



The Bulblet



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President's Lily pad message

Like us on Facebook; Follow us on Twitter

Well fellow lily gardeners, our friend Balzac Billy saw his shadow on Groundhog Day (Feb 02) forecasting six more weeks of winter. At the time, I thought we had endured enough cold and hoped the little critter was wrong. As February wore on and the temperatures remained in the -30's, it became apparent the rodent's prediction was accurate. March brought a reprieve from the cold, but it still came in as a *lion* with large dumps of snow across the province and here we are mid month and our friends in the south have gotten even more snow. Let's all tell ourselves that the moisture will be good for our lilies when Spring finally arrives.

For those that planted Asiatic seeds in January, whether in the greenhouse or under lights, you should have first and likely even second "true leaves" by now. If your passion is Martagons then your seedlings are probably in the cooler chilling already. And for those that can't wait for the seeds to mature and reveal their potential, you may have bulbs in the fridge that didn't get planted in the Fall and are waiting for Spring. Others may be waiting for the snow to go and for those bulbs that have been resting for the winter to push new growth up through the soil. Regardless of where your lily passion lies know that it won't be long until we will be back in our gardens playing in the dirt. Just a reminder to be vigilant this Spring in controlling those nasty scarlet lily beetles. Get out there and squish them or carry your container with water and dish soap and drown them or if you're willing to use insecticide apparently Doktor Doom is a good option. If you have not had this little visitor in your garden, keep your fingers crossed they won't find you.

There are a few 2018 dates for you to mark on your calendar. Sorry if we missed you at the Winter Mingle in February, it was a great turn out and with the presentation of the awards from last year's Shows it provided some inspiration for the coming year. This 23rd Annual Martagon Show will be July 7 & 8, 2018 at the University of Alberta Botanic Garden (formerly Devonian Botanic Garden). The later Show is to align with the opening of the Gardens and the much-anticipated new Aga Khan Garden. Come out with your Martagons and take a moment to tour the Gardens. On Sunday Terry Willoughby will be offering a session on growing Martagons. The 33rd Annual Lily Show will be July 21 & 22, 2018 at Greenland Garden Centre. The Annual Show never disappoints and if growing lilies isn't your strength there is always the Design Section where you know demonstrate your creativity and vie for the Cecilia Bertram Best Design in Show title. We are so excited to have Jane Reksten, Manager, Botanic Garden & Greenhouses at Olds College joining us at the ARLS Annual General Meeting at Woodvale Hall - 4540 50 St NW, Edmonton on April 21, 2018. We look forward to seeing you there to hear what Jane has to share about lilies and gardening. Grab a friend, neighbor or fellow gardener and come on down enjoy lunch (don't forget to book ahead), bid on the silent auction, buy some bulbs, learn something new about growing lilies or just enjoy visiting with other lily nuts. See you there! Lorne



ARLS AFFILIATES

Alberta Horticultural Association icangarden.com/clubs/aha

Calgary Horticultural Society calhort.org [@YYCGardening](https://www.facebook.com/calhort/posts/10155653635414592/)

<https://www.facebook.com/calhort/posts/10155653635414592/>

Edmonton Horticultural Society edmontonhort.com <https://www.facebook.com/groups/14571255402/>

North American Lily Society lilies.org

RHS Lily Group www.rhslilygroup.org/

23rd ANNUAL MARTAGON SHOW July 7&8 2018

GRAND OPENING OF AGA KAHN GARDENS 2018

at the U of Alberta Botanic Gardens

The University of Alberta Botanic Garden (formerly the Devonian Botanic Garden) is located in Parkland County, 15 minutes SW of Edmonton, 5 km north of Devon on Hwy 60.

Note: The Garden is not located on the U of A campus.

open 10 am to 6 pm daily June 29 - Sept 3

Thursday's July 7 until Aug 30 gate is open to 8:30 pm and gardens are open to dusk.

