



**The 6th IAL Symposium and
Annual ABLs Meeting**

Asilomar, CA, USA, 13–19 July, 2008

**BIOLOGY OF
LICHENS AND BRYOPHYTES**



The American Bryological and Lichenological Society (ABLS) will be meeting jointly with the International Association for Lichenology (IAL 6) at the Asilomar Conference Center. Thus, a partially integrated program is planned.

Organized by: The International Association for Lichenology, the American Bryological and Lichenological Society, the British Lichen Society, Arizona State University, the California Lichen Society, and the Northwest Lichenologists.

Asilomar (<http://www.visitasilomar.com/>) is run by the State of California in Pacific Grove, CA, near Monterey (*ca.* 150 km S of San Francisco). It is nestled in a coastal stand of Monterey cypress adjacent to the Pacific Ocean. Overnight accommodations and three meals a day are provided by Asilomar, allowing an atmosphere to stimulate both informal and formal communication among participants. – Asilomar, P O Box 537, 800 Asilomar Blvd., Pacific Grove, CA 93950 Phone: (831) 642-4222; Fax: (831) 642-4261

SECOND ANNOUNCEMENT

ORGANIZATIONS

IAL President: Irwin M. Brodo (Ottawa, Canada – ibrodo@mus-nature.ca)

ABLS President: Theodore L. Esslinger (Fargo, ND, USA – ted.esslinger@ndsu.edu)

BLS President: Pat Wolseley (London, UK – p.wolseley@nhm.ac.uk)

California Lichen Society President: Bill Hill, (Fairfax, CA, USA – aropoika@earthlink.net)

NW Lichenologists President: Daphne Stone (Eugene, OR, USA – stone_daphne@hotmail.com)

ABLS Program Chair and President Elect: Karen Renzaglia (Carbondale, IL, USA – renzaglia@plant.siu.edu)

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Poster Committee: M.R.D. Seaward, chair (Bradford, UK – M.R.D.Seaward@Bradford.ac.uk); H. Mayrhofer (Graz, Austria – helmut.mayrhofer@uni-graz.at); M. Wedin (Stockholm, Sweden – Mats.Wedin@nrm.se); M. Tretiach – tretiach@univ.trieste.it; Stefano Loppi – loppi@unisi.it; D. Richardson (david.richardson@SMU.CA).

Field Trip Organizers: Larry St. Clair (Provo, UT, USA – larry_stclair@byu.edu) and Lawrence Glacy (San Diego, CA, USA – glacyla@hotmail.com); Bruce McCune (Corvallis, OR, USA – Bruce.McCune@science.oregonstate.edu) and Katherine Glew (Seattle, WA, USA – kglew@u.washington.edu)

IAL 6/ABLS Local Organizing Committee: Brent Mishler (Berkeley, CA, USA – BMishler@calmail.berkeley.edu); Janet and Richard Doell (Santa Rosa, CA – rdoell@sbcglobal.net); Cheri Bratt – pncbratt@verizon.net; Eric Peterson (Reno, NV – eric@theothersideofthenet.com); Michelle Caisse (bluequer@sonic.net).

Contacts for other information: Thomas H. Nash III (SoLS, Arizona State University, Box 874501, Tempe, AZ 85287-4501, USA; 480-965-7735 or 480-965-7133 for answering machine to leave a message; tom.nash@asu.edu).

SCIENTIFIC SCHEDULE

Day	Morning (8–12)	Afternoon (13–17:30)	Evening (19–21)
July 13. Sun.		Registration	Opening Reception
July 14, Mon	Opening, symposia	Potpourri, posters Symposium	ABLS student papers
July 15, Tues.	Symposia	Symposia	ABLS bus. Meet.
July 16, Weds.	Symposia	Posters, symposium	BLS reception; Banquet
July 17, Thurs.	Symposia	Symposia	Workshop, Discussion
July 18, Fri.	Symposia	Posters, symposium	IAL Business Meeting Reception
July 19, Sat.	Symposia	Departure after lunch	

REGISTRATION AND TERMS OF PAYMENT

Terms of registration

In order to qualify as a registered delegate who is allowed to attend any session, the registration form and payment of the symposium fee must be received by **March 31st, 2008** (early, regular or student fees) or by **June 30th, 2008** (high, regular or student late fees). Students must provide proof of their student status (copy of current student ID). Participants will receive confirmation by e-mail (or by FAX, if requested). People not planning on attending sessions should register as an accompanying member. Please present your confirmation at the registration desk upon arriving at Asilomar.

