



The Trillium

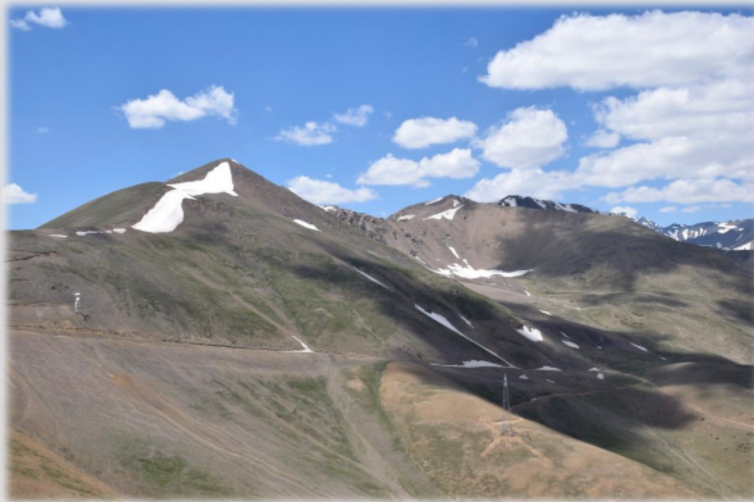
Piedmont Chapter
North American Rock Garden Society
Chapel Hill, Durham, Raleigh, NC
www.facebook.com/piedmontchapterNARGS

Tian Shan, The Celestial Mountains

by Vojtěch Holubec and David Horak

The Tian Shan mountains are in the middle of the Asiatic continent, extending 2,400 km from the Pamirs, Tajikistan to Xinjiang, NW China to near the Mongolian border. Two-thirds of the range is within China. The range is 300–600 km wide with the maximum width being 800 km. The Tian Shan consists of a series of east-west parallel ranges lying roughly on the 43rd latitude, averaging 3,000 m above sea level. The Tianshan mountain chain is one of the seven largest ones in the world. It is the largest isolated east-west stretching mountain range globally. It is surrounded by six deserts in three directions, including the world's largest flowing desert Taklamakan, as well as Gurbantunggute, Atirau, Moinkum, Kyzylkum, and Karakum Desert.

Orographically, the Tian Shan is divided into the northern, western, central, eastern and inner parts - intermountain basins. The northern Tian Shan includes the Kyrgyz, Kungey Ala Tau (Ala Too), Ketmen, Trans-Ily Ala Tau and Chu-Ily mountain ranges. The western part of the Tian Shan includes the Talas Ala Tau, Chatkal, Sandalash, Pskem, Maidantal, Ugam ranges and



Fergana, range that is at right angle to the other ranges. The highest points of the western Tian Shan are Great Chatkal (4,503 m) in the Chatkal range, Manas (4,482 m) in the Talas Ala Tau and Baubash Ata (4,427 m) in the western part of the Fergana range.

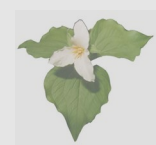
The highest peaks of the Tian Shan are concentrated in a remote cluster, located on the borders of Kyrgyzstan, China, and Kazakhstan. Pik Pobedy (Dzhengish Chokusu in Kyrgyz, Victory Peak, Tomur Feng in Chinese) is the highest point in the Tian Shan (7,439 m), extending over the Kyrgyz-Chinese border. Not far away, to the north on the

Kazakh-Kyrgyz border, is the Tian Shan's second highest peak, Khan Tengri (Lord of the Spirits) with a height of 7,010 m.

The western half of the Tian Shan breaks down into a series of ridges and lake basins that extend westwards towards the steppe of Central Asia. In the central part, from Pik Pobedy and Khan Tengri westwards, the range forks into two main wings: along the Chinese-Kyrgyz border forming Central Tian Shan and along the Kyrgyz-Kazakh border forming Northern & Western Tian Shan. The southern wing terminates at the Pamiro-Alai ranges.

The eastern half of the Tian Shan continues to the distant Xinjiang province, along Bogda Shan and Borohoro Shan and terminates with the Karlik Shan (Barkol/Ba Kou Shan, in Hami district), which also reaches almost 4300 m.





The western part of Tian Shan is botanically much more rich. It is caused mainly by water, it gets at least twice more precipitation, than the eastern part. Climatic factors often cause significant differences between northern and southern slopes. Southern slopes are usually warmer, without forests and consisting of large areas of dry mountain steppe. Steppe gradually passes into subalpine meadow or thicket vegetation.

