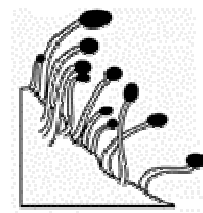


NORTHWEST LICHENOLOGISTS



2016 Newsletter

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[Stay tuned](#) for information regarding the 2016 NWL Field Trip

Visit our new and improved [website](#)!

Check us out on [Facebook](#)!

Upcoming Events

NWL Annual General Meeting

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

Spring meeting with NW Scientific Association
March 23-26, 2016
Bend, Oregon

Local host: Bruce McCune. COCC host: Sarah Fuller. Contact: mccuneb@oregonstate.edu, 541 760 2222.
The schedule below is JUST FOR lichenological activities. Many other interesting events are happening at the meeting. See: <http://www.northwestscience.org/page-1844482>

Tentative Schedule for Lichen Activities

Wednesday, March 23

Find your hotel: A block of rooms is reserved for the meeting at Mt. Bachelor Village and Riverside. McMenamins has a block of 9 rooms that they will hold until Feb 23 (not at govt rate but with a 10% discount off regular rate). These seem to be pretty expensive. An economic alternative, recommended for lichenologists is: **Days Inn, \$62 for a double, 849 NE 3rd St, 541-383-3776, reservations 800 388 7972.**

General information about additional lodging, dining, activities in Bend and vicinity:
<http://www.visitbend.com>

Evening Social: complimentary hors d'oeuvres with NWSA. 6:00pm - 8:00 pm
No-host bar featuring locally brewed beer and wines (OSU-Bend, Cascade Hall)

Thursday, March 24

8 a.m. NWSA and Central Oregon Fire Science Symposium (Wille Hall)

9 a.m. to about 1 p.m. Unofficial lichenizing, Whychus Canyon east of Bend. Meet at Days Inn parking lot, 849 NE 3rd St. Carpool.

1:20 p. m. NWSA Symposium: Convergence of Arts, Humanities, & Ecology in Inspiring Northwest Landscapes (Cascades Hall Rm 117/118)

1:30 p. m. Central Oregon Fire Science Symposium (Wille Hall)

4:30-6:30 p.m. – Poster session (lichen posters!)

Talk with the poster presenters and supplement with food & no-host bar (OSU Cascade Hall)

6:00 p.m. Lichenologists dinner at a local restaurant – McMenamins, 700 NW Bond St, 541 330 8567.
We have a 20-person (max) room reserved. Reservation under "Bruce". Be there on time to get a chair!

Friday, March 25

Time Lichens and Bryophytes

- | | |
|------------|--|
| 8:20-8:40 | Abby Glauser <i>Retooling Lichenland: Outreach and Education in the Field of Lichenology</i> |
| 8:40-9:00 | Daphne Stone <i>Observations on Rarity and Identification of Some Soil Crust Lichens</i> |
| 9:00-9:20 | Amanda Hardman <i>Calicioid Lichens and Fungi from Gifford Pinchot and Okanogan National Forests: New Records and a Summary of Findings</i> |
| 9:20-9:40 | David Kofranek <i>Rare Moss and Lichen Surveys of BLM Vale District North Umatilla Co., OR</i> |
| 9:40-10:00 | Elisa Di Meglio <i>Stereocaulon of Three Alaskan National Parks — Katmai, Lake Clark and Kenai Fjords</i> |

- 10:00-10:20 BREAK**
10:20-10:40 Bruce McCune *Nitrophilous Lichens Vary in Frequency along a Precipitation Gradient in Alaska*
10:40-11:00 Robert Smith *Twenty-Five Years of Climate Indication in Lichen Communities from Alaska to California*
11:00-11:20 Lea Condon *Morphometric Functional Trait Abundance of Biological Soil Crusts in Response to Fire Across the Northern Great Basin*
11:20-11:40 John Vilella *A Test of Survey Methods for an Old-Growth Tree Canopy Lichen*
11:40-12:00 Diane Haughland *East Meets West in Alberta's Grassland Lichen Communities in Pacific Northwest Prairies*

12:00 pm-1:00 pm. Free lunch for registered participants. (NWSA Business Lunch. OSU Cascade Hall)

1:40 -- Half-day Workshop: Rare, Threatened, and Endangered Lichens East of the Cascades (COCC Science building, Room 120, local host Sarah Fuller.)

