

Newsletter 334 BIG Little Science Centre June 2018

# BIG Science

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*Gordon Gore Photo*

## **Rainbows over Strawberry Hill**

*Monday June 4 2018, 8:38 PM.* I glanced out my window at The Hamlets in Westsyde Monday evening and saw this beautiful double rainbow over the mountainside. From my sundeck I captured this photograph using a wide-angle lens and my trustee Canon camera. One wonders at which end is the pot of gold? The image disappeared before I could find out. (I have the same luck with Lottery tickets.)

# BIGScience

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

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**Back issues** of **BIGScience** can be viewed at <<http://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](mailto:Gord@blscs.org) or [Susan@blscs.org](mailto:Susan@blscs.org)

*A family membership is \$60.00/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, 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](http://blscs.org) for more details on the benefits of membership.

### Drop-in Visit Information

**Day Rates: 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 that 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.**

For more information please contact Susan Hammond: [susan@blscs.org](mailto:susan@blscs.org), or call 250-554-2572.  
BIG Little Science Centre reserves the right to substitute alternate programming if needed.

## Science Centre Programming Spring and Summer 2018

The 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 the website calendar.**

### **Saturday June 9: Super Static Electricity Show, at 11am & 1:30pm**

An interactive, fun show that introduces static electricity, explores how it works and produces static in many ways, including using Van de Graaff generators. Is it time for your science centre hair-do?

### **Saturday June 16: The Amazing Magnetism Show at 11am and 1:30pm**

A fun show that explores magnetism and gives you some magnetic magic tricks to try out at home!

### **Saturday June 23: Awesome Air Pressure Show, at 11am & 1:30pm**

Air is a force of nature that demands respect; join us for this interactive show to learn why.

### **Welcome to SUMMERTIME**

### **Friday June 29 and Saturday June 30: Build and Test a Boat, 10:30am to 3:30pm**

Get a start to summer by designing a foil boat and testing it in our pool. Loads of learning while trying to support as much weight as possible in your very own boat.

### **KEVA Blocks & LEGO construction materials, 10am to 4pm**

Inside in the cool air continue the construction theme using LEGO and KEVA blocks. Use your imagination to create your own structures right in front of you.

## **Camps at BIG Little Science Centre, Summer 2018**

Camps that include movement, science exploration and experimentation, construction, and loads of hands-on fun are always how we share science with your children. Sign up now for a week (or more) of summer science awesomeness. Camps run daily from 9:00am to 3:00pm, for a week at a time. Cost is \$180 per week, members receive a \$10 discount. Registration form is attached.

### ***Super Wow Science Camp:***

***Week 1 from July 9 to 13***

***Week 2 from August 13 to 17***

***Enjoy hands-on science activities mixed with games, experiments, crafts and art.***

*Bubbles, rockets, chemistry, crystals, dinosaurs, volcanoes, treasure maps, puzzles/mysteries, roller coaster construction, Zorbs, and much more!*

*Each week contains different activities and most requested favourite activities, allowing children to participate twice over the summer.*

*Active science learning allows a child's brain to discover the world around them while their body is busy. Fun STEAM (Science, Technology, Engineering, Art, and Math) science at its best.*

***For ages 5 and up. Children must have completed Kindergarten.***

### ***Summer Robotics Camp:***

***July 30 to August 3***

Robotics Camp is a favourite camp that is for children who like to design, build, and program their own robots. Using the Mindstorms LEGO robotics systems, campers will create their own works of art/science and put them through their paces. Learn how to go fast, be strong, use sensors, run mazes, and much more. Extra coding opportunities and games will be included to help campers create the ultimate robots! Outdoor fun will include the water slides and Zorbs and more.

For ages 9 and up.

See you this summer for wonderful interactive science fun.

Susan Hammond Assistant Operator, BIG Little Science Centre 250-554-2572 [susan@blscs.org](mailto:susan@blscs.org)

## Dr. Clifford ('Kip') Anastasiou, Science Educator (1929 to 2018)



**'Kip' Anastasiou with His Beloved Wife, Joan  
[Photo taken in 2010 during a visit to Kamloops]**

Many retired science teachers will remember '**Kip**' **Anastasiou**, who was a professor of science and education at UBC for 32 years. Earning his PhD in Botany, Kip championed hands-on science learning not only in British Columbia but worldwide. He helped develop science curricula for Commonwealth African nations, assisted Piaget's program in child development in Geneva, and trained science teachers in Malaysia for Peace Corps. At UBC he ran a publishing house for science units and taught science courses to First Nations teachers. In recent times Kip contributed dozens of fascinating articles on famous scientists for **BIGScience**, this newsletter.