NALS LILY SHOW & SYMPOSIUM

June 27, 2018 – July 1, 2018

Sheraton West Des Moines, 1800 50th Street West Des Moines, IOWA United States

More information at <http://www.lilies.org/events/>

33rd ANNUAL LILY SHOW July 21 & 22 Greenland Garden Centre.

Hwy 16 at Cloverbar Road in Sherwood Park.

Greenland hours are 9 am to 6 pm Sat & 10 am -6 pm Sunday

Check out the show schedule on the website for details

SPRING BULB SALES

BONNYVILLE 18th ANNUAL GARDENER'S DAY - April 14, 2018. 9 am – 4 pm Bonnyville Seniors Drop in Centre; 4813-47 Ave North Entrance

CALGARY HORTICULTURE GARDEN SHOW April 14th & 15th 2018. Open Saturday and Sunday 9 am-5 pm at Spruce Meadows, Calgary

ST PAUL CRITTER MARKET - May 19, 2018 11 am – 3:30 pm St Paul Ag Corral; 5322- 48 Ave (turn south at the RCMP building)

FULTON PLACE GARDENER'S SWAP MEET May 26, 2018 9 am to noon Fulton Place Community League Hall 6115 Fulton Rd NW, Edmonton. Garden plants of all sorts are brought to swap.



LILY SOURCES

Valley K Lily Ranch 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

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

Parkland Lilies - Fred Fellner seedlings RR1 Vermillion 1-780-853-2355 final last years 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 Strohman; 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

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

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 www.jeffriesnurseries.com/ 204-857-5288 jeffnurs@mts.net

FALL 2017 BULB SALES AUCTION

We got a wonderful bulb donated by Terry & Shauna Willoughby, the same lily that won at the Martagon Show and we decided to offer it to the membership rather than just at the bulb sale silent auction.

Let me start by thanking everyone for your support of the Bulb Auction. This was the first time that we've tried a membership e-mail bulb auction and based on the participation it was a fabulous success!

We had 11 members place 17 bids over the 3.5 days. In the end when all bids were in the winner was:

Kathy Strawson with her \$150 bid!

Congratulations to her on adding this fantastic specimen to her collection!

Thank you to Lorne & Debra Kaban for orchestrating the bidding by email.



FLORAL DESIGN 2018

Cecilia Bertram (*photos supplied by Cecilia Bertram*)

Although we have written about design types throughout the years, presented is a quick review of the types that might be requested for the 2018 Design Section of the Annual Show.

A **Design that includes water** can be done in any vessel that at least a small patch of water shows with the design placed in the water.

Ikebana can be likened to a story of the relationship of materials to their container and emphasizes the natural beauty of flowers and plants

Nageire means "to throw into" in Japanese. A **Nageire arrangement** will lean against the mouth of the vase. Any size and shape of vase may be used for Nageire arrangements but tall tubular vases seem to be preferred.

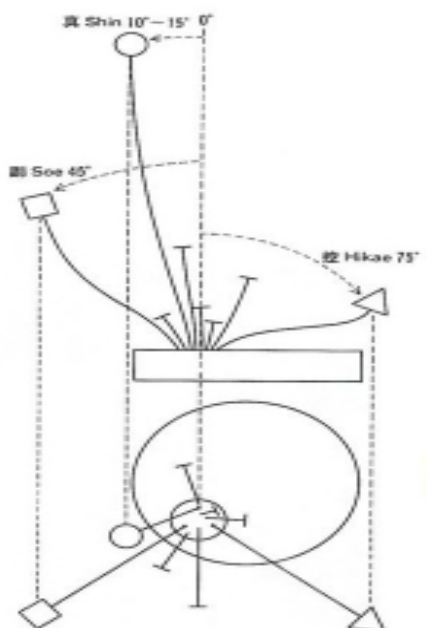
Freestyle Nageire expresses the creativity and feelings of the designer. Freestyle does not follow traditional rules, it is not just thrown together. It allows the designer more freedom in artistic choices in interpreting the theme, the expression of the designer and how the materials are used in any of the four basic shapes: vertical, horizontal, slanting or complex.

