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Photo Credit: Andrea Sunderland
Message from the President

David Harvey, P.Eng.
SEABC President

SEABC Reflections

No doubt our 800 or so members have many different viewpoints on SEABC and its purpose. SEABC is an established brand and we have shared values, but there will be differences in what the members expect from our Association.

Engineering is often regarded as the silent profession, but that is far from SEABC’s style. We make an effort to communicate regularly and effectively with members and outside organizations and I believe these efforts have paid off. Our newsletters are widely read and we are routinely contacted by members, external contacts, and the public. We maintain contact with our sister SEAs, the Institution of Structural Engineers (IstructE), and recently, the International Association for Bridge and Structural Engineering (IABSE). We have established connections with CSCE, ASCE and EGBC. All this keeps us current and relevant which is essential to being a vibrant organization that delivers quality services to its members.

Today’s structural engineers are much more than we once were. We do not just add rebar details to someone else’s concrete outline, nor are we the technical experts of the past who expected their work to speak for them. Our work today demands leadership, multi-discipline interaction, and excellence in project management and communication. We must develop skills which add value, and find new ways to carry out our work. Our structural engineering services include idea-generation, and our vision for the future. We need our customers to see structural engineers as trusted advisors and value us as reliable contributors to their project teams.

We need to counter misunderstanding of our role that follows in the wake of a failure; e.g., Elliot Lake, the De la Concorde overpass, or Station Square. Criticism can be fueled by the media, often when the facts are undiscovered. We rely on public confidence in us, and happily in British Columbia, professional engineers enjoy a high level of public respect. How can SEABC help? By representing and promoting structural engineering, we build public confidence. Outside organizations and the public turn to SEABC for help with structural engineering issues and we respond. On the education front, SEABC courses and seminars keep our members informed of the latest developments. Training helps staff be more effective for employers and our events provide valuable networking opportunities. Our ongoing approach is to keep doing the things we do well, keep our core activities updated, try new activities, and keep our eyes peeled for opportunities. SEABC is committed to structural engineering excellence.

Which brings me back to IABSE. You may have noticed that SEABC recently hosted the 2017 IABSE Symposium in Vancouver. This flagship international conference is held across the globe, and the SEABC Board wanted to showcase our brand of structural engineering to the world. We did just that – check out the article describing the event in this newsletter. By adding the Seismic, Young Engineers, Timber, and Forensic Workshops to the pre-conference events, we enhanced the learning opportunity for conference delegates, and particularly for our members who were able to interact with world-class experts attending the Symposium. By boldly supporting this initiative, the SEABC Board clearly demonstrated its commitment to excellence.

So, thank you to the chairs, the Local Organizing Committee, our conference organizer, our volunteers, our presenters and the many others who have helped create a very successful event. You all worked incredibly hard on behalf of SEABC, you were wonderful to work with, and contributed to the advancement of structural engineering. Now we can look forward to further and even better activities to serve our members and our profession. Let’s keep up the good work!
SEABC hosted the 39th IABSE Symposium from September 18 to 25, a three-day technical conference at The Westin Bayshore hotel in Vancouver, preceded by a program of pre-conference workshops and the Annual Meetings of IABSE’s technical committees and working groups. Technical Tours to local structural engineering projects followed the conference.

The event provided a high quality professional environment for the international structural engineering community to meet, discuss, and learn. The pre-conference workshops, keynote speakers, and diverse presentations were excellent. The symposium attracted over 800 participants and had a strong international and local participation including many young engineers.

**Technical Program**

Over three full days, participants learned from an impressive roster of speakers, panelists, and industry stakeholders representing design, research, construction, and socio-economic and political aspects of structural engineering. Session formats included 62 technical sessions with some including coordinated discussion components, and two poster sessions with short presentations. Additionally, ten special sessions were presented by IABSE technical commissions and by the Symposium’s supporting organizations. Over 450 papers were presented in total.

