



Belcarra Barnacle

September 2020

Belcarra's Community Newspaper

Volume 41 Issue 7





Published ten times yearly by

THE BELCARRA BARNACLE.

Our purpose is to inform and involve.

The Barnacle welcomes all contributions about our local community.

If you would like to submit an article to the Editor, please be advised that your name will be listed as the author.

We also reserve the right to edit for brevity, accuracy, clarity or taste.

Photos and original art will be returned if requested.

HOW TO REACH US:

Put submissions in the Barnacle Box outside the Village Office.

Mail: The Belcarra Barnacle, 4084 Bedwell Bay Road, Belcarra, B.C. V3H 4P8.

E-Mail: belcarrabarnacle@gmail.com

For Out of Town Delivery:

The Belcarra Barnacle is available for mail, for \$20.00 per year to cover mailing expenses. Please send cheque and mailing information.

DEADLINE: The 20th of each month.

VOLUNTEERS:

Editor:

Michelle Montico 604 528 0659

Advertising:

Sandra Rietchel 604 931 4262

Members:

Treasurer and Distributor:

Clive Evans 604 931 7396

Nora Boekhout 604 937 1127

Deborah Struk

Bonni Marshall

Isabel Wilson

Michele Babineau

ON-LINE: www.belcarra.ca

Words from the Editor:

Welcome to your Community Newspaper!

Thank you all for your continuing support of your local newspaper by sending us photographs and articles.

Please remember that the deadline for submissions is the 20th of the month!

Thanks to the residents who contribute, to the residents who proofread & to all residents who read the Barnacle!

Michelle Montico, Editor
(604 528 0659)

belcarrabarnacle@gmail.com

ADVERTISING RATES: (Ads must be copy ready)

	Per Month (In Advance)	5 Issues (In Advance)	10 Issues (In Advance)
<u>Black and White</u>			
Card (2" x 3")	\$20	\$75	\$120
1/4 Page	\$25	\$90	\$150
1/2 Page	\$50	\$200	\$300
<u>Colour</u>			
1 Page (Back Page)	\$225	\$1000	\$1900
1 Page (Centre)	\$200	\$900	\$1750
1/2 Page (Centre)	\$150	\$700	\$1400

Classified ads are free for Belcarra Residents.
Please send ads by e-mail in PDF, jpeg, or tif format to

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Sandra at 604 931 4262 or srietchel@shaw.ca

BELCARRA DIRECTORY

Belcarra Village Hall	604 937 4100
Belcarra Website	www.belcarra.ca
Block Watch	Carol Drew 604 937 0143 Diana Drake 604 939 4946
CRAB	Dave Warren 604 939 3010
Vol. Fire Dept.	Jay Sharpe 604 765 2944 jay.sharpe@anmore.com
SVFD Recruitment:	sasamatrecruitment@gmail.com
RCMP - Non-Emergency	604 945 1550 or 604 469 1599

IMPORTANT DATES

Sept 1st	Full Moon
Sept 7th	Labour Day
Sept 14th	Public Hearing @ 5pm Council Meeting @ 7pm
Sept 17th	New Moon
Sept 24th	Town Hall Meeting
Sept 28th	Public Hearing @ 5pm Council Meeting @ 7pm
Oct 1st	Full Moon
Oct 12th	Thanksgiving Day!
Oct 13th	Council Meeting
Oct 14th	Belcarra Garden Club
Oct 16th	New Moon
Oct 26th	Council Meeting
Oct 29th	Town Hall Meeting
Oct 31st	Full Moon
Oct 31st	Halloween!



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DATES FOR 2020

All public meetings will be cancelled until
further notice...

Council meetings are held at 7:00 p.m. -
9:00 p.m. at the Village Hall

Please check Village website for more
information.

4084 Bedwell Bay Road

Coffee / Tea with Mayor is cancelled until
further notice.

COVER ART

Our front cover features a photograph
submitted by Deborah Struk (see article
on page 16) of Dan Greenwood from
Boulder Island.

Photo credit to Originelle Designs
Photography.

Do send your favourite local photos and
artwork to the Barnacle.

It is a pleasure to share them.

belcarrabarnacle@gmail.com



VILLAGE OF BELCARRA

"Between Forest and Sea"

4084 BEDWELL BAY ROAD, BELCARRA, B.C. V3H 4P8

TELEPHONE 604-937-4100 FAX 604-939-5034

belcarra@belcarra.ca • www.belcarra.ca



Residents & Owners Email Notification Request Form - 2020

Village staff do their best to keep our residents / owners advised of Village business and events through mail drops, the Village website (www.belcarra.ca) and Council meetings.

Village staff are adding email notifications to the way residents are notified of events in the Village. Fill in this form if you would like to receive email notifications.