Nageire is composed of three yakueds called: shin, soe and tai or hikae. The shin determines the overall form of a nageire arrangement:

Important elements in freestyle design are: line (from line material), surface texture (usually provided by leaves), and mass (volume of bunched floral material); points (small focal points other than the main focal point) may be added to the design.

As Nageire arrangements use no Kenzan, it is a bit difficult to hold flowers in the right position inside a vase. We can use crossbars, stoppers and/or wires to support stems in a vase that is opaque, or you can bend the stem to anchor it against the wall of the vase.

There is freedom in the use of colour and choice of mechanics. Plant material, leaves, branches and flowers can be modified by pruning, bending or altering to a desired effect. There is also freedom from the asymmetrical triangle and the rules regarding lines. Voids or open spaces are very important to the arrangement.



Straight/Standing/Upright style



Nageire chokutaie: standing or upright style



Nageire suitai:
cascading style.



Nageire shatai: Slanting style

ARLS OFFICERS TO 2019

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PAST PRESIDENT	VACANT		
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VACANT			

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ARLS COMMITTEES

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OLDs College Committee Chair:	Lorne Kaban, Bill MacKay, Terry Willoughby
U of Alberta Botanic Gardens Committee Chair:	Bill MacKay
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NALS Liaison:	Ieuan Evans
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33ND Annual Show Committee 2018	Lorne Kaban
	Cecilia, Suzanne, Lorne, Britta, Laurie



ALBERTA REGIONAL LILY SOCIETY OLDS COLLEGE SUMMARY FOR 2017

By: Jane Reksten

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 lily performance. This area of the college grounds is used for research and education programming and is not open to the general public. This 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.

The collection of species lilies and Alberta hybridized lilies are in beds within the Botanic Gardens proper and are available to the public for viewing. Activity in this area is aimed at maintaining and broadening the collection of lily cultivars and *Lilium* species. We aim to keep these collections (Fred Fellner, AB Bred Lilies, and Species Lilies) labeled and 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 gather data on the lily leaf beetle and its control in both the trial plots and the collections plots. We are also investigating the efficacy of the parasitoid wasp in controlling the lily leaf beetle.

A fourth 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.

ACTIVITY DETAILS FOR 2017

- **Lily Plots**

- Collected data on 60+ different lily cultivars
 - Summary of results are attached
- Lily beetle infestation was severe this year but kept in check through diligent hand picking. Particular attention was paid to the collections within the Botanic Gardens. Certain sections of the Plots were treated with a lighter hand to allow for beetle and larva populations needed for Dr. Fry's research
- The Plots area was generally edited with an eye to better organization. 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 one each of the collection lilies
 - Research projects – currently we are looking at the ability of lilies to adjust to different planting depths
- Lilies that have finished trials were removed



THE ALBERTA REGIONAL LILY SOCIETY NEWSLETTER

THE BULBLET VOLUME 33, NUMBER 1 SPRING 2018

- 10-15 of each bulb 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):

TYPE	NAME
Asiatic	Apricot Fudge
Asiatic	Corsage
Asiatic	Evina
Asiatic	Navona
Interdivisional Hybrid	Easter Morn
Interdivisional Hybrid	Fusion
LA	Corleone
LA	Honesty
LA	Purple Diamond
Martagon	Early Bird
Martagon	Terrace City
OT	Big Brother
Trumpet	Orange Planet
Trumpet (Aurelians)	Lady Alice

- **Lily Beetle Research Update – Dr. Ken Fry**

- Our student 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. They 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**