Listed lichens for Oregon and Washington have been revised, and more of them are from the "east side" than ever before. Come up to speed on those changes and familiarize yourself with the species of concern, with particular emphasis on species that occur east of the Cascade crest. This includes a wide variety of habitats, including forests, woodlands, rangelands, and rock outcrop areas. The region of special emphasis includes eastern Washington and Oregon, Idaho, and western Montana.

Each leader will give a 5-10 minute update on the status of the east-side Rare, Threatened, and Endangered lichen species for their state: Oregon, Washington, Idaho, and Montana. We will follow this with plenty of time to examine specimens of these listed species. These include *Aspicilia rogeri*, *Peltigera cinnamomea*, *Thelenella muscorum*, *Umbilicaria nodulospora*, and *Umbilicaria phaea* var. *coccinea*.

Simultaneously, people can work on and consult on problem specimens from local field trips or brought from home. Bring your puzzles and stump the experts!

The Saturday field trip will complement the workshop, as we will visit some of these species in their habitat.

Target Audience: The workshop will be particularly valuable for east-side agency botanists, contractors, and serious naturalists, as well as academics and students.

Prerequisites: basic background in macrolichens.

Leaders: Bruce McCune, Roger Rosentreter, Daphne Stone, Andrea Pipp, Ann DeBolt, Jeanne Ponzetti.

Cost: Free to NWSA meeting registrants.

6:00 p.m. Lichenologists dinner at a local restaurant, Wild Rose (Thai restaurant, 150 NW Oregon Ave, 541 328 0441). Reservation under "Bruce". NOTE: please bring cash, because they say they can't take a separate credit card for each person.

Saturday, March 26. 8:00 a.m. to ???. **Field trip: Lichens of Juniper Woodlands on a Volcanic Landscape.**

OSU-Bend Cascade Hall. Transportation by car pooling. If you pre-ordered a box lunch it will be there for pickup as well. Other field trips will be leaving from this point too.

Led by Rick Demmer, long-time resident and lichen enthusiast from the Bend area, formerly of the BLM district office in Prineville. The Bend area has diverse, excellent lichen habitats nearby. Rick Demmer will show us east-side RT&E species in the field, accessible in a half day field trip out of Bend. For example, we hope to see *Texosporium sancti-jacobi*, *Peltula euploca*, *Rhizocarpon diploschistidina*, and *Ochrolechia turneri*.

For more information see the posting on the NWL website, www.nwlichens.org under *News | Events*

Recent Events

2015 NWL Certification Exam

The 2015 certification exam took place at Andrews Experimental Forest on the Willamette National Forest in a Douglas-fir stand. There were twelve participants, eight of which took the exam; the others took it as a training exercise. Two participants attempted re-certification and passed: John Villella and Jay Scelza. One newly certified participant was Lin Kyan.

Amanda Hardman and Daphne Stone administered the exam. There were a total of 66 species found between the two plots which were located across a road from each other. Special Status species found include *Pseudocyphellaria mallota* and *Nephroma occultum*.

Species that were found just one time by either examiner or examinee include: *Alectoria imshaugii*, *Hypotrachyna sinuosa*, *Letharia vulpina*, *Nephroma occultum*, *Nephroma parile*, *Fuscopannaria leucostictoides*, *Esslingeriana idahoensis*, and *Cavernularia hultenii*.

-Amanda Hardman



Pseudocyphellaria mallota (S. Loring)



Nephroma occultum (S. Loring)

Upcoming Workshops / Courses:

Northwest Botanical Institute

Pacific Northwest Bryophyte Identification Workshop - 2016

This fall a four-day, intermediate level bryophyte identification workshop will be offered at the Andrews Experimental Forest, Blue River, Oregon. The class will meet Monday through Thursday, September 25—30. Assembly will start Sunday evening by checking into a room at the Andrews Experimental Forest and setting up in the classroom. This workshop is designed for 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 four days of integrated lectures, field study and lab practice. A classroom with good microscope bench space for all students is available. Students are asked to bring their own microscopes and critical dissecting tools.