Please Print:

Date: _____

Address: _____

Name (first & last): _____

Contact email addresses: (add additional names and email addresses on the reverse side)

Name: _____ Email: _____

Name: _____ Email: _____

Please email this form to Paula Richardson, Municipal Coordinator, prichardson@belcarra.ca or drop it off at the Village Hall located at 4084 Belcarra Bay Road.

Select the level of notification communication you would like:

☐ **Level 1:**

- Emergency & urgent information

☐ **Level 2:**

- Emergency & urgent information

- General news alerts

To change your notification level, please submit a new request form. To cancel receiving notifications, please email prichardson@belcarra.ca to advise.

Note: a test email will be sent to all emails listed above within ten (10) business days of receiving this form. If you do not receive a confirmation email, please contact the Village Hall to confirm that we have the correct email address(es) on file. Please also check your spam and junk email folders.

All information collected by the Village is done so in accordance with the "Freedom of Information and Protection of Privacy Act".



VILLAGE OF BELCARRA

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CONFIDENTIAL **RESIDENT CONTACT INFORMATION**

(As per Bylaw No 497, 2016 Business Language and Contact Information Requirements)

Date: _____

Resident Name: _____

Belcarra Address: _____

Other Address: _____

Home Phone: _____ Cell Phone: _____

Email: _____

EMERGENCY CONTACT INFORMATION – if you are away and/or out of the country

Contact Name: _____

Contact Phone #: _____

Contact Email: _____

☐ Please check this box if you approve of the Village sharing your information with Block Watch.

Please mail or drop off the completed Resident Contact Information form to:

- Village Office, 4084 Bedwell Bay Road, Belcarra, BC V3H 4P8
- Or email: belcarra@belcarra.ca
- Call 604-937-4100 if you have any questions

"Home owners are requested to complete the 'Resident Contact Information Form' and return it to the Village Office. Bylaw 497, 2016 was passed, in part, to ensure that up to date contact information is provided to the Village. This greatly assists staff to be able to contact the owner or agent when there is an emergency or an issue with the property and the owners are absent."



As your representative in Victoria
I'm here to help



Rick Glumac, MLA
 for Port Moody-Coquitlam

Rick.Glumac.MLA@leg.bc.ca | 604.417.0490



RickGlumacBC

The Belcarra Barnacle would like to know how many of our residents enjoy the printed issues that are made available at the Village bus stops?

Now that the Belcarra Barnacle is on the new Village website we are unable to ascertain how many residents view online, so please let us know how you enjoy your local newspaper!

"Are you one of those residents who have yet to visit the new Village website online?

You really should!

www.belcarra.ca

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Belcarra Blockwatch

Submitted by Diana Drake and
Carol Drew

Going to school this Fall has many new challenges because of Covid-19, but many other challenges remain the same. Safety on the road is one such constant, both for adults and students alike.

Please, everyone, familiarize yourselves with the school zones in our neighbouring communities and remember to watch your speed.

School zones:

30km/h from 8:00am to 5:00pm - Monday to Friday.

Playground zones:

30km/h from dawn till dusk, every day.

Be prepared for lengthier periods of vehicle activity around schools. Drop off and pick up times are now staggered due to Covid-19 and the need to minimize the size of student groupings.

School buses are running again too, so please remember:

- both lanes of traffic **MUST** stop when school bus lights are flashing
- to watch for children walking along roadsides and/or waiting for buses.

As there are no school buses servicing Belcarra, some students will be travelling on Transit:

- please be cautious when approaching a stopped shuttle bus. Slow down!
- sometimes shuttles will stop ahead of crosswalks. Students should be reminded to wait until both lanes are fully visible before crossing.

Distracted driving is a major factor in car accidents throughout the province.

- www2.gov.bc.ca cites "distracted driving as the second highest contributing factor to motor vehicle fatalities in B.C."

- over 9500 people are using electronic devices, at any one time, while driving.

"Of those 40% are drivers texting behind the wheel." So:

- please, if you are driving, keep food, make-up, electronic devices, pets etc. out of the way until safely parked!

Here's to happy, safe school days ahead!



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Submitted by Ian Devlin

Water System Capacity for Fire Protection Committee – Technical Brief #1
Information Letter to Attention of Mayor and Council

Council needs to be aware of issues that are of upmost concern to the Water Committee from the recently tabled 2019 Annual Belcarra Water Report. This report included information that the Water Committee feels they must flag to the attention of Belcarra Council and the residents:

- 1) Two critically important valves that are designed to maintain the safety of our water supply have been altered significantly in function. There does not appear to be any documentation, who made the decision to change valve setting or to disable the seismic valve at Tatlow tank AND there is no documentation as to the date that these changes were implemented.
- 2) A review of data included in the Annual Drinking Water Reports from 2013 to 2019 has been completed and appears to indicate excessive leakage somewhere in Village of Belcarra distribution pipes.