Electronic proceedings and an abstract collection were distributed to all Symposium participants. A limited number of printed abstract books ($25 + GST) are still available for purchase. Contact info@iase2017.org for more information and to order your copy.

The Symposium program also included keynote addresses by the following distinguished speakers:

- *Seismic Assessment and Rational Renovation of the Structural Heritage*  
  Dr. G. Michele Calvi, Director of the ROSE School, Pavia, Italy;

- *Challenge and Innovation of Long Span Bridges in China and over the World*
Dr. Yaojun Ge, Professor at Tongji University, Shanghai, China;
- Developments in the Wind Engineering of Tall Buildings
  Dr. Peter Irwin, founding partner and principal, RWDI, Guelph, Ontario, and Professor at Florida International University;
- Measuring, Monitoring and Evaluating Community Resilience using Remote Sensing Technologies
  Mr. Ron Eguchi, CEO, ImageCat Inc., Long Beach, California.

These keynote addresses were well received by the audience and video recordings will be made available to SEABC members later this year.

Pre-Conference Workshops

Four pre-conference workshops were held between September 18 and 20, attracting nearly 150 local and international participants. The workshops, presented by renowned local, national and international experts focussed on the diverse structural engineering topics of: Seismic Engineering, Timber Engineering, and Forensics. A workshop targeted to Young Engineers was also held and focussed on Bridge Dynamics, using the Golden Ears Bridge as an example with hands-on software support by Bentley Systems.

Timber Workshop – Paul Fast and Michael Flach discussing structural systems (photo by Andrea Sunderland)

Social Program

Well attended social events were held on all evenings during the Symposium. The Icebreaker Reception on September 22 served as a welcome to all participants and was held in the upper ballroom.
and foyer of the Westin Bayshore. As a true Canadian event, a real icebreaker even made its appearance!

On September 23, all participants were invited to the Rogue Waterfront to network and socialize in a relaxed and informal setting. IABSE’s fellows joined the Young Engineers at the Westin Bayshore for the short walk to Rogue creating an excellent opportunity for conversation and the exchange of ideas between younger engineers and those that are young at heart. Structurecraft generously provided a mega-Jenga game to enhance interaction between participants at Rogue.

The main social event of the Symposium was the Gala Dinner on September 24, held on the 3rd floor of the Vancouver Convention Centre West. This extra-fee event was fully sold out. Participants were treated to a sumptuous dinner accompanied by Canadian-themed entertainment by the local band Famous Players. After dinner, all conference delegates were invited to participate in a free after-party held at the same venue. Famous Players continued to entertain and managed to keep the dance floor full the entire evening, while others continued to mingle over quieter conversation and drinks on the VCC balcony overlooking the harbour.
A Social Hub was organized at the conference venue for accompanying people to facilitate interaction between guests and to help them make arrangements for their days exploring Vancouver. Well attended historical walking tours through downtown led by Andy Coupland were also organized.

In addition to the Symposium social events, IABSE sponsored a reception at the Vancouver Rowing Club during the Annual Meetings on September 19. The historic setting and short walking distance from the Westin Bayshore allowed for a great networking opportunity of the Annual Meeting participants. IStructE hosted a reception in the Westin Bayshore for its members on September 18. The SEANW council meeting was held in conjunction with the Symposium on September 23.

**Technical Tours**

Three technical tours took place after the Symposium: Bridges of Vancouver Harbour Dinner Cruise, the Paddle-Wheeler Boat Tour for Bridges on the Fraser River and the two-day Sea-to-Sky and Whistler Adventure Tour. All tours were well organized and well appreciated by the participants.
A big Thank You!

