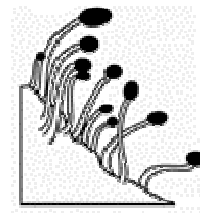


# NORTHWEST LICHENOLOGISTS



## 2014 Newsletter

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## Upcoming Events

### **NWL Annual General Meeting**

Our annual general meeting is generally held in conjunction with the [Northwest Scientific Association](#).

### **The 85<sup>th</sup> Annual Conference of the Northwest Scientific Association / Plum Creek Distinguished Lecture Series**

Our program schedule and conference details are at <http://www.northwestscience.org/> (Select Annual Meeting, then At A Glance & Program Technical Sessions)

The Future of Forests & Forest Management: Change, Uncertainty, and Adaptation, University of Montana – Missoula, March 26-29, 2014.

Our Invited speakers for the Plum Creek Distinguished Lecture Series, include:

- Richard Waring – Oregon State University
- Janneke Hille Ris Lambers & Derek Churchill – University of Washington
- James Lutz – Utah State University
- Crystal Kolden – University of Idaho
- J. P. Verschuyl – National Council for Air and Stream Improvement
- Travis Belote – The Wilderness Society
- Hugh Safford – University of California
- David Peterson – U.S. Forest Service
- Steven Running – University of Montana

Special Sessions & Sponsors include:

- Research Natural Areas – US Forest Service, Region 1
- Ecology & Management of Forested Wetlands – Montana Wetland Council
- Riverine Sciences – The Center for Riverine Science & Stream Re-naturalization
- Bryophytes & Lichens – Northwest Lichenologists

Contributing Papers - Technical Sessions include:

- Forest Ecology & Management
- Soils & Geology
- Plant Ecology
- Fire Ecology
- Community Ecology
- Natural Resource Management
- Aquatic Ecology

Field Trips & Sponsors include:

- Milltown Dam Removal& Restoration – Natural Resource Damage Program
- Urban Forestry & Ashby Road/Stream Restoration – Montana Department of Natural Resources& Conservation
- Bitterroot River RNA – US Forest Service
- Lichens & Bryophytes of Limestone Cliffs – Northwest Lichenologists

**Thank you and we hope to see you at the conference in Missoula!!**

Sincerely,

**Andrea Pipp**

**Botanist, NWSA Board Member & 2014 Conference Chair**

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## Recent Events

### **NWL Soil Crust Survey around Moses Coulee, WA**

In September 2013, Daphne Stone led a team of soil crust experts and other lichen experts on a search for soil crust lichens in the Moses Coulee area of the Spokane District BLM, south of Grand Coulee dam. Attendees included Molly Boyter, BLM Botanist for the area and grant initiator; Pam Camp, previous BLM Botanist for the area; Roger Rosentreter, recently retired BLM Botanist in Idaho and soil crust expert; Cecile Guidan, expert on the genus *Endocarpon* from the British Museum; Heather Root, expert on soil crusts in WA and OR; Jeanne Ponzetti, WA soil crust expert; Rob Smith and Erica Heinlen, bryologists; lichenologists Scot Loring, Amanda Hardman, Michael Russell, and Daphne Stone; and Katy Beck, east side Contract Botanist.

The group camped in the area and divided into small teams that each searched approximately 4 sites each day, making comprehensive collections at each site. During the site visits, the teams discussed what they were seeing, talking about ecology and disturbance levels and the effects on the soil crust species. This sharing of knowledge and interest was one important product of the grant.

The areas we searched were in several different types of *Artemisia* habitat, scablands and Conservation Preserve Program sites that have been tilled and planted with crested wheatgrass. We found various levels of grazing impact. Once identifications are completed we will be able to get a picture of which species thrive where, and what impact grazing has had on the soil crust communities. We also hope to be able to correlate age since the last disturbance with the soil crust communities.

Hundreds of collections were made during the trip. They are now being identified and curated by several of the participants. One complete set of specimens will be deposited at University of Washington Herbarium. We hope to publish our findings in an as yet undetermined journal. So far, with approximately half of the specimens identified, we have found about 120 species of soil crust mosses and lichens.

Many thanks to the ISSSSP for funding this project.





## *2013 NWL Certification Test (Westside Macrolichens)*

The certification in 2013 was held at the Cispus Learning Center, located in the Cascades on the scenic Cispus River south of Randle Washington. Daphne Stone and Scot Loring were the examiners.

