Institution of Civil Engineers

2010 Americas Convention

Engineers @ the Heart of Society:

Collaborating + Innovating for Our Common Future

Vancouver, BC, Canada Westin Wall Centre

3099 Corvette Way, Richmond, British Columbia V6X 4K3 Tel: 604.303.6565

Thursday 3rd June (18:00-20:30) - Welcome Reception Friday 4th June (07:00-21:30) - Conference & Gala Dinner Saturday 5th June (09:00-16:30) - Tours

To Register: fill out pages 9 & 10 of this convention program

This convention program can be downloaded at http://ICE-AmericasConvention2010.weebly.com

Enquiries: 1.604.833.2315 (Vancouver, Canada) / +44(0)20.7665.2005 (London, UK)



Organized in co-operation with:

CSCE: Canadian Society for Civil Engineering the Society of Choice for Civil Engineering in Canada



The Institution of Civil Engineers (ICE), with a worldwide membership of over 80,000, is bringing its Biannual Americas Convention to Vancouver, BC, Canada, on June 3~5, 2010. This year, our theme is:

Engineers @ the Heart of Society: Collaborating + Innovating for Our Common Future

Thursday 3rd June (18:00-20:30) - Welcome Reception Friday 4th June (07:00-21:30) - Conference & Gala Dinner Saturday 5th June (09:00-16:30) - Tours

Venue: Westin Wall Centre (Tel. 604.303.6565) 3099 Corvette Way, Richmond British Columbia V6X 4K3 Canada

Prominent Speakers

of any description is and its this solid aspiring provocative less than the solid aspiring provocative less We think you'll agree with us that there are many influential people amongst the list of speakers. Solving today's pressing problems requires engineers to work in partnership crossing disciplines, collaborating and innovating regionally and globally. These important people recognize the importance of this convention and are contributing their time and efforts to speak at this convention. It will be a mixture of solid information, serious discussions, inspiring examples, leading edge tools and provocative inquiry, and we believe people will leave the convention inspired and en.lighten.ed (as in both turning-on-the-bulb and lessening-theweight) to go out to innovate, connect and collaborate, and thence liberating the deep potential of engineering to better the world in our rapidly changing climate and realities.

Protocol for Engineering a Sustainable Future for the Planet

This is undoubtedly a convention designed to provoke discussions on the larger response.abilities of the profession. We would also like to think that this convention further the discussions of the 2006 Triennial Conference of the Institution of Civil Engineers (ICE), the Canadian Society of Civil Engineering (CSCE), and the American Society of Civil Engineers (ASCE) on "Safety, Security and Sustainability: Can engineers rise to **the global challenge?**". It was at that conference that the three institutions signed the "Protocol for Engineering" a Sustainable Future for the Planet".

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Climate, Ecological & Low Carbon Challenges

We'll open the ICE 2010 Americas Convention by acknowledging the Challenges of Addressing the Imperatives of Low Carbon Design, which if you do not know already is also highly topical politically, delivered by none other than the very vocal Chairman of the UK Construction Industry Council. We will then be "(Meeting) Our Destiny" with

Understanding Climate Change and Attribution presented by Canada's (and IPCC's) leading expert in climate statistics, and face Our 21st Century Challenges as presented by the originator (and method developer) of the concept of **Ecological Footprint**.

Plans, Designs & Execution

Our next session looks at how we are already "Charting Our Course" to win and successfully adapt to climate change. Green Capital, **Vulnerability** Assessment, Water Sustainability, and **Active Transportation** --- will all be presented by the person very responsible for the success.

on the paners the one of the control Stelly, to Waske We will then have a successful pioneer in sustainable development (in both Canada and US), who has been trained as an engineer by the way, unveil to us his Framework

for An Understandable Sustainability.

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After lunch, we'll showcase some beautifully engineered and executed examples of "Innovating + Delivering Sustainable Elegance", some of them winning prestigious engineering awards regionally as well as internationally. These speakers will share with us the secrets of success in designing/delivering the Richmond Olympic Oval Roof, the Metro Vancouver Clean Energy from Bio-Solids Project, and the Canada Line Rapid Transit Project.

Engineering for Our Common Future

Mid-afternoon, we'll provoke a discussion on "Responding to Our (Common) Future", together with a leading trailblazer in bio-engineering, poking the question "How Will Engineers Respond?", and expanding our own humble horizon to learn from young engineers' experience from working without borders.