We would like to thank all people involved in the Symposium for their great contributions and for making the event a success, including, but not limited to:

- The supporting organisations: SEABC, IStructE, SEI of ASCE, CSCE, CAEE and EGBG
- The Scientific Committee:
  - Chair: Maria-Anna Polak
  - Secretary: Colin van Niejenhuis
  - Vice-Chairs: Evan Bentz, Adam Lubell, Peter Taylor, Scott Walbridge
  - 75 international IABSE members
- The keynote speakers: Michele Calvi, Ron Eguchi, Yaojun Ge, and Peter Irwin
- The workshop presenters: Michele Calvi, Andre Filiatrault, Michael Flach, Johannes Natterer, Paul Fast, Robert Ratay, John Duntemann, David Peraza, Peter Irwin, Dusan Radiojevic, Peter Taylor and staff from Bentley Systems.
- The Local Organizing Committee:
  - Peter Taylor, West Vancouver, BC (Honorary Chair)
  - Katrin Habel, Associated Engineering, Vancouver, BC (Co-chair)
  - Adam Lubell, Read Jones Christoffersen, Vancouver, BC (Co-chair)
  - David Ellis, McElhanney Consulting Services, Victoria, BC (Sponsorship and Exhibition)
  - Lucas Epp, StructureCraft Builders, Delta, BC (Social Program)
  - Bernhard Gafner, ACC Structural Engineers, Vancouver, BC (Young Engineers Program)
  - David Harvey, Associated Engineering, Vancouver, BC (Supporting Organizations and SEABC Liaison)
  - Adrian Gygax, Gygax Engineering Associates, Vancouver, BC (Canadian Group of IABSE Liaison & Workshops)
- Andrew Seeton, Glotman Simpson Consulting Engineers, Vancouver, BC (Technical Tours)
- Thomas Surtees, COWI, North Vancouver, BC (Treasurer)
- Raya Smertina, Associated Engineering, Vancouver, BC (Communications)
- Jeff Yathon, BC Hydro, Vancouver, BC (Secretary)
- Prerna Sohal, Kyle Sullivan, Hendrik Westerink, Tijana Vulic
- Stephen Pienaar for website hosting and IT support,
- All volunteers at the event
- Our sponsors and exhibitors
- Michael Tolboom, Andrea Sunderland and Venue West, and
- All session moderators, speakers, delegates and other participants who made the event a great success.

The Core Conference Organising Team: Colin van Niejenhuis, Marianna Polak, Peter Taylor, Katrin Habel and Adam Lubell (photo by Andrea Sunderland)

IABSE Headquarter staff and Katrin Habel (photo by Andrea Sunderland)
A few more pictures of the event...

Captivated audience during the plenary sessions (photo by Andrea Sunderland)

IStructE special session (photo by Andrea Sunderland)

Discussions at the poster session (photo by Andrea Sunderland)

Enjoying the coffee break (photo by Andrea Sunderland)

Peter Collin from Sweden closing the Pecha Kucha Session with his ukulele (photo by Andrea Sunderland)
Thank you Sponsors!
Thank you Exhibitors!
Notable Structures in Vancouver

To help Symposium participants explore the many impressive structures in Vancouver, a booklet containing information on recent, notable and historically significant structures was compiled by the Organizing Committee. Sixty three structures are featured, mainly located in downtown Vancouver, UBC and the environs.


A limited number of printed booklets are still available for purchase for $30 plus GST. Please contact info@iabse2017.org to obtain your copy of this fantastic local publication.

Thanks go out to all contributors for their efforts in making this brochure a memorable souvenir of the event! Katrin Habel coordinated the overall effort. David Harvey and Adam Lubell reviewed and edited all submissions contributed by numerous SEABC members. A complete list of contributors is available in the Preamble of the booklet.
Committee Reports

Technical Committee

Kevin Riederer, M.A.Sc.
P.Eng.,
Director SEABC

SEABC was recently approached by Engineers and Geoscientists British Columbia to develop a professional practice guideline for the “Structural Condition Assessments of Existing Building and Designated Structures”. The Board of Directors has agreed to take the lead on this initiative. The technical committee is looking for volunteers interested in participating in the task group responsible for developing this practice guideline. If you are interested, please email us before November 30th at: info@seabc.ca

Anyone with interest in participating on a Technical Subcommittee is encouraged to contact SEABC. Any member with an issue or concern that they would like to have the Technical Committee consider is also encouraged to reach out to the committee.