Two plots were established along the Cispus River. They were each 0.38 hectares in size and included both coniferous forest and riparian hardwood communities. Both plots were in close proximity and were similar in lichen composition. Collection was permitted only for epiphytic species located at least two feet above the ground, including litterfall. Overall, 76 species of macrolichens were found.

There were seven examinees, of which three were certified (Bruce McCune (recertification), Charity Glade, and Elisa Alphandary). A full list of certified lichenologists is available at <http://home.comcast.net/~nwlichens/certified.htm>). Two additional attendees took the test as a training course.



## Upcoming Workshops / Courses:

### **Siskiyou Field Institute**

The Siskiyou Field Institute is located in the Illinois Valley of southwest Oregon and offers a wide variety of courses relating to the natural history of the Klamath-Siskiyou Mountains. A full list of courses is available at: <http://www.thesfi.org/Index.asp>

#### **Introduction to Lichens**

**Instructor: Daphne Stone**

**Dates: Wednesday-Thursday, April 2-3, 2014**

**Location: Deer Creek Center**

**Tuition: \$170**

Discover the complex beauty of lichens. Examine lichen structures – both algal and fungal parts - and learn the terms on which lichen identification is based. We'll collect lichens from meadows and forests around Deer Creek Center, then identify and package the specimens in a lab session. Learn to key those collected lichens using *Macrolichens of the Pacific Northwest*, the major reference for regional lichenologists. You'll have opportunities to complete the workshop with a small personal lichen reference collection.

#### **Intermediate Bryophytes: Rock Substrates**

**Instructor: Scot Loring**

**Dates: Tuesday-Thursday, Oct. 14-16, 2014**

**Location: Deer Creek Center**

**Tuition: \$255**

Many bryophytes (mosses, liverworts, hornworts) are found only on specific substrates such as certain types of rock. The Siskiyou are known for their complex geology and high diversity of bryophytes. Come learn techniques used to identify bryophytes, including microscopy, and become familiar with using keys and floras. We'll then apply this knowledge to learning the bryophytes collected from differing rock types at local field trip locations.

## Northwest Botanical Institute

### Pacific Northwest Bryophyte Identification Workshop

This spring a three-day, intermediate level bryophyte identification workshop will be offered on the University of Oregon campus. The class will meet Sunday--Tuesday, March 23-24-25. This workshop is designed to help participants with a strong botany background and a general knowledge of the basics of bryophyte structure and life cycles. Folks who have some experience identifying bryophytes can expect to kick their level of competence with the regional flora up a notch or two.

The class involves one day of field experience followed by two days of integrated lectures and lab practice. A classroom with microscopes for all students is available. Students will be asked to bring dissecting tools and specimen packets. The day in the field will emphasize sight recognition with handlens, recording ecological data and handling of voucher specimens.

The focus of this workshop will be an intensive exploration of the contemporary identification keys pertinent to our area. Primary attention will be directed to mastering Contributions Toward a Bryoflora of California: II A Key to the Mosses by D. Norris and J. Shevock (Madroño 2004) with attention also given to Elva Lawton's 1971 Moss Flora of the Pacific Northwest. Identification of liverworts and hornworts will emphasize Contributions toward a Bryoflora of California: III Keys ...for Liverworts and Hornworts by W. Doyle and R. Stotler (Madroño 2006). Demonstration of available electronic keys to liverworts and hornworts will be featured with in-class practice for students with laptop computers.

Participants will receive a generous selection of valuable, mostly unpublished material, both printed and in digital formats. They will get a comprehensive review of online resources and the most useful current literature from other parts of the world, too. An ample selection of study specimens will be provided. Participants will be taught lab techniques needed to observe the features used in keying with supervised practice of these techniques.

Space is limited; early registration is recommended. Cost is \$250.

Credit card transactions by PayPal; submit to [davidwagner@mac.com](mailto:davidwagner@mac.com)

Send check or money order, made out to Northwest Botanical Institute, to  
Northwest Botanical Institute  
P.O. Box 30064  
Eugene, OR 97403-1064

About the instructor: David Wagner, Ph.D., has been studying the bryoflora of the Pacific Northwest for four decades. He is past Director of the University of Oregon Herbarium and continues as Courtesy Associate Professor of Biology. He is a leading expert in PNW bryophytes and is nationally recognized for dedication to teaching field bryology. He specializes in liverworts and is author of the digital Guide to Liverworts of Oregon. His photomicrographs of bryophytes are widely admired.