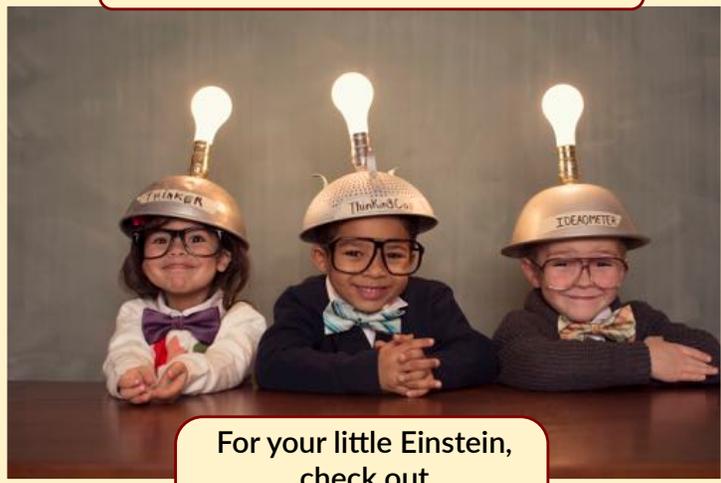
At home in Bowen Island, Kip presented lectures on science and famous scientists for seniors.

Personally, I shall miss Kip's unflinching moral support of my own efforts to promote 'hands-on' science in British Columbia.

Kip passed away on May 14. Sincere condolences to Kip's wife **Joan** and to his family and friends.

*Gordon Gore*

## Kamloops City Library Notice



For your little Einstein,  
check out  
**ScienceFlix**

For more information, contact your library staff.  
[www.tnrl.ca](http://www.tnrl.ca)



## School District 73 (Henry Grube) Library Notice



**Henry Grube Library** has put together a new kit for primary students, which includes an assortment of 66 books covering robins, ravens, bald eagles, ducks, nests and eggs, water birds and other topics related to the life of birds. Five of the sample books in the above sample photo are by Gordon Gore, founder of the BIG Little Science Centre. For full information, see <<http://media2.sd73.bc.ca/htbin/wwform/252?t=37854>> .

# An Osprey Mystery

*Gordon Gore*

No one can see inside the osprey nest on the 7th fairway at The Dunes. There is no higher spot that permits us to look into the nest. We can only guess what is happening based on what comes and goes to the nest. Oscar and Oprah arrived on schedule this year, on April 4. They have been carefully tending to 'something' in the nest. Until a week ago, there was always one adult in the nest, which we assumed was waiting for eggs to hatch.



**May 22**

One puzzle was a mysterious third adult that seemed to keep hanging around. It would fly right to the nest, and one of the parents-to-be would chase it away.

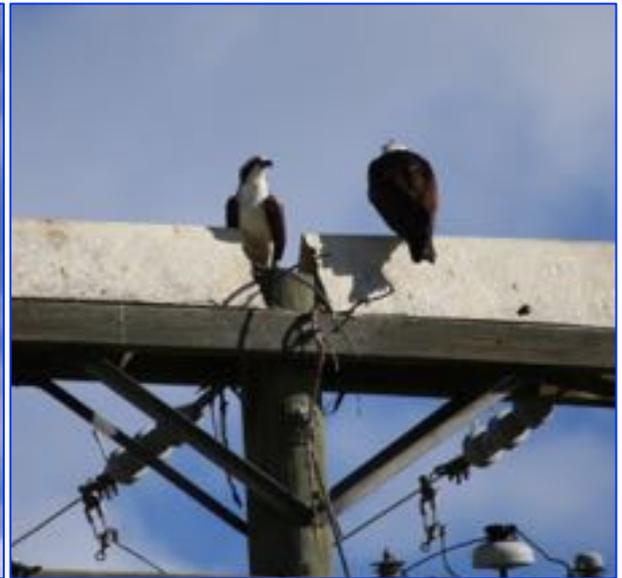


**May 29:** Everything appeared 'normal'. One adult stayed in the nest, presumably sitting on the eggs; the other nearby watching the nest, occasionally bringing in a fish. This is about the time we usually hear the babies and maybe see a little head poke up.



**May 31 (left):** Oprah is sitting on the BC Hydro power pole, about 20 m away from the nest, which is atop a slightly higher pole inserted by BC Hydro. She looks awful! On the ground below the nest, there is freshly fallen debris, evidence of some sort of catastrophic event happening at the nest the previous night.

**June 2 (right) until June 4:** Oprah is on the power pole and stays there, looking injured. Oscar desperately tries to help his life mate by bringing fresh branches in an attempt to make Oprah a new nest on the power pole! Up to this time she will not or cannot move.