This information illustrates why a Village of Belcarra Water System Manual along with a SCADA Operational Manual are so important. The manual needs to describe what these valves do for the safety of the water system and include information on the authorization procedures for making ANY changes to the settings or installation of the valves.

1) **Actuated altitude valve at the Tatlow Reservoir**

The information in the 2019 report indicates:

Installation of an actuated altitude valve at the Tatlow Reservoir was completed and put in service in November of 2017. The ability to start filling the reservoir remotely or manually on demand, improves water availability for firefighting with the ability to quickly adjust water levels. The mechanically actuated altitude valve settings were adjusted in 2019 to better balance the water quality and quantity. The current high setting is 95%, the current low setting is at 55% which is below the nonadjustable altitude valve setting of 60%. During firefighting conditions, the low setting of the actuated valve gets moved to 80% in order to help prevent the water tank from running too low.

The information that the Water Committee received after the fire at Turtlehead was that the low setting was raised to 80% (reference: Belcarra Barnacle, Volume 39 Issue 6, page 6, Fire and Water, Bruce Drake) to ensure that the tank had sufficient volume of water for fire fighting. The resulting risk from lowering the low water setting on the Tatlow Tank may be a good idea for domestic water supply but critical failure volume of water available for fire fighting.

Changing the actuated valve to full open upon a fire callout will add water to the Tatlow tank but the tank will lose water capacity once the fire department starts to use the water on the fire. Thus, it is especially important to maintain the minimum valve setting as high as practical so that maximum volume of water will be available in the Tatlow tank during a fire event. This minimum valve setting is difficult due to the potable system needing to maintain minimum chlorination levels (low setting) and the large volumes for fire fighting not providing proper mixing (high setting as possible).

The reason for wanting a higher low water setting is illustrated in the following table.

Water System Capacity for Fire Protection Committee – Technical Brief #1

Measured maximum capacity of Tatlow reservoir = **244,600 litres** (91.5% of usable volume of 267,310 litres).

Tank at 55% of usable volume = 147,021 litres.

Tank at 65% of usable volume = 173,752 Litres

Tank at 75% of usable volume = 200,483 Litres

Tank at 80% of usable volume = 213,848 Litres

This table indicates the usable volume of water at various low water settings of the value. The Water Committee wanted the Fire Department to have as close to a full tank as possible when they started to fight any fire.

How much time is required to fill the tank based on various water flows from District of North Vancouver water supply?

		Litres	Fill time rate (litres/sec)	20	30	40	60
Measured Maximum tank level:		244,600	Fill time rate (litres/min)	1200	1800	2400	3600
	55% level:	<u>147,021</u>	Fill Time(mins)	81	54	41	27
Litres to fill to Meas. Max level:		97,580					
		Litres	Fill time rate (litres/sec)	20	30	40	60
Measured Maximum tank level:		244,600	Fill time rate (litres/min)	1200	1800	2400	3600
	65% level:	<u>173,752</u>	Fill Time(mins)	59	39	30	20
Litres to fill to Meas. Max level:		70,849					
		Litres	Fill time rate (litres/sec)	20	30	40	60
Measured Maximum tank level:		244,600	Fill time rate (litres/min)	1200	1800	2400	3600
	75% level:	<u>200,483</u>	Fill Time(mins)	37	25	18	12
Litres to fill to Meas. Max level:		44,118					
		Litres	Fill time rate (litres/sec)	20	30	40	60
Measured Maximum tank level:		244,600	Fill time rate (litres/min)	1200	1800	2400	3600
	80% level:	<u>213,848</u>	Fill Time(mins)	26	17	13	9
Litres to fill to M.Max level:		30,752					

The table above illustrates that at the current rate of water flow from DNV it will take 81 minutes to replenish the water in the Tatlow tank when the low water setting is at 55%. This time is significantly shorter (26 minutes) when the low water setting is at 80%. Not the optimum situation but the best compromise for balancing the domestic water supply requirements and the fire fighting water requirements.

2) Seismic valve at the Tatlow Reservoir

The Annual 2019 Water Report indicates:

"Seismic valve at the Tatlow reservoir has been disabled. The sensitivity could not be adjusted to a satisfactory setting and potential damage could occur to the pumping system if the valve got triggered inadvertently."

The seismic valve has been turned off so that the Village will no longer retain a source of water in the reservoir that could be used for fires, which is commonly associated with seismic events. It is alarming to find out this information as this displays a lack of understanding on the critical importance of those valves.

