

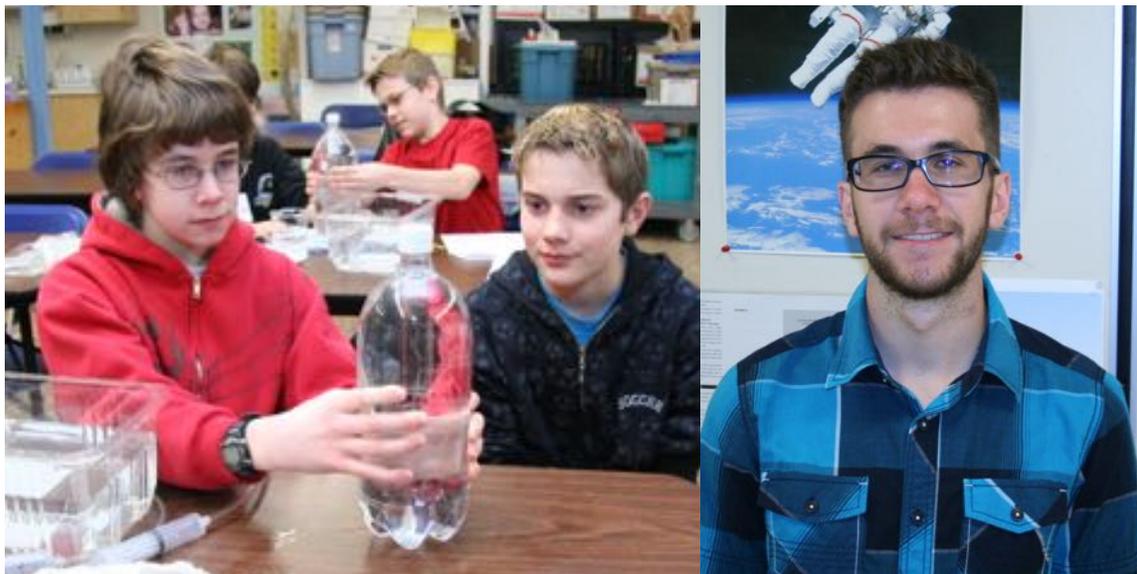
Newsletter 360 BIG Little Science Centre June 2019

BIG Science

EDITOR's E-Mail: gordongore0@gmail.com

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Erik Bonderud (left) in 2009...and in 2019 (right, *Gord Stewart Photo*)



You really can lift all those books if you have strong lungs and a baggie.

Erik Bonderud first visited the science centre about 10 years ago. Now he has a degree in Engineering.
Story inside.

BIGScience

This Newsletter is a publication of **BIG Little Science Centre Society**.

Mailing Address Box 882 Station Main Kamloops BC V2C 5M8

Location: 655 Holt Street Kamloops BC V2B 5G2 **Website** <http://blscs.org>

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Back issues of BIGScience can be viewed at <http://web.blscs.org/newsletters> .

The **BIG Little Science Centre** is open to the public at these times:

Tuesday to Saturday 10:00 AM to 4:00 PM

CLOSED SUNDAYS and HOLIDAYS

Phone: 250 554 2572 **E-mail** Gord@blscs.org or Susan@blscs.org

A family membership is \$70.00/year. An individual membership is \$45.00/year. A family membership consists of five directly related people. (This includes any combination of grandparents, parents and children).

The Main Benefits of Membership:

Member ID cards for all members

Free entry to our Exploration Room, events, shows and activities

FREE or DISCOUNTED admission to MOST Canadian science centres, including Science World and the H.R. MacMillan Space Centre in Vancouver

Discounts for Science and Robotics Camps/Clubs in Kamloops

Voting privileges at the BIG Little Science Centre's Annual General Meeting

Visit our website blscs.org for more details on the benefits of membership.

Drop-in Visit Information

Day rates are: Adults (16 to 59) **\$6** Seniors (60 plus) **\$4** Youth (6 to 15 years old) **\$3** Family **\$15**.
Children 5 years old or younger) **Free**

What is a Drop-in Visit?