**June 4:** Oscar brings in a branch to build a new nest for Oprah, who has not moved from the power pole for several days. The branches simply slide off the sloped 'tent' structure purposely built by BC Hydro for the birds' protection.

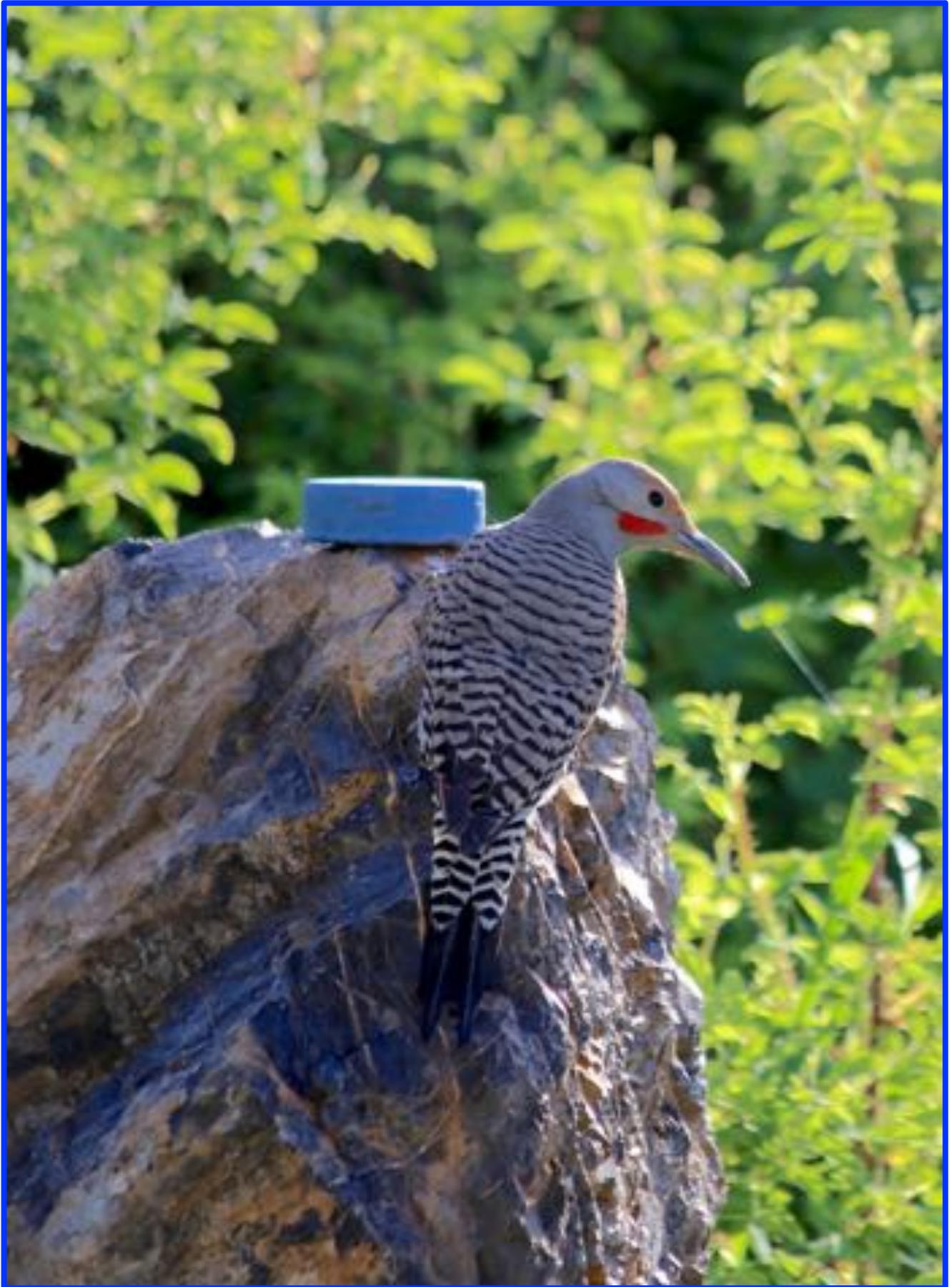


**June 5:** Oscar probably brought a fish for Oprah to eat. As I watched them that morning, Oprah took flight and flew over to the trees by the river and back. What a relief!

From a distance, I later saw them both in the nest, and later one in the nest and one on the power pole.

There is no evidence that the young have survived whatever happened on the night of May 31. Will the pair try again, or will we have to wait until 2019 to see a new family for Oscar and Oprah?





**Flicker on Dunes Drive in Westsyde**