Communications Committee

David Harvey, P.Eng.,
Struct.Eng.
Director SEABC

Normally, the SEABC Communications Committee is responsible for our website and this newsletter, so we clearly needed help. The conference organizing team therefore included a strong marketing effort and graphic design component which helped enormously, but there was still much to do. Happily, it all worked out thanks to the strong commitment from those involved.

If you have an interest in publishing or website development, please let us know – we would love to hear from you. Your Communications Committee has survived the challenges of hosting the IABSE Symposium and is now looking for new horizons. So, come and join our editorial team and help keep SEABC members well informed!

Young Members Group

Thomas Duke, EIT.

Young Members Group Committee

The SEABC YMG has been busy over the last few months attending the CCSSEE held at the University of British Columbia, preparing the second edition of the YMG Structural Challenge, and getting prepared
for the upcoming 2018 YMG Presentation Competition.

**China-Canada Symposium on Structural and Earthquake Engineering**

The first China-Canada Symposium on Structural and Earthquake Engineering (CCSSEE) was a highlight of 2017. The event took place between August 20-24 at UBC’s Vancouver campus. Over the past few years, the symposium has evolved from a collaboration between UBC & Tongji University, one of China’s leading universities in Engineering and Technology, to an international event attracting researchers from more than ten universities in North America and Asia.

This year’s symposium was attended by a large audience from both academia and industry who were excited to learn about the state-of-the-art methods and technologies developed by many professors and graduate students. The symposium consisted of several sessions that covered a variety of topics related to both buildings and bridges. SEABC members are highly encouraged to take advantage of this event when it is hosted by UBC in the future.

Thanks to UBC you are able to view presentation recordings at the symposium website, if you did not have a chance to attend.

The 2017 YMG Presentation Competition

**The YMG Structural Challenge**

The YMG is thrilled by the number of participants in the first YMG Structural Challenge published in last edition of the Newsletter. Twenty-five engineers provided responses, representing a wide range of companies. The first winner is announced in this edition of the YMG Structural Challenge which features quiz questions related to two new building and bridge projects. Find clues in the description, the photo or do your own research and get a chance to win a prize! All members are encouraged to participate.

*Do you have in mind an interesting project that you would like to share and could prepare fun questions about? The YMG would like to hear from you! Email us at ymg@seabc.ca*

See the next challenge at the end of the newsletter!

So You Think You Can Give a Seminar? Call for Contests!

Do you have an interesting project that you would like to present on? Email your project title and a 250 word description to ymg@seabc.com to apply for
On the Web

Stephen Pienaar, P.Eng.
Webmaster

Website refresh

We launched the refreshed SEABC website on October 4. There were many sighs of relief; the project has been struggling with delays. The new website provides a fresh new appearance, better performance on smaller screens (mobile phones), and an all-round better experience for members. Not all the pieces of the puzzle are in place yet; we will roll out more website updates in coming months to complete and refine functionality.

We welcome members' feedback and participation on several levels:

- Report any errors or inaccuracies
- Suggest improvements
- Contribute to the new "photo of the month" feature

Please send your comments to webmaster@seabc.ca.

Current activities on the website

- **January 2018 Term of the Certificate in Structural Engineering Program:**
  Registration is open for the upcoming term. Four courses will be offered with classroom and live interactive webcast options:
  - C4-2: Advanced Concepts in Earthquake Engineering and Seismicity
  - C54: Seismic Bridge Analysis for Force-Based & Performance-Based Design
  - E12: Design of Steel Structures for Seismic Resistance
  - E15: Applications of Dynamic Analysis for Seismic Design of Structures

- **November evening seminar:**
  Registration is open for the NBC 2015 Commentary seminar on November 30. Andy Metten, Ron DeVall and John Sherstobitoff will discuss the repair and seismic upgrading of several heritage buildings in Vancouver over the past five years along with the need for and the development of guidelines for doing this type of work.