During drop-in times our hands-on rooms are open for visitors to tour at their leisure. The rooms have approximately 140 stations of hands-on activities to try. We also have an activity or show running Saturdays!

Drop-in Visiting hours

- Tuesday - Saturday 10:00 - 4:00
- Check Facebook or twitter for the latest information.

For safety purposes we require children under age 16 be accompanied by a minimum number of supervising adults: For children 4 years old and under, 1 adult per every 3 children is required.

For children 5 years old to 9 years old, 1 adult per every 5 children is required.

For children 10 years old to 16 years old, 1 adult per 10 children is required.

The BIG Little Science Centre is Closed Sundays and Holidays.

Looking for an awesome place for a Birthday Party or Event? Give us a call to discuss the possibilities!
Contact Susan Hammond: Email susan@blscs.org or telephone 250-554-2572.



June 2019

Science Centre Programming

BIG Little Science Centre is open year round:

Tuesday to Saturday, 10am to 4pm

The Exploration Room is open 10am to 4pm, with over 140 different exhibits to enjoy. Special shows and activities run at the centre: daily July/August; and Saturdays in the school year. All activities are included with the standard entry fee, unless otherwise stated.

Full activity information is on our website Calendar (blscs.org).

Pond Study

Saturday June 1, @ 11am and at 1:30pm

Use hand lenses and microscopes to discover life in a pond. Join us to discover what lives in a pond. Get up close and personal with some super cool creatures.

Amazing Magnetism Show

Saturday June 8, @ 11am and at 1:30pm

Discover and explore the amazing world of Magnetism. Along with super fun interactive demonstrations, everyone will learn some "magic" tricks to take home to amaze and amuse their family and friends.

Dinosaur Day

Saturday June 15, from 10am to 3pm

Join us for cool dinosaur fun. Learn about dinosaurs: see and handle fossils, make dino rubbings, games, hear and share dino jokes, participate in a dinosaur scavenger hunt, make a mini dinosaur, and more!

Physical Forces and Motion Show

Saturday June 22, @ 11am and at 1:30pm

A Force is a push or a pull. Be astounded at how different forces work to create some super fun movement. Everyone will be moving and causing movement during this show!

Super Static Electricity Show

Saturday June 29, @ 11:00am and at 1:30pm

An interactive, fun show that introduces static electricity and explores how it works. Using van de Graaff generators we make the hair fly. Is it time for your science centre hair-do?

Looking for an Amazing Summer Camp?

BIG Little Science Centre has camps filled with interactive, super fun science.

Join us for: Robotics Camp, WOW Camp, and STEM Camp.

Different camps are for younger and for older children.

Full information is on our website: blscs.org

Sign up in person, email, or by phone. These camps are filling quickly.

Need an awesome place for a Birthday Party or Event?

Give us a call to discuss the possibilities.

For more information please contact Susan Hammond:

susan@blscs.org, or call 250-554-2572.

Where Are They Now?

Gordon R. Gore

The **BIG Little Science Centre** has existed for nearly 20 years now. (It started as one-room science centre at **David Thompson Elementary School** in January 2000.) One often wonders what happened to many of the frequent visitors, volunteers and/or summer student employees since they spent time with us at the centre.

One of those young people was **Erik Bonderud**. Erik is graduating this month with a Civil Engineering, degree from the **University of British Columbia**. Erik will be working for the City of Vancouver.

Ten years ago, Erik was one of a special group of very keen science students from Parkcrest Elementary School, who visited the centre once a month with teacher **Barbara Berndt** for special sessions designed just for them. I was still active with the centre then, and with **Gord Stewart** and **Susan Hammond**, we tested out many different activities with this group. I knew that they would give my open-ended ideas a good try and add many clever additions to my 'recipes'. They were a joy to work with.