Later in the afternoon, we'll have prominent resource, governance, valuation and financial leaders take us through "Making It Count", using as an example the major sustainability business case of Integrated Resource Management for British Columbia.

Before we close the afternoon, we will be "Measuring Up" together with the very person at the very helm of overseeing the **professionalism and accountability** of our profession here in British Columbia.

Gala Dinner

Our **ICE President,** who has long been a leader **beyond all frontiers** in engineer's contribution to meeting the *UN Millennium Development Goals,* will speak to us at the Gala Dinner, and so will a very influential **Guest Speaker** whose identity we have decided to *unveil only on that evening*.

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http://ICE-AmericasConvention2010.weebly.com



Register early to save. **Early Bird Rates** end May 7th, 2010.



Poster Submissions

Posters contributing to the discussion on any of the themes of this convention are invited from **students and young professionals** (of any professional discipline) **under the age of 33**. Authors of selected posters will be admitted to all parts of the convention at **half price** (or less, subject to accepted special justifications). They must also make themselves available to answer questions during breaks. Posters are to be submitted by email in **PDF** format, in a single sheet of **60cm** wide x **90cm** high. (Expression of interest by **May 10th, 2010**, and poster submission latest by May 15th, 2010)

Convention Contacts

Wilma Leung CEng, MICE, MHKIE, LEED-AP ICE Western Canada Representative t: 1-604-833-2315 f: 1-604-738-6673 e: ICE-Rep@wcgce.org

Neil Bailey

ICE Area Manager; Middle East, Africa & the Americas t: +44 (0)20 7665 2005 f: +44 (0)20 7233 1806 e: neil.bailey@ice.org.uk

Organizing Committee Members & Volunteers

From London UK:

Haro Bedelian (Chair of ICE Americas) Neil Bailey (ICE Area Manager)

From Vancouver BC:

Wilma Leung (Western Canada Representative of ICE), David Harvey, Alan Kay, Andrzej Nawrocki (Hon. Treasurer), Ian McKeachie, Mark Porter, Aria Ganesan, George DeRidder, Christian Amponsah, Erwinder Sanghera, Montgomery Wood, Jennifer Watt, and many others ...



2010 Americas Convention

Vancouver BC Canada 3 ~ 5 June 2010

The Westin Wall Centre, Vancouver Airport 3099 Corvette Way, Richmond, British Columbia V6X 4K3 Canada Convention Enquiry: (604) 833-2315 | The Westin: (604) 303-6565

Program **Schedule**:

Eligible for Continuing Professional Development Hours/Credits.

Certificates will be available.

Thursday June 3, 2010

Welcome Reception

Poster & Exhibit Displays

18:00 - 20:30

Meet ICE President Professor Paul Jowitt

BSc(Eng) PhD DIC CEng CEnv FICE FIPENZ FRSA FCGI FRSE

Friday June 4, 2010

CONFERENCE

7:30am-5:30pm

Poster & Exhibit Displays

ENGINEERS @ HEART OF SOCIETY: COLLABORATING + INNOVATING FOR OUR COMMON FUTURE

| 7:00 - 8:00 | Breakfast | Poster & Exhibit Displays |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 8:10 - 8:25 | Welcome + Conference Opening | |
| | Professor Paul Jowitt , BSc(Eng), PhD, DIC, CEng, CEnv, FICE President, Institution of Civil Engine | |
| 8:25 - 9:00 | Session 1 : The 8 th ICE Brunel International Lecture | e Series |
| | Keith Clarke , FICE, RIBA, MSc, Dip Arch, FRSA, Chief Executive C Construction Industry Council (CIC, | |
| | The Challenges of Addressing the Impera | tives of Low Carbon Design |
| Session Moderator: | Haro Bedelian , OBE, MA, HonDEng, FREng, FICE, Chair of ICE Ar | mericas |
| 9:05 - 10:15 | Session 2 : (Meeting) Our Destiny | |
| | Francis Zwiers , FRSC, Director, Climate Research Division, Envir | ronment Canada |
| | Understanding and A | Attributing Climate Change |
| | Professor William Rees , FRSC, PhD Population Ecology (Univ School of Community & Regional Planning. Origin concept & co-developer of the method. | |
| | The Role of Engineering and Eco-footprint Ch | Technology in Meeting the nallenge of the 21 st Century |
| Session Moderator: | Peter Holt , CEng, MIET, Director, Buckley Blair & Associates | |