Water System Capacity for Fire Protection Committee – Technical Brief #1

This adjustment occurred after 2-3 years of reporting how sensitive the valve was during operation. A decision was made to decommission this valve in spite of previous years reports indicating how critical this valve was to the operation of the water system from premature emptying of all the water during any seismic event.

2018 Water Report reported that “Installation and monitoring of the Seismic Valve at the Tatlow Reservoir was in full service during 2018. The valve is very sensitive and needed to be cautiously calibrated so that it functions only during a seismic event, thereby closing the reservoir should there be a main failure, to prevent premature emptying. This allows the Public Works to assess any damage and to isolate and/or repair the area, so the water system can be put back into service. This would retain a source of water in the reservoir that could be used for fires, which is commonly associated with seismic events.”

2017 Water Report. Reported “Installation and monitoring of the Seismic valve at the Tatlow Reservoir was initiated and went into full service in 2017. The valve is very sensitive and needed to be cautiously calibrated so that it functions only during a seismic event, thereby closing the reservoir, should there be a main failure, to prevent premature emptying. This allows the Public Works Crew to assess the damage and isolate or repair the area so the system can be put back into service with water still in the reservoir. This would also retain a source of water in the reservoir that could be used for firefighting, which is commonly associated with seismic events.”

3) The Drinking Water Annual Reports appears to indicate excessive leakage in distribution pipes

The 2019 Drinking Water Annual Report indicated that “From January to December 2019, there was 2,554,030 cubic Feet of water consumed (19,105,471 gallons) in Belcarra, this is up from 2018 by 233,145 cu/ft.”

This volume increase in consumption needs to be viewed in the context of increases over previous years consumption and the analysis is pointing towards a leak in the Belcarra distribution pipes.

- Typically, the number of residences connected to the water supply increases by approximately 5 or less per year.
- With a total of 179 residences connected in 2019, this can explain a 2 to 3% yearly water consumption increase which is far less than the recorded average yearly consumption increases of +10%.

			DAYS	M3	LITERS	L/D	L/H	L/M	L/S	% over previous year
2019			365	72322	72,322,000	198142.50	8255.94	137.60	2.29	10.00
2018			365	65748	65,748,000	180131.50	7505.48	125.09	2.08	17.14
DISREGARD 2017	2 FIRES + LEAK		365	89970	89,970,000	246493.20	10270.55	171.18	2.85	
2016			365	56127	56,127,000	153772.60	6407.19	106.79	1.78	17.75
2015	5/1/2015	29/12/2015	359	46881	46,881,000	130587.70	5441.16	90.69	1.51	10.84
2014			358	42179	42,179,000	117818.40	4909.10	81.82	1.36	11.16
2013			345	36567	36,567,000	105991.30	4416.30	73.61	1.23	

Since 2013 there has been a year over year increase in water consumption of about 10% that cannot be simply explained as being increased number of hook-up to the system. This increase in water consumption needs to be investigated.

Stories From The Archives —

Only His Dry Bones

Researched By: Ralph Drew, Belcarra, BC,
September 2020.

Source: Vancouver Daily World, Saturday, November
3rd, 1889, page 1.

Mr. L. Hibbard, contractor, was out hunting the other day in the country back of Tiffin's Mill at Port Moody [Sunnyside, at the mouth of Mossom Creek]. He had penetrated about eight miles [into the area around the north end of Buntzen Lake] when he came across a pick standing in a hole. Searching about in the vicinity, he discovered the bones of a human being. On the end of the pick handle were the letters "WA". The pick was thickly coated with rust, and the bones were all bleached-out, indicating that they had been exposed probably four or five years. Mr. Hibbard thinks, from the appearance of things, some lonely mining prospector in days gone by had been set upon by beasts of prey and devoured, leaving behind only these mournful relics to tell the fate that had befallen him.



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Nelly Shin, MP

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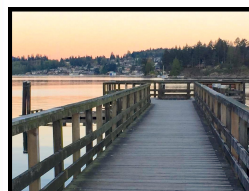


**Please stay safe and healthy.
Together we'll get through this.**

These are unprecedented times. Please reach out to my office by email or phone for assistance. My staff and I are ready to help you through the challenges of the COVID-19 pandemic.

Nelly.Shin@parl.gc.ca
(604) 664-9229

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Due to the pandemic, our physical office will be closed until further notice. Please reach us by phone or email. Thank you for understanding.



Belcarra Garden Club

The founding members in the picture from left to right are, Barbara Shelly, Robert Dutchak, Alyson Wall, Michael Xiao, Mary Begg, Nora Boekhout, Deborah Struk, Betty Lewendon, Les Bramley, Kathy Bramley. (see page 15) Submitted by Nora Boekhout



Western Hemlock Looper Moth

(from Page 17)

Submitted by Diana Drake



Submitted by Nora Boekhout

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VILLAGE NEWS

QUIPS & QUOTES

Submitted by Barbara Shelly

That life comes full circle is illustrated in this quote from 2000 by Carol Shields, winner of the Pulitzer Prize.

