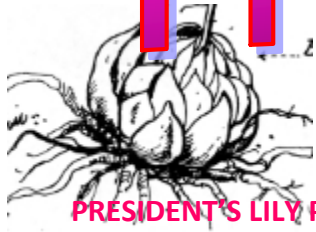




The Bulblet



Contents

PRESIDENT'S LILY PAD P1
BULB SALES 2020 P3
ARLS EVENTS 2020 P3
LILY SOURCES P3

DIRECTORS LIST P4
2019 Olds Lily Beetle Research update P5
2019 Olds Summary P6
2019 Olds College Bursary P8

President's Lily Pad message

Like us on Facebook; Follow us on Twitter

If you haven't checked out the updated website: www.arls-lilies.org.

Let me start by saying that I hope that this message finds each and every one of you safe and healthy. Here we find ourselves in the midst of a Global pandemic that require us to self isolate and social distance. Just over a month ago none of us would have even known what those terms meant and probably would have thought those terms were reserved for those days when we just go and spend time in our gardens planting, weeding, pruning or just puttering around. And on top of this new reality it seems that winter will never end so that we could actually take our social isolation out into the garden. We still have a foot and a half of crusty snow out in the yard here in northeastern Alberta, hopefully you folks down in the south are closer to seeing lilies than I am. If you really want to be jealous, I was talking with a friend this week in Virginia and their lilies were already up six inches!

Well in the midst of this dynamic time I am really excited to provide you with the first look of the new Alberta Regional Lily Society logo. This project has been in the works for some time and has finally come together with this appealing modern design that will be a great representation of our Society as we move forward into the future. If you think you recognize this flower, it does have some resemblance to the cultivar Donna Sylvester that was registered by ARLS' very own member Fred Fellner.



Another highlight from the past few months was the Winter Mingle back in February. It was great that so many members were able to come out and enjoy the afternoon. As always, we had some very interesting silent auction offerings donated by Ieuan, I came home with a popcorn plant and a plum tree and some attendees probably have potted Martagon lilies blooming right now! There were also a few offerings of open pollinated martagon seeds with unique pod parents that Britta donated, interested to see what treasures may come of those. We also handed out the awards for last years Shows, which is always exciting and inspiring. With those awards we announced that this year we would be providing trophies to winners at the Martagon Show to celebrate the 25th event (read on to see more on this). There were lots of yummy potluck treats to go with the reminiscing about past seasons and the excitement of what lies ahead for the 2020 gardening season.



Winter Mingle – February 23, 2020



On that day in February none of us could have anticipated what was to come of our world but here we are! So I have some updates regarding our ARLS activities for the coming season. First, we are not going to be able to have our Annual General Meeting on April 18, 2020. So at this point we are going to focus on possibly coming together on October 18, 2020, this obviously will be dependent on the state of the union at that time. Next, we have received notice from the University of Alberta Botanic Garden that they are cancelling all events for the 2020 season which means we will not be able to hold our 25th Annual Martagon Show (do not worry we will offer those trophies at next years Show!). At this point we do not anticipate being able to hold the Annual Lily Show but in lieu of that event we are going to work to use our Facebook page to allow all of you to profile the lilies in your gardens (the advantage is we won't have to cut our stems to show them off!). The Board will continue to monitor the status of the COVID 19 pandemic and if there are changes that create opportunity for us to have a Show we will be sure to provide you with an update. In the meantime, please ensure that each of you is taking all the necessary steps to keep yourselves safe and healthy! Happy Spring Gardening, it will be here soon!

Lorne

ARLS AFFILIATES

Alberta Horticultural Association icangarden.com/clubs/aha

Calgary Horticultural Society calhort.org [@YYCGardening](https://www.facebook.com/calhort/) <https://www.facebook.com/calhort/>

Edmonton Horticultural Society edmontonhort.com [@YEGgardening](https://www.facebook.com/groups/14571255402/)

<https://www.facebook.com/groups/14571255402/>

North American Lily Society lilies.org <https://www.facebook.com/NorthAmericanLilySociety/>

RHS Lily Group www.rhslilygroup.org/

AGM NOTICE FOR OCTOBER.