Contact: Telephone: 541-344-3327    Email: [davidwagner@mac.com](mailto:davidwagner@mac.com)

Website: <http://fernzenmosses.com>

## **A workshop on the Lichen Family Pannariaceae with Dr. Peter Nelson at Southern Oregon University, April 18-20, 2014**

The Cryptogam Biodiversity Observatory at Southern Oregon University and the Northwest Lichenologists are proud to welcome Dr. Peter R. Nelson for a three day workshop focusing on the lichen family Pannariaceae in the western hemisphere. This cryptic and diverse group of cyanolichens includes genera such as *Pannaria*, *Fuscopannaria*, *Erioderma*, *Leioderma*, *Parmeliella* and others. Dr. Nelson is currently a postdoctoral researcher at Oregon State University and a member of the board of directors for the American Bryological and Lichenological Society. He has published several papers in recent years on this group of lichens spanning the western hemisphere from Alaska to Chile. He will give presentations on ecology and species distribution for this group, providing specimens for observation from his extensive work in arctic Alaska, the Pacific Northwest and South America. The time will be split between lectures, identification of local species in the lab and a day in the field on the Oregon coast. Field time will focus on Pannariaceae habitat requirements as well as recognition of the major genera, and federally listed Survey & Manage species. Microscopes and reagents will be available for use by participants. The cost is \$200 and those interested in attending should contact John Villella at [jvillella@siskiyoubiosurvey.com](mailto:jvillella@siskiyoubiosurvey.com). This is the fourth year that this workshop series has taken place and it has sold out very early in the past, as space is limited you are encouraged to sign up early to ensure your place.



## *News and Projects from NW Lichenologists at Home and Abroad*

(Generally in the order received)

**From Trevor Goward:**

### **EDGEWOOD LICHEN REVIVAL II**

*USNEA*: **THE BEARD LICHENS** - 1-4 AUGUST 2014

Instructors: Trevor Goward & Diane Haughland

Please join Trevor Goward and Diane Haughland in British Columbia's Clearwater Valley for a weekend workshop on *Usnea*, the Beard Lichens!

The genus *Usnea* has long been one of the last great 'Gordian knots' of macrolichen taxonomy. But no more. Thanks to the brilliant insights of Swiss lichenologist Philippe Clerc, we now have the necessary tools for demystifying the beard lichens once and for all – at least so far as consistently naming them goes.

Lichen Revival II has two goals: first to introduce our latest taxonomic concepts – some new species! - based on Clerc's insights; and second to instruct in the rarefied art of 'reading the thallus reading the environment,' with emphasis on *Usnea*. You'll never look at the Beard Lichens the same way again.

After an introduction to *Usnea* in the field, participants will spend time in the lab, so you might want to bring a small number of specimens to work on. For best results: (1) select only well developed material with the basal portions intact; (2) abide by the one-thallus-per-packet rule; and (3) test your material ahead of time using the standard spot tests. TLC would be better if you can manage it, but spot tests will do.

WHEN: Lichen Revival II begins Friday evening (1 August) at 7:00 PM with an introductory talk by Trevor entitled *Blowing in the Wind: The Life and Time of Hair Lichens*. Saturday and Sunday will be dedicated to field work and lab time. The workshop ends with a brunch send-off on Monday morning.

WHERE: Friday evening's talk will be held at the Upper Clearwater Community Hall (Google Earth: 51 51.840'N, 120 0.979'W). Other activities will take place at Trevor's home, Edgewood Blue, ten minutes by foot from the Community Hall (Google Earth: 51 52.121'N, 120 01.325'W).

REGISTRATION: This event will be capped at about 20 people. To register, please contact John Villella at [jvillella@siskiyoubiosurvey.com](mailto:jvillella@siskiyoubiosurvey.com).

COST: There is no charge for this event, though donations are welcome. Please discuss this with John when you register.

READING: To get the most out of Lichen Revival II, have a look at the essays at this link: <http://www.waysofenlichenment.net/ways/readings/index>

MORE INFORMATION: Following registration, participants will receive an information package including a preliminary events schedule as well as details on meals, accommodations, weather, footwear and clothing. It will also help you decide what equipment to bring.

NOTE TO ATTENDEES OF THE ABLs MEETINGS IN BOISE: Lichen Revival II takes place the weekend following the ABLs meetings in Boise Idaho: an unofficial post-conference field

workshop.