ICE: global headquarters

Refreshment

10:15 - 10:40

One Great George Street
Westminster, London
United Kingdom SW1P 3AA
e: international@ice.org.uk
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10:45 - 12:15

Session 3: Charting Our Course

Ted van der Gulik, PEng, Assistant Director / Senior Engineer, BC Ministry of Agriculture & Lands

Improving Water Management for BC Agriculture

Sean Pander, PEng, Climate Change Program Manager, City Of Vancouver

Green Capital: Engineering a Low Carbon Future for Vancouver

Brent Burton , PEng, Chair of Stormwater and Wastewater Expert Working Group for Engineers Canada's Public Infrastructure Engineering Vulnerability Committee; Senior Engineer, Metro Vancouver, Policy & Planning Department, Utility Analysis and Environmental Management Division

Assessing the Engineering Vulnerability of Climate Change

Lawrence D. Frank, PhD, AICP, ASLA, Associate Professor and Bombardier Chair in Sustainable Transportation, UBC

> Preliminary Title: Neighborhood Design and Active Transportation: Evidence, Policy, Practice, and a Changing Demography

Session Moderator: Peter Holt, CEng, MIET, Director, Buckley Blair & Associates

12:15 - 13:15

Plated Luncheon

13:20 - 13:40

Luncheon Keynote

Harold Kalke , PEng, BSc (Civil Engineering), MBA, Honorary Doctor of Laws from UBC; Founder of Kalico Developments, Salt Lick Properties, East Gate Properties and several other businesses in Canada & US. Harold's real estate development projects are widely acclaimed as being critical to the re-establishment of "neighbourhoods". Many citizens' groups in Canada & US seek his counsel and leadership on development and planning issues. Harold has formerly been Chair of Dockside Green Ltd, Director of Smart Growth BC, and Chair of the UBC Board of Governors.

A Framework for an Understandable Sustainability

Session Moderator: Haro Bedelian , OBE, MA, HonDEng, FREng, FICE, Chair of ICE Americas

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13:45 – 14:55 Session 4 : Innovating + Delivering Sustainable Elegance

Julien Fagnan, PhD, PEng, Associate, Fast+Epp, Project Manager, Richmond Olympic Oval

Preliminary Title: Richmond Olympic Oval Roof – Teamwork and the Process of Conceiving Sustainability and Innovation

David Forgie, PhD, PEng, Associated Engineering BC Ltd, APEGBC 2009 Sustainability Award

Metro Vancouver Clean Energy from Bio-Solids Project

Roger Woodhead, PhD, PEng, Technical Director of the Canada Line Project Office

Delivering the Canada Line Rapid Transit Project

Preliminary Title: How Will Engineers Respond?

Session Moderator: **David Harvey**, PEng StructEng, CEng, FICE, FIStructE, Associated Engineering BC Ltd. David is a Past President of IStructE (2006-2007) and is also recipient of APEGBC's highest honour for a professional

engineer, the R.A. McLachlan Memorial Award in 2009.

14:55 – 15:20 Refreshment Poster & Exhibit Displays

15:25 – 16:15 **Session 5 : Responding to Our (Common) Future**

Session Leader: **Nigel Shrive**, D.Phil., PEng, CEng, FICE, FCAE, Professor and Killam Research Chair, Department of Civil Engineering, Schulich School of Engineering, and Director of the McCaig Institute for Bone and

Joint Health, University of Calgary. Pioneer in bio-engineering.

Tyler Algeo, Student, Civil & Environmental Engineering, UBC; President of the UBC Chapter of

Engineers Without Borders

Ten Years On: What Engineers Without Border Canada has learned to be the critical contribution awaiting from engineers?

