



NEWSLETTER

PROBUS CLUB OF VANCOUVER

PO Box 74539, KITSILANO, Vancouver, BC, V6K 4P4

Enriching members with topical, entertaining speakers and social activities

www.probusvancouver.com

March, 2019

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Next Meeting: Tuesday, Mar 12th at 9:30 am
Location: H.R. MacMillan Space Centre
Speaker: John Cherrington, Lawyer & author
Topic: "Walking to Camelot"

NEXT MONTH'S SPEAKER
April 9: Professor Paul Budra
Chair, Dept of English at SFU
Topic: Shakespeare in the
Garden

JOHN CHERRINGTON



John Cherrington was born and raised in Vancouver. During his studies at the University of British Columbia in the early 1970s, he won the Women's Canadian Club scholarship as the top student in Canadian history. His first book, *Mission on the Fraser*, was published in 1974. He remains an avid chronicler of his beloved Fraser Valley, and an active member of the movement to preserve the Valley's abundant natural beauty and numerous historical landmarks. John was founding chair of the Fort Langley Legacy Foundation and also served as chair for the Langley Heritage Commission. He was awarded the 125th anniversary Governor-General's Medal for significant contribution to community and country. John has authored four books: *Mission On The Fraser*, 1974; *The Fraser Valley: A History*, 1992; *Vancouver At The Dawn*, 1997, and *Walking To Camelot*, 2016. John practised law as managing partner of his own firm in the Fraser Valley for 36 years, and is now recently retired. John and his wife have three children and divide their time between their home in Abbotsford and their cottage on Pender Island. The prestigious *Ormsby Review* describes John's latest work, *Walking To Camelot*, being a memoir of long distance walking in England, as follows: "Walking To Camelot is not a guidebook. It is a work of art – a richly varied verbal tapestry making intriguing patterns out of many brilliant narrative threads." The book was near the top of the B.C. bestseller list for over 6 months.

JOHN ATKIN WALK

TUESDAY, MAY 21

John will lead us in yet another of his memorable walks exploring parts of our city and describing in detail the history of the area. This time, he will lead us "Under the Georgia/Dunsmuir Viaducts.

These 2 viaducts, originally built just a short 46 years ago, are scheduled to be torn down in the near future. John's Walks are limited to 25 members and always sell out.

Watch for full details with registration form in the April newsletter.

Report of the February 12th Meeting

Attendance: Members and Guests

President Peter Scott opened the meeting, welcomed the members and guests present, especially our speaker, John Clague. Peter congratulated those who came, given the weather conditions. Bill Hooker introduced two new members (see page 3). Jack Zaleski gave a run down of the activities planned by his committee. Details are at the bottom of page 1 and on pages 4,5 and 6. Raymond Greenwood thanked his Member Services Team. John Madden introduced John Clague.

An earthquake is the result of the sudden movement of blocks of the earth's crust. The shaking is a result of stored energy being released along a pre-existing weak point in the earth, also known as a fault line. There are thousands of fault lines lacing the earth in Western Canada, but luckily only a small percentage of them are capable of causing a damaging earthquake. These lines are known as active faults, which seismologists spend most of their time studying. While seismologists won't be at a point where they can predict when an earthquake will occur anytime soon, they can determine the likelihood of them happening from this kind of geological data.

Energy from an earthquake is released in a series of different kinds of waves, which interplays with the ground. Surface waves move along the horizontal plane of the earth's surface and are categorized as Love waves and Rayleigh waves. Body waves move up to the earth's surface, expending energy along the way. These waves are made up of Primary waves (P waves) and secondary/Shear waves (S waves). P waves compress and extend rapidly, while S waves move in a slower sinusoidal pattern, which typically causes more infrastructure damage. The difference in speed between the P and S waves results in what is known as an Early Warning System. The delay provides 60-90 seconds before the arrival of the damaging S waves. In Japan, they successfully use this critical time to stop high-speed railways and elevators before serious damage occurs.

Another component of seismology, is determining the amount of energy released during an earthquake. The Moment Magnitude Scale is a commonly used logarithmic scale that estimates the size of an earthquake. The largest earthquake ever recorded was in Chile in 1960. With a magnitude of 9.5, it released about the same amount of energy that is used annually in the US. Larger earthquakes occur less commonly as per the Frequency-magnitude Concept. This concept is used to forecast earthquakes in a similar manner that is used to forecast floods, landslides, and volcanic eruptions.