- **Membership renewal:**
  Please log in to renew your membership for 2018:
  seabc.ca/members

- **Past seminars:**
  Members can log in to watch video recordings of seminars.
  seabc.ca/events-archive

- **Be first the first to know:**
  Follow us on Twitter for announcements of SEABC events.
  twitter.com/seabc

Sincerely,
Stephen Pienaar, P.Eng
SEABC Webmaster
I StructE News

Robert Jackson P. Eng.,

Graduate Member, I StructE Council

I StructE Memberships

As many of you know, the Institution of Structural Engineers (I StructE) in London offers the MI StructE chartered membership, which is an internationally recognized designation in our field. This designation is often achieved by local practicing engineers by way of the APEGBC Struct. Eng. application process. This is because writing the I StructE exam is often the preferred choice of Struct. Eng. applicants.

As a young member on the I StructE council in London, I have been involved in discussions surrounding other grades of membership and their associated benefits. Specifically, the student and graduate memberships which do not require writing the exam. It occurred to me that these grades of membership may not be well known out here in B.C., so I thought I’d write a note to share these with you all.

Student Membership

Student members of the Institution are aspiring structural engineers who are studying structural and/or civil engineering courses (either full-time or part-time), at an undergraduate level. This would apply to almost all 1st, 2nd, and 3rd year students at the UBC, BCIT, UVic, and Camosun civil engineering programs. 4th year students are probably better off to wait until graduation, and apply for the graduate membership in May.

As a student member you will get access to many of the Institutions online resources, such as the Essential Knowledge Series, and the Structural Behavior Course. You will also get a monthly copy of the Institution’s flagship publication, The Structural Engineer magazine. This grade of membership is completely free of charge and is highly recommended for students who are already SEABC student members!

More information on the application process can be found here.

Graduate Membership

Graduate members are engineers who have completed an accredited structural and/or civil engineering degree or equivalent. Graduate members are usually those who are working towards becoming chartered members. This would apply to graduates of almost all civil engineering undergraduate programs at accredited Canadian or U.S. universities. Essentially if you are an E.I.T. or P. Eng out there and are a ways off from your MI StructE designation, this one is for you.

As a graduate member, you will get access to all of the Institutions online resources, such as the Essential Knowledge Series and their E-Library which has an incredible amount structural engineering resources. You will also get a monthly copy of The Structural Engineer magazine and discounts on technical publications, access to the benevolent fund, and other various recruitment and professional development resources.

More information on the application process can be found here.

As a younger engineer, I have found it very rewarding to be a part of the I StructE, as it exposes you to the global structural engineering community. I would like to encourage younger engineers who are currently SEABC members to consider signing up for one of the I StructE memberships discussed above, you will not be disappointed!
Performance-Based Seismic Design of Tall Buildings - Lessons Learned from Peer Reviews


Education Committee

On June 22, 2017 SEABC educational committee arranged an evening seminar and asked Dr. Farzad Naeim who was in Vancouver for another event, to have a presentation on performance-based design of tall buildings and lessons learned from peer review. The presentation was held in UBC Robson Square and had more than 75 attendees.

Dr. Farzad Naeim

Dr. Farzad Naeim is the President of Farzad Naeim Inc., CEO of Mehrain Naeim International Inc., an Adjunct Professor at UCI and a faculty member at the European School for Advanced Studies in Reduction of Seismic Risk (ROSE). He is the recipient of the 2017 Bruce Bolt Medal jointly awarded by Earthquake Engineering Research Institute and the Seismological Society of America (SSA). In 2007, he received the Fazlur Khan Medal for lifetime achievements in seismic design of tall buildings from the Council on Tall Buildings and Urban Habitat. He has served two terms as the President of the Los Angeles Tall Buildings Structural Design Council. Dr. Naeim is a Past-President and an honorary member of EERI.