In more humid conditions, at altitudes over 2500-3000 m, grasslands typical of the subalpine zone are widespread. The two most widespread formations are domi-



nated by *Phlomis oreophila*, *Geranium saxatile* or rarely *Iris brevituba*. *Phlomis* meadows can host communities with *Anemone protracta*, *Trollius altaicus*, *Ranunculus albertii*, *Scabiosa*



alpestris, *Pulsatilla campanella* and many other species. *Geranium* meadows are frequently found in warmer parts of Tian Shan or on southern slopes. Their floristic composition is generally similar to that of previous formations, but are normally poorer, usually with masses of *Geranium* with grasses such as *Phleum pratense*. If shrubs are in meadows, they are usually juniper, *Caragana jubata* or *Spiraea tianschanica*. Subalpine meadows are also famous for their spring display of *Ranunculus*, *Anemone*, *Gagea*, *Taraxacum* or even mountain tulip species.



Alpine meadows can be found at an altitude of approximately 2800-4000 m. Among the main dominants of alpine meadows can be found *Carex* or especially *Kobresia* species and others including *Allium atosanguineum*, *Polygonum viviparum* and *Ligularia alpigena*. Formations of *Leontopodium ochroleucum*, *Taraxacum* species and *Alchemilla* species are usually indica-



tors of higher grazing pressure. Other typical plants of alpine meadows are *Gentiana kaufmanniana*, *Astragalus alpinus*, *Androsace sericea*, *Potentilla nivea* and





many others. *Carex melanantha*, *Saxifraga hirculus*, *Comastoma falcatum* or *Pedicularis* species are frequently found in wetter places.

A special high-altitudinal formation is characterised by the dominance of *Kobresia* sedge and usually a low coverage of grasses. Because of frequent occurrence of *Kobresia* dominated communities in areas of screes and rocks in high altitudes the presence of mosses and lichens are sometimes noticeable. This low vegetation is home to some very decorative plants such as *Gentiana kirilovii*, *Saussurea leucophylla*, *Papaver croceum*, *Tulipa dasystemon*, *Eritrichium tianshanicum* but also *Cerastium tianschanicum*, *Gastrolychnis apetala* and many others.



Higher up than the continuous grassland or *Kobresia* vegetation, form a mosaic of stones and scattered vegetation on mountain slopes. Depending on the humidity, there are dry slopes with prevailing lichens and grasses, including *Festuca kryloviana* or *Helictotrichon desertorum* and dicots such as *Androsace sericea*, *Potentilla gelida* or *Astragalus* and *Saussurea* species. Wet slopes are more diverse with mosses, kobresias and some alpine species for example *Richteria pyrethroides*, *Smelovskia calycina*, *Viola tianshanica*, *Androsace ovczinnikovii* or *Papaver croceum*.

Screes in the alpine and subnival zones are usually home to cushion plant vegetation. The most important examples are *Thylacospermum caespitosum*, *Sibbaldia tetrandra*, high-mountain *Oxytropis* species and similar cushion plants. These large cushions are accompanied by several low herbs growing among rocks or, occasionally, through the cushions. These include *Chorispora bungeana*, *Saxifraga flagellaris* or *Leontopodium ochroleucum*. Not only cushion plants, but also interesting herbs such as *Saussurea involu-crata* and *Rheum reticulatum*, grow in screes. Unstable high mountain screes host some of the most wonderful gems of Tian Shan, such as *Corydalis fedschenkoana*, *Waldbeimia tridactylites*, *Androsace lehmanniana* or *Leiospora exscapa*.

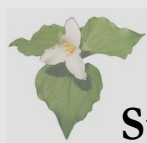


Because of the dominance of rock and high altitude, vegetation typical of alpine moraines is connected with screes. Many of the above mentioned scree species are distributed there. They are also found along ridges and in wet soil and rocks due to the high humidity. Mosses prevail, along with some wetland species, the iconic being *Trollius lilacinus*. But several *Carex* species or *Chorispora macropoda* and *Saxifraga hirculus* can also be found there.



Tian Shan is very friendly to visitors. In summer it has predominantly good, clear sunny weather. The hospitality of most of the local people is famous. It is difficult to pass local herdsmen without being invited to their tent or yurt for refreshment. We hope our book will contribute to a better general knowledge of Tian Shan species and to a greater interest in how they grow and will bring new admirers to the magnificent and spectacular Tian Shan.





Steppe brother: Vojtěch Holubec coming to America!

by Panayoti Kelaidis

Reprinted with permission, this excerpt from Panayoti's blog.



There are few people I admire and envy more than this man: his day to day work is dedicated to the preservation and study of germ-plasm (seed!) of plants as head of the Czech seed bank. And for more decades than he would care to admit he has traveled the world in study of plants.

As a youngster, he was one of those who developed the Czech school of crevice gardening. He documented his knowledge in a book in 1992 called "the Rock Garden and its plants"--which alas, has not been published in English yet--but there's time. He has beautifully displayed his technique in his extraordinary private garden which I featured on Prairie Break last year.