There are three types of earthquakes that BC can experience. Crustal earthquakes occur at a shallow depth within the crust and with the potential of reaching a magnitude of 7. These are some of the most concerning as many of the crustal fault lines are near major cities such as Victoria and Seattle. Slab earthquakes are quite frequent and occur much deeper, within the subducting Juan de Fuca plate, causing quakes that can reach a magnitude of 6-7.5. There is also the possibility of subduction zone earth-

quakes that can occur along the boundary between the North America Plate and the Juan de Fuca plate, which create a 1,100 km by 100 km mega fault. While there have only been 20 of these earthquakes in the last 10,000 years, they have a potential to reach a magnitude of 9, so they get a lot of media attention. The subduction zone earthquakes occur every 500-600 years, with the most recent having occurred in January 1700. This earthquake caused a tsunami that travelled across the Pacific Ocean and produces 4-5 m high waves off the coast of Japan. How damaging an earthquake is, not only depends on its magnitude but its location. For example, a Magnitude 6 earthquake would cause major damage if it were to occur in Vancouver, while it would only cause minor losses in Tofino. Earthquakes can cause more damage either directly or indirectly through fires, ground ruptures, ground shaking, tsunamis, liquefaction, landslides, and aftershocks which can occur up to a year after an initial earthquake. In order to be prepared for an earthquake, cities need to consider how to counteract these effects. Often, water lines are damaged as a result of earthquakes, so it is necessary to have alternatives to fighting fires. Ground shaking is the iconic effect of an earthquake which may cause infrastructure damage. This shaking can be amplified or subdued based on the foundation, and the area's geology and topography. Liquefaction occurs during Magnitude 7 earthquakes, where solid loose granular soils, like water-saturated sands and silts, turn into liquid from the ground shaking. Liquefaction can cause a lot of damage to any kind of buried lines and is a big risk in many areas of BC such as Richmond and False Creek. After an earthquake this could also have large economic repercussions, as our ports will be out of service. Earthquakes can also cause landslides particularly along the Sea to Sky highway and the Fraser Canyon, impacting railways and highways which could have an impact on recovery efforts. Most of the bridges and tunnels in BC have been seismically retrofitted, but there also needs to be a plan in place to dispose of debris on the streets to maintain travel routes. Another challenge is finding places to house people who have been displaced in the earthquake.

Subduction zone earthquakes may cause tsunamis, which would affect the outer Pacific coast. Typically, crustal and slab earthquakes don't cause tsunamis, as they need sources beneath a water body. Geologists have modelled what the timeline of a tsunami would look like along the coast. In Tofino, people would have to run for higher ground right after they feel ground shaking, while in Victoria, people would have about two hours to evacuate. By the time the waves reach Vancouver, they would only be about one meter in height which would not cause a catastrophic amount of damage.

To read the Questions & Answers, please go to our PROBUS website at www.probusvancouver.com, click on "Speakers" and then on "John Clague"

THE PRESIDENT'S MESSAGE



The weather on February 12 was not conducive to the citizens of Vancouver to venture forth to a PROBUS meeting! In fact, all reports told us to stay off the roads unless absolutely necessary. I am



pleased to report decent turnout to cookies that Ray-more importantly, give us a fascinating

therefore very that we had quite a enjoy the Valentine mond organised and, to hear John Clague look at the probabil-

ity and possibility of earthquakes in our region. He described the different types of earthquakes and how each type affects the surrounding area. It seems that the chances of what the experts call "a significant quake" occurring in our region in the next 150 plus years is quite low. However, given the unpredictability of them, we shouldn't be too relaxed—be prepared, like all good boy scouts!

I am delighted to announce that our past president, David Scott, has been elected to the board of PROBUS Canada. I understand that David is the 3rd board member from our club to serve on that board. Congratulations, David!

The arrival of our PROBUS license frames was announced and most of the members who had ordered them and were present, were able to pick them up after the meeting. They will continue to be available for pick up at future meetings for those who weren't at this meeting. Please bring exact change (\$2.50 for 1 and \$5.00 for 2) as we won't have a lot of change available.

The Activity Committee has organised an excellent outing to the Stave Falls Dam Museum & Westminster Abbey. So far, we have 15 people signed up. The smallest bus we can get has 38 seats, so we would very much like to fill it up but need at least 20 more reservations.

Other activities in the works are a tour of the new Emily Carr University building on May 7 (see page 4 for full details) and another of our famous John Atkin walks on May 21 (see page 1 for a summary).