- Last year the Fred Fellner bed was renovated with lilies being replanted. The progress of these new lilies is good so far, we will continue to monitor
- The collection around the Gazebo was relocated to the west end of the roses
 - Species lilies, Martagon's and non-AB bred lilies were kept; others were removed (duplicates already existed in the gardens)

- **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
- Our series of articles has been well-received and there are more that can be published
 - The final two in our series of Lily Basics were published in 2017
 - Calgary Horticultural Society Newsletter
 - Edmonton Horticultural Society Newsletter
- New topics that could be developed in early 2018 include a summary of the 'best' lilies grown in the college plots, fasciation in lilies, lily mottle virus



UNIVERSITY of ALBERTA BOTANIC GARDEN NEWS

The Aga Kahn Garden opens this year. Come visit July 7 & 8 and take in the Lily show too.

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

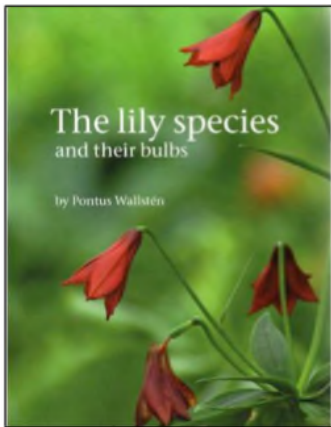
Twitter <https://twitter.com/UABotanicGarden>;

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

ARLS NAME TAGS Have you ordered a name tag. Call Shauna to get an update.

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.



ARLS has the opportunity of getting 30 of these books with pre-orders of 23 already spoken for. The bulk buy lets us purchase them with a discount and they are going to be SIGNED. We are able to offer them at approx. \$50 US.

Pontus Wallsten **The Lily Species and their bulbs**

ARLS has a trophy that has been awarded the last few years for the ARLS MARTAGON SHOW.

A few years back, in 2010, Una Thompson created and donated a lily needlepoint tapestry to be the perpetual trophy presentation to the Best Lily in Martagon Show. In 2011 the ARLS Board of Directors voted to change the name of the award to the **FRED TARLTON AWARD-BEST STEM OF THE MARTAGON SHOW**. The tapestry was presented along with this award. This small tapestry was usually rolled up and left on a shelf before being passed on to the next winner as there was no way to display it except flat. In 2016 ARLS encased this tapestry into a shadow box frame centrally mounted with small plaques of all the winning stems and the presenters for each year of the Martagon Show displayed within the case.

Unfortunately show records are not comprehensive and not all winning stems and exhibitors are engraved on the plaques for each year.

If any member knows the show statistics of **any** of the early shows please email sec@arls-lilies.org so the records can be updated.



THE ALBERTA REGIONAL LILY SOCIETY NEWSLETTER
 THE BULBLET VOLUME 33, NUMBER 1 SPRING 2018

Here is the Martagon show records compiled so far.