We first met in the 1980s when he was a visiting scholar at a university in Texas: he drove up to Colorado several times to botanize and visit--even then he had a vast resume of exploration throughout Eurasia.

He has offered an incomparable list of fantastic plants on his personal *Index Seminum* over the decades--many of which are

new to horticulture. I remember obtaining *Hemerocallis graminea* from a collection of his 35 years ago from Mongolia.

This is one of the most remarkable members of its genus, and his is the only introduction I'm aware of and the list could go on for pages!

He produced a monumental coffee table tome on the flowers of the Caucasus (the only such book thus far available on this scale for that important mountain range) and will be launching a brand new volume on the flowers of the Tian Shan on his lecture tour this fall. ☞





St John's, Newfoundland

by Amelia and Richard Lane

The 2018 Annual General Meeting of the North American Rock Garden Society (NARGS) was held in St John's, Newfoundland-Labrador, Canada, July 6-8, 2018. David White, Amelia Lane and Richard Lane attended from the Piedmont Chapter.

St John's is a wonderful city of 200,000 sitting on the most eastern coast of North America. Main street faced the protected St John's harbor with the windy hills of Newfoundland protecting St John's from the Atlantic Ocean. Temperatures ranged from 60 degrees at night to 75 degrees during the day. No rain. As an island in the Atlantic Ocean, Newfoundland was a windy place day and night. Our hike to Signal Hill on the edge of the city enjoyed winds so strong that, at the top, we all had to hold our hats and hold tight to the ground to keep from flying into the ocean. The view was and the plants were fantastic.



The meeting actually began with pre-meeting open private gardens on July 4 and 5. We rented an auto to visit the wonderful and varied gardens of St John's NARGS members. Seven private gardens were available for touring. Each garden and each gardener were varied in style and plants. Bodil Larsen's garden was a natural rock garden with the garden sloping to the house and full of naturally placed rocks. Todd Boland's garden more urban with grassy paths through a relatively flat garden. All of the gardens had a wonderful selection of cold tolerant plants, both dwarf specimens and large rhododendrons and conifers, beautiful lady slippers, and those little bun al-pines that grow so well for them.

The meeting began Friday night with two international speakers Friday, Saturday, and Sunday nights. Gene Herzberg of St John's introduced us to the bogs and fens of St John's, which we would see the next morning. John Mitchell of Scotland reported on his travels to Tibet. On Saturday night, Jay Ackerly of Vancouver introduced us to the "Wet" Coast of Vancouver Island and of the mountains surrounding Vancouver.



Jamie Ellison of Nova Scotia introduced us to the "Small Woody Plants" of Newfoundland. On Sunday, Todd Boland of St John's and meeting host introduced us to the Alpines of Newfoundland's Limestone Barrens. John Mitchell took us to the "stans" (Afghanistan, Turkmenistan, Uzbekistan, and Tajikistan) and to unique plants of the tumultuous region.

NARGS Annual Meetings are a fabulous time to meet passionate gardeners from across the world and across the US and Canada and visit with old friends from past meetings. Everyone we spoke to complimented the Piedmont Chapter on the wonderful 2017 NARGS Annual meeting in Raleigh. We all shared gardening tips and tricks and travel adventures to gardens around the world. The next NARGS Annual Meeting will be in the Delaware Valley of Pennsylvania, in Frazer, about 25 miles west of Philadelphia, May 3-5, 2019. Put it on your calendar for a wonderful time visiting gardens, learning about plants and gardens, and meeting other passionate gardeners. ❧



Book Signing September 29

Vojtěch Holubec's new book "The Tian Shan and Its Flowers" will be available for sale before and after the meeting.

David Horák
Born in Zlín, he works in a traditional family nursery - Hrdýho kůlky, and is Ph.D. student in the Plant Biostatistics research group in the Department of Botany, Palacký University in Olomouc. His research is dedicated mainly to Liliaceae geophytes but also includes some other genera of mountain plants. As his hobby, he maintains a large collection of cultivars and species from the genus Saussurea. He has joined Vojtěch Holubec on his visits to Asia since 2014.

Vojtěch Holubec
Born in Prague, he is an agricultural botanist and plant geneticist by education. He is the head of the Czech Gene Bank and is the National coordinator of plant genetic resources. He is engaged in projects on crop wild relatives research and conservation. He has participated in many field missions for wild and cultivated flora. His love of alpine and high mountain flora led him to Central Asia and Tian Shan first in 1994 and since then he has visited the region many times. He was President of the Czech Rock Garden Clubs for 3 terms. He was awarded the Lyttel Trophy by AGS.