April 18 2020 is cancelled as an AGM, the board will have a conference call to discuss upcoming events and business.

AGM Meeting and elections are now scheduled for October 18 Sunday

10 am to 12 noon meeting to receive reports, cover new business, Elections

Cecilia Bertram, Mike Danchak, Ieuan Evans, Dianne Skimming are the outgoing Directors

Lunch, silent auction, library

1 pm – 3:30 pm silent auction, networking and Speaker if we can get one



Some of the 25th Martagon Show trophies being considered. Have any preference or suggestions call, text 780-916-0922 or email sec@arls-lilies.org



BULB SALES 2020

Contact Britta to volunteer for a bulb sale shift or packing party.

You get 10% off plus you get first pick of the bulbs. Book your time and reserve your bulbs.

The bulb sale list may not have all sale bulbs listed. It is a listing of what ARLS has ordered or been offered in time for publication.

SPRING: STILL WORKING ON DATES FOR 2020 although the current provincial situation may influence events, please check on the website and Facebook for last minute news on ARLS events

April- Bonnyville

April- Calgary Hort Spring Show- April 25 & 26 **has been cancelled**

May- St Paul

May 30?- Fulton Place, Edmonton

FALL:

September 27?- Greenland Garden Centre

September 29- Ed. Hort. Society (EHS) Mtg

ARLS EVENTS 2020

25th Annual Martagon Show July 4 & 5, 2020 U of A Botanic Garden, Spruce Grove

NALS Show Ontario July 10-12, 2020

35th Annual Lily Show July 18 & 19, 2020 Greenland Garden Centre, Sherwood Park

FALL AGM Oct 18 Woodvale Hall

MEMBERS RECEIVE DISCOUNTS AT THE FOLLOWING BUSINESSES:

* **ALL SEASONS GARDEN CENTRE**. 10027-81 Ave. Edmonton 10% discount. Membership card must be presented and discount may not apply to all products.

* **APACHE SEEDS LTD**. 10136 149 ST., EDMONTON 10% discount. Membership card must be presented and discount may not apply to all products.

* **CANNOR NURSERIES LTD**. TWP RD 514 WOODBEND RD, SPRUCE GROVE (west of Devonian Gardens) 10% discount. Membership card must be presented and discount may not apply to all products.

* **ELLERSLIE GIFT & GARDEN** 10330 Ellerslie Rd SW, Edmonton Membership card must be presented prior to purchase and discount may not apply to all products.

* **VALLEY K LILY RANCH** aka **plantlilies.com** LAST YEAR

15% discount on all bulb orders, excluding shipping. Contact Valley K by email at webmaster@plantlilies.com to request the discount code BEFORE ordering. Follow Valley K on Facebook <https://www.facebook.com/plantlilies> sometimes she has contests.

NOMINATIONS FOR THE NALS REGIONAL MEDAL are being solicited please submit to Shauna Willoughby.

VOLUNTEERING WITH ARLS we now have a procedure to follow and track volunteer hours. When a volunteer reaches the required hours, they are eligible for a lily bulb. Please make sure you confirm your hours volunteered with your volunteer coordinator.

REQUESTING NOMINATIONS

ARLS is now awarding the **CATHY & ARNOLD SEMENIUK VOLUNTEER AWARD** for an outstanding volunteer who goes above and beyond in supporting our Society in its endeavours and events.

Please forward your nominations with a supporting letter to arms@arms-lilies.org



LILY SOURCES

Bertha Lardner: Martagon Lilies NE Edmonton 780-478-7929 lardnerbm@gmail.com

Valley K Lily Ranch LAST YEAR- WILL BE CLOSING 2020 - SELLING OFF STOCK Lynnette Westfall; Asiatics, OTs, some martagons & species

RR1 Edberg TOB 1J0 <http://plantlilies.com> great resource and lily gallery. mail order only
bulbs@plantlilies.com

Parkland Lilies - Fred Fellner seedlings RR1 Vermillion 1-780-853-2355 final year of hybridizing

Rundlewood Gardens Specialty Nursery & martagons 1643 Altadore Ave SW. Calgary (corner of 16th Street and 46th Ave SW)
<http://www.rundlewoodgardens.ab.ca/> info@rundlewoodgardens.ab.ca location shopping only- no mail order shipping. Stop by when in Calgary- check website for hours.