**MORE INFORMATION:** Upon registration, participants will receive an information package giving details on meals, accommodations, weather, footwear and clothing.



Clearwater Valley and Clearwater River, looking south, by Jason Hollinger



Edgewood Blue, where the Lichen Revival will be held, by Jason Hollinger

## From Fred Rhoades:

Here are a few stereo cards Fred recently created. If you do not have a stereoscope, these can still be viewed by backing away from the computer screen and/or shrinking the photo size, then relaxing your eyes as if you were viewing a distant horizon until the split images overlap).

### ***Caloplaca verruculifera* & *Caloplaca rosei***

Kiket Island near La Conner WA

© 2012 Fred M. Rhoades



### ***Evernia prunastri***

Larabee State Park south of Bellingham WA

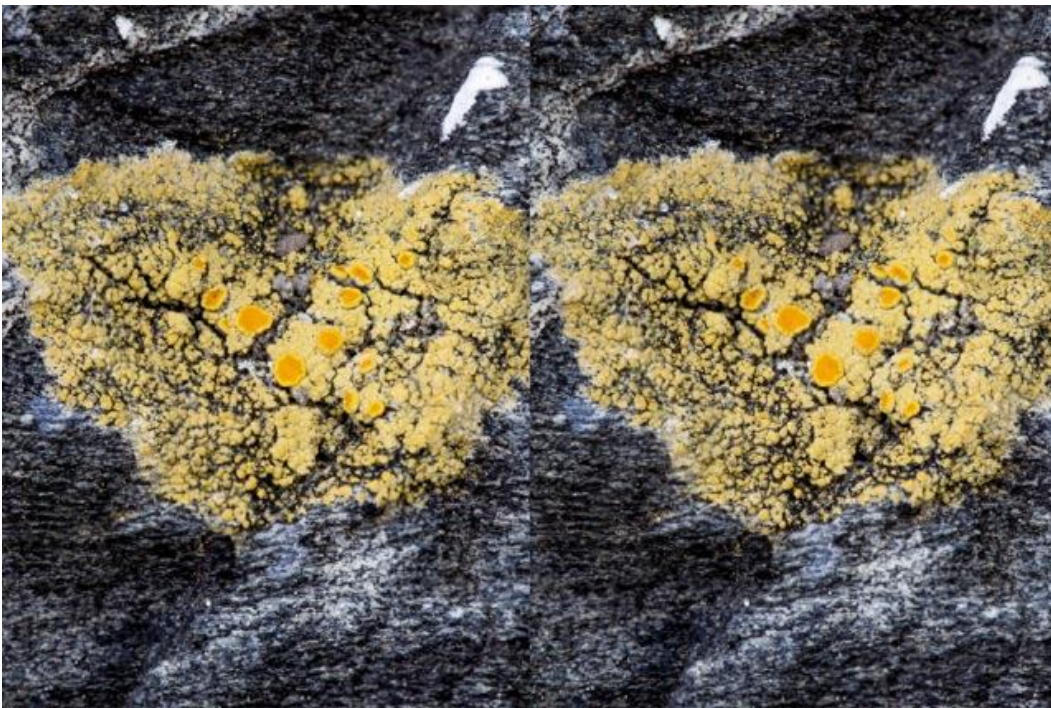
© 2011 Fred M. Rhoades



**Peltigera canina**

Woodstock Farm, Bellingham WA

© 2012 Fred M. Rhoades



Caloplaca murina

## From Bruce McCune:

### Nomenclatural Changes in *Collema* and *Leptogium* in the Pacific Northwest Bruce McCune

A recent paper by Monica Otálora, Per. M. Jørgensen, and Mats Wedin (2014, reference below) has greatly revised names in what we currently think of as *Leptogium* and *Collema*. Many of our common species have been placed in new or resurrected genera: *Blennothallia*, *Enchylium*, *Lathagrium*, *Rostania* and *Scytinium*. Yes, we have many new names to learn. These changes are well supported by both morphological and DNA sequence data. So unlike some other groups, which have many recent taxonomic splits that are not supported by the data (Cetrarioid lichens being a great example), the changes in *Collema* and *Leptogium* look solid at this point, and are likely to stay for the most part.

The several of our species were not mentioned in the Otálora paper, so their fate has not been resolved. *Leptogium insigne*, formerly called *L. brebissonii* in our area, seems likely to end up in a genus other than those below. The recently described *Collema quadrifidum* is likely to end up in *Rostania*, based on its squarish spores. *Leptogium tacomae*, which we now realize is much more common than originally thought, is likely to be placed in *Scytinium*, but was not mentioned in the Otálora paper.

