at the University of South Africa, and affected a career transformation into the property industry after several successful, part-time, redevelopment ventures in the luxury residential sector. He is currently a Masters student in Property Science at the University of the Free State, Bloemfontein, South Africa.