The focus of this workshop will be an intensive training in using 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 (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 (W. Doyle and R. Stotler, Madroño 2006) and the just formally published Guide to the Liverworts of Oregon (D.H. Wagner, Northwest Botanical Institute 2014). Using electronic keys will be demonstrated with time for in-class practice by students with laptop computers.

Participants will receive a generous selection of valuable, mostly unpublished material, both printed and in digital format. 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. More advanced students are encouraged to bring challenging or critical specimens for supervised study.

There are apartments for students on site. Cost is very reasonable: \$25 per night with your own linens and sleeping bag. Linens (sheets and towels) are only \$10 for the duration. The stay will involve five nights, arriving Sunday, September 25 and leaving on Friday morning, September 30. Staying on site means we can have evening sessions in the classroom and socialize in the apartment common area. You will need to be able to feed yourself. The apartment kitchen is furnished with pots and pans and utensils. We'll work together and eat together.

Cost is \$350 plus Andrews apartment fees. Space is limited; early inquiry is recommended. Please contact me directly at davidwagner@mac.com.

David H. Wagner, Ph.D.
Northwest Botanical Institute
P.O. Box 30064
Eugene, OR 97403-1064

North Cascades Institute

Urban Lichens - Who Knew They Were There?

August 27, 2016

Lichens are a vital yet overlooked part of the ecology in our urban areas. Seattle has its very own lichenologist, Dr. Katherine Glew, who has researched lichens in Norway, the Russian Far East, and throughout Washington State. She will discuss lichens; explain what they are, how they grow, and the common types found in the urban ecosystem. She will also address common lichens found in Seattle and discuss what their existence tells us about your plants and air quality. Bring your hand lens if you have one, since there will be plenty of lichens to find. We will spend part of the day in Washington Park Arboretum/UW Botanical Garden.

We will meet in the morning at the UW Botanic Gardens and locate common urban lichens. In the afternoon we will move to Hitchcock Hall, on campus, to examine lichens in further detail.

www.ncascades.org/signup

Cedar River Watershed

Lichens - Mysterious Fungi of the Forest

June 5, 2016

The Cedar River Watershed is offering a course in lichens, taught by Katherine Glew. The course will cover a description of lichens, where they occur and time in the watershed to view the lichens in their natural habitat.

There is a lot of lichen diversity in the watershed, being further out from urban pollution.

Details to be posted as we get closer to June.

<https://secure.rec1.com/WA/cedar-river-watershed/catalog>

A real bargain at \$20 for 5 hours of fun lichen time!

Siskiyou Field Institute

Intermediate Lichens: All You Need to Know about Bryoria, Melanelia, Peltigera and Usnea

April 12-14, 2016

Daphne Stone will be teaching a class on four of the more difficult lichen genera at Siskiyou Field Institute. The genera covered will be Usnea, Melanelia (in the greater sense), Peltigera and Bryoria. To register, please go to their website <http://www.thesfi.org/index.asp>.

News and Projects from NW Lichenologists at Home and Abroad
(Generally in the order received)

From Daphne Stone:

Lichen & Oak



Staff and volunteers hike the steep terrain at Margerum Ranch

When Microorganisms have Macro Implications.

It's easy to walk over, past, and under lichens without ever noticing them. But in detail, these complex organisms reveal intricate textures of varying hues and sizes. Lichens are comprised of fungi and photosynthetic green or blue-green algae, also known as cyanobacteria, and are found from the poles to the tropics.

They line Earth's forests, grow on cooled lava formations, and cling to bare rocks. Some 13,000 to 17,000 species are known, but many still await discovery.

Earlier this year, a lichen, which is either very rare or potentially an undescribed species, was found by rare plant botanist Kathryn Beck on Columbia Land Trust property near the Klickitat River watershed. Research to determine its identity is ongoing.

“The unknown still exists, even close to home,” said Beck. In 2010, the Land Trust hired Beck to conduct a vegetation survey of Margerum Ranch, a property conserved in 2008 and located northeast of Lyle, WA. The ranch's 302 acres bear dramatic rolling hills, old-growth Douglas-fir and ponderosa pine, Oregon white oak woodlands, riparian habitat, and upland prairies with mountain range and river views.

The site has some of the region's last remaining stands of mature Oregon white oaks (*Quercus garryana*), or Garry oaks, which offer the only known substrate for rare, slow-growing species of lichens.



