



CALYPSO CHAPTER  
Coeur d'Alene, Idaho

Calypso Companion

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The Calypso Chapter of the Idaho Native Plant Society meets on the first Wednesday of March, April, May and October. The Chapter schedules field trips during the spring, summer, and fall. The Calypso Chapter of the INPS was founded in 1991. We continue our efforts in promoting interest in native plants and native plant communities, collecting and sharing information on all phases of botany concerning this flora. Membership is open to all interested in the native plant community.

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## **DUES ARE DUE for 2019.**

### **Agenda**

Business meeting

    Treasurer's report

    Old business

    New business

Featured plant

Presentation: "Diversity of the Grasses" by Derek Antonelli

### **Meeting Notes of May 1, 2019**

Derek welcomed guests and members to our meeting at our new location at the Fairgrounds in the Wildlife Building #21. Laura gave the treasurer's report with a club balance of \$ \$1188.38 in Checking and \$346.18 in Savings, for a total of \$1534.56.

The group voted unanimously to donate \$57.50 for a copy of the new “Flora of the Pacific Northwest” to be auctioned at the McCall Annual Meeting to benefit funding ERIG.

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### **Next Meeting**

The next meeting is **Wednesday October 2, 2019** at 7:00 p.m. at the Wildlife **Building, North Idaho Fairgrounds, Coeur d’Alene. This is new location.**

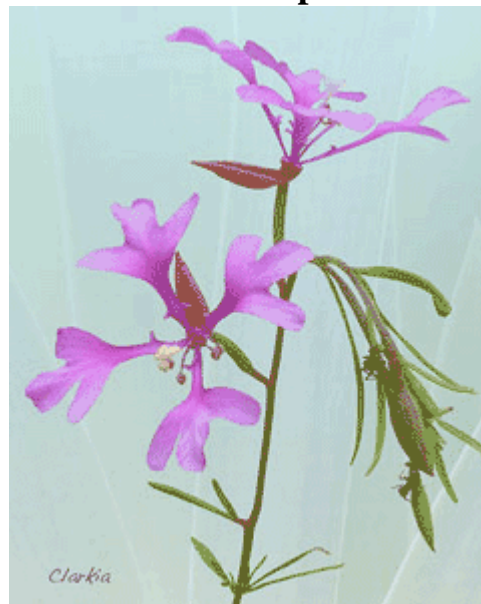
### **Featured Plant for October**

Clarkia- *clarkia pulchella*- Family, Onagraceae, Deerhorn Clarkia, Pinkfairies.

**General:** This annual species may grow to 1 foot, prefers moderately dry well drained soil and has both male and female organs. It cannot grow in the shade and the flowers are very attractive to bees. Frederick Pursh, gave this flower the scientific name **Clarkia pulchella**.



Clarkia flower



C. pulchella flower and leaves

### **Program: “Diversity of Aquatic Plants” by Derek Antonelli**

**-Submergent Plants** These plants have stems and leaves found entirely under water with flowers and seeds supported on stems above the water. They may be attached to the bottom or not and grow from near shoreline to depths of many feet.

Submergents adapt to reduced or no roots by absorbing nutrients directly from the water making root hairs less important.

Other adaptations include highly divided leaves making a greater surface area for photosynthesis and absorption and less resistance in moving water. Submergent aquatics depend on buoyancy of water for support and are very limp when removed making for reduced epidermal protection and drying out quickly.

The flowers of emergent generally emerge above the water for pollen exchange.

An example of a submergent plant is Large-Leaf Pondweed (*Utricularia vulgaris*).



### **-Floating Plants**

Leaves generally float on the surface of the water and may be free floating enabling them to drift. They may also be attached to the bottom. The leaves grow to, then float on the surface. Adaptations may include a waxy coating which repels water and keeps the leaf afloat and keeps water and debris off the surface.

An example of a floating plant is Watershield (*Brasenia schreberi*).



Water shield (*Brasenia schreberi*)



Brasenia flower

### **-Emergent Plants**

These plants are rooted to the bottom but their stems and leaves extend out of the water. They don't grow in water deeper than 4 or 5 feet. They dominate marshes. Their adaptations include having stiff or firm stems allowing them to stand above the water's surface, and often have specialized tissue (aerenchyma) to get oxygen to the submerged portions. These are spongy, porous and air filled.





One example of an emergent plant is Water Smartweed (*Persicaria amphibia*)



Smartweed with flowers



smartweed as it appears in the water

Another example of an emergent plant is Arrowhead, Duck Potato, Wapato (*Sagittaria latifolia*).



Arrowhead leaves



Edible tubers of Arrowhead



Arrowhead flower



## Field Trips 2019

### April 20- Q'emiln Park

Our group was joined by NIC Botany Instructor Mike Kelly whom Laura took a class from.



