



THE BULBLET

VOLUME 30, NUMBER 4 WINTER 2015

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Membership renewal
DBG MARTAGON lily historical
info request. [Download only]
NALS show Supplement

LILY VIGNETTE

Members do you have a lily that you would like to spotlight. I would like to publish info not found in the registry or if it is a seedling what great story can you tell about it.



President's Lily pad

Well I had this edition all done but it did not save so now I have to re- write everything. As if I have the time for this. I guess my computer is not all fixed. Most of my planting for fall was into pots and they now sit in the garage waiting for spring. At least we had a long fall so the yard is cleaned up- Yay, I got my spring clean up done – finally. I have to work on a few things over winter and hope I have things ready for Spring.

Again a call out to a newsletter editor and Bulb Sale Chair and we are looking for a vice President and a director. Our new bylaws should make meetings easier as there will be less meetings and a lower quorum. ARLS continues to look at education on liliium for all gardeners no matter how

experienced.

Good growing Laurie

Newsletter Editor

Any spelling and grammatical errors are all my own. If you see a data omission please inform news@arls-lilies.org with correction.

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. **Be sure to state you are an ARLS member and wish to receive the discount**, membership is verified with ARLS due to difficulty in showing member card via the internet, phone, etc. Follow Valley K on Facebook

ARLS Affiliates

Alberta Horticultural Association

icangarden.com/clubs/aha

Calgary Horticultural Society calhort.org

The Alberta Regional Lily Society

PO Box 68138 Bonnie Doon Edmonton, AB T6C 4G0

Edmonton Horticultural Society edmontonhort.com

North American Lily Society lilies.org

RHS Lily Group www.rhslilygroup.org/

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Lily Sources

Valley K Lily Ranch Lynnette Westfall; asiatics, OTs, some martagons & species

RR1 Edberg TOB 1J0 <http://www.plantlilies.com> great resource and lily gallery. mail order only
1-780 877 2547 bulbs@plantlilies.com

Parkland Perennials Bob Yaremko ; martagons & species and peonies

Box 560 Bruderheim TOB 0S0 <http://www.parkland-perennials.com>
780 796 2382 parklandperennials@gmail.com

Parkland Lilies Fred Fellner seedlings

RR1 Vermillion 1-780-853-2355

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.

Thank you for opening your gardens to our NALS2015 delegates

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. NOP 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 LilyCrest Gardens
<https://www.facebook.com/media/set/?set=a.10150220115853204...>
1-416-614-6394 bfberg@rogers.com

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vacant- Laurie is barely coping with this until new editor comes forward.
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ARLS COMMITTEES

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Advertising & Public Relations- Suzanne Stack
Publishing Committee Chair- Shauna Willoughby
Venue Coordinator- Laurie Hepper
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Casino Chair -Ieuan Evans
NALS Liaison -Shauna Willoughby



YAKABUSKIE GARDEN July 2015 photo L. Hepper

Speakers

Hugh Skinner is going to come talk to us at the Spring AGM. The last time he was here it was a good presentation. Does anyone have a room to spare for April 15-16? If not I will plan for a hotel, but let me know if you would like a house guest that can talk about lilies. Laurie 780-455-0434

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If you have any suggestions on what/who you would like to have for future workshop/ speaker/ presentations please contact Terry, Bill or Laurie, your speaker committee, with your suggestions so we may pursue them. Your suggestions allow us to know what our members want to know or learn.

Name tags

For those members who ordered name tags, our supplier has been very ill and is on the mend, however his recovery is slow so be patient our tags are giving him a goal to strive towards.

Newsletter deadline

Feb 15 for Mar 1 Bulbulet Get your information in to news@arls-lilies.org Please put **newsletter submittal** in email "subject" so I can find it when I need it.

Beetle Musings

lilybeetle@arls-lilies.org Report your invasion.

(photo L. Hepper)

Odour- mediated orientation behaviour of the Lily beetle

Andrew Salisbury, Samantha Cook, Wilf Powell & Jim Hardie

Physiological Entomology (2012) 37, p 97-102

Summary by Laurie Hepper

The six sets of experiments were carried out to find out how much the behaviour of the beetle is based on odour.