Oregon white oak (*Calicium quercinum*). Photo by Doug Gorsline

Used as food, shelter, and nesting material, lichens in Pacific Northwest forests are critical for squirrels, birds, deer, bats, and invertebrates such as wasps and butterflies. Lichens are ecological indicators, susceptible to changes in air quality. They thrive in regions of high air quality and can be absent from cities due to air pollution. In forest canopies, lichens can moderate humidity and temperature and enrich soil content, allowing neighboring plants to thrive.



Various lichen species

Five years ago, Beck trekked the grassy hillsides at Margerum Ranch to document plant diversity and became intrigued with the land's rich lichen assortment. She plucked a sundry of lichen samples, placing them into a paper sack to tote back to her personal lab for further examination.

That winter, Beck sat down with her dissecting and compound microscopes to examine one species she had found on the bark of a mature Oregon white oak. She recognized the sample as pin lichen, a crustose or crust-like lichen with minute pin-shaped reproductive structures. Unable

to key out the species with certainty, she sent the lichen sample, the size of a dime, to a pin lichen specialist. The specimen was determined to be *Calicium quercinum*, a slow-growing pin lichen found only twice in North America, in Illinois and Oregon, and in forests at least 100 years old.

In 2013, that sample was also examined by Oregon-based lichenologists Daphne Stone and Amanda Hardman, who had previously found what seemed to be the same mysterious pin lichen in another location in the Columbia River Gorge. They thought Beck's lichen sample was similar to *Calicium quercinum* but had some differing characteristics.

So, Beck returned to Margerum Ranch in 2015 with the lichenologists on a quest to relocate the species again, not knowing which oak tree in the hundreds of acres it had been collected from in 2010. The three biologists came upon five enormous, deep-furrowed oaks with populations of the elusive pin lichen.

“The samples are either an unknown species, endemic to the Columbia River Gorge, or a known but very rare species found in only two other places in North America,” said Beck.



[Pin lichen](#) ([click](#) for larger image). Photo by Daphne Stone

The next step in determining the identity of the lichen is genetic sequencing, a laboratory procedure for which there is currently no funding. The silver lining, perhaps, is that the discovery has a deeper implication.

“These species of rare lichen speak to the value of preserving ancient oak stands and oak individuals,” said Beck.

Oak woodlands and savannas in Oregon's Willamette Valley have declined to less than 15 percent of pre-European settlement numbers and oak stands in Washington are also limited. Rife development, wildfire suppression, invasive non-native species, and grazing impacts on soil have devastated many of the region's remaining oak habitats, along with any organisms depending on them, making oak protection a conservation priority.

The palpable interconnectedness of macro- and microorganisms, like the relationship between lichens and oaks, is a reminder that conserving land is essential to keeping the natural world's most wondrous, complex, and beautiful examples of symbiosis intact. Columbia Land Trust will continue to conserve lands like that of Margerum Ranch so that unexpected curiosities and discoveries of our region may endure.

<https://www.columbialandtrust.org/lichenandoak/>

From Rebecca Durham:

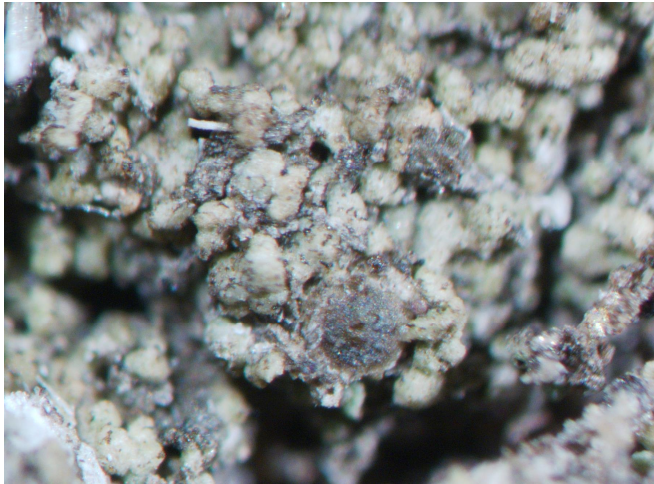
Biocrust research continues at MPG Ranch in Florence, Montana. Our field surveys will resume with snowmelt, but thus far we've detected about 60 lichen species, 2 liverworts, 1 hornwort, and 14 mosses. Once surveys are complete, we will look at the relationship of the biocrust community to disturbance, aspect, elevation, solar radiation, and soil characteristics. As the project kicked off in May 2015, we were fortunate to have Bruce McCune visit at the same time as NAU project collaborators Matt Bowker and Anita Antoninka.