Lily Nook Nigel & Joyce Strohm; all things lily

Box 846 Neepawa Man. R0J 1H0 <http://www.lilynook.mb.ca> 1 204 476 3225 info@lilynook.mb.ca

Skinner Nursery Hugh Skinner; martagons, species, asiatics

Box 220 Roblin Man. R0L 1P0 1-204- 564-2236. ski_hugh@mts.net

Jeffries Nurseries Ltd. P.O. Box 402, Portage la Prairie, Manitoba, R1N 3B7

29053 Trans Canada Highway #1 35 miles west of Winnipeg near Portage la Prairie Man. www.jeffriesnurseries.com/ 204-857-5288 jeffnurs@mts.net

SW-Gardens Sandra-Pat Willis; lilies from various divisions

22507 Kenesserie RD Thamesville ONT. N0P 2K0 <http://www.s-wgardens.com/> 1-519-692-5580 swgardens@yahoo.ca

LilyCrest Gardens Brian Bergman; Bergman seedlings, [OTs, asiatics, orientals & trumpets from active hybridizing]

51 Woodcrest Dr. Toronto ONT. M9A 4J3 [Facebook.com/LilyCrestGardens](https://www.facebook.com/LilyCrestGardens) 1-416-614-6394 bfberg@rogers.com

UNIVERSITY of ALBERTA BOTANIC GARDEN NEWS

Events at the garden: check out the website for all events <http://botanicgarden.ualberta.ca/>

Twitter <https://twitter.com/UABotanicGarden>;

Facebook <https://www.facebook.com/UABotanicGarden>

MUTTART is closed until January 2021

You can still go down and enjoy the gardens, and pick a few lily beetles.

NOTICE

In case you missed the small print or a visit to the Valley K website, 2020 is the last year for that source of lilies. Order your stock as soon as you can.

2019 ANNUAL 24th MARTAGON LILY SHOW REPORT

Sorry this report will have to wait until next issue now.



ARLS OFFICERS TO 2021

PRESIDENT	Lorne Kaban	Bonnyville Phone 780.812.3533	arls@arls-lilies.org
VICE PRESIDENT	VACANT		
PAST PRESIDENT	VACANT		
SECRETARY	Laurie Hepper	Edmonton Phone 780.916.0922	sec@arls-lilies.org
TREASURER	Britta Johnson	Edmonton Phone 780.433.7869	finance@arls-lilies.org

DIRECTORS 2018-2020

Cecilia Bertram	Edmonton	Phone 780.469.1085	bertramc@telus.net
Mike Danchak	Edmonton	Phone 780.462.0615	mikedanchak@yahoo.com
Ieuan Evans	Spruce Grove	Phone 780.987.4398	Dr.IREvans@gmail.com
Dianne Skimming	Edson	Phone 403.274.4747	diskimming@gmail.com

DIRECTORS 2019-2021

Suzanne Stack	Gibbons	Phone 780.710.0775	sueingabs@gmail.com
Bill Mackay	Innisfail	Phone 403.227.3563	bmackay@telusplanet.net
Suzanna Durand	Spruce Grove	Phone 780.743.5128	dominaterra@gmail.com
Leo Krupka	Edmonton	Phone 780.484.8714	oma.opa2@shaw.ca

LIBRARIAN (Board Appointed-to 2020)

Terry Willoughby Spruce Grove Phone 780.968.1818 library@arls-lilies.org

WEB EDITOR (Board Appointed-to 2020)