To help us learn the new genera, I give each one a brief synopsis below, as distilled from the Otálora paper.

#### List of Taxa formerly in *Collema*

*Blennothallia* Trevis. (On soil or rock, cortex lacking, partially paraplectenchymatous thallus anatomy, *Nostoc* in few-celled chains, spores transverse septate to submuriform.)

*Blennothallia crispa* (Huds.) Otálora, P. M. Jørg. & Wedin (*Collema crispum*)

*Blennothallia fecunda* (Degel.) Otálora, P.M. Jørg. & Wedin (*Collema fecundum*)

The following remain in *Collema* (On bark, rarely rock, cortex lacking, *Nostoc* in longish chains, upper surface often with *nigrescens*-type blistered appearance, spores transverse septate. ):

*C. coniophilum*

*C. curtisporum*

*C. furfuraceum*

*C. glebulentum*

*C. nigrescens*

*C. ryssoleum*

*C. subflaccidum*

*Enchylium* (Ach.) Gray (On soil or rock, cortex lacking, thallus margin often with somewhat swollen edges (*tenax* type), thallus much swollen when moist; spores transverse septate to submuriform)

*Enchylium bachmanianum* (Fink) Otálora, P. M. Jørg. & Wedin (*Collema bachmanianum*).

*Enchylium coccophorum* (Tuck.) Otálora, P. M. Jørg. & Wedin (*Collema coccophorum*)

*Enchylium conglomeratum* (Hoffm.) Otálora, P. M. Jørg. & Wedin (*Collema conglomeratum*)

*Enchylium limosum* (Ach.) Otálora, P. M. Jørg. & Wedin (*Collema limosum*)

*Enchylium polycarpon* (Hoffm.) Otálora, P. M. Jørg. & Wedin (*Collema polycarpon*)

*Enchylium tenax* (Sw.) Gray (*Collema tenax*).

*Lathagrium* (Ach.) Gray (On rock, cortex lacking, lobes concave or undulate, not much swollen when moist, spores submuriform)

*Lathagrium cristatum* (L.) Otalora, P. M. Jørg. & Wedin (*Collema cristatum*)  
*Lathagrium fuscovirens* (With.) Otalora, P. M. Jørg. & Wedin (*Collema fuscovirens*)  
*Lathagrium undulatum* (Flot.) Otalora, P. M. Jørg. & Wedin (*Collema undulatum*)

*Rostania* Trevis. (On bark or soil, cortex lacking, small to medium thallus, *Nostoc* in longish chains, spores cubical submuriform):

*Rostania ceranisca* (Nyl.) Otálora, P.M. Jørg. & Wedin (*Collema ceraniscum*)  
*Rostania occultata* (Bagl.) Otálora, P.M. Jørg. & Wedin (*Collema occultatum*)  
*Rostania quadrifida* (D. F. Stone & McCune) combination not made yet (*Collema quadrifidum*)

List of Taxa formerly in *Leptogium*

These remain in *Leptogium* (On bark, less often on sheltered rock, cortex present, medulla loose with elongate hyphae; medium to largish thallus, spores muriform)

*L. arsenei*  
*L. burnetiae*  
*L. cyanescens*  
*L. hirsutum*  
*L. pseudofurfuraceum*  
*L. saturninum*

*Scytinium* (Ach.) Gray (On all substrates, cortex present, minute to large thallus, *Nostoc* in longish chains, spores muriform):