Everyone is coming out these days for the pleasures of ordinary existence.

Sunsets. Dandelions.

Fencing in the back yard and staying home.

"The quotidian is where it's at."

p. 156, "Soup du Jour," Dressing Up For the Carnival

Hí fellow Belcarrians.

We would love to welcome new members to our new Belcarra Garden Club!

Plant swapping.

Seed swapping.

Knowledge swapping.

Our next meeting is Wed. October 14th at 4:15pm at the Village Hall.

In case of rain, we will meet at the Belcarra Picnic undercover area.

Meeting Focus:

What's your experience with composting and soil improvements?

Also: more seed/plant swapping so bring yours + envelopes!

Please contact: Les Bramley

email: lesbramley@shaw.ca

phone: 604-937-7103

'Just a Taste':

Recipes from Belcarra Pantries

Submitted by Carol Drew

Like many of you, I am spending 99% of my time at home.

My biggest adventure these days is going grocery shopping.

Preceding my shopping excursion, I spend time looking through a treasure trove of favourite recipes.

I will be posting scanned copies of these recipes with smudges, drips, and notes — as you will see, some of the recipes look like they came from the "Dead Sea Scrolls".

'Just a Taste' will be a regular Barnacle Column, so I ask all of you If you have favourite recipes you would like to share please scan and send them to me at cedrew@shaw.ca

BARNACLE

TRAVELS!

The Belcarra Barnacle invites you to take your local newspaper with you when you travel, send us a photograph of yourself holding a copy of The Belcarra Barnacle and we'll publish your photograph!

GARDEN CLUB

Hí Belcarra!

We had our first Garden Club meeting at the Village Hall car park in August, socially distanced under a sunny blue sky.

The founding members in the picture have set our path for future meetings... our intent is to keep it simple!

We shared our knowledge back and forth, and seeing as we have some people with good experience, we think we should be able to cover most aspects of gardening.

Our next meeting, weather permitting, is Tuesday September 22nd at 4:15 pm.

Come & join us! Bring a chair & enjoy the company of your fellow Belcarrians .

The September agenda was to collect seeds from flowers or vegetables and to trade with each other in preparation for next spring.

We suggest you bring envelopes to take your seeds home.

The founding members in the picture from left to right are,

Barbara Shelly, Robert Dutchak, Alyson Wall, Michael Xiao, Mary Begg, Nora Boekhout, Deborah Struk, Betty Lewendon, Les Bramley, Kathy Bramley.

Thank you to Rob Begg for taking the pictures.

(A special thank you to Les for organizing the Club and bringing us all together! It was a most enjoyable event!)

(See Centre Page for photograph)



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Belcarra Blessings

Deborah Struk

'Enjoy living in Belcarra; paradise this side of paradise'

Hello all! Happy Fall. So very thankful for good health and the rains. Despite Covid and smoke it has been a good summer. It is a huge blessing to stay in place in Belcarra, it is paradise this side of paradise.

I love the giving hearts of so many in our community. First a huge thank you to all those that served, or are serving, on committees in Belcarra Wow! Such expertise and dignity in presenting superb ideas to staff and council in hopes the wisdom of the villagers is heeded. I can't begin to think the volume of volunteer hours put forth on the committees.

The water committee was by far the most qualified and educated. Some of those brilliant residents could have charged a pretty price for their work if hired elsewhere. Thank you to all volunteers for caring about our village.

Yes, it takes a village to nurture a village. It is truly heartbreaking to hear and see verbal attacks. My greatest hope is we can lay down our emotional hackles and barbs, be forgiving and move together for the greater good of our village. Everybody makes mistakes. Forgiveness is necessary for things to move forward. A 'kingdom' divided will fall. We need to forgive and be united.

That is my greatest hope for kind hearts and sound minds to work together for the needs of the village. I don't think anyone disputes we need more water.

Thank you to council and staff. Council puts in many extra hours of their own time and costs. Thank you. We all hope you can work together for our good. You each came into this with the goal of helping the village grow and be on more solid ground. Trusting you will get there. Staff thank you that you have the best interests of this village between the forest and the sea.

A huge thank you as well to each of you whose hearts are giving outside of our village. I had to share this amazing photo of the one and only Dan Greenwood (think fireworks from Boulder Island at Christmas) who is with Boat for Hope. Due to Covid that charity had to improvise and a brilliant fun improvisation it was.

The front page features a photo of Pirate Dan as he entertained the children that came by and participated in 2020 Boat for Hope. Thank you Dan and all those who helped make it happen despite Covid.