16:20 – 17:00 **Session 6 : Making It Count**

Co-Presenters: **Jon O'Riordan**, MA, PhD, President, Fidelis Resource Group; formerly BC Minister of Sustainable Resource Management (on governance & regulations)

Chris Corps , BSc MRICS, Asset Strategics Ltd. (on valuation & financials, and the Vancouver Valuation Accord)

Stephen Salter, PEng, co-founder of Fidelis Resource Group; President of Farallon

Consultants (on resource recovery & greenhouse gases)

The Business Case for Integrated Resource Management, and the Growing Legal and Financial Implications of Sustainability

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17:05 – 17:30 Closing Address : Measuring Up

Derek Doyle , PEng, BEng(Mech), MBA, CBM, Executive Director & Registrar of APEGBC

Accountability: The Hallmark of Professionalism

Session Moderator: Haro Bedelian , OBE, MA, HonDeng, FREng, FICE, Chair of ICE Americas

17:30 – 19:00 Closing Reception

Poster & Exhibit Displays

Friday June 4, 2010

Evening

19:00 - 21:30

Gala Dinner

President's Dinner Speech



Professor Paul Jowitt , BSc(Eng), PhD, DIC, CEng, CEnv, FICE, FIPENZ, FRSA, FCGI, FRSE, President, Institution of Civil Engineers (ICE); Professor of Civil Engineering Systems and Executive Director of the Scottish Institute of Sustainable Technology at Heriot Watt University. Previously Chair of the ICE Presidential Commission - "Engineering without Frontiers" - examining the engineer's contribution to meeting the UN Millennium Development Goals, and now Chair of the ICE's International Development Policy Group.

Special Guest Dinner Speech

* Speaker identity will only be unveiled on this evening.

Come to find out who this very influential special guest speaker is.

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Saturday June 5, 2010 Morning Granville Island Tour

09:00 – 10:30 Visit Showcase Displays at the

Lighthouse Sustainable Building Centre, Vancouver

10:30 – 12:20 Visit galleries, stores & public market on **Granville Island**, and lunch in small groups

Concurrently 8:15 – 12:30 ICE Country Representatives to attend a ICE-CR Business Meeting.

Saturday June 5, 2010 Afternoon Site Visits

13:00 - 16:30

Canada Line Rapid Transit Depot

Registered delegates to meet in front of The Westin Wall Centre at 12:55pm. Canada Line was built by SNC-Lavalin, which will also operate it for 35 years. Canada Line uses a dedicated fleet of trains built by Rotem, a division of Hyundai Motor Group. Although powered and sized differently from the original SkyTrain cars, they are driven by similar automated third-rail technology.

Richmond Olympic Oval Roof

Fast + Epp Structural Engineers of Vancouver received from the Institution of Structural Engineers the Award for Sports or Leisure Structures for the firm's work on the Richmond Olympic Oval Roof. The Oval roof took top honours in the field ahead of other international nominees including the 2008 Olympic Games' Beijing National Stadium (a.k.a. Bird's Nest), Beijing, China; the Wimbledon Centre Court roof, London, England; and, the New Elephant House, Copenhagen, Denmark.

Other June 2010 events in Vancouver that may also be of interest to you:

(Not Related To The Institution of Civil Engineers)

Vancouver Convention Centre, Vancouver, BC

June 8-10, 2010 (Tue-Thu)

The Canada Green Building Council (CaGBC)'s 3rd Annual National Conference www.cagbc.org/cagbc/conference

Conference & Events Coordinator: Jane Eaton Tel: 613.288.8072 (toll free: 1.866.941.1184), E-mail: jeaton@cagbc.org

The Westin Bayshore, Vancouver, BC

June 27-30, 2010 (Sun-Wed)

International Conference on Building Envelope Systems and Technologies: ICBEST 2010 www.icbest.ca

Conference Co-Chairs: Bas. A. Baskaran and Ralph M. Paroli Institute for Research in Construction, National Research Council Canada, Tel: 613.993.9673, Fax: 613.952.7673, E-mail: icbest@nrc-cnrc.gc.ca

Also visit Events Page at www.apeg.bc.ca for information on many other engineering events

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| | | | | | | | Page 9 |
|---------------------------------|---------------------------|----------------------------------|-----------------------------------------------------|----------------------|-----------------------|-------------|-----------------|
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| Early Bird Rate ** | on or before Fri, May | y 7 , 2010 \$275 C | DN \$265 CDN | \$255 CDN | X () = | \$ | <u>00</u> CDN |
| Regular Rate ** | after Fri, May | 7 , 2010 \$295 C | DN \$285 CDN | \$275 CDN | X () = | \$ | <u>00</u> CDN |
| B. June 4 GALA DI | NNER REGISTRATIO | N (each registra | tion includes 2 admission | ons to Welcom | | | |
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| Regular Rate ** | | \$85 CI | | \$75 CDN | X () = | | <u>00</u> CDN |
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| 2. Fill out I | CE 3180 Credit | Card Paym | ent Form on nex | kt page (| o. 10) . | | |
| 3. Email or | Fax both page | es to : Ir | stitution Of Civ | il Engine | eers (Attenti | on: Neil Ba | ailev) |
| | , , | | neil.bailey@ice. | _ | • | | |
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Payment Form ICE 3180