Registration form (available on the web sites after Dec. 15th, 2007)

The form can be downloaded from either the IAL (http://www.lichenology.org/IAL6_ABL/) or ABLS (<https://mywebSPACE.wisc.edu/jpbennet/web/abls/events.html>) websites and should be sent to Dr. Robert S. Egan, Treasurer, Dept. of Biology, University of Nebraska at Omaha, Omaha, NE 68182-0040, USA (FAX 402-554-3532). Please do not send credit card information by e-mail.

Symposium fees for delegates (*Note:* we have to guarantee the number of participants to Asilomar by early April)

IAL-6/ABLS symposium (4 to 6 days)

Early, regular fee (until March 31, 2008)	\$230.00 US
Early, student fee (until March 31, 2008)	\$140.00 US
Accompanying member (any time)	\$70.00 US

Late, regular fee (1 April to 30 June, 2008) \$280.00 US

Late, student fee (1 April to 30 June, 2008) \$180.00 US

These fees cover part of the meeting space rental, audiovisual and poster board rentals, book of abstracts and list of IAL 6 participants, coffee/tea breaks, receptions, and the IAL banquet. Accompanying members are not expected to attend the scientific sessions but may come to coffee breaks, receptions and are expected at the banquet.

Payment

Payment should be made in US dollars either by check or by credit card (VISA or MasterCard).

Terms of cancellation

Cancellations may be made in writing either by e-mail (regan@mail.unomaha.edu) or by fax (402-554-3532) by 31 March, 2008 without penalties other than a \$10.00 processing charge. Any cancellation thereafter will receive a 50% refund, as your place will have been guaranteed to Asilomar.

Registration at the meetings

Registration packets for the meeting will be available from 1 p.m. to 6 p.m. in Phoebe A. Hurst Social Hall (ca. third building in from the entrance), where you will also pick up your room keys at the Front Desk. Thereafter registration will be moved to the back of Merrill Hall, our main meeting room.

Anticipated program

Overall the meeting will include a potpourri session for new ideas, 19 symposia (listed below), 3 poster sessions, 3 special lectures, 3 discussion sections, a lichenicolous fungal workshop, and two field trips. A two day Parmeliaceae workshop will be held following the meeting. Bryologists and lichenologists will meet jointly for most of the time, but the bryologists will meet separately one day, during which two additional symposia and a *Grimmia* and *Coscinodon* workshop will be held.

Potpourri session for new ideas (write tom.nash@asu.edu to schedule a slot)

The intent is to stimulate subsequent participant discussions and potentially to lead to new research (**not** to present completed research). Each presenter will be limited to one or two power point slides and limited to 5 minutes or less. The premium is on being concise. Untested ideas are welcome.

Symposia

The following symposia topics have been chosen by the program committee. The conveners are still actively arranging for speakers. *Therefore, if you have a presentation that might fit one of the symposia, you are encouraged to contact one of the conveners* (sooner rather than later).

IAL/ABLS symposium topics

**Xanthoria* and *Physcomitrella* Genomics: Potentials for New Research

*Endemics, especially in California

Conveners

Dyer (lichens) Schuette (bryophytes)

T. Nash and G. Kantvilas

*Between Individuals and Species: The Genetics of Populations	C. Printzen and L. Lindblom
Lichenicolous Fungi: Taxonomy and Diversity	P. Diederich and J. Lawrey
*Biochemistry and Physiology of Poikilohydry	A. Hochman and P. Alpert
*Nutrient Exchange in Lichens and Bryophytes	P. Crittenden and M. Hauck
*Lichens in Polar Systems	L. Sancho and R. Seppelt
*Functional Ecology	C. Maguas and Y. Gauslaa
*The world under your feet: biological soil crusts	R. Rosentreter and B. Buedel
*Community Structure and Dynamics	B. McCune and D. Coxson
*Air Pollution and Public Health (dioxins, PAH's, Nitrogen, airborne metals)	L. Geiser and C. Branquinho
*Endolichenic Fungi and Bacteria: Implications for Symbioses	J. Miadlikowska and J. Duckett
Together and separate: the lives of lichen symbionts (developmental approach)	W. Sanders
Selectivity in lichen symbiosis (algal emphasis)	A. Beck and T. Friedl
*What's new about the oldest lichens and bryophytes?	M. Tomescu and W. Stein
Parmeliaceae: Development of a New Systematics	H.T. Lumbsch and A. Crespo
Roots, trunks, branches and leaves: Lichen Systematics and Phylogeny	S. Ekman and I. Schmitt
*Tropical lichens and bryophytes: Towards a Total Inventory	R. Lücking and W. Buck
Integrated data networks in lichenology	D. Triebel and S. Heiðmarsson
*Symposia where at least some bryological component will be included.	