One of those sessions dealt with pressure, and I was able to locate some archival photos of the activities this group did that day. (It was a classic!)



Left: Water pressure Vs Air Pressure! *Right:* Yes, you CAN lift these books with a baggie and good lungs!



Pneumatic pressure! If everyone blows into their bag simultaneously, there is enough upward force to lift the table and the volunteer sitting on top of it!



These members of the **Parkcrest Elementary** crew just had to test out Pascal's Law in a big way. Push on any one of the joined syringes, and all the others should move. (They did!)



Barbara Berndt's Parkcrest crew were a joy to work with. We provided a basic procedure to follow, but we allowed these creative kids to find out "What would happen if...? Watching them and listening to them think aloud, I remember thinking, "This is what this place is all about."

Throughout secondary school and university, Erik often helped as a volunteer or as a summer employee.

Thanks for the memories, Erik and your mates. We would love to hear from others who were in that very special group 10 years ago.

STEM SUMMER CAMP [2018]



Get Scientific with STEM Camp

Join STEM Camp at the BIG Little Science Centre (BLSC)

July 22–26, 9 a.m.–3 p.m.

For ages 11 and up, with an interest in science.

STEM = Science | Technology | Engineering | Mathematics

What It Is:

STEM Camp introduces science curriculum through fun, hands-on activities designed by Dr. Gordon R. Gore, the retired science teacher who started BLSC, and led by Thompson Rivers University (TRU) STEM teacher-candidates.

Who It's for:

Students of age 11 and up are eligible for the STEM Camp.

How It Works:

Students register using the BLSC camp registration form found at the BIG Little Science Centre or on the BLSC website.

- Camp is 'first come first served'.
- Cost of the STEM Camp is \$100 for the week (\$10 discount for BLSC members)

Who Sponsors It:

STEM camp is partially sponsored by TRU.

Lecture Series at BIG Little Science Centre Sponsored by the Kiwanis Club of Kamloops

These lectures are for older children and adults. Entry is by donation.
Refreshments will be served.



Book Launch, Reading, and Book Signing for "A Bee Named BOB." Wednesday May 29, at 6:30pm BIG Little Science Centre is delighted to present **Master Gardener, artist, and author Elaine Sedgman** at her book launch for an **engaging new children's book about native bees**. This story book is full of information about Blue Orchard Bees (BOB), their adventures and life cycle. Sure to be a **practical teaching tool** for librarians and teachers, this beautifully illustrated book will be a **hit for children** of all ages. Children are welcome for this interactive launch, with games and snacks available.

Science in Film Production, Wednesday June 19, at 7:00pm

Joris Ekering will cover many aspects of the world of film, answering questions such as "**How do they do that?**" and "**How come I feel this way?**" Through examining frame rate, camera position, lighting principles, green screen work, other special effects, and even the psychology of directing, we will discover secrets behind the making of movies. **For anyone interested in film and the work involved in making them.**

Understanding Behaviour and Personal Planning, when involved with people with Dementia. Thursday June 27, at 6:30pm

Tara Hildebrand, Support and Education Coordinator for the Alzheimer Society of B.C. returns for this final lecture on working and living with people with dementia. Learn how behaviour is a form of responding to outside stimuli, and **explore ways to decrease the occurrence of behaviours that concern us**. Learn the importance of early planning, review the documents that need to be considered, and look at strategies to ensure the person living with dementia's wishes are honoured. Questions welcome. **For everyone** whether you are directly caring for someone or interacting as a family member or friend.

Many thanks to our sponsors, the Kiwanis Club of Kamloops. Doors open 30 minutes before an event. Refreshments are included. Entry by donation, no matter how much. We would love to have you here with us for these presentations.