The Tian Shan and its Flowers
Vojtěch Holubec & David Horák

The Tian Shan and its Flowers
Vojtěch Holubec & David Horák

Piedmont Chapter Board Elections

At our September 29 meeting we will be conducting a special election for new Board members. The Nominating Committee has nominated Cyndy Cromwell and Ralph Whisnant as new members of the Board. Also, current Board member Elsa Liner has been nominated for Secretary of the Piedmont Chapter. As always, nominations from the floor will be accepted.

I hope that all of you can attend this important meeting and participate in these elections. Thanks in advance for taking part in a vital part of the Piedmont Chapter's existence! ☞

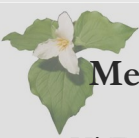
Charlie Kidder, Chair Nominating Com.

Invitation from Carolyn Leith

Join the Extension Master GardenerSM volunteers of Vance/Warren counties for a **Gathering of Gardeners: Practical Strategies for Gardening in Challenging Times and Conditions** on September 22, 2018, 9:00 a.m. to noon. Topics include:

- *Building and using rain barrels*
- *Gardening with straw bales*
- *Selecting great plants for challenging conditions*

Participants can also get their gardening questions answered from a panel of Master Gardener volunteers. The event will be at Buck Spring Park in Warren County, located at 217 Nathaniel Macon Dr. (A Warrenton address, but closer to Littleton/Lake Gaston). Registration is \$10 in advance or \$12 at the door. All the details are available at <https://warren.ces.ncsu.edu/site-warren/2018-fall>



Message from our Plant Sales Coordinator

Hi Everyone,

I hope your summers have been good. Surprising as it might seem, we're now only a little less than a month from our first meeting of 2018/2019. On September 29 we will welcome Vojtěch Holubec from the Czech Republic. Please note that it's not on our usual third Saturday of the month.

On September 29 we will also hold our Fall Plant Sale, where we welcome donations of some of your *choicest* plants. As always, we are looking for attractive plants in pots one quart/3.5" or larger, labeled with scientific name. Our Piedmont Chapter members are discerning gardeners, so the usual caveat applies; "If you wouldn't buy it, probably no one else... will". And please stick around if you donate plants for the sale; if they don't find new homes, we'd appreciate it if you'd take them back with you.

And as a special incentive for all of you to attend and loosen up your purse strings, **Tony Avent** will be bringing some special offerings for auction!

In the meantime, enjoy the rest of your summer! ☞

Charlie Kidder
Plant Sales Coordinator
Piedmont Chapter NARGS

Lasting Impressions' Garage Gallery Sale
Saturday, October 27, 2018
4904 Hermitage Dr, Raleigh, NC 27612
9am- 12 noon

Please join us for our Fall Open Garden and Sale.
Concrete Leaves and Hypertufa Troughs will be on sale
for 20% off
and we have lots of plants
ready for your fall planting.

email amelia.lane@gmail.com
if you have questions.

NARGS Piedmont Chapter Meetings Fall 2018/Spring 2019

Sept. 29, 2018

Vojtěch Holubec

Prague, Czech Republic
NARGS Traveling Speaker
"The Flora of Central Asia"

Oct. 20, 2018

Tony Avent and Jeremy Schmidt, with
Potluck Picnic at Juniper Level Botanic Garden
"Crevice Garden and Troughs Installation Tour"

Nov. 3, 2018

Janice Swab

Retired, Meredith College
Raleigh, N.C.

"Madagascar, the "Eighth Continent":
a botanist's delight"

Jan. 19, 2019

Doug Ruhren and Edith Eddleman

Durham, N.C.

JC Raulston Arboretum

"Elizabeth Lawrence and Her Influence on
Southern Gardening"

Feb. 9, 2019

Cyndy Cromwell and Nancy Doubrava

Raleigh, N.C.

"Botany and Horticulture of Yunnan, China"

Mar. 16, 2019

Jeremy Schmidt

Plant Delights Nursery

Raleigh, N.C.

"Trillium Hunting in the Southeast"

Apr. 20, 2019

Jane McGary

Past Editor, NARGS *Rock Garden Quarterly*

"Bulbs in Their Habitats"

Milwaukie, Ore.

Successful Chapter Plant Sale at Raulston Blooms

Despite cold and rainy weather, plant enthusiasts turned out to in May in search of new and different gems for their gardens. We raised \$1435 from Raulston Blooms day sales and \$462 from a remainder sale for total of \$1897. We owe big thanks to the chapter members who braved the raw weather for all of us. ☞



Editors note: The original Bylaws of the Piedmont Chapter were written in 2004. Recent review revealed that revisions were needed to bring some sections into current practice and to update others. The Board has amended the Bylaws as presented here for your information. ☞

BYLAWS OF THE PIEDMONT CHAPTER, NARGS

Article I. NAME The name of this organization shall be the Piedmont Chapter of the North American Rock Garden Society, hereafter called the Chapter.