It is known that beetles produce pheromones to attract mates and have a sense of smell to target host plants. How much influence does odour behaviour have on lily beetles?

Lily beetles have two reproductive states; diapaused which have over wintered and are fertile and ready to mate at spring emergence, and pre-diapaused which are the beetles that emerged from pupae in late June to winter that are non-reproductive until they have over wintered.

choices given to subject beetles

Experiment 1 liliun Regale vs. pot with compost

Experiment 2 5 lily beetles vs. clean air

Experiment 3 liliun Regale with 5 beetles on it vs. liliun Regale

Experiment 4 liliun Regale with 5 beetles on it vs. mechanically damaged liliun Regale

Experiment 5 liliun Regale beetle damaged- beetles removed vs. mechanically damaged liliun Regale

Experiment 6 liliun Regale with 3 larvae on it vs. liliun Regale

The experiments 1-3 were with fertile & non fertile beetles

The experiments 4-6 were with fertile beetles only.

Sex was determined by dissection after the experiment was completed.

beetles were placed in chamber in groups of 5 with a minimum 20 repeats for each experiment

fertile diapaused beetles were wild caught; non-fertile, pre-diapaused, beetles were lab raised.



Lilioceris lili

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It was not determined if the fertile beetles had mated before the experiments. (*mated beetles may have different odour behaviour*)

Results & Conclusions Summarized: *my notes in blue*

Experiment 1

A the fertile beetles showed a definite preference 63% for lily scented air versus a pot with compost 37%

B the non-fertile beetles did not show a marked preference 52% went for the lily smell over 48% to the compost- *inconclusive for behaviour*.

Experiment 2

A the fertile beetles, male & female, showed a preference for clean air over the chamber occupied with beetles 64% - *fertile beetles may usually avoid other beetles without a lily host*.

B the non-fertile male beetles did not show any preference 50/50 while the non-fertile females went to the clean air 59%- *non-fertile female beetles may usually avoid other lily beetles*.

Experiment 3

A the fertile beetles show a preference for the lily with beetles 57% with the fertile females having more preference 60% - *fertile beetles show a preference for populated lilies*

B non-fertile beetles show a marked preference for the lilium Regale 62% with the non-fertile males 67% avoiding the infested plants more than the non-fertile females 57% - *non-fertile beetle behaviour to avoid populated plants*.

Experiment 2 & 3 support thesis of non-fertile beetle migration to un-populated lily colonies. (unknown if promoted by odour behaviour)

Experiment 4 57% of the fertile beetles showed preference for the lily with beetles with the fertile females 71% having a marked preference, while the fertile males were more undecided with a 48% preference for the lily with beetles- *conclusion females are attracted to lily + beetles (and may show more of a preference if unmated)*.

Experiment 5 fertile beetles tended to show more avoidance 54% to beetle damaged lilies with no active population- *[good reason to remove beetles and wash lilies]*

Experiment 6 fertile beetles are 63% more likely to avoid larvae infested plants with the fertile females 67% more likely to avoid larvae populations.- *competition avoidance by reproductive females. females more likely to find host plant with no larvae to lay eggs. (unknown whether larvae or feeding damage odour? causes avoidance)*

Note: over 1000 beetles were killed during these experiments.

OUTSIDE THE BOX DESIGN WORKSHOP

Floral design is becoming more and more creative and the ARLS Design Section at the Annual Shows would like our exhibits to show this "outside the box" creativity.

ARLS will be sponsoring an educational presentation by a professional floral designer on ultra modern design followed by a hands on workshop on January 30, 2016. Participants will be charged a fee for materials provided.

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Participants will have a chance to complete designs to take home and are expected to show off their new skills at the Annual Lily Show July 23 & 24 2016.

If you are interested please contact Cecilia Bertram at bertramc@telus.net or call 780-469-1085. First 15 paid participants get to work with a Floral design judge & educator.

Devonian Botanic Garden news

If you visit and have a concern about the lily beds call Arnold Semeniuk, DBG liaison. 780-987-4763

The DBG Martagon lily record is ready for download with the newsletter. This list was supplied to ARLS at the AGM for members to fill in the historical data of the DBG lilies. If you would like a copy emailed to you contact pres@arms-lilies.org Sherrie is finalizing the catalogue of lily data to have an accurate botanical accession record.