Performance-based earthquake engineering practice for tall buildings in United States was discussed and lessons learned from peer reviewing. More than a dozen of such buildings were presented. New developments embodied in the newly released PEER-TBI II and Los Angeles Tall Buildings Structural Design Council (LATBSCD) Guidelines for seismic analysis and design of such buildings were also reviewed. A large number of tall buildings in western United States are currently being designed using this approach rather than prescriptive code procedures. Successful further development of this method requires close collaboration between researchers and practicing engineers. Such a collaboration is needed for meaningful definition of desired performance objectives, consequences of not meeting these objectives, dependable characterization of system and component level behavior states, meaningful representation of earthquake ground motions, improved understanding of the performance of structures and their contents, soil-foundation-structure interaction, and bridging the gap between and advancing both experimental research and our analytical capabilities.

This presentation briefly discussed these issues and provided examples of problems and solutions that the speaker has encountered in dealing with these needs.
Certificate in Structural Engineering Program

Shannon Remillong,
CSE Program Co-ordinator

The January 2018 term is just weeks away!
The following four courses offered this January 2018 at UBC Robson Square are:

- **C4-2** Advanced Concepts in Earthquake Engineering and Seismicity
- **C54** Seismic Bridge Analysis for Force-Based & Performance-Based Design
- **E12** Design of Steel Structures for Seismic Resistance
- **E15** Applications of Dynamic Analysis for Seismic Design of Structures

Registration for the January 2018 is open until end of day Monday, January 8th through the SEABC website: www.seabc.ca/certificate.html.

Early-bird rates apply until Friday, December 15. Classes will be on either Tuesday or Thursday evenings beginning the week of January 9 and ending the week of April 5 with a mid-term break in the week of February 20.

Courses fill up fast so not to be disappointed, register early and take advantage of the savings!

Registration Inquiries and Requests/Suggestions
Please contact Shannon Remillong, Certificate Program Administrative Assistant:
courses@seabc.ca

CSE Board of Directors
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Darrel Gagnon, M.Sc., P. Eng., Cowi N.A. Engineering
Chris Jacques, P. Eng., MIstructE, LEED AP, Read Jones Christoffersen Ltd
Bishnu Pandey, Ph.D., P. Eng., British Columbia Institute of Technology
Carlos Ventura, Ph.D., P.Eng., University of British Columbia
Mark Your Calendar

Upcoming Seminars and Industry Events

NBC 2015 Commentary L
Date: Thursday November 30, 2017
Presenters: Andy Metten, P.Eng, Struct Eng. (Bush Bohlman & Partners LLP)
Ron DeVall, PhD, P.Eng. (Read Christofferson Ltd)
John Sherstobitoff, P.Eng. (Ausenco)
Time: Refreshements at 6pm, Presentation 6:30pm
Venue: Theatre C300, UBC Robson Square, 800 Robson Street.

The Elephant in the Room: How to have a Tough Conversation
Date: Friday January 12, 2018
Time: 8:00 AM-8:30 AM: Registration and Breakfast
8:30 AM-4:30 PM: The Elephant in the Room- How To Have a Tough Conversation
Location: Vancouver, BC
Presenter: Claudia Verburg, CMC, CPHR
Leadership and Team Development Consultant, Coach and Trainer
Registration: www.egbc.ca/Events/Events

Writing Effective Proposals and Reports
Dates: Wednesday December 6, 2017
Presenter: Eric Tung, MA, Principal Consultant, Prolepsis Consulting
Location: Vancouver, BC
Time: 8:00 AM-8:30 AM: Registration and Continental Breakfast
8:30 AM-4:00 PM: Writing Effective Proposals and Reports
Registration: www.egbc.ca/Events/Events

Wood WORKS! Events

Fundamentals of Structural Timber Engineering Workshop
Location: Victoria, BC
Date: Wednesday, December 6, 2017
Radisson Hotel Vancouver Airport, 8181 Cambie Road, Richmond, BC
More information: www.eventbrite.ca/e/fundamentals-of-structural-timber-engineering

Fundamentals of Structural Timber Engineering Workshop
Location: Radisson Hotel Vancouver Airport, 8181 Cambie Road, Richmond, BC
Date: Thursday December 7, 2017
More information: www.eventbrite.ca/e/fundamentals-of-structural-timber-engineering