Article II. STATEMENT OF PURPOSE The Chapter is organized and operated solely for educational purposes. The Chapter seeks to increase and disseminate knowledge of plants suitable for growing in the Southeastern US, with an emphasis on rock gardening; to disseminate information concerning the culture of plants suitable for rock gardens in North Carolina through exhibitions, publications, meetings, tours, public gardens and other appropriate means. These bylaws, in conjunction with the Articles of Association, comprise the provisions for the operation of the Chapter.

Article III. MEMBERSHIP

Section 1: Qualifications for Membership.

Any person interested in rock gardening, or the protection or cultivation of rock garden or other Southeastern plants may become a member by paying dues.

Section 2: Types of Membership

A. Individual Membership shall be open to anyone individual who supports the purpose of the Chapter and pays annual dues. Additional types of membership may be determined by the Board. Each member is eligible to vote and hold office.

B. Honorary Membership shall be granted to any person by the Board of Directors in recognition of special services to the Chapter. Such member shall have all the privileges granted to an individual member, but shall not be required to pay dues. The duration of such membership granted to an individual shall be set by the Board of Directors upon conferring the membership.

C. Life Membership is available upon payment of a one-time fee.

Section 3: Dues

A. Annual dues shall be set by the Board of Directors and are payable on or before July 1 of each year.

B. Annual dues shall cover the fiscal year, which is defined as the period of July 1 through June 30 of the following year. A new member who joins and pays the annual dues after January 1 shall be a member in good standing until June 30 of the following year.

C. Failure to pay annual dues by October 1 may result in the removal of the member from the membership roster and the loss of all privileges until such time as dues are paid.

Section 4: Termination of Membership

Membership shall be terminated at the request of the member, on failure to pay required dues, or by the action of the Board of Directors with due cause.

Article IV. BOARD OF DIRECTORS

Section 1: Members

The Board of Directors shall consist of the officers, the immediate past Chair of the Chapter (ex-officio), the editor of the newsletter and three to six members elected from the membership on an at-large basis. All members of the Board of Directors shall be Chapter members. No member shall have more than one vote.

Section 2: Meetings and Responsibilities

A. The Board of Directors shall meet at the call of the Chair, but at least two times during the year. The meeting dates, times and places shall be published with the regular membership meeting notices. Board meetings shall be open to any member. Chairs of standing and special committees and the editor may attend board meetings for the purpose of reporting on the activities of their committees and act in an advisory, non-voting capacity.

B. The Board of Directors shall be responsible for the management of the business and operation of the Chapter in accordance with the Articles of Association and these By-Laws.

C. Out-going Officers shall deliver to their successors in office all records and other materials which belong to the office within thirty days after July 1.

Section 3: Vacancies, Resignations, Termination and Absences

A. Resignation from the Board should be given in writing and received by the Chair. A Board member missing three (3) consecutive meetings without notice may be removed from office. A Board member may be removed from office for other reasons, with proper justification, by two-thirds vote of the remaining Board. When a vacancy of an elected position occurs on the Board, the remaining members shall elect a successor to fill the unexpired term.

Article V. OFFICERS AND THEIR DUTIES

The officers of the Chapter shall be a chair, vice-chair, secretary and treasurer. Their respective duties shall be as described below:

A. CHAIR - Shall be elected from the membership of the Chapter. The Chair shall preside at the meetings of the Chapter and Board of Directors. The Chair shall appoint all committees, except the Nominating Committee, and shall be an ex-officio member of all committees other than the Nominating Committee. The Chair may call special meetings of the Chapter, Board of Directors or any Committee. In an emergency situation, the Chair shall have the authority to sign checks for payments of obligations of the Chapter.



The Chair or designee shall be the spokesperson for the Chapter at meetings of the North American Rock Garden Society (NARGS).

B. VICE-CHAIR - Shall be elected from the membership of the Chapter. The Vice-Chair shall head the Program Committee and shall be responsible for arranging the programs, locations of the meetings and for the preparation of the Calendar of Events. The Vice-Chair shall assume the Chair's duties in the Chair's absence, incapacitation, resignation, or upon delegation by the Chair.

C. SECRETARY - Shall be elected from the membership of the Society. The Secretary shall keep minutes of each meeting of the Board of Directors, provide the minutes for approval at the next meeting and maintain permanently such records. A copy of the minutes shall be sent to the Chair within 10 days after the meeting. The Secretary shall keep official documents for safe-keeping and transmit them to the next secretary. The Secretary may handle correspondence at the request of the Chair. The Secretary shall prepare and submit to the NARGS' National Office an annual report of Chapter events, if requested. Such report shall be sent to the NARGS President before March 1 of each year, after first being approved by the Board.