Events at the garden: check out the website for all events. www.Devonian.ualberta.ca

Twitter @DevonianGarden; Facebook DevonianBotanicGarden

GENERAL MEMBERSHIP MEETING DATES:

WINTER MINGLE Feb 7, 2016 Crestwood Hall 14325- 96 Ave EDMONTON 2- 5 pm

There is a potluck goodie table. Bring a guest, something for the silent auction, your lily project, seeds to share, lily photos, a flash drive to put your garden pics on the big screen.

ARLS ANNUAL GENERAL MEETING SPRING 2016

April 16, 2016 Woodvale Hall on the Millwoods Golf Course, Edmonton (nearest bus on 50th Street)

AGM Elections 10- 11 am followed by networking, lunch & speaker

Bring something for the silent auction.

non-members - \$5.00 to attend seminars, members - no charge

LILY SHOWS 2016

ARLS 21TH ANNUAL MARTAGON SHOW July 2 & 3 2015 *(date changed to avoid conflict with NALS)*

Devonian Botanic Gardens Hwy 60 Spruce Grove. contact Lorne to clerk, judge or volunteer.

NALS 69TH International Lily Show Chicago July 6- 10 2016

ARLS 31ST ANNUAL LILY SHOW July 23 & 24 Greenland Garden Center Hwy 16 Sherwood Park

Nominations for the NALS Regional Medal are being solicited please submit to Shauna Willoughby.

GROWING MARTAGON LILIES

Beautiful, Versatile, Hardy, Exotic Lilies

Martagon lilies can take up to 8 years to flower from seed and many more years to multiply a newly named selected seed grown martagon to produce enough bulbs of that lily for sale.

Time takes money but once martagons are established in your garden they will grow forever. Martagons do best in cold to very cold climates from the Central U. S. states to Northern Canada. They are fully zone 2 hardy.

When martagons are imported across national borders they must be squeaky clean and certified free of any pests or diseases.

MARTAGON GROWING GUIDELINES

1. **SOIL** – Martagon lilies hate wet feet. Raised or well-drained soil or sloped grounds is suitable.
2. **WHERE** – Martagons grow well in full sun, half sun or even shade. They do exceptionally well under light tree or shrub cover or alongside buildings or fences. In full sun they need mulching or annual or perennial ground

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cover around them to keep the soil cool in summer. In full shade the trees must be deciduous so that winter rains and snow replenish the soil moisture so that it is available in spring for the very early emerging martagons just as it is for daffodils. Evergreens such as spruce and pine drain the soil of water during the winter months depriving the martagons of this much needed spring moisture.

3. **SOIL TYPE** – Martagons appreciate leafy humus or peat moss. Mix the peat or compost up to a 50/50 mix in sandy or clay soils and dig down to a depth of 12 – 18 inches (30 – 45 cms) because they will be there for a very long time.
4. **PLANT ASAP** – As soon as you purchase your lilies plant right away in summer or fall so that they can form new roots immediately just as for daffodils and tulips. Ensure that the soil is moist to give them the best possible start.
5. **PLANTING DEPTH** – Martagon lilies like 3 – 6 inches (7 – 15 cms) coverage depending on bulb size, deeper for bigger bulbs. This is essential since the best lily feeding roots grow out of the stem above the bulb. The bulb roots are for soil anchorage and some feeding the stem roots above the bulb are for feeding and supporting the stem which can be up to 8 feet (2 – 4 metres) tall.
6. **SPACE** – Plant the bulbs about 6 inches (15 cms) apart to allow for bulb multiplication and plant if possible in groups of 3 – 5 for display. Unlike most other lilies, particularly Asiatic which must be replanted every few years. Martagons can be left for 10 – 15 years or more or until the bulb clumps are pushed to the surface by sheer numbers.
7. **FERTILIZER** – Water the bulbs immediately on first planting with warm water if possible. Soak the surrounding soil very well to enable rapid re-rooting in the well-drained area. Fertilize in the second year of growing with a general fertilizer such as the granular 10-10-10 or soluble 20-20-20 both of which should contain trace levels of micronutrients especially important on sandy soils. Using 20-20-20 for example you would use a level teaspoon of fertilizer per gallon of water per 5 – 10 feet (1.5 – 3 meters) of row 3 – 6 inches (7 – 15 cms) away from the base of the stem. For organic users a tablespoon of wet well soaked alfalfa pellets per bulb mixed into the soil. Rabbits eat the dry ones.
8. **STAKE AND LABEL NEW MARTAGONS** – Create a plan of where you put the bulbs and list the names of each variety. Lost tags are common. Martagons may not come up the first year after planting or come up and die back quickly or flower fairly normally.
9. **MULCH** – Compost or peat moss keeps the weeds down in summer and lily roots and bulbs cool. Moisture stays longer under mulch. Water martagons during dry weather from June to August.
10. **SEED** – If you do not intend to harvest martagon seed then remove the spent flower heads only ASAP. This allows the lower stem and leaves to produce nutrients (food) for the bulb(s) making them bigger for the next year.
11. **PESTS** – Pocket gophers (moles) and voles (mice) (Wikipedia) do not eat martagon bulbs. Though moles may sometimes eat only the roots of martagon bulbs.
12. **FLOWERING** – Some vigorously growing martagons may not emerge for one or even two years. We do not know the causes but if you are curious you can very carefully remove the soil above the non-emerged bulbs and find one or more healthy bulbs skipping the current year.