Grass Widow  
*Olsynium douglasii*



Our group with prof. Mike Kelly



western polypody  
(*Polyodium hesperium*)

### May 11, Blue Creek

Nice weather greeted us for a plant stroll at this BLM site.



Heart-Leaved Arnica  
*Arnica cordifolia*



Our group



Ball Head Waterleaf  
*Hydrophyllum capitatum*

### June 8, Marie creek

We have visited this area often and always find it interesting.



Lady Fern  
*Athyrium filix-femina*



Bracted Lousewort  
*Pedicularis bracteosa*



Some of our Group



August 8, Crystal Lake



Our group included Moscow Members Mike, Ava and Elizabeth



Poke Knotweed-*Polygonum phytolaccifolium*



Columbian monkshood, *Aconitum columbianum*



Mike getting the shot



Pleated gentian-*Gentiana affinis*

Roman Nose-August 31



It was a challenging hike!



Pink Mountain Heath-*Phyllococe impetriformis*



## Earth Day Celebration at the Coeur d'Alene Library



Our Booth- "The Amazing Structure of Plants"



We made "Newspaper Hats"

## Annual Meeting in McCall, Idaho. July 12-15

This year our meeting in McCall was held at Ponderosa State Park and hosted by the Pahove Chapter. On Saturday many attended the Lichen/Bryophyte Workshop at the Park led by Alma Hanson and Roger Rosentreter. Lichens have many uses it was noted such as pharmaceutical, bird nesting material and in nitrogen fixation for example.



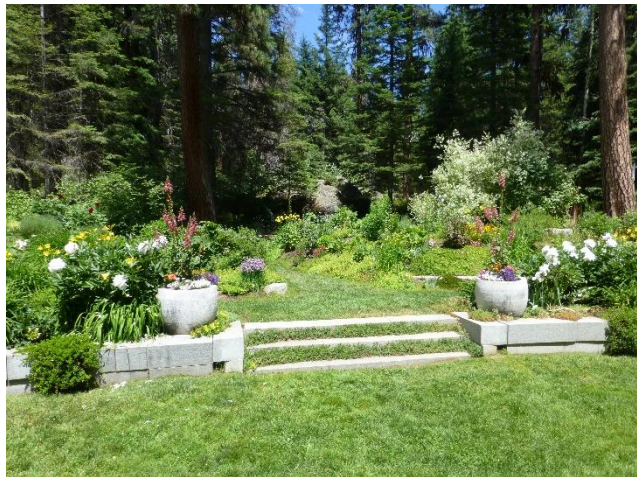
Roger explains the use of a spraying liquid when Identifying lichens.



Alma explains features of a lichen.



After this morning field trip many attended a Charlies Garden Tour. Leaders were Chris Davidson and Barbara Ertter. This is private garden that is open to the public. It was Lovely.

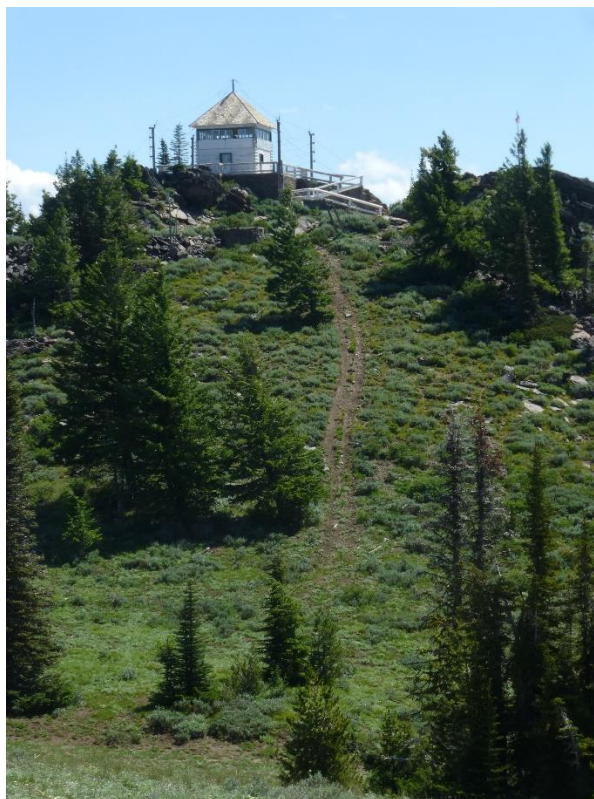


Saturday night we were treated to a Mexican dinner held in town at the Senior Center followed by a talk “Natural History of McCall, Past & Present” presented by Barbara Ertter.

Sunday one field trip offered was a hike to No Business Lookout. Leaders were Beth Corbin and Ann Debolt.



Beth with some *Castilleja* paintbrush



No Business Lookout

Submitted by Karen Williams