D. TREASURER - Shall be elected from the membership of the Chapter. The Treasurer shall be the custodian of the funds, accounts and financial records of the Chapter. The Treasurer shall maintain accurate records of monies due, collected and disbursed. The Treasurer shall collect membership dues and other receivable funds, pay bills for authorized expenses and report to the Board of Directors and Membership on the Chapter's financial matters at the Annual Business meeting. Bills shall be paid within 30 days of receipt and funds received shall be deposited within 30 days. With the approval of the Board, the Treasurer shall invest the Chapter's Reserve Fund at the most advantageous rate of return. The Treasurer shall maintain the official membership roster and provide a list of members to the Editor for the distribution of all notices and newsletters to the membership.

Article VI. SELECTION OF OFFICERS & AT-LARGE DIRECTORS

Section 1: Nominating Committee

A. Ninety days prior to the Annual Business Meeting, the Chair of the Chapter shall appoint two members of the Chapter to serve on the Nominating Committee. The immediate past Chair of the Chapter shall be the third member of this committee and shall function as its chair. If the immediate past chair cannot serve, the next most recent past chair shall assume the chair. The committee shall seek suitable candidates for the various officer and at-large positions to be filled.

B. The duration of the membership on the Nominating Committee shall be for one year and each appointed member may not serve more than two consecutive one-year terms.

C. With the agreement of the Committee members the Chair of the Nominating Committee shall publish a slate of candidates for officers and at-large directors. The names of the nominees shall be submitted to the Chapter Membership for consideration 30 days in advance of the Annual Business meeting.

Section 2: Election and Terms of Office

A. At the Annual Business meeting of the Chapter the Chair of the Nominating Committee shall place in nomination the slate of candidates previously reported. Additional nominations from the floor may be made. Nominees whose names are presented from the floor must have given their prior consent, whether present or not.

B. Newly elected officers and directors shall be designated as Officer/Director-Elect and shall not take office until July 1 of the new fiscal year. They shall meet as a group, however, to prepare plans and a budget for the coming fiscal year and work with the current Board of Directors to ensure a smooth transition of duties.

C. Each officer shall serve a term of two years and each director shall serve a term of three years. The term of office shall begin on July 1 following the Annual Business Meeting. No member shall hold more than one elected office at a time.

D. Elections of at-large directors may be staggered so that only two occupied at-large director positions will be up for election in any one year.

E. Vacancies in Chapter offices shall be filled as follows: The Vice-Chair shall fill the vacancy of the Chair. All other vacancies shall be filled by election by the Board. Those filling vacancies shall serve until the next Annual Meeting but may be elected for another term.

Article VI. MEETINGS OF THE CHAPTER

Section 1: Regular Meetings

A. Regular meetings of the Chapter shall be held on the third Saturday of each month or on dates set in the Calendar of Events by the Board of Directors. Written notice of meetings shall be submitted to the membership.

Section 2: Special Meetings

A. Special meetings of the Chapter may be called by the Chair, or by three members of the Board of Directors, or by 25 % of the Membership. In the later two cases a written request must be submitted to the Secretary.

B. Special meetings shall be held at such time, date and place as designated by the meeting notice mailed by the Secretary to all the members at least ten days in advance of the meeting.

Section 3: Annual Meeting

A. The Annual Meeting shall be held on the third Saturday of April or another date as directed by the Board.

B. Brief oral reports of the past year activities and finances shall be presented by the Chair and Treasurer. Each chair of a standing committee shall prepare and submit to the Chair a brief written report covering the previous year's activities. Such reports shall be retained by the Secretary as a permanent record for the Chapter and a copy shall be forwarded to the new chair of the respective committee. When appropriate, excerpts of reports may be printed in the newsletter.

C. The out-going Chair of the Chapter may appoint a two-person Audit Committee for the purpose of examining and attesting to the accuracy of the Chapter's financial records and the Treasurer's reports for the past fiscal year. This committee shall report to the Board of Directors at the first meeting of the Board and to the membership at the next regular meeting of the Chapter.

Article VII. STANDING COMMITTEES AND THEIR DUTIES

Section 1: Appointments

All committees shall be appointed by the Chair of the Chapter. Such appointment shall be made before Oct.1 and the name of each committee chair may be published in the next newsletter following Oct.1.