Here's the link for the story on this amazing charity event.

<https://www.tricitynews.com/news/photos-pirates-take-over-coquitlam-walmart-rooftop-in-pandemic-reverse-parade-1.24202258>

Have a great fall and here is hoping that Covid 19 comes to a halt soon.

Happy Fall. Blessings of health, wholeness, peace and safety be upon you all.

Western Hemlock Looper moth

Submitted by Diana Drake

If you are wondering what else can happen in 2020, please don't. It seems that lately, every time someone asks that question, we are treated to another (unpleasant) surprise.

This last month, on top of everything else, we have found ourselves dealing with both polluted air and the invasion of the Looper moth.

This has presented a unique dilemma. A Catch 22 of sorts. It's a must to open windows and doors in order to ventilate against the Covid-19 virus. And it is another must to keep them shut so that we need not inhale high levels of smoke particulate, or share our homes with literally thousands of fluttering white phantom strangers.

The sudden boom of the Western Hemlock Looper moth may have had its inception two summers ago. The unusual stretches of hot dry days in '18 and '19 meant trees have been stressed at times for want of water. Needles have been softer and easier for caterpillars to eat. More food means a greater larvae survival rate and voila, moth bonanza.

They are everywhere at the moment. Shake a garden bush, they rise as a single white breath, stare into the void of night from a lighted window, and hundreds of compound eyes stare back at you, boat on Indian Arm and watch, amazed, as thousands upon thousands leave milky spirals of death in your wake.

The outbreak has turned our local forests into a 'bug buffet'. The caterpillars, by the millions, have dined on hemlocks and cedars creating now visible orange streaks of defoliated conifers across the north shore mountains.

The good news is that because of a wetter summer these trees may yet rally and recover. The bad - we might face another onslaught next summer. Outbreaks occur every fifteen years or so and typically last three to four seasons. We are presently in year two.

Positives? Watched at night around garden lights, they are beautiful. Butterfly ghosts of the night, they dip and float on powder grey wings. Their seemingly choreographed ballet includes the cat who leaps, twists and twirls, front paws batting the darkness in a much improved rendition of Cats.

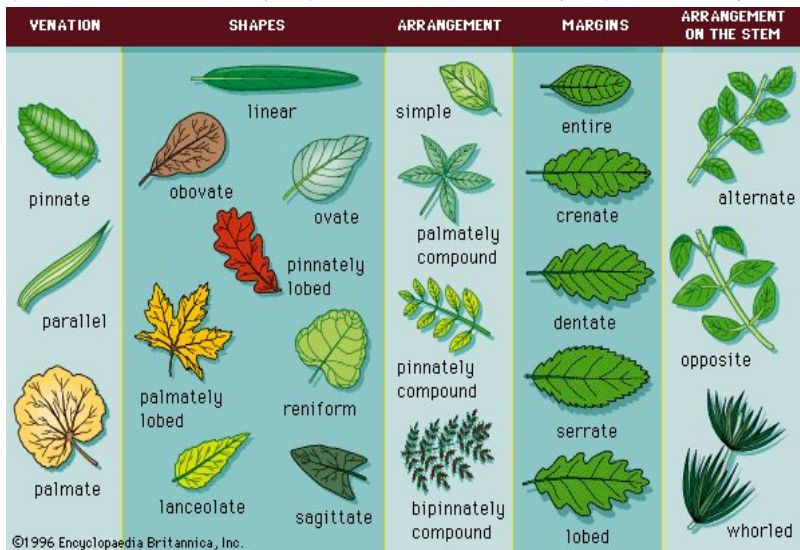
"In all things of nature, there is something of the marvellous." Aristotle

Interesting fact: On the outer surfaces of moth corneas there are nanostructures that allow light to pass into the eye without reflecting back. Thus the moth can see without eyes that shine and entice predators.

The study of this unique adaption has inspired the development of an anti-reflective film for electronic devices. The moth film, as it is called, reduces glare and will allow users to see their screen even in bright sunshine.

(See photo at Centre Pages)

Kid's Space



poster image from: <https://www.britannica.com/science/morphology-biology>

Have a look in your own gardens, and you'll be amazed at Nature's intricate beauty! Leaves are wonderful to sketch, collect, press, and turn into art projects. Add a magnifying glass and you can explore with a "scientist's eye"!

To learn more about fascinating leaves, check out my links at:

http://www.teacherwebshelf.com/naturesclassroom/leaf_patterns/leaf_patterns.html



Nora B.

"The Earth smiles in flowers"
Ralph Waldo Emerson

Fall is such a wonderful time to enjoy the beauty of leaves!