ABLS bryological symposium topic

Field Bryology in the West: the New Explorers

Bryo-Genomics: *Physcomitrella* and beyond.

Conveners

J. Shevock and D.. Wagner

S. Schuette

Poster Sessions – Poster submissions are strongly encouraged, as three sessions of poster presentations are scheduled for the meeting. Sessions will be held early afternoon on Tuesday, Wednesday and Thursday. Provisionally, general topics for poster presentations are given below together with discussion leaders. Adjustments will be made depending on the range of topics submitted, and additions may well be made. Poster session leaders will lead the discussion of their posters.

Environmental monitoring – S. Loppi

Ecology – M. Seaward

Physiology and Ecophysiology – M. Tretiach

Symbiosis – D. Richardson

Biogeography and Floristics – H. Mayrhofer

Taxonomy and Systematics – M. Wedin

Ethnolichenology (native and commercial uses)

– D. Richardson

Maximal dimensions of usable space on the poster boards will be 7'9" x 3'9" (ca. 230 x 110 cm), with the long dimension being the width. The boards are made of cork board and pins will be provided. Use a font size of 20 or more.

Abstracts for Oral and Poster Presentations

Oral presentations for the contributed paper sessions will be no longer than 15 minutes in length, **include** reserving the last 2–3 minutes for questions. Posters should measure up to 95 cm wide and up to 120 cm vertical to fit onto bulletin boards. An abstract must be submitted for each contributed paper or poster presentation. These will be gathered into a booklet that will be distributed to all meeting registrants at the beginning of the meeting in Asilomar. The **deadline** for abstract submission is **May 15th, 2008**.

Abstracts are to be submitted electronically, preferably by e-mail attachment, or secondarily, on a computer disk (either CD or floppy disk is acceptable). Files should be submitted as editable MS-word files (*.doc) or MS-rtf files (*.rtf), but in either case with a minimum of special formatting codes and no indenting. Use a common serif font like Times New Roman in 10 pt font size. Brief abstracts are encouraged, but the maximum length will be 150 words (ca. 10 lines, single space, in 10 pt font). Abstracts may be subject to re-formatting but only to minimal editing, so please send perfect, error-free copy files. Authors' names should be in all caps, and the presenting author should be clearly indicated with an asterisk in front of their surname. For further format information, an example is given below:

*HOLT, EMILY¹, MCCUNE, BRUCE¹ and NEITLICH, PETER²

¹Oregon State University, Department of Botany and Plant Pathology, 2082 Cordley Hall, Corvallis, Oregon 97331-2902, USA; ²National Park Service, 41 A Wandling Road, Winthrop, Washington 98862, USA.

Grazing impacts on macrolichen communities of the Seward Peninsula, Alaska

Do reindeer and caribou grazing simply reduce lichen biomass, or can lichen community composition be altered as well? Extensive research demonstrates that grazing, including

Send your abstract with cover letter to: **tom.nash@asu.edu**

Discussion sections: Discussions will likely include brief overviews by the discussion leader(s) and moderators but will be open for comment by any participant at the meeting. We anticipate the following discussion sections:

Conservation (C. Scheidegger, Birmensdorf, Switzerland – christoph.scheidegger@wsl.ch; and E. Peterson – eric@theothersideofthenet.com).

Effects of Global Climate Change on Lichens and Bryophytes (M. Lakatos – lakatos@rhrk.uni-kl.de; and D. Vitt – dvitt@plant.siu.edu).