Section 2: Standing Committees and Duties

- A. Hospitality - Shall be responsible for beverage service, appointing members on a rotating basis to bring snacks, and posting signs to identify meeting room.
- B. Publicity/Membership - Shall be responsible for membership recruitment, welcoming and orientating new members about activities of the Chapters and events to come, and for achieving news coverage of the Chapter activities and events.
- C. Tours - Shall be responsible for selecting gardens or other places and arranging tours of these gardens or places by the Chapter with the assistance of the Board of Directors.
- D. Fund Raising - Shall be responsible for developing and, with the approval of the Board of Directors, implementing programs to raise revenues for the Chapter, including plant and seedling sales, book sales and other appropriate activities. The committee chair or designated person shall be responsible for collecting the revenues from such activities or programs and shall within eight (8) days turn them over to the Treasurer.
- E. Publications - Shall be chaired by the Editor. The committee shall be responsible for the production and publication of special reports and other educational materials.
- F. NARGS Liaison – Shall be responsible for monitoring the activities of NARGS and reporting to the chapter Board, newsletter editor, and the membership the goings on in NARGS regarding upcoming meetings, significant activities by NARGS, upcoming tours, expeditions, and overall general information about the national organization.
- G. Annual Service Awards - Shall consist of the three previous Annual Service Award winners. The members shall determine who if any chapter member or members is most deserving of national recognition for service provided. After selecting the candidates, the committee chair shall send to the NARGS President the name of the candidate(s) together with a short write-up about the accomplishments of the candidate(s) to be published by the NARGS.
- H. New standing and special committees may be established by the Board of Directors when needed to carry out activities of the Chapter.

Article VIII. NEWSLETTER AND PUBLICATIONS

Section 1: Newsletter

- A. A newsletter, to be known as *The Trillium*, shall be published on a schedule established by the Board of Directors but not less than four times a year. The sole purpose of the newsletter shall be to disseminate information relating to plants, meetings and official communications from the Board of Directors.
- B. The newsletter shall be produced and distributed by the Editor.
- C. The Editor shall be serve as a member of the Board. The editor shall solicit worthy articles, notes or other material for the newsletter from members. The editor shall also contact the Chapter Chair, Treasurer and Secretary for any business news to be published in the Newsletter.

Section 2: Publications

Occasionally the Board of Directors may approve special reports, or other educational materials for publication and distribution or sale to the membership and other interested persons. The preparation, publication and distribution of such reports or other educational materials shall be the responsibility of the Publications Committee under the direction of the Editor.

Article IX. AMENDMENTS TO THE BYLAWS

- A. These by-laws may be amended by the Chapter Membership at any regular or special meeting in the following manner:
 - 1. The proposed amendment(s) shall be sent to each member at least 10 days prior to the first meeting when amendments are to be discussed.
 - 2. At a meeting subsequent to the first discussion by the membership of the proposed amendment(s) and upon 10 days prior written notice of the meeting, the by-laws may be amended by a two-third affirmative vote of the members present and voting.
- B. Adopted amendment(s) to the By-Laws shall be published in the issue of the Piedmont Chapter's *The Trillium* following the adoption.

Article X. PARLIAMENTARY AUTHORITY AND QUORUMS

Section 1: Parliamentary Authority

For items not covered in these by-laws, Robert's Rules of Order (latest edition) may serve as the final authority. The Chair may appoint a Parliamentarian who shall be consulted regarding interpretation of these by-laws and other parliamentary questions.

Section 2: Quorum for Regular and Special Meetings

Thirty percent of the membership shall constitute a quorum to conduct official business of the Chapter such as voting, amending by-laws, and approving the annual budget.

Section 3: Quorum for meetings of the Board of Directors

Five members of the Board of Directors shall constitute a quorum to conduct official business of the Chapter.

Article XII DISSOLUTION

The Chapter may be dissolved with the assent given in writing and signed by not less than two-thirds (2/3) of voting members. Upon dissolution of the Chapter, any assets of the Chapter shall be transferred to a nonprofit corporation, association, trust or other organization recognized as tax exempt under Section 501 (c) 3 of the IRS Code, that is devoted to such similar purposes as the Chapter, such as the three public gardens in the Triangle area (JC Raulston Arboretum, NC Botanical Garden, Sarah B Duke Garden), along with the proceeds from the sale of any and all assets owned by the Chapter. The decision regarding disbursement of assets shall be made by the Board of Directors.

Meet A New Member to the Chapter: *Barbara Hall*

Why did you join the NARGS Piedmont Chapter? I re-joined the NARGS after a long absence (I first joined in the 1980's) because I met the new editor of the Quarterly, Joseph Tychonievich who now lives in this area of Virginia. (Joseph has been to my garden, so he could tell you something about it from his perspective.) I joined your chapter since there isn't one closer to me and because you meet at the Raulston Arboretum which I enjoy seeing. Also, I know Tony Avent who is a member of your chapter.