There are so many incredible patterns, shapes, and colours to discover, observe, and describe. Did you know that Mother Nature is an excellent mathematician as well as an artist? Once you start looking, you'll be amazed at the elaborate differences.

Deciduous leaf margins have a variety of edges, with as many names, such as "entire, serrate, crenate, lobed, parted". They can be simple (one blade) or compound (with little leaflets). They can be pinnate (leaflets arranged in pairs on sides) or palmate (arranged outward like the palm of a hand). Veins can also be pinnate, palmate, parallel. Leaves can be attached in different ways too: alternate, opposite, whorled (three together), rosette (a circular arrangement).

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- Building Bat-friendly Communities in BC
- Examples from the Field - Peachland, Richmond, and Kelowna
- Urban Bat Conservation and Integrating Research
- Local Stewardship and Community Involvement in Bat Conservation
- Living with Bats
- Bats and Human Health
- The Goldilocks Approach: Use of Bat Boxes in a Changing Landscape and Climate

- How to Find Information on Important Bat Habitats

In addition to daily video presentations, there will be a moderated, interactive 90-minute online Webex discussion at the end of each week. For complete details, visit the conference web site.

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REGISTRATION FEE IS ONLY \$25

The fee includes access to eight prerecorded video presentations and participation in two online discussions.

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CRAB CORNER

The medical pandemic has forced most of us to modify our lifestyles and CRAB, as well as other organizations, has been challenged to offer the events and programs traditionally provided. In the month of November for Thursday the 5th, a ZOOM site will be advertised on the CRAB fan out inviting the community to observe and hopefully participate in a brief Annual General Meeting. This might be the time for you to express verbally or email your suggestion for future CRAB events. Unfortunately you will have to supply your own snacks and beverages to maintain social distancing protocol.

This year in lieu of a Children's Halloween Party at the Village Hall, Michelle McCarty and her family have designed a unique program consisting of a virtual Halloween Hip Hop Dance party.

Of course there will be a distribution of treats possibly picked up at village hall parking lot or delivered by gnomes to homes of participants. Stay tuned to CRAB fan out for more information including time and a date. Some neighbourhoods may want to pass out treats but masks and gloves are mandatory for those handing out candy.'

Hot Flash:

On Saturday 31st October between 1:30 PM and 2PM children under seven are invited to join Ms Shayla's virtual dance party and from 2 PM to 2:30 those over eight including adults are also encouraged to learn some new 'hip hop' steps on dance party. Prior to high stepping stop by village hall in costume between 12PM -1PM for opt and pickup treats. RSVP to c.r.a.b.4084@mail.com for details of ZOOM.









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Letter to the Editor

During the past year, Belcarra Council has spent much time discussing the sale of Village property which has collectively been identified as road ends. The supports for this interest were multiple. Those supports included opinions about the financial health of the Village and more specifically the Village's debt burden, ongoing expenses, and future capital costs.

Since our current Council's first meeting in late 2018, much has happened and all of us have been able to learn a great deal about the financial management of our Village.

The 2018 Year End Financial Statements provided the details of a Village with good financial health, left to us by the outgoing Council and administration. The Village was not "broke". The debt burden was manageable and the interest rate low.

Current Council has put in place gradual increases in annual taxation. This adds to our year over year revenues.

No new capital projects have been introduced. This allows for our increasing annual revenues to be added to contingency funds so that, if and when, new capital projects are proposed or unforeseen capital needs occur, such as say, in a road failure; we have means to act appropriately and quickly.

The 2019 Year End Financial Statements, presented to Council this week past, support the Village's continuing and improving financial health.

At this time, there appears to be no need for our Village to sell any Village assets.

I am of the opinion that we should not move forward with the sale of our Village's road ends. We should immediately stop any further expenditures on this process. We should consider alternative uses for these assets.