I'm looking forward to seeing you all at our next meeting on March 12 to hear about walking across England.

Rotarians' Investment Club

The next Meeting is on Thursday February 28th at the RVYC on Point Grey Road, commencing at 6.30 pm sharp, with a no-host bar at 6.00 pm. Our Speaker is

Jamie Nguyen, BBA.,CPA.,CA.

Tax Partner with Davidson & Company.

His topic is "Overview of recent Tax Developments".

Requests to attend must be given to our President, Bill Caulfield (604-825-8245 email wcaulfield@gmail.com) by Tuesday evening February 26th, as we must give RVYC the exact head count as we get charged for "no-shows". Please bring a cheque for \$60.00 for the excellent 3 course dinner with dinner wine which includes gratuities/taxes etc.

The March meeting will be on Thursday March 28th on the topic of **"Stock Market Volatility"** given by

Mark Webster, Director, ETF Distribution, Bank of Montreal Global Asset Management

An Agenda is available upon request to Bill Caulfield; and we look forward to seeing you at one of our meetings. An "Information" sheet is available to tell you about our Club which started in 1998.

John Sullivan—johnws@telus.net



PROBUS FRED COTTON BOOK CLUB



The Book Club meets at 9:00 a.m. on the first Wednesday each month (except July and August) at the White Spot, Georgia & Cardero.

Upcoming books we will discuss:

March 6: Hero of the Empire by Candice Millard

April 3: Sapiens by Yuval Noah Harari

A list of books read since the Club began in 2008 may be found on the Club website by clicking the "Book Club" link

For further information contact Ken Yule at kjyqc@shaw.ca or 604-266-4563.

Thanks to our February Member Services Team

Hugh Lindsay, Doug Graham, Zul Tejpar and Jack Zaleski

Welcome New Members



**Steve Mulhall
Lawyer**



**Bob Adams
Anesthesiologist**

TUESDAY, MAY 7—10 AM—\$20.00 PER PERSON MAXIMUM ATTENDANCE IS 40 MEMBERS AND GUESTS



OUR TOUR WILL INCLUDE THE SENIOR GRADUATES EXHIBITION

Founded in 1925, **Emily Carr University of Art + Design** is one of the oldest post-secondary institutions in British Columbia and the only one that is dedicated solely to professional education and learning in the arts, media and design. One of the University's roles is to act as an advocate for the arts and reinforce the need for public support. At every opportunity, the University promotes public understanding and appreciation of fine arts, media arts, and design for their significant impact on the well-being of our society. In 2015, ECU celebrated its 90th Anniversary. The university moved in 2017 to a newly built, state-of-the-art campus at Great Northern Way. The new campus puts the University at the centre of a new social, cultural, educational, and economic engine for British Columbia.

ITINERARY

10 AM—Meet in the Loafe Café on the 2nd floor of the university for refreshments, an introductory presentation which will include an opportunity for questions and answers. This will be followed by a self-guided tour.

GETTING THERE

The #84 bus (UBC via West 4th Avenue to the VCC-Clark Skytrain Station) passes the University every 10 to 12 minutes.

The Main Street Skytrain Station is within a 15 minute walk

PARKING

Parking is available at \$2.50 per hour—\$10.00 per day. We will provide an Emily Carr site map closer to the event. You may wish to consider car-pooling with other members.

REGISTRATION

REGISTER ONLINE WITH PAYPAL (PREFERRED)—OR

At Activity Desk at Probus meetings on March 12 and April 9 by cheque or cash OR

Mail this registration form to Terry Gill, 2955 West 31st Avenue, Vancouver, BC. V6L 2A5 enclosing your cheque

Additional information: Terry Gill at atgill@telus.net

Deadline for registration: April 23rd. Deadline for cancellation April 30th unless another registration available.

Name: _____ E-Mail _____

Phone: _____

of Guests: _____ Cheque enclosed for: _____ Cash enclosed for: _____

NOTE: YOU ARE REGISTERED WHEN PAYMENT IS RECEIVED

VANCOUVER SYMPHONY ORCHESTRA
(THIS IS THE SECOND OF TWO CONCERTS OFFERED THIS YEAR BY THE VSO)