*Scytinium aquale* (Arnold) Otálora, P.M. Jørg. & Wedin (*Leptogium aquale*)  
*Scytinium californicum* (Tuck.) Otálora, P.M. Jørg. & Wedin (*Leptogium californicum*)  
*Scytinium callopismum* (A. Massal.) Otálora, P.M. Jørg. & Wedin (*Collema callopismum*)  
*Scytinium cellulolum* (P. M. Jørg.) Otálora, P.M. Jørg. & Wedin (*Leptogium cellulolum*)  
*Scytinium gelatinosum* (With.) Otálora, P.M. Jørg. & Wedin (*Leptogium gelatinosum*)  
*Scytinium intermedium* (Arn.) Otálora, P.M. Jørg. & Wedin (*Leptogium intermedium*)  
*Scytinium lichenoides* (L.) Otálora, P.M. Jørg. & Wedin (*L. lichenoides*)  
*Scytinium nanum* (Herre) comb. nov. (*L. nanum*)  
*Scytinium palmatum* (Huds.) Gray (*L. corniculatum*, *L. palmatum*)  
*Scytinium parvum* (Degel.) Otálora, P.M. Jørg. & Wedin (*L. parvum*)  
*Scytinium platynum* (Tuck.) Otálora, P.M. Jørg. & Wedin (*L. platynum*)  
*Scytinium plicatile* (Ach.) Otálora, P.M. Jørg. & Wedin (*L. plicatile*)  
*Scytinium polycarpum* (P. M. Jørg. & Goward) Otálora, P.M. Jørg. & Wedin (*L. polycarpum*)  
*Scytinium rivale* (Tuck.) Otálora, P.M. Jørg. & Wedin (*S. Leptogium rivale*).  
*Scytinium schraderi* (Bernh.) Otálora, P.M. Jørg. & Wedin (*Leptogium schraderi*).  
*Scytinium siskiyouensis* (D. F. Stone & Ruchty) Otálora, P.M. Jørg. & Wedin (*Leptogium siskiyouensis*).  
*Scytinium subaridum* (P. M. Jørg. & Goward) Otálora, P.M. Jørg. & Wedin (*Leptogium subaridum*)  
*Scytinium subtile* (Schrad.) Otálora, P.M. Jørg. & Wedin (*Leptogium subtile*)  
*Scytinium tacomae* (P.M. Jørg. & Tønsb.) combination not made yet (*L. tacomae*)  
*Scytinium tenuissimum* (Dicks.) Otálora, P.M. Jørg. & Wedin (*Leptogium tenuissimum*).  
*Scytinium teretiusculum* (Wallr.) Otálora, P.M. Jørg. & Wedin (*Leptogium teretiusculum*).  
*Scytinium turgidum* (Ach.) Otálora, P.M. Jørg. & Wedin (*Leptogium turgidum*).

Undetermined

*Leptogium byssinum*  
*Leptogium insigne*

Reference

Otálora, M. A. G., P. M. Jørgensen & M. Wedin. 2014. A revised generic classification of the jelly lichens, Collemataceae. *Fungal Diversity* 64:275–293.

## **From Jeanne Ponzetti:**

### **Washington's Rare Lichens: Updated List Now Available**

In 2011, Northwest Lichenologists obtained funding from the U.S. Forest Service and the Bureau of Land Management to conduct a comprehensive review of the Washington Natural Heritage Program's working list of rare lichens. In response to this challenge, the Washington Rare Lichens Committee was formed. Members include Daphne Stone, Bruce McCune, Andrea Ruchty, Martin Hutten, Linda Geiser, John Davis, Katherine Glew, Chiska Derr, Suzanne Joneson, and myself. The group also consulted with regional lichen experts Fred Rhoades, Doug Glavich, and Jim Riley.

After assessing a total of 143 species for rarity, threats, and trend, the committee proposed that 28 taxa be considered Endangered, 13 Threatened, 11 Sensitive, and 1 Possibly Extirpated from Washington. In addition, we identified 23 taxa that should be monitored, 7 taxa with taxonomic questions, and 60 taxa to be dropped from the list. The committee's recommendations are currently posted on the Washington Natural Heritage website (<http://www1.dnr.wa.gov/nhp/refdesk/lists/lichens.html>). The recommendations are under review by DNR management.

The rare lichens committee welcomes your feedback. Please direct comments to me at [jmponzetti@hotmail.com](mailto:jmponzetti@hotmail.com).

## From Steve Sheehy:

### Lichen Survey at Lava beds National Monument

The Lava Beds National Monument had twenty two lichen species on its official list as of 2012. The dates on that list were from around 1954. In January of 2012, I received a research permit to increase the list of known species of lichen within the park. As of this newsletter, we now have about sixty three species to add to the list. One is a previously unknown umbilicate, which Bruce McCune is currently working on. I found this umbilicate in the Merrill-Skull Trench on April 24, 2012. There are also a few occurrences of *Umbilicaria phaea* var. *coccinea*, in the western half of the park.

The Lava Beds has about eight different geologic ages within its boundaries. They range from a mere 1,100 years to around 450,000 years of age. The diversity of lichens changes as the age of the flows increases. The younger flows have a couple dozen species, which from around 1,100 to around 10,550 years, are mostly the same species. Once you get to about 36,000 years of age, the diversity explodes. In some cases every couple of feet you travel the lichen population changes. I have been surveying for forty four days, and have only covered about two of the seventy two square miles the park covers.