1ST MARTAGON SHOW 1994					
# OF EXHIBITORS	# OF STEMS	# OF ENTRIES	# RIBBONS	JUDGES	SHOW CHAIR
WINNING STEM by WINNING EXHIBITOR					
1995 NALS SHOW HELD IN EDMONTON NO MARTAGON SHOW HELD					
2ND MARTAGON SHOW 1996					
# OF EXHIBITORS	# OF STEMS	# OF ENTRIES	# RIBBONS	JUDGES	SHOW CHAIR
WINNING STEM by WINNING EXHIBITOR					
3RD MARTAGON SHOW 1997					
# OF EXHIBITORS	# OF STEMS	# OF ENTRIES	# RIBBONS	JUDGES	SHOW CHAIR
WINNING STEM by WINNING EXHIBITOR					
4TH MARTAGON SHOW 1998					
# OF EXHIBITORS	# OF STEMS	# OF ENTRIES	# RIBBONS	JUDGES	SHOW CHAIR
WINNING STEM by WINNING EXHIBITOR					
5TH MARTAGON SHOW 1999					
8 EXHIBITORS	87 STEMS	# OF ENTRIES	# RIBBONS	TERRY WILLOUGHBY	SHOW CHAIR
WINNING STEM by WINNING EXHIBITOR [THIS RECORD MAY BE FOR 2000]					
6TH MARTAGON SHOW 2000					
# OF EXHIBITORS	# OF STEMS	# OF ENTRIES	# RIBBONS	JUDGES	SHOW CHAIR
WINNING STEM by WINNING EXHIBITOR					
7TH MARTAGON SHOW 2001 JULY 7 & 8 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
10 EXHIBITORS	99 STEMS	# OF ENTRIES	# RIBBONS	LIL McLEAN	SHOW CHAIR
IVORY QUEEN by JOHN STERENBERG					
8TH MARTAGON SHOW 2002 JULY 6 & 7 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
11 EXHIBITORS	71 STEMS	# OF ENTRIES	# RIBBONS	TERRY WILLOUGHBY SANDY VENTON ALEX BURNETT	SHOW CHAIR
I. martagon by MARIE WENGER					
9TH MARTAGON SHOW 2003 JULY 12 & 13 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
12 EXHIBITORS	146 STEMS	# OF ENTRIES	# RIBBONS	SANDY VENTON BJ JACKSON	SHOW CHAIR
MOONYEEN by BILL JOPLING					
10TH MARTAGON SHOW 2004 JULY 10 & 11 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
12 EXHIBITORS	79 STEMS	# OF ENTRIES	# RIBBONS	ALAN DAKU SANDY VENTON BJ JACKSON	LIL McLEAN
AMELITA by VACLAV & JARA PAZDERKA					
11TH MARTAGON SHOW 2005 JULY 9 & 10 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
11 EXHIBITORS	100 STEMS	# OF ENTRIES	# RIBBONS	GENE FOX	LIL McLEAN
MOONYEEN by BILL JOPLING					
12TH MARTAGON SHOW 2006 JULY 1 & 2 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
12 EXHIBITORS	148 STEMS	# OF ENTRIES	# RIBBONS	MARGARET DRIVER	LIL McLEAN
SWEET BETSY by BILL JOPLING					
2007 NALS SHOW IN EDMONTON- NO MARTAGON SHOW HELD					
13TH MARTAGON SHOW 2008 JULY 1 & 2 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
# OF EXHIBITORS	149 STEMS	# OF ENTRIES	# RIBBONS	EMMETT WENGER MARIE WENGER	SHARON BURY
WINNING STEM by WINNING EXHIBITOR					