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13. **MULTIPLICATION** – Martagons depending on variety, may multiply rapidly or slowly. A low price indicates easy multiplication, i.e. Claude Shride.
14. **TRANSPLANTING** – Martagons can be transplanted anytime that you can dig into the soil from dormancy through emergence into flowering. The best time is August to September in Northerly areas and August to October if you grow them further south.
15. **PERSISTENCE** – “MARTAGONS ARE FOREVER”. If martagons like their growing sites they will persist through weeds, woodlots and drought. They can endure total neglect once established. A sight to behold each spring, towering, gilded long lasting flower heads in a kaleidoscope of colour heralding the onset of summer.

MARTAGONS a comprehensive book by Eugene Fox for detailed information.
Dr. Ieuan Rhys Evans 780-987-4398 ieuan@tbwifi.ca

Style & Stigma By *L. Wilmottiae* aka Wilma

It's good to be back on Mysteria Lane as travelling the World is not only tiring but very expensive and life on the lane is peaceful, quiet and understandably inexpensive. Some may wonder about my absence but you may recall the *Liliaceae* Reunion held in 2014 was time sensitive and demanding and the President of the Reunion Committee, *L. philadelphicum* had many disagreements and outright arguments to settle amongst the *Lilium* clan and the various distant cousins who also wanted to enhance their presence. I just had to get away from it. This was a trying time and after planning and hosting this large event it was necessary to make a trip Overseas for some rest, relaxation and calm and to re-group and make some life altering decisions. Should I stay in China? Should I live in the Netherlands where the best of the best *Lilium* live, should I travel into the mountain regions of Nepal to discover more *Lilium* family and settle there, or should I just return to Mysteria Lane where life usually is relatively normal? I say relatively normal as thinking back I can recall some unusual and sometimes frightening events on the Lane.

I decided to return and am happy that decision was made, however I find not much has changed and a walk to the Horte Cafe that first morning was quick evidence that the “usuals” still hang out there for coffee and a news exchange every single solitary morning. Politely it is called a news exchange but a less polite way of putting it is merely the morning gossip session. My first encounter of a news exchange was listening to *L. superbum* comment on what *L. Davidii* had used as compost last season and why he thought it was a terrible idea. *L. grayi* joined in with another version of facts and his thoughts on this and *L. pumilum* became flustered because when both *L. Davidii* and *L. grayi* entered the room the subject suddenly changed to weather. The next comments were on how awful *L. Amabile* looked at the last Garden Meeting and whether or not she had found another Nu & Used Shop to buy clothing. It was awful to listen to these comments but fun also as I knew by listening that the decision to return home was the right one. I am back amongst those I can easily relate to and am looking forward to some new adventures and new friendships as I notice there has been an influx of new *Lilium* to exchange viewpoints and news with.



An ARLS membership is a great gift for a gardening friend or relative.

This issue is your last one if you have a 2015 membership. Please send in your membership renewal by March 30, 2016.