Bruce, Matt, Anita



Biocrust at MPG Ranch



Thelenella muscorum



Caloplaca jungermanniae

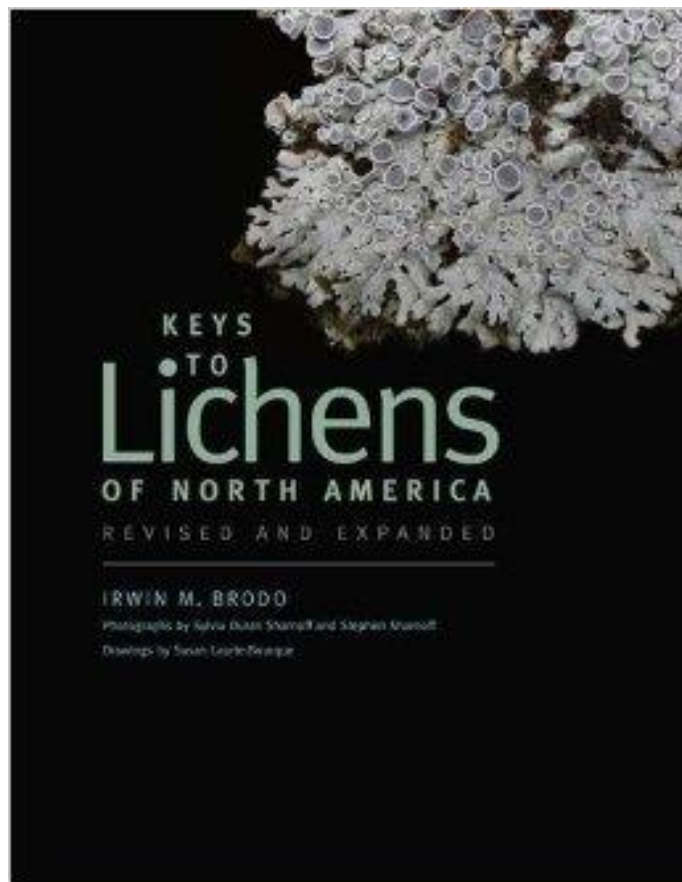


Phaeorrhiza sareptana



From Irwin Brodo:

“Keys to Lichens of North America: Revised and Expanded” by Irwin M. Brodo has just been published by Yale University Press. (427 pages; ISBN 978-0-300-19573-6; spiral-bound). It covers about 2050 species and subspecies including a large number from the PNW region, and it brings the nomenclature in “Lichens of North America” (Brodo, Sharnoff and Sharnoff, 2001) up-to-date. It is designed to be a companion “workbook” for the big book with references throughout the keys to updated photograph IDs and taxonomic problems. It includes an illustrated glossary and full bibliography, so it can be used as a stand-alone book as well. The book sells for US\$29.95 or CAN\$43.95, available from Yale or Amazon.com (Amazon currently offers free shipping on this item to non-members).



From Kerry Knudsen:



Kerry Knudsen at work on San Nicolas Island. Picture by Tim Wheeler.

We just turned in for review *The Lichens of San Bernardino National Forest: An Annotated Checklist of the San Bernardino and San Jacinto Mountains* by Kerry Knudsen, J.C. Lendemer, Matthias Schultz, Jana Kocourková, John W. Sheard, Andrew Pignuolo, and Tim Wheeler. It will be out in *Opuscula Philolichenum* by early fall and have 65 color pictures of lichens, many never imaged before. It is the first major study of lichenized fungi diversity in a California National Forest. It will be a free download. Jana Kocourková, Tim Wheeler and I are putting together a book *Lichens of the Santa Monica Mountains, Today and Yesterday* for the NWL Monograph Series and we will have at least 50 color pictures. We expect for it to be published in 2017. My wife Jana Kocourková and I are currently working on *The Lichen Biota of the Channel Islands*. It will have 300 color pictures and keys and descriptions of the approximately 600 lichenized fungi that occur on the eight Channel Islands of southern California. The first edition will be a hardcover published in 2019, followed by a digital version a year later.