Shauna Willoughby Spruce Grove Phone 780.968.1818 webeditor@arls-lilies.org

NEWSLETTER EDITOR VACANT fill in blackmartagon@gmail.com news@arls-lilies.org

ARLS COMMITTEES

Bulb Sale Chair:	info@arls-lilies.org
Advertising & Public Relations:	Suzanne Stack
Publishing Committee Chair:	Shauna Willoughby
Venue Coordinator:	Laurie Hepper
Membership Chair:	Britta Johnson members@arls-lilies.org
Web Committee Chair:	VACANT; Laurie, Britta & Shauna members
Speakers Committee:	Lorne Kaban, Bill MacKay, Terry Willoughby
OLDS College Committee Chair:	Bill MacKay
U of Alberta Botanic Gardens Committee Chair:	Britta Johnson
LOGO committee	Britta, Laurie, Suzanne
AGLC-GAIN Funding Chair:	Laurie Hepper
Casino 2020 Chair:	Ieuan Evans
NALS Liaison:	Shauna Willoughby
25th Martagon Show Chair 2021	Lorne Kaban
35th Annual Show Committee 2020	Suzanne, Dianne, Lorne, Britta, Laurie
Lily beetle	lilybeetle@arls-lilies.org



(photos L. Hepper)



- Lily beetle report lilybeetle@arls-lilies.org
- also if you have questions, I will try to answer them.
- **Report** your beetles. With a picture, To Carlton University lilybeetletracker@weebly.com
- **There is also a resource page on the website**
- **Report** your beetles – with a picture to Olds College
- Kfry@oldscollge.ca **all information submitted is also shared with Carlton University**
- If you are in need of beetle brochures to give to a friend or neighbour. Contact sec@arls-lilies.org



2019 Lily Beetle Research Update

Dr. Ken Fry, Olds College

Lily Beetle Larvae Collections:

The lily plots were randomly sampled beginning June 12, 2019, and sampled once per week for 10 weeks. There were a total of 164 plants in the population being sampled with 28 plants sampled on each sampling date (17% of the population). The plants selected for sampling each date were randomly determined.

One hundred twenty-eight (128) lily beetle larvae were collected from the lily plots in 2019. Sixty-two (62) larvae were fed on excised lily leaves and allowed to pupate in plastic containers filled with vermiculite wetted with tap water. Zero (0) adult lily beetles emerged from the pupae, an emergence rate of 0%. The remaining pupal cells were stored at 4°C to overwinter. The pupae will be brought to room temperature in May to await parasitoid emergence. After a 4-week emergence period, all pupal cells will be dissected to determine percent parasitism.

Lily Beetle Parasitism:

Sixty-two (62) larvae were dissected to determine parasitism rates. There was 97% parasitism rate of larvae collected. The mean number of parasitoid larvae per beetle larva was 5.79.

The staff at the Reader Rock Garden in Calgary were enlisted to assist in the project in 2017. An initial release of the parasitoid was conducted in 2017 with a follow-up release of 50 wasps in 2018. In 2019 larvae were collected on a weekly basis and dissected to determine parasitism rate. A total of 8 larvae were collected, all in the second instar. Fifty (50) percent of the larvae were parasitised with a mean of 5.5 parasitoid larvae per beetle larva.

The staff at Reader Rock Garden commented anecdotally that the number of lily beetle larvae feeding on lilies in the garden was substantially lower than in previous years. More thorough sampling will be conducted in 2020 to confirm the establishment of the parasitoid.

A separate lily plot was established at the College in 2019 containing eighty-six (86) plants. No attempt was made to control the larvae of the lily leaf beetle in this plot and all lily beetle larvae were left to develop, with the exception of 6 plants that were randomly selected for weekly monitoring. It is hoped that the lily beetle population on this plot will increase sufficiently to allow for a collection of parasitised larvae in 2020 sufficient enough to support releases at sites in Calgary and Edmonton.

Training:

A summer student, Alexa Briker, was employed to enter all records of lily beetle occurrence in Alberta into the Alberta database managed by Dr. Ken Fry and into the national database managed by Dr. Naomi Cappucino. Alexa monitored lily beetle populations in the lily plots at Olds College and assisted in rearing larvae for parasitoid monitoring and dissections of lily beetle pupae.