Wood Design Luncheon
Location: Delta Hotels by Marriott Grand Okanagan Resort, 1310 Water Street, Kelowna, BC
Date: Wednesday, November 22, 2017
More information: wood-works.ca/bc/educational-events/luncheon-conferences/
Wood Design Luncheon

Location: Delta Hotels by Marriott Ocean Pointe Resort, 100 Harbour Road, Victoria, BC
Date: Friday, November 24, 2017
More information: wood-works.ca/bc/educational-events

14th Annual Wood Design Awards in BC

Date: Monday, February 26, 2018
Location: Vancouver Convention Centre, West, 1055 Canada Place, Vancouver, BC
(Nominations Open from October 2 – November 30, 2017)
More information: www.wood-works.ca/bc/wda/
Final Words

Editorial Information

The SEABC Newsletter is published by the Structural Engineers Association of British Columbia. The current and past issues are available on the SEABC website at www.seabc.ca.

The Newsletter is edited and managed by the SEABC Communications Committee.

- Committee Chair: David Harvey
- Newsletter Editor: Catherine Porter
- Webmaster: Stephen Pienaar

Submissions are welcomed and all SEABC members are encouraged to actively contribute to the Newsletter. Submissions, letters to the Editor, questions and comments can be sent to: newsletter@seabc.ca.

The Committee reserves the right to include or exclude submitted material and in some cases edit submitted material to suit overall space requirements. If content is not to be edited, please advise so at submission time.

SEABC Board of Directors

President: David Harvey
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Structural Practice: John Sherstobitoff
Technical: Kevin Riederer
Communications: David Harvey
Young Members: Stanley Chan
Branch Chairs:
Vancouver Island: Thor Tandy
Okanagan: Meagan Harvey

Advertising

Pre-paid rates per edition:

- $270 (quarter page), $360 (half page) or $450 (full page) plus GST. Rates include a banner advert on the Events page of the SEABC website.
- 50-word “Available for Employment” ads are free.

Please address advertising enquiries to: newsletter@seabc.ca.

Please support our advertisers!
Grandview Heights Aquatic Centre features an undulating roof structure with hanging timber ‘cables’, suspended between large concrete buttresses. While hanging systems have historically used steel cables, Fast + Epp took a novel approach, pioneering one of the firm’s most ambitious and daring designs in its 30-year history. Engineers chose wood as a cost-effective, structurally-efficient and aesthetically-pleasing alternative, cleverly balancing form and function. The resulting structure fulfills the Client’s desire for an iconic building that will be a catalyst for civic growth, and is believed to be the world’s most slender long span timber catenary roof.

Client: City of Surrey  |  Architect: HCMA Architecture + Design  |  Engineer: Fast + Epp

Question 1: How many different radii of glulams are included in the roof structure?
   a) 1
   b) 2
   c) 6
   d) Each glulam is different

Question 2: How many glulam splices per timber ‘cable’ occur in the 55m long span?
   a) 0
   b) 1
   c) 2
   d) 3

Question 3: What is the maximum sectional span to depth ratio in this building?
   a) 10
   b) 20
   c) 100
   d) 200

Question submitted by: Thomas Duke, Fast + Epp

Click here to participate!

PRIZE: $25 gift cards or AGM dinner

Deadline: January 15th, 2018

Note: One winner drawn among the participants who answered correctly to all three questions.

Increase your chance of winning by answering both the building and the bridge YMG Structural Challenge quiz!

Answers from the previous YMG Structural Challenge:
   The Arc Building  Q1: b) / Q2: a) / Q3: c)  
   The Lions Gate Bridge  Q1: b) / Q2: c) / Q3: c)

Last YMG Structural Challenge winner: Griffen Yu, Pragmatic Homes Inc.

Interested in submitting your questions to share your project to the community?
Email ymg@seabc.ca for more information about how to contribute to the YMG Structural Challenge!