Kerry Knudsen Knudsen@ucr.edu

Lichen Curator, UCR

Mycological Researcher, University of Life Sciences, Prague

Lichen Apparel and Publications

Northwest
"Lycanologists"

Letharia columbiana apparel



NW Lichenologists Shirts and Caps

email this form to Daphne Stone at daphstone@gmail.com
once I confirm we have your items, then mail
a check **made out to Northwest Lichenologists** to:

Daphne Stone
30567 Le Bleu Rd.
Eugene, OR 97405

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cap w/ embroidered logo	black						\$18.00
Shipping	\$25 or less: \$25-\$50 over \$50						
shipping cost:						\$5.00	
(Email for shipping quote on more items)							
TOTAL							

Monographs in North American Lichenology

A series sponsored by Northwest 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.

Monograph in North American Lichenology, Vol. 2

We are pleased to announce that we now have in hand volume 2 of *Monographs in North American Lichenology*, entitled **Montana Lichens: An Annotated List**.

Why would a non-Montanian lichenologist want one? This is the first comprehensive summary of the occurrence, literature references, and ecological context for lichens in any state or province in the Pacific Northwest or northern Rocky Mountains. Because we also include reports from adjoining states and provinces, the book should be useful in a broad area. The monograph will be an invaluable reference for people delving into either crustose lichens or macrolichens.

So far, a total of 1074 species are documented from Montana. Of these, 283 species are new for the state and 19 are new to North America. We discuss the rare, threatened, and endangered lichens of Montana. Priorities for surveys and monitoring are evaluated by placing species in one of eight categories, based on all combinations of global rarity, ease of detection, and habitat vulnerability.

You will also find new names for a number of old friends. Do you recognize *Lobaria anomala*? *Scytinium palmatum*? *Circinaria rogeri*? Dig in and find out.

For ordering information, please use the "Store" tab at the new NW Lichenologists website. Sample pages are posted.

[Order by credit card using PayPal](http://www.nwlichens.org) from www.nwlichens.org

McCune, B., R. Rosentreter, T. Spribille, O. Breuss and T. Wheeler. 2014. ***Montana Lichens: An Annotated List***. Monographs in North American Lichenology 2: 1-183. Pbk. \$30. ISBN-13: 978-0-9790737-1-7

Montana Lichens: An Annotated List

Bruce McCune
Roger Rosentreter
Toby Spribille
Othmar Breuss
Tim Wheeler



Monographs in North American Lichenology Vol. 2

Monograph in North American Lichenology, 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

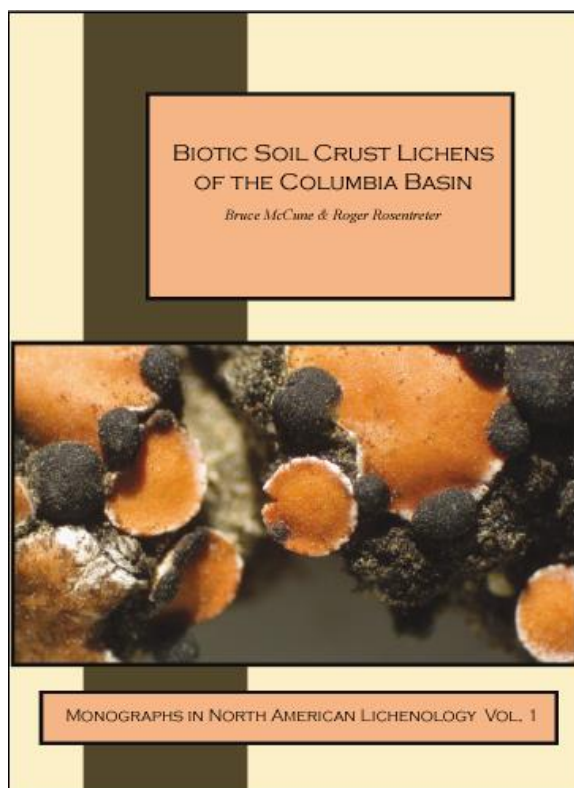
[Order by credit card using PayPal](#) from www.nwlichens.org

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 – 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](#)