Phylocode, an alternative to the Linnean System (B. Mishler, Berkeley, CA USA – BMishler@calmail.berkeley.edu, and L. Tibell?, Uppsala, Sweden).

Lichenicolous fungal workshop: Lichenicolous fungal clinic with keys, bring your own specimens (workshop leader: D. Hawksworth, Natural History Museum, U.K. – d.hawksworth@nhm.ac.uk)

Grimmia and Coscinodon workshop: On the day that the bryologists meet separately, they will also hold an identification workshop led by R. Hastings, who has new keys for these two difficult genera – roxanne.hastings@gov.ab.ca

Special lecture speakers: R. Honegger (Zürich, Switzerland), F. Lutzoni (Durham, NC, USA), T.G.A. Green (Hamilton, New Zealand) – 45 min. each – titles to be announced.

Field Trips: two lichenological trips are planned prior to the meeting (bryological trips will be announced through the ABLs web site)

- (1) Point Reyes National Park and adjacent coastal areas (L. St. Clair and L. Glacy, leaders)
- (2) Corvallis, OR (or Seattle, WA) to Asilomar (B. McCune and K. Glew, leaders)

(1) Central, coastal California (Point Reyes) – 3.5 days collecting, pre-congress, jointly led by Larry St. Clair (Provo) and Lawrence Glacy (San Diego). Arrive on July 9 for transfer to Point Reyes. Principal pick up points will be San Francisco International Airport (SFO) or Oakland International Airport (OAK) by 2 p.m. on July 9, with subsequent travel by van to Point Reyes National Park (just north of San Francisco) where we will stay in a youth hostel four nights. Two or three people could be picked up at Monterey Airport on the 9th as well. A variety of coastal habitats and oak woodlands on the low mountains to the east will be visited on July 11 and 12. Drive to Asilomar for the conference on July 13 with a stop in the Monterey area. After the IAL 6 meeting return home from Monterey (MRY) over SFO or other Californian airport. **Please see <http://mlbean.byu.edu/home/page/Lichens.aspx> for further information. Cost will be \$495.00 per person.**

(2) Seattle, WA or Corvallis, OR to Pacific Grove, CA (Asilomar) – 6 days, pre-congress, –Fly into Portland, Oregon (PDX) or Seattle, Washington (SEA) to arrive on July 7. The two groups will merge in Corvallis, Oregon, then on July 9, drive by van south, visiting coastal habitats, old conifer forests, serpentine areas, subalpine forests, and *Quercus* woodlands. Arrive at Asilomar on July 13. After the IAL 6 meeting return home from Monterey (MRY) over San Francisco (SFO) or other Californian airports. **Please see <http://home.comcast.net/~nwlichens/montereyfieldtrip.html> for further information. Cost will be \$500.00 per person.**

AWARDS

Student Travel Awards (application forms available after **Dec. 15th, 2007**)

To encourage attendance by students at what should be an exciting and very educational meeting, the societies have set aside substantial funds for student travel awards. Also, additional funding is being sought from grant sources. Award amounts will vary in relation to anticipated travel costs. Membership in one of the societies and giving a poster or oral presentation are minimal prerequisites. Of course, there is nevertheless a limited amount of money available, and so the actual amount awarded to a particular individual will be partially dependent on the total number of individuals applying as well as the total amount available.

The A. J. Sharp Award – ABLs

The A. J. Sharp award goes to the student giving the best oral presentation, as judged by a committee of three individuals who are normally appointed at the meeting by the president of the society. The amount of this award is \$500. Students competing for this award will make their presentation Monday evening.

Eric Acharius Medal – IAL

The Acharius Medal is awarded for outstanding contributions to lichenology over the career of an individual. One or two medals can be awarded at the meeting. Nominations for this award are now being received (see IAL. Newsletter 40(1), July 2007). For details contact Christoph Scheidegger (christoph.scheidegger@wsl.ch).

Mason Hale Award – IAL

At each major IAL meeting, a Mason Hale Award is given to young lichenologist for outstanding work resulting from a doctoral dissertation or similar study. Nominations for this award are now being accepted (see IAL Newsletter 40(1), July 2007). Contact Richard Beckett (rpbeckett@gmail.com) for details.