Extension:

Invited Presentations with Lily Beetle Research Results content:

- Property Managers Conference, November 26, Canmore, Alberta
 - This conference is for the turfgrass industry, specifically golf courses
 - The presentation was made to the horticulturalists managing the grounds at golf courses



Conclusions:

The lily beetle population in the Olds College lily plots and the Botanic Garden has dropped from a peak in 2017 with population densities being approximately equal in 2018 and 2019. Long term population densities as affected by the parasitoid and weather conditions will need to be monitored over several more years to determine whether the parasitoid has achieved a lasting suppressive force on the lily beetle.

The detection of parasitised larvae at Reader Rock Garden is significant as it indicates successful overwintering of the wasp at that locality. Monitoring of the larvae and parasitism rates will continue to determine if the parasitoid has become firmly established.

Rearing methods are still under development to maximise productivity for releases of the parasitoid in localities around the province.

ALBERTA REGIONAL LILY SOCIETY OLDS COLLEGE SUMMARY FOR 2019

The work Olds College does in collaboration with the ARLS has several areas of focus.

The lily trials in the Plots area are used for the collection of data on performance of various lily cultivars. This area of the college grounds is used for research and education programming and is not open to the general public. Data collection is performed weekly during the growing season, results are recorded and are then added to the main database, allowing for comparison within a single year or to compare with historical information of the same plant from previous years. Asiatic cultivars are trialed for three years and cultivars of other crosses for up to five years.

The collection of species lilies and Alberta hybridized lilies are in beds within the Botanic Gardens proper and are available for public viewing. Our work in this area is focused on maintaining and broadening the collection of lily cultivars and *Lilium* species. We aim to keep these collections labeled and have maps available on the Olds College Botanic Gardens website so the public can access the information in a variety of ways.

In addition, we continue to work with Dr. Ken Fry to gather data on the lily leaf beetle and its control in both the trial plots and the collections. We are also investigating the efficacy of the parasitoid wasp, *Tetrastichus setifer* in controlling the lily leaf beetle.

Another dimension of our collaboration is the promotion of the genus *Lilium* as a desirable garden plant. This is done as part of our public outreach program. New for this year was work on two videos, one focusing on lilies in general and the other on harvesting and processing bulbs.

Photo Olds College





ACTIVITY DETAILS FOR 2019

• Lily Plots

- Collected data on 60+ different lily cultivars
 - Summary of results are attached
 - These include the lilies in the Depth Trial
- Lily beetles were controlled to a high degree in the collections in the Botanic Gardens to preserve their appearance and performance for the public’s viewing. This is accomplished through diligent hand-picking. In the Plots, certain blocks of lilies have been identified as those that can be ‘sacrificed’ to the lily beetle to allow for research on the biological control of the lily leaf beetle to continue.
- The Plots area is being edited and re-organized on an ongoing basis as time allows. Ideally the area would have several main subsections:
 - Lilies being trialed and data collected (generally in 3 year cycles)
 - Centennial Lilies being propagated for retail
 - Lily library – holding area for lilies in the Botanic Gardens; ideally at least one of each of the cultivars in the Botanic Garden collection of lilies
 - Research projects – the Depth Trial was completed this year allowing space for a new project if and when it is desired
- Lilies that have finished trials were removed
 - 10-15 bulbs of each cultivar were kept and sold at the Greenhouse Sales
 - Rows were cleaned and prepped for new planting but will be left for one year to ensure no rogue lilies remain
- New lilies were added (3 bulbs of each cultivar):

NAME	TYPE
Child in Time	OA Hybrid
Fields of Gold	OA Hybrid
Viva la Vida	OA Hybrid
Dancing Lady	LO (longiflorum x oriental)
Pink Brilliant	LO (longiflorum x oriental)
Blackstone	Asiatic
Eagle Eye	Asiatic
Easy Vanilla	Asiatic
Forever Susan	Asiatic
Red Life	Asiatic
White Pixels	Asiatic
Pink Perfection	Trumpet
Passion Moon	Trumpet
White Planet	Trumpet
Night Rider	Asiatic
Red Rover	Asiatic

• Lily Beetle Research Update – Dr. Ken Fry (full report is published here)

- Our student, Alexa Bricker, entered all records of lily beetle occurrence in Alberta into the Alberta database managed by Dr. Ken Fry and into the national database managed by Dr. Naomi Cappucino. She



also monitored lily beetle populations in the lily plots and assisted in rearing larvae for parasitoid monitoring.