What is a plant you love? What is a plant you hate? I particularly like the Asian counterparts to our native plants, especially those in the genus *Asarum*, *Podophyllum* and *Polygonatum*. I also grow lots of ferns, *Epimediums* and *Hostas*. In woody plants, I'm fond of plants in the genus *Rhododendron* and I especially like Japanese maples. I'm fascinated by crevice gardening and hope to learn more about it through your group. My most hated weed currently is mulberry weed!

What is your preference for labeling in your own garden? I use pre-numbered metal tags which I record in a database on my computer. I find that they are not as obtrusive in the garden and they are very sturdy, unlike white plastic tags.

What else can you tell me about you? I was the Executive Director of the American Rhododendron Society 1989-1997. Currently, I am active in the Middle Atlantic Chapter of that organization. I also belong to some local gardening groups.

My husband, Al, and I are both retired. We work together in the garden although I am the resident "plant nut" whereas he is the "builder"... If I think of something I'd like to have, he tries to build it for me! Our garden has been on tour for various groups, but I prefer to share it one on one with other "plant nuts" who can appreciate the unusual plants that we have collected. Many of these plants have come from Plant Delights which we like to visit at least once or twice each year. ❧

Plant Profile *by Charlie Kidder*

Botanical name: *Eryngium aquaticum* var. *ravenellii*

Family: Apiaceae

Category: herbaceous perennial

Primary uses: water gardens, moist areas, but also drier sites

Dimensions: 30" H by 18" W

Culture: moist to moderate soil, full to part sun

Bloom time: late summer

Color: blue-purple

General attributes: spiky flowers followed by attractive seed heads



Commonly known as rattlesnake master or marsh eryngo, although the latter name would better apply to the var. *aquaticum*. Var. *ravenelli* is native to wet savannas, generally over a calcareous substrate, from SE North Carolina down to Florida. This eryngium has succeeded in two quite different environments at the JCRA, one being immersed in water at the Cascade outside the McSwain Center entrance. The other plant is growing in the Scree Garden, just below the stairs to the roof. Although certainly a drier environment than the Cascade, the Scree soil retains adequate moisture, all the while being well-drained. That said, to me the plant growing in the Cascade does look happier, although the one in the Scree has produced one seedling.

Reportedly plants being offered for sale as *Eryngium aquaticum* are often *E. yuccifolium*. The latter plant has much spiner, broader leaves, and in my garden reseeded to the point of obnoxiousness. ❧



NARGS Piedmont Chapter Meeting

JC Raulston Arboretum

9:30 Gathering Time 10 am Program Begins

Sept. 29, 2018

Vojtěch Holubec

Prague, Czech Republic
NARGS Traveling Speaker

“The Flora of Central Asia”

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Refreshments: Maurice Farrier

Message from the Chair

Amelia Lane

Summer is winding down, less heat and humidity, and the beginning of cooler nights and thoughts of fall! For me this is a time of change in the garden and in the air. Summer is so abundant with green and growth (all needing to be pruned!) that I welcome the slower pace of September and the coming of fall color, and a rest period for all the perennial plants.

Best of all, it is time for our chapter meetings to resume! Our speaker on Saturday, September 29th is Vojtěch Holubec, NARGS travelling speaker from the Czech Republic. He will speak on “The Flora of Central Asia.” How fortunate we are to learn about the flora of an area that we may never visit, but this talk may be the enticement we need! Tony Avent will also be at our meeting with some exciting plants that could end up in your garden if you are the highest bidder!!

We will be having a special election at our September 29th meeting to fill the position of Secretary and two positions on our Board. Thanks to Joann Currier and Tom Harville for their service as Board members and thanks to Marlyn Miller for her service as Secretary. Our chapter has benefitted from their commitment and participation as Board members and Officer. Please see *The Trillium* article for election details from our Nominating Chair.

Bobby Ward, our Program Chair, has an excellent line-up of speakers for us in 2018-2019. There is a wide range of topics and something to interest all of our members. Mark our meeting dates now on your calendar to attend as many as possible.

I will soon be asking members to assist with various committees this year; planning trips, workshops, publicity, awards, garden tours, and placing a group plant order. Please think about how you would like to participate and send me an email. Helping on a project or committee is the very best way to get to know your fellow members.

Thank you for being a member of the Piedmont Chapter NARGS and sharing your love of gardening!!

See you on Saturday, September 29th at the JC Raulston Arboretum for our first meeting!! ☺

You are Invited to Bring Goodies to Share, If Your Last Name Begins with>>>



Sept A—C

Jan J—Me

Oct D—Fi

Feb Mi—P

Nov Fi—H

March R—T

April W—Z