BIG Little Science Centre

Location: 655 Holt Street, Kamloops, BC, V2B 5G2

Mailing Address: Box 882 Station Main, Kamloops, BC, V2C 5M8

(250) 554-2572

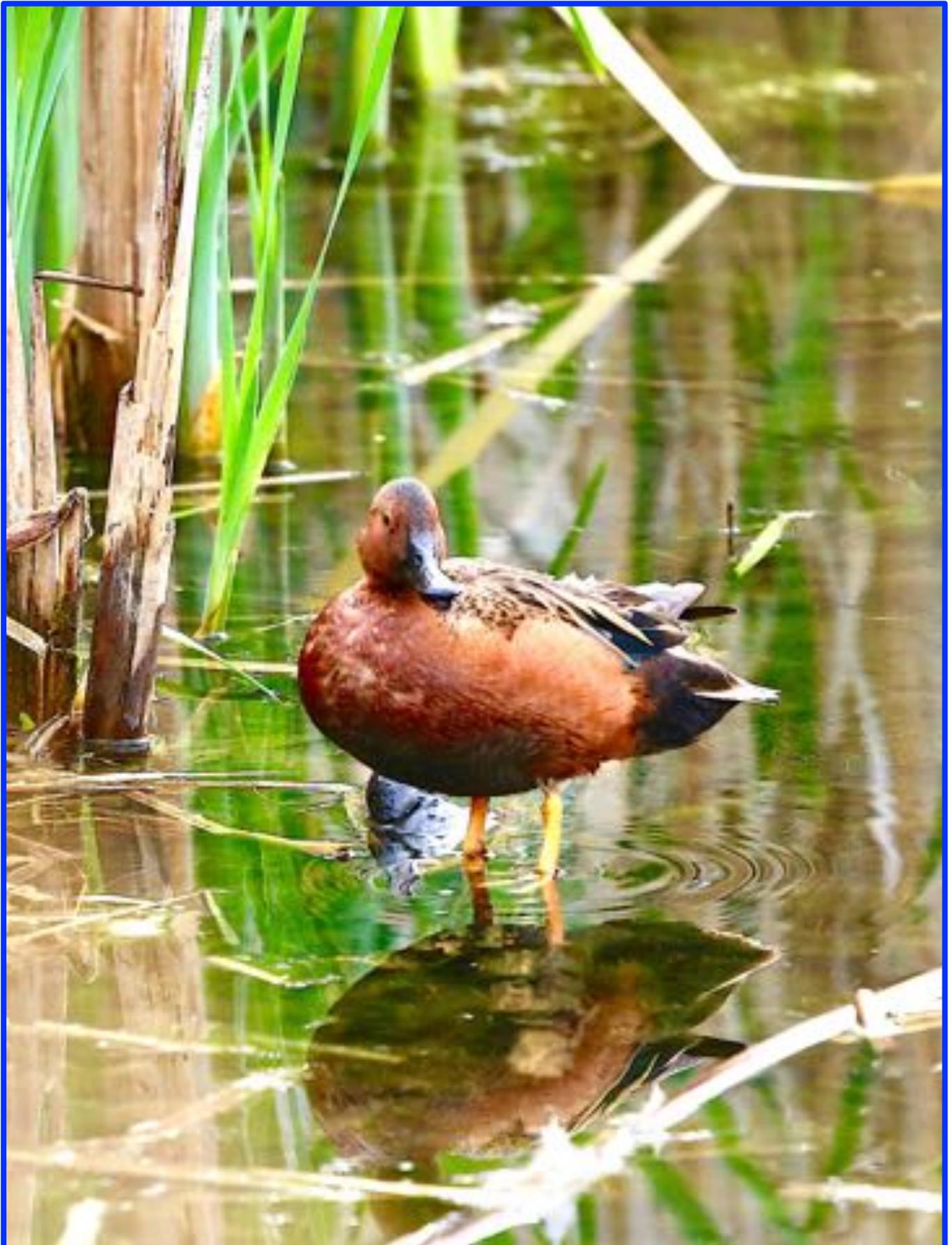
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www.blscs.org

'Bubble Saturday' at The BIG Little Science Centre

Photos Contributed





Male Cinnamon Teal in a Pond at The Dunes Golf Course