THE ALBERTA REGIONAL LILY SOCIETY NEWSLETTER
 THE BULBLET VOLUME 33, NUMBER 1 SPRING 2018

14TH MARTAGON SHOW 2009 JULY 4 & 5 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
6 EXHIBITORS	51 STEMS	# OF ENTRIES	# RIBBONS	SANDY VENTON BJ JACKSON	SHAUNA WILLOUGHBY
WINNING STEM by WINNING EXHIBITOR					
15TH MARTAGON SHOW 2010 JULY 3 & 4 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
10 EXHIBITORS	98 STEMS	77 ENTRIES	56 RIBBONS	DANI DOOLEY EMMETT WENGER	LAURIE HEPPER
PINK SEEDLING by TERRY & SHAUNA WILLOUGHBY					
16TH MARTAGON SHOW 2011 JULY 2 & 3 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
11 EXHIBITORS	127 STEMS	100 ENTRIES	74 RIBBONS	SANDY VENTON SHAUNA WILLOUGHBY	LAURIE HEPPER
WILLOUGHBY SEEDLING by WINNING EXHIBITOR					
17TH MARTAGON SHOW 2012 JULY 7 & 8 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
17 EXHIBITORS	166 STEMS	166 ENTRIES ?	109 RIBBONS	ALAN DAKU KEVIN FREY	LORNE KABAN
MOONYEEN by LAURIE HEPPER					
18TH MARTAGON SHOW 2013 JULY 6 & 7 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
14 EXHIBITORS	159 STEMS	139 ENTRIES	81 RIBBONS	TERRY WILLOUGHBY BJ JACKSON	LORNE KABAN
MRS. R.O. BACKHOUSE by IEUAN EVANS					
19TH MARTAGON SHOW 2014 JULY 6 & 7 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
9 EXHIBITORS	149 STEMS	149 ENTRIES?	90 RIBBONS	SANDY VENTON BILL MACKAY	LORNE KABAN
WILLOUGHBY SEEDLING #2001-1 by TERRY & SHAUNA WILLOUGHBY					
20TH MARTAGON SHOW 2015 JULY 4 & 5 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY [NALS2015 HELD IN CALGARY]					
10 EXHIBITORS	111 STEMS	111 ENTRIES?	102 RIBBONS	SHAUNA WILLOUGHBY LAURIE HEPPER	LORNE KABAN
BRUNSWEIK by BRITTA JOHNSON					
21ST MARTAGON SHOW 2016 JULY 2 & 3 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
12 EXHIBITORS	125 STEMS	107 ENTRIES	72 RIBBONS	EMMETT WENGER TERRY WILLOUGHBY	LORNE KABAN
WILLOUGHBY SEEDLING #2002-8 by TERRY & SHAUNA WILLOUGHBY					
22nd MARTAGON SHOW 2017 JULY 8 & 9 DEVONIAN BOTANIC GARDENS PARKLAND COUNTY					
5 EXHIBITORS	134 STEMS	119 ENTRIES	45 RIBBONS	ALAN DAKU LAURIE HEPPER	LORNE KABAN
MEAGAN EVANS BY IEUAN EVANS					



2018 ARLS WINTER MINGLE REPORT

We had many members come out and other gardeners as well. Spring hopefuls at a winter event. There were many silent auction items that went home with new owners.

We had bulbs to purchase and goodies to eat, there was some new colourful gardens to view. Thank you, Wilf Maul, for bringing a new slideshow of your gardens.

Our 2017 show awards were presented and there were gift cards from Apache Seeds given out this year. Be sure to show your membership card to get the 10% discount when you shop for spring



THE ALBERTA REGIONAL LILY SOCIETY NEWSLETTER

THE BULBLET VOLUME 33, NUMBER 1 SPRING 2018

bulbs and seeds and all your garden needs. With the great turn out and all the stuff to see and do so there was still time to catch up between members.

Everyone pitched in to set up and take down and clean up, and make sure all the small tasks were done, thanks to all for coming.



Our Martagon Show winners Ieuan, Terry & Britta.



Our Annual Show Design winners; Bertha, Suzanne, Dianne & Suzanne.



April 21 AGM at Woodvale Hall, Millwoods Golf Course Off 50th Street

AGM meeting 10 am to 11 am

Board meeting 11 am to noon with members networking session at same time.

Hot lunch pre-purchase. Send form & cheque to Venue Coordinator 9739-146 ST NW Edmonton T5N 2Z3

Try to pop it in the mail before April 9.

Silent Auction, library, afternoon session SPEAKER TB confirmed

If you plan to attend get your membership renewal by March 31.



(photos L. Hepper)



Beetle Musings lilybeetle@arls-lilies.org
report to ARLS if you have questions I will try to answer them.

Report your invasion. To Carlton University
lilybeetletracker@weebly.com
There is also a resource page on the website

Report your beetles - with a picture to Olds College
lily_beetle@shaw.ca

If you are in need of a beetle brochure to give to a friend or neighbour. Contact sec@arls-lilies.org

Remember the beetle emerges at the same time as your lilies and they are fertile. Keep watch. Kill the beetle. Report the beetle. Stir the dirt up first thing in spring to get them as they emerge from the soil. They do not hibernate under the lilies; they could be anywhere, including compost piles, and garden mulch- not necessarily yours.