TRAGIC LOVE: WAGNER & PROKOFIEV

Saturday 11 May at 8pm

Tickets \$35 (Normally \$70) Section 1 Seating Balcony or Orchestra

Maestro Otto Tausk takes the podium in a concert all about love, including his live commentary and insights. The spotlight shines on VSO musicians **Julia Lockhart** and **Jeanette Jonquil** in the lovely *Duet Concertino for Clarinet and Bassoon* by **Richard Strauss**, and Maestro Tausk presents **Prokofiev's Romeo & Juliet** in a way that Vancouver audiences have never heard before, in a suite that features not only the most famous sections, but also some of the rarely-performed music in between that is in fact some of the most beautiful music in the entire work. **(Tickets must be ordered before April 1st for this concert)**

.....
NAME _____

ADDRESS _____

PHONE # _____ EMAIL _____

Tragic Love – Tickets \$35 (normally \$70) NUMBER OF TICKETS ___ TOTAL
COST _____

WHICH PROBUS CLUB? MEN'S ___ WOMEN'S ___ VANCOUVER WEST MIXED ___

CHEQUE (# of tickets multiplied by applicable price) \$ _____ made out to Vancouver
Symphony Orchestra

INDICATE: Orchestra _____ Balcony _____

Mail form and cheque to: Estelle Jacobson 1192 Nanton Avenue Vancouver, BC V6H
2C5

TICKETS WILL BE AVAILABLE AS OF NOVEMBER 1st AND **WILL NOT** BE MAILED
PICK-UP WILL BE AT MONTHLY PROBUS MEETING

NO EXCHANGES OR REFUNDS



TUESDAY, JUNE 4, 2019
BUS TOUR TO THE STAVE FALLS DAM MUSEUM AND WESTMINSTER ABBEY IN MISSION—GUESTS WELCOME
\$80.00 PER PERSON



Stave Falls Dam is a dual-dam power complex on the Stave River in Stave Falls, Mission. The dam was completed in 1912 for the purpose of hydroelectric production. To increase the capacity of Stave Lake, the dam was raised in 1925 and the Blind Slough Dam constructed in an adjacent watercourse 1,600 ft. to the north, which was the site of the Stave Falls. In 2000, the dam's powerhouse was replaced after a four-year upgrade. The powerhouse was once British Columbia's largest hydroelectric power source and is a National Historic Site.

Westminster Abbey is a community of Benedictine monks in Mission established in 1939 from the Abbey of Mount Angel in Oregon. The abbey is home to the Seminary of Christ the King and is a member of the Swiss American Congregation within the Benedictine Confederation. The abbey's official name is the Abbey of Saint Joseph of Westminster. Since 1939 the order has been located in Ladner (1939), Burnaby (1940) and Mission (1953). Construction on Mt. Mary Ann occurred in stages and culminated in the abbey church in 1982. Father Braganza is the current abbot. The abbey's bell tower is a landmark, visible for miles in the Fraser Valley.

ITINERARY

- 8:30 AM—ARRIVE AT THE PLANETARIUM PARKING LOT, BOARD COACH (BYO COFFEE IF YOU WISH) (NOTE THE USUAL PROBUS PARKING CARD WILL NOT BE AVAILABLE FOR USE—PAY PARKING ONLY)**
- 9:00 AM—COACH DEPARTS FOR STAVE FALLS**
- 10:30 AM—ARRIVE FOR DAM MUSEUM TOUR**
- 12:30 PM—DEPART FOR MISSION SPRINGS MICRO-BREWERY**
- 1:00 PM—BUFFET LUNCH AT BREWERY**
- 1:45 PM—DEPART FOR WESTMINSTER ABBEY**
- 2:00 PM—TALK AND TOUR OF THE ABBEY CHURCH, WALK IN THE GARDENS TO THE LOOKOUT**
- 4:00 PM—COACH DEPARTS FOR RETURN TRIP**
- 5:30 PM—ARRIVE BACK AT THE PLANETARIUM**

DUE TO PARKING COSTS, IT MAY BE ADVISABLE TO ARRANGE SOME CAR-POOLING

REGISTRATION

Register online with PayPal (preferred) OR

At Activity Desk at Probus meetings on March 12 and April 9, by cheque or cash OR

Mail this registration form to Chris Finch, 105-5760 Hampton Pl, Vancouver, BC. V6T 2G1 enclosing cheque

Additional information: Richard Earthy at rdearthy@gmail.com or Chris Finch at cafb@shaw.ca

Deadline for registration: May 4. **Deadline for cancellation** May 4 unless another registration available.

Name: _____ E-Mail _____ Phone: _____

of Guests: _____ Cheque enclosed for: _____ Cash enclosed for: _____

NOTE: YOU ARE REGISTERED WHEN PAYMENT IS RECEIVED