Klaus Bever



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October 2020 Tide Tables

Day	High	Low	High	Low	High	Phase	Sunrise	Sunset
Thu 01		12:51 AM 2.11 m	6:35 AM 4.00 m	12:53 PM 1.75 m	7:10 PM 4.32 m	Full Moon	7:12 AM	6:48 PM
Fri 02		1:26 AM 1.88 m	7:18 AM 4.05 m	1:25 PM 1.97 m	7:30 PM 4.26 m		7:13 AM	6:46 PM
Sat 03		2:00 AM 1.67 m	8:01 AM 4.08 m	1:55 PM 2.23 m	7:46 PM 4.20 m		7:15 AM	6:44 PM
Sun 04		2:32 AM 1.50 m	8:44 AM 4.09 m	2:25 PM 2.48 m	8:00 PM 4.15 m		7:16 AM	6:42 PM
Mon 05		3:04 AM 1.38 m	9:28 AM 4.10 m	2:57 PM 2.72 m	8:15 PM 4.09 m		7:18 AM	6:40 PM
Tue 06		3:36 AM 1.31 m	10:17 AM 4.11 m	3:35 PM 2.95 m	8:30 PM 4.00 m		7:19 AM	6:38 PM
Wed 07		4:09 AM 1.30 m	11:11 AM 4.11 m	4:20 PM 3.15 m	8:47 PM 3.90 m		7:21 AM	6:36 PM
Thu 08		4:46 AM 1.33 m	12:16 PM 4.12 m	5:16 PM 3.31 m	9:11 PM 3.78 m		7:22 AM	6:33 PM
Fri 09		5:31 AM 1.38 m	1:29 PM 4.15 m	6:32 PM 3.38 m	9:56 PM 3.64 m	Last Quarter	7:24 AM	6:31 PM
Sat 10		6:31 AM 1.43 m	2:36 PM 4.21 m	8:03 PM 3.32 m	11:28 PM 3.52 m		7:25 AM	6:29 PM
Sun 11		7:44 AM 1.44 m	3:32 PM 4.29 m	9:17 PM 3.12 m			7:27 AM	6:27 PM
Mon 12	1:24 AM 3.52 m	8:59 AM 1.38 m	4:18 PM 4.36 m	10:11 PM 2.84 m			7:28 AM	6:25 PM
Tue 13	3:01 AM 3.65 m	10:04 AM 1.32 m	4:58 PM 4.43 m	10:58 PM 2.48 m			7:30 AM	6:23 PM
Wed 14	4:18 AM 3.86 m	11:00 AM 1.32 m	5:33 PM 4.48 m	11:43 PM 2.07 m			7:31 AM	6:21 PM
Thu 15	5:22 AM 4.07 m	11:49 AM 1.43 m	6:07 PM 4.53 m				7:33 AM	6:19 PM
Fri 16		12:28 AM 1.63 m	6:22 AM 4.24 m	12:35 PM 1.65 m	6:39 PM 4.56 m	New Moon	7:35 AM	6:17 PM
Sat 17		1:13 AM 1.21 m	7:20 AM 4.37 m	1:20 PM 1.95 m	7:11 PM 4.57 m		7:36 AM	6:15 PM
Sun 18		1:58 AM 0.87 m	8:17 AM 4.45 m	2:05 PM 2.30 m	7:43 PM 4.53 m		7:38 AM	6:13 PM
Mon 19		2:42 AM 0.64 m	9:15 AM 4.51 m	2:52 PM 2.65 m	8:15 PM 4.43 m		7:39 AM	6:12 PM
Tue 20		3:28 AM 0.57 m	10:16 AM 4.54 m	3:42 PM 2.94 m	8:49 PM 4.26 m		7:41 AM	6:10 PM
Wed 21		4:15 AM 0.65 m	11:20 AM 4.55 m	4:41 PM 3.17 m	9:27 PM 4.02 m		7:42 AM	6:08 PM
Thu 22		5:04 AM 0.85 m	12:25 PM 4.56 m	5:52 PM 3.27 m	10:16 PM 3.74 m		7:44 AM	6:06 PM
Fri 23		5:57 AM 1.12 m	1:29 PM 4.56 m	7:26 PM 3.22 m	11:35 PM 3.47 m	First Quarter	7:46 AM	6:04 PM
Sat 24		6:58 AM 1.41 m	2:29 PM 4.57 m	9:04 PM 2.98 m			7:47 AM	6:02 PM
Sun 25	1:18 AM 3.33 m	8:05 AM 1.66 m	3:23 PM 4.57 m	10:02 PM 2.68 m			7:49 AM	6:00 PM
Mon 26	2:50 AM 3.35 m	9:12 AM 1.84 m	4:09 PM 4.54 m	10:43 PM 2.38 m			7:51 AM	5:59 PM
Tue 27	4:01 AM 3.49 m	10:10 AM 1.98 m	4:48 PM 4.49 m	11:19 PM 2.09 m			7:52 AM	5:57 PM
Wed 28	4:59 AM 3.66 m	11:00 AM 2.13 m	5:20 PM 4.41 m	11:53 PM 1.81 m			7:53 AM	5:55 PM
Thu 29	5:50 AM 3.84 m	11:41 AM 2.31 m	5:45 PM 4.32 m				7:55 AM	5:53 PM
Fri 30		12:26 AM 1.55 m	6:38 AM 4.01 m	12:19 PM 2.50 m	6:04 PM 4.24 m		7:57 AM	5:52 PM
Sat 31		12:58 AM 1.33 m	7:23 AM 4.15 m	12:53 PM 2.70 m	6:19 PM 4.19 m	Full Moon	7:58 AM	5:50 PM

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