2017 Lily Beetle Research Update

Dr. Ken Fry, Olds College

Lily Beetle Parasitoid Rearing:

One hundred eighty two (182) lily beetle larvae were collected from the research plots in June and July, 2016. The larvae were fed on excised lily leaves and allowed to pupate in plastic containers filled with vermiculite wetted with tap water. Thirty-six (36) adult lily beetles emerged from the pupae. The remaining pupal cells were placed into three containers. The containers were placed in a cooler at 4°C, in total darkness from September 20, 2016 until June 5, 2017. The containers were placed in rearing cages at room temperature and 16:8 light:dark until emergence.



Fifteen (15) adult *Tetrastichus setifer* wasps emerged between June 23 and June 30. These wasps were released at the Reader Rock Garden in Calgary. The emergence of adult parasitoids confirms the overwintering success of *T. setifer* in central Alberta. No wasps were released on the Olds College campus in 2015 or 2016. Therefore, the only possibility is that these wasps are progeny of the wasps released in 2013 or 2014. Therefore, overwintering was possible from 2013 or 2014 to 2016.

Eight hundred sixty (860) larvae were collected from the research plots and Botanic Garden beds in June, 2017. The larvae were placed into a total of sixteen (16) plastic containers filled with vermiculite and moistened with tap water and fed *ad libitum* on excised lily leaves. The larvae were allowed to pupate and the number of adult lily beetles emerging was recorded (Table 1). Significantly fewer adults emerged from the larvae collected from the Research Plots than from the Botanic Garden Beds.

Table 1. Number of Lily Beetle Adults Emerged From Field Collected Larvae

Field Collection Locality	Number of Larvae	Number of Emerged Adults
Botanic Garden Beds	396	122
Research Plots	474	7

The remaining pupae in the containers were consolidated into three containers and placed in a cooler at 4°C on September 15, 2017. These containers will be removed in June 2018 to allow emergence of parasitoids. Emerging parasitoids will be released into the Botanic Garden at Olds College, the Reader Rock Garden in Calgary, and one site in St. Albert, Alberta.

Larval Collection & Dissections:

Nineteen (19) plants, randomly selected from a population of sixty-five (65) plants in the Research Plots were sampled weekly over ten (10) weeks for lily beetle larvae (Table 2). One hundred four (104) larvae collected from the Research Plots were dissected and examined for *T. setifer* larvae (Table 3). An additional one hundred (100) larvae were collected from the Botanic Garden and dissected.

The mean number of *T. setifer* larvae per 4th instar lily beetle larva was 9.2 (Table 3). No *T. setifer* larvae were found in lily beetle larvae collected from the Botanic Garden.

Seven (7) lily beetle larvae were collected from the Reader Rock Garden and dissected. None of the larvae were parasitized.

Table 2. Lily Beetle Larval Collections in the Research Plots at Olds College

Week (sampling begun June 1, 2017)	Number of Lily Beetle Larvae	Mean Number of Larvae per Plant
1	11	0.58



2	21	1.11
3	53	2.79
4	51	2.68
5	53	2.94
6	76	4.00
7	118	6.21
8	53	2.79
9	0	0.00
10	0	0.00

 Table 3. Occurrence of *Tetrastichus setifer* Larvae in Lily Beetle Larvae

Locality of Lily Beetle Collection	Lily Beetle Larval Instar	Number of Parasitised Lily Beetle Larvae	Number of non parasitised Lily Beetle Larvae	Parasitism Rate (%)	Mean Number of Parasitoid Larvae per Beetle Larva
Research Plots	2nd	21	15	58	1.9
	3rd	17	12	59	9.8
	4th	39	0	100	9.2
Botanic Garden	2nd	0	13	0	0
	3rd	0	19	0	0
	4th		68	0	0

Training:

A summer student 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. The student monitored lily beetle populations in the lily plots at Olds College and assisted in rearing larvae for parasitoid monitoring.