HOUSING and MEALS (people staying at Asilomar – form available by **Dec. 15th, 2007**)

Payment for housing and meals will be handled by the Asilomar staff. A variety of accommodation choices are provided by Asilomar as detailed below. Meals are provided throughout the meeting in a common dining hall with tables to seat 6 to 12 people each. Their registration form will include an opportunity to indicate one’s dietary restrictions. For our meeting Asilomar offers either a 6-day package (the full meeting; *see the IAL website*) or 4-day package (most of the bryological sessions, *see the ABLIS website*).

Most people will want to register for Asilomar’s standard room, the prices of which (**per person per day**) are given below. In addition, there are some cottages and suites available for higher prices (see the Asilomar website for prices).

Building type	Single	Double	Triple	Add. Adult	Youth
Standard	192.27	118.01	91.34	91.34	67.27

**All rates are subject to change, and include required State sales and City occupancy tax. Youth is age 3-17, and it is assumed that they are not attending the scientific sessions. Sleeping room rates are net and are not commissionable. All rates include, breakfast, lunch and dinner, as well as use of our large meeting room.* By inference, ca. \$24.00 of the above rates are going to the rental of our large meeting room. Almost \$34.00 of each rate represents the cost of the three meals, and the balance is the actual room cost. Also built into the rates is a \$9.25/day Asilomar use fee. Unfortunately, it is not possible to opt out of any portion of the rates. Obviously, by staying two or more persons per room, one can reduce the per person meeting cost. If you are staying with one or more roommates, it would be best to register at the same time.

Most people with special meal requirements will find adequate choice within the standard menu (sample menu for a week will be placed on the IAL web site). Alternatively, vegetarian and vegan meals can be provided with a day or two advanced notice. Kosher style or the more restrictive "Orthodox Kosher" meals can be arranged with additional costs (allow a minimum of 10 days and are non-refundable). Some can be quiet pricey (2 to 3 times the cost of our Crocker Dining Hall meals). Please ask all Special Diets requests to provide breakfast, lunch and dinner suggestions they have enjoyed to meet their needs while traveling in the past, to save time for everyone.

Potentially one can stay additional time (pre- or post-congress) at Asilomar, if one would like to use it as a base for visiting the many local tourist options in Carmel, Monterey, or Pacific Grove. In addition, by renting a car, one could within a day, drive the Big Sur coast to the south, visit Pinnacles National Monument to the east, or the Santa Cruz region (the University of California Santa Cruz campus is nestled into a redwood grove) to the north.

Asilomar fees (if **not** staying at Asilomar)

A few people may want to stay with friends in the Monterey area or even seek a separate motel or hotel (**your own responsibility**). Participants not staying at Asilomar are required to pay an Asilomar Facility Fee of \$9.25 per person, per day. (Registered guest rates already include this fee). Off grounds participants can also pre order and guarantee their meals 10 days in advance to make sure we have seating and a meal available to them. Asilomar ususally has an estimated 20 additional meals for Breakfast, Lunch or

Dinner available on a first come first served basis. Tickets are purchased at the Front Desk to provide access to the Crocker Dining Hall, seating is not with the group but on separate "Leisure Guests" tables. All Meal Tickets are non-refundable within 7 days of group arrival.

Local activities other than our meeting

There are many local activities for family members who come with delegates, including beach walking adjacent to Asilomar, bicycle rental from Asilomar, various games and other recreational activities on the Asilomar grounds. For example, Asilomar is a state park and the Park Ranger will lead tours (call: 831-372-4076). Asilomar also has "Audio" tours: free of charge (may be reserved but must be guaranteed; otherwise on a first come basis), and they have a "Self Guided Walking Tour" by brochure (no charge); bicycle rentals are available (\$16/half day, \$25 full day at the Asilomar Park Store. Volleyball is available (no charge – ball from the registration desk). Asilomar also has an outdoor, heated pool that is open till dusk.

Monterey itself was initially made famous by being featured in several of John Steinbeck's novels (Cannery Row, etc.) and the whole peninsula is a tourist destination. For example, the near-by Monterey Bay Aquarium (between Asilomar and downtown Monterey) is excellent (tickets available at the Asilomar Front Desk Registration area in the Phoebe Hearst Social Hall; group rates can be arranged) Fisherman's Wharf in Monterey