I have to thank the Park Rangers that have helped me over the years. They have accompanied me through rough lava flows, cave entrances, to the bottom of very deep craters. On days they were stuck in offices, they listened for a radio call in case I got myself somewhere I shouldn't be and needed help. Thanks!



Team Lichen (left to right): Katrina, Megan, Jesse, Steve, and Amy



## From John Vilella:

This has been a busy year for me filled with great lichen projects. This past year Daphne Stone, Lalita Calabria, Greg Eide and I published the results from our study on macrolichens on Garry oaks in Washington. Thanks to all of the Northwest Lichenologist that took part in the forays. The paper is available for free online at:

[http://www.pnwfungi.org/pdf\\_files/manuscripts\\_volume\\_8/naf201317.pdf](http://www.pnwfungi.org/pdf_files/manuscripts_volume_8/naf201317.pdf) .

It is our hope that land managers will evaluate their oak lichen communities and work to conserve this unique community. Greg Eide took the lead on another paper on the subject that gives more site-specific information that will be published in an upcoming issue of *Douglasia* the journal of the Washington Native Plant Society.

Another exciting project that I was involved in was a canopy survey of *Lobaria oregana* sites in Six Rivers National Forest in northern California. I am working with fellow lichenologists Tom Carlberg, Greg Carey and Richard Brock on this project. It was amazing to get up into the trees and explore the ecology of this charismatic lichen species, we hope to add to the knowledge of this north American endemic species at the southern edge of its range.

I have also continued to explore the biology and distribution of two other lichens that are of interest to me, *Umbilicaria phaea* var. *coccinea* and *Enterographa oregonensis*. I hope to publish some new information on these lichens this year.

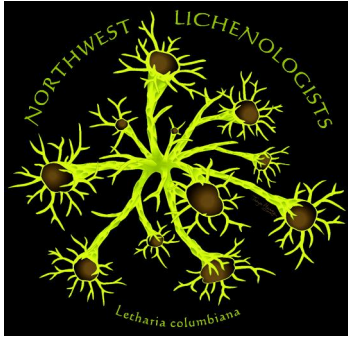
Over the last few years I have helped to organize a workshop series on lichens at Southern Oregon University. This workshop series has been very successful; in the past few years we have had workshops from luminaries in lichenology such as Steve Selva, Daphne Stone and James Lendemer. This year we will focus on Pannariaceae with Dr. Peter Nelson (see announcement in this newsletter). We are very excited about this workshop, as this is one of the most frustrating families of macrolichens for many lichenologists. There are a very few spaces left so if you are interested in attending please let me know soon so I can put you on the list.

Also I continue to edit the Bulletin of the California Lichen Society; this year is the 20<sup>th</sup> anniversary of the founding of CALS! I hope that the readers of this newsletter will consider publishing lichen related articles in the CALS bulletin. We look forward to hearing from you.

Happy lichenizing in 2014!

## [Lichen Apparel and Publications](#)

### **Letharia columbiana apparel**



Lichen apparel will be displayed on the NWL website. Prices and ordering information will also be available there. <http://home.comcast.net/~nwlichens/nwl.htm>

A note regarding the NWL website: we recently added the ability to accept credit card payments via PayPal for our monograph series, as well as certifications. This should make it easier for non-U.S. residents to buy the monographs or other promotional items from NWL.

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## Monographs in North American Lichenology

### A new series sponsored by NW Lichenologists

Northwest Lichenologists aim to produce a series of reasonably-priced, peer-reviewed, paperback academic books on lichens, with a focus on topics of regional interest, such as generic monographs, annotated state lists, ecological works, local floras, and symposium proceedings. Our purpose is to provide an outlet for very long papers and books of wide interest but that are too long for regular scientific journals. Volumes will be produced sporadically. We expect 0-2 volumes per year. Works on any aspect of lichenology will be considered.