Extension:

Invited Presentations with Lily Beetle Research Results content:

Calgary Horticultural Society Annual Conference, April 29, 2017

Grow Calgary, June 24, 2017

Saskatchewan Green Trades Show, November 10, 2017

MEMBER BENEFITS

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

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.

NEWSLETTER EDITOR Any spelling and grammatical errors are all my own. If you see a data omission, please inform blackmartagon@gmail.com with the correction.

Newsletter deadlines- Feb 15- May 15- Aug 15- Nov 15

MAY 15 for JUNE 1 Bulbulet Get your information in to blackmartagon@gmail.com

Please put subject: 'newsletter submittal' in email so I can find it in my inbox when I need it.

LILY VIGNETTE

I like to hear the stories behind the lily. A picture and approx. 25 words is all it takes. Submit to blackmartagon@gmail.com

DATE TO REMEMBER

ARLS CASINO **August 29 & 30 2018**

at the ARGYLE CASINO. Edmonton

CALL Ieuan and let him know that you will work a casino shift. For those of you out of town we can arrange to have you stay across the street at the Sheraton Four Points Hotel.

REMEMBER FOR EVERY SHIFT WORKED, WE RAISE APPROXIMATELY \$2000.00 FOR ARLS. It is our major funding source to allow us to engage the public with lily information. Whether it is just to get them to visit a lily show



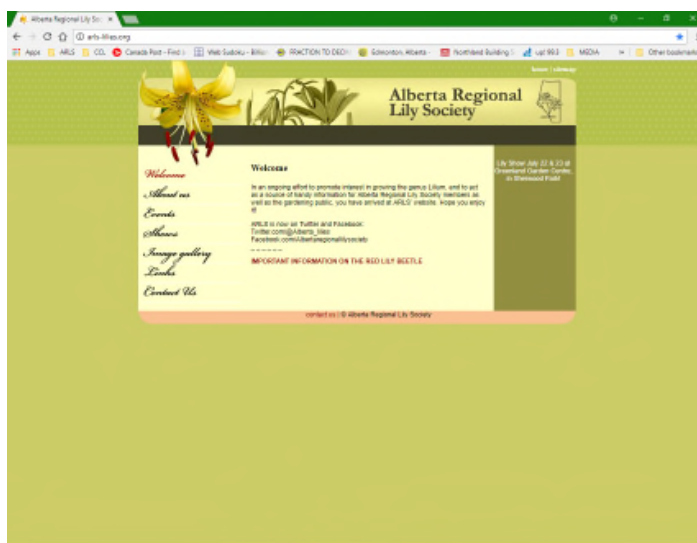
THE ALBERTA REGIONAL LILY SOCIETY NEWSLETTER
THE BULBLET VOLUME 33, NUMBER 1 SPRING 2018

or to give them detailed growing information or help them with the mitigation of the red lily beetle infestations plaguing Alberta gardeners now.

Our casino funds have paid for the new website, our new stem holders for our lily shows, a new projector and a smart TV for slideshows and presentations. ARLS funds Olds College for lily trials and research. We support the Botanic Gardens at the Calgary Zoo, University of Alberta, and St Albert with funds, lily bulbs and liliium knowledge. We produce, print and distribute the lily beetle brochure and are gearing up for the next set of projects for our casino funds.

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Dr.IREvans@gmail.com



LAST LOOK AT OUR OLD WEBSITE. While I loved the look of our old website, the workability of the operating program supporting it was outdated and hard to update.

SAY HELLO TO OUR NEW LOOK OUR NEW WEBSITE IS OPERATIONAL MARCH 3 2018.

Our website committee worked for just over a year to get the new site to contain a workable amount of information and pages that will keep everyone informed about Alberta lilies, the lily beetle and ARLS. It is a new user-friendly format that we hope will be populated by many more pictures.