Payment By CREDIT or DEBIT Card

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Please return to: neil.bailey@ice.org.uk or fax. +44(0)20 7233 1806

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GENERAL CONDITIONS OF PARTICIPATION

It is agreed that the Institution of Civil Engineers, the Western Canada Group of Chartered Engineers, their employees, officers, volunteers, contracted staff, contracted companies and agents shall not be held liable or responsible for any loss, injury, or damages, however caused, to any person or the property of any person engaged by, participating in or attending the ICE Americas Convention, unless due solely to the gross negligence or willful misconduct of the Institution of Civil Engineers, the Western Canada Group of Chartered Engineers, their employees, volunteers, contracted staff, in program dates, content, speakers, or location or cancellation of any programs or functions. It is agreed that the Institution of Civil Engineers, the Western Canada Group of Chartered Engineers, their employees, agents and officers, reserve the right to refuse admission, cancel or reschedule programs, change speakers, locations or revise content. The ICE Americas Convention is a conference for accredited business professionals. Children under the age of 12 are not permitted to attend the convention.

SUBSTITUTION / CANCELLATION POLICY

Substitutions are accepted at any time. Registration fees will be refunded, less a \$95.00 administration charge, if a refund request is received in writing at the email addresses given below before May 8th 2010. No refunds for registration fees will be issued for requests received after May 8th 2010.

BAGS & BADGES: The Institution of Civil Engineers and the Western Canada Group of Chartered Engineers are committed to minimizing the environmental impact of our conferences and events. To this end, conference delegates will not be provided delegate bags. Delegates will receive a conference badge and program upon arrival at registration.

Sponsorship & Exhibit Display Packages:

http://ICE-A mericas C on vention 2010. weebly. com/s ponsorship. html

Convention Contacts:

ICE Western Canada Representative

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ICE London UK HQ Contact:

Neil Bailey, Area Manager

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Authors of Selected Posters will receive 50% off ticket prices.

Additional Information for visitors to Vancouver:

Weather:

Weather Office What to Wear

Getting Around & Maps:

Vancouver Transit System Vancouver Maps Vancouver Trolley

General Information:

Vancouver Tourism

Parks, Gardens and Outdoors:

Parks Grouse Mountain, The Peak of Vancouver Beaches

Walking tours

Capilano Suspension Bridge

Boat Cruises:

Boat Trips Harbors Cruises

Visitors Information:

Other Activities:

Shopping

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Getting Here:





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WALL CENTRE
VANCOUVER AIRPORT
Phone: 1 (604) 303-6565
3099 Corvette Way, Richmond
www.westinwallcentre.com

Location

The Westin Wall Centre, Vancouver Airport Hotel is located just **South of Sea Island Way and West of No.3 Road**, less than 4km from Vancouver International Airport, within a 5 minute walk of the Yaohan Centre and a 20 minute Skytrain ride to the heart of downtown Vancouver.

100% valet parking : CDN\$22 per day or CDN\$7 per hour, plus taxes.

Public Transit: Trip Planner www.translink.ca

- · Find Routes Going To:
- CORVETTE WAY @ CAPSTAN WAY, RICHMOND
- 7 minutes walking distance from Canada Line Skytrain Bridgeport or Aberdeen Stations
- \$10 taxi ride from Vancouver International Airport (YVR)



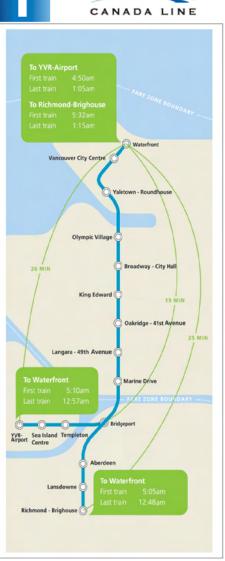
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Staying **Here**:

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Phone: 1 (604) 303-6565 www.westinwallcentre.com

A number of **Guestrooms** has been reserved at the following **Group Rates**. Please **register early and make reservations directly with The Westin Wall Centre** to secure your guestroom. Please mention **"ICE Americas Convention"**.

| Dates | June 3 - 5, 2010 |
|-------------|---------------------|
| Singles: | \$169.00 CDN |
| Doubles: | \$169.00 CDN |
| Triples: | \$199.00 CDN |
| Quads: | \$229.00 CDN |
| Club Floor: | \$244.00 CDN and up |

- Rates are confirmed for this event; and are net, non-commissionable
- All room rates are quoted exclusive of applicable taxes, currently 10% Provincial Sales Tax and 5% Federal Goods and Services Tax and a 1.5% DMF (Destination Management Fee). Taxes and Fees subject to change without notice. No automatic or mandatory charges are tips, gratuities, or services charges for employees, unless otherwise expressly stated. Rates will be available 3 days prior and 3 days after each of the Event Dates indicated in the Room Block, subject to availability of guest rooms at the time of reservation.

100% valet parking: CDN\$22 per day or CDN\$7 per hour, plus taxes.



Located less than 4 km from Vancouver International Airport, within a 5 minute walk to Yaohan Centre and a 20 minute Skytrain ride to downtown Vancouver, The Westin Wall Centre, Vancouver Airport has the ideal Richmond setting.

Our newly constructed hotel boasts 176 e egant guestrooms and 8 unique suites. Each guestroom features Westin's signature I leavenly Bec®, High Speed Internet Access and a 32 inch High Definition Flatscreen TV. Located on the 15th F oor our Presicentia Suite and 12 West'n Club Rooms have exceptional views of the Fraser River and Vancouver Airport, access to the Club Lounge and special guestroom amenities.

Surrounced by floor to ceiling windows our 8,500 square feet of versatile meeting space makes The Westin Wai Centre the dea venue for any event or meeting. At 4,700 sq ft our ballroom is hard-wired with the latest technology, contains pre-set AV rigging points and a flexible airwai system which allows the ballroom to be split to maximize functionality. The Ballroom Foyer features a two story glass wall with access to our outdoor terrace and garden.

Acjacent to the Bal'room are our three breakout rooms ranging from 775 to 1.000 sq ft; as we as our 1.300 sq ft Conference Room which splits into edual halves. Guests will stay energized throughout your event as each room is bathed in natural light with wincows which open to let in fresh air.

Join us at The West'n Wall Centre, Vancouver Airport for an experience in service and style.



| | Area (So) | BANQUET | THEATRE | CONFERENCE | REC. | CLASSROOM | L-SHP | F.50. | DINNER DANCE |
|--------------------------------------|-----------|---------|---------|------------|------|-----------|-------|-------|--------------|
| to t | | | | | | | | | |
| Ba Irporr | 4688 | 320 | 450 | 115 | 500 | 270 | 90 | 108 | 280 |
| ~Baliroom A, BC or D | 1562 | 100 | 144 | 44 | 170 | 96 | 42 | 4B | 80 |
| ~Baliroom Bloc C | 781 | n/a | r/a | n/s | n/a | n/s | n/s | ~/a | n/a |
| -Bailroom A & B or Ballroom B & C | 2344 | 160 | 264 | 42 | 250 | 126 | 48 | 64 | 160 |
| ~Ballroom ABC or Ballroom BCD | 3125 | 200 | 384 | 60 | 350 | 168 | 62 | 82 | 180 |
| Signature Suite | 1034 | 70 | 90 | 26 | 100 | 54 | 30 | 36 | 50 |
| Conterence Room | 1326 | 100 | 130 | 42 | 130 | 66 | 44 | 46 | 80 |
| ~Conference A | 663 | 40 | 60 | 18 | 60 | 28 | 16 | 18 | 30 |
| -Conference B | 663 | 40 | 60 | 18 | 60 | 28 | 16 | 18 | 30 |
| Breakout 1 | 772 | 70 | 66 | 22 | 70 | 30 | 2/1 | 24 | 30 |
| Breakout 2 | 801 | 40 | 66 | 22 | 70 | 30 | 24 | 24 | 30 |
| | | | | | | | | | |

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