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Vol.1

McCune, B. and R. Rosentreter. 2007. Biotic Soil Crust Lichens of the Columbia Basin. Monographs in North American Lichenology 1: 1-105. Pbk. \$30. Fully illustrated in color. [[See sample pages.](#)] ISBN-10: 0-9790737-0-7 ISBN-13: 978-0-9790737-0-0

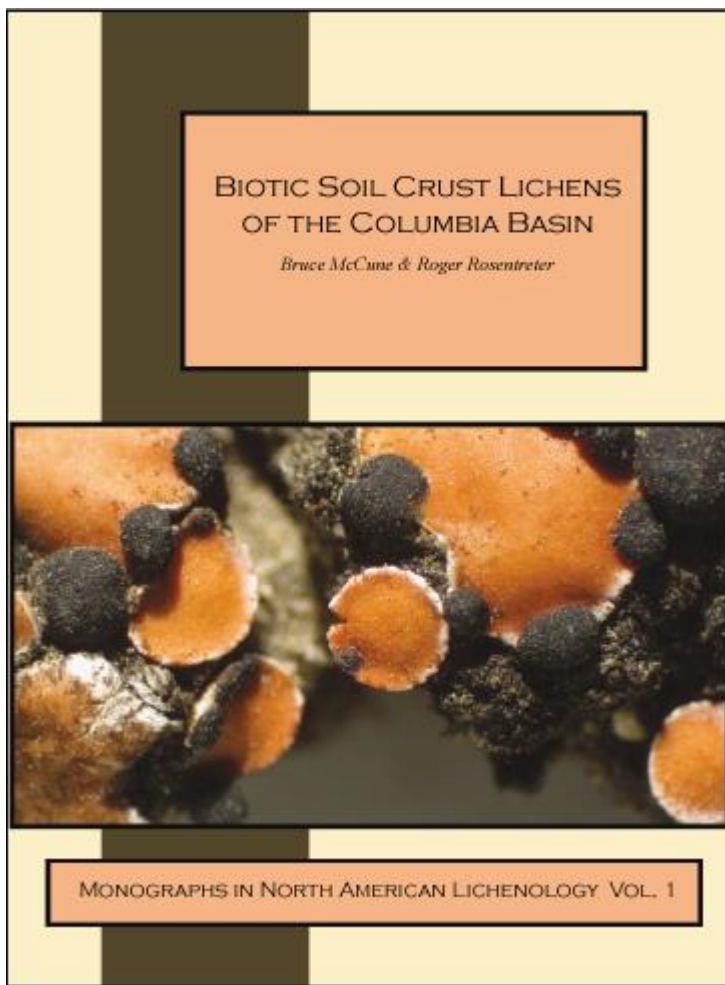
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Why write a book for identifying soil crust lichens? We have three reasons: (1) they are ecologically important, (2) they can be difficult to identify with existing sources, or they are omitted altogether, and (3) they should be more widely recognized for what they are.

Macrolichens are much better known in North America than crustose lichens, but most of the lichens found in biotic crusts are crustose lichens. Keys and line drawings for macrolichens from the Pacific Northwest and northern Rocky Mountains are provided by Goward et al (1994), McCune and Goward (1995), and Goward (1999). Brodo et al. (2001) and McCune and Geiser (1997) provided color photos for selected species. Despite these resources, almost none of the lichen species growing in biotic crusts in the Pacific Northwest have been illustrated with color photos in sufficient magnification and detail for confident identification. We hope that this book will help to relieve that problem.

Lichens in soil crusts are often difficult to identify. Currently available books for identifying lichens do not illustrate the critical features needed for identification. We try to fill this need by providing photographs of all of the species at the necessary scale  $\delta$  ranging from what you can see with a hand lens to what you can see through a compound microscope. Wherever possible, we emphasize macroscopic features, but in many cases microscopic characters make the task much easier and help to confirm the identification. This book is aimed at both technical and naturalist audiences. We hope that the use of color photographs will help someone without much experience, while we strive to provide the technical details needed for more certain identification.



## Miscellaneous

### Lichen Blitz



#### *Are you interested in hosting a NW Lichenologists lichen-blitz?*

Once or twice a year NWL members come together for a multi-day fieldtrip to a lichen-rich area in the Pacific Northwest of North America. The purpose is to get to know each other, and learn from each other while doing what we love to do: lichens. These gatherings bring together much expertise and typically a species list results from our collaborative efforts.

If you manage a natural area, and are interested in hosting a lichen-blitz, please contact us. We are a low-maintenance group that usually camps or bunkhouses in remote locations. Formal permission to collect lichens is naturally needed. NWL will periodically review its blitz requests and optional associated donation, and schedule a foray to the most interesting area.

Donations will be used to support the educational, nonprofit purposes of NW Lichenologists.

[Contact the secretary of NW Lichenologists](#)