- **Botanical Garden Lily Collection - recording, revitalization and culture**

- The Lily collection around the Gazebo now focusses on species lilies, some non-AB bred Asiatics, a few Martagons and a few other lily types. The desire is to continue to edit this bed to focus on species lilies.
 - Four new martagons were added to this bed

Gay Bird
Cadense
Attiwaw
Brocade

- A new, small collection of Martagons has been established along the east side of the James Murray Building. Five new martagons were planted there last year, but little to no growth was seen this summer. Knowing that martagons sometimes take a while to settle in, we will hope to see more growth next season.

- **Public Outreach**

- The summary of this year's growth trials will be made available on the Olds College Botanic Gardens website as soon as the results have been approved for publication by the ARLS
- Results of the Depth Trials will also be made available
- Two new articles were written in 2019.
 - One was on the trial work on hybrid lilies in the plots (ie. asiapets, orienpets, LA hybrids etc.)
 - The second was written by Alexa Bricker about her experience working for the College and the ARLS
- Video
 - The idea was presented to create a video based on the Lily Basics brochure
 - A proposal and budget was approved
 - Filming was done over the growing season
 - The intent is to develop two videos – one focusing on lilies in general, and one focusing on the harvesting and processing of lily bulbs
 - The second video will be done before the Christmas break of 2019
 - The first will be completed early in the new year
 - Videos will be available on YouTube, and could also be included in presentations etc.

OLDS Planting Depth trials report and Plot Results report in PDF (*too large to print in newsletter*) will accompany the emailed newsletter send out. If anyone on the mail out list wants a copy please request it to blackmartagon@gmail.com with your email and I will reply.

Recipient of Alberta Regional Lily Society Olds College Bursary, 2019

The recipient of the ARLS Horticultural Bursary for was Brayden Conley a 2nd Year student in the Horticultural Technologist Diploma program. Below is his letter of thanks.



Please accept my Thank You letter for the Alberta Regional Lily Society Scholarship. I cannot say it warmly enough: thank you, thank you so, so much.



Receiving this award just before my final tuition payment is due, and so close to Christmas, has truly made my holiday. This scholarship is the final portion I required for my tuition payment in January and not having to go further into debt to finish this part of my education is such an amazing feeling that wouldn't have been possible without this funding.

I'm currently in my second year of the Horticultural Technologist Diploma at Olds College. When I applied to Olds College, I was the manager of a restaurant in Kamloops, BC, and while I enjoyed it, I knew I did not want to work in the food and beverage sphere forever. I felt quite lost not knowing what else I could do. Upon investigating Olds College, I liked that the duration of

this program was 18 months rather than a full 2 years or longer.

More so, I grew up in Airdrie and still had family there, which made the commute to school a much easier prospect. Originally getting into horticulture, I thought I wanted to get into the cannabis sector, but I am now having second thoughts after having been exposed to so many different potential avenues of work.

Arboriculture, fruit or flower production, and even landscape design have all fascinated me, and I'm so happy that I chose to do a broader horticulture program rather than specializing in a cannabis-specific one. I would

not have known that any of those fields interested me, let alone have the knowledge and skills to pursue them further as I choose without this experience, and for that, I am beyond grateful.

Once I complete this program, I plan on travelling and working abroad for a year, and this money indirectly will help with that as well, as I will have less debt to deal with once the summer comes back around.

Since starting school, I've also begun an experimental photography project, and it happens that lilies are some of my favourite subjects. I've included one of my favourite shots, as well as a picture of me receiving the congratulatory email. Once again, I would like to say thank you so much for choosing me as the recipient of the Alberta Regional Lily Society Scholarship. I hope your holidays are as fantastic as you've made mine.



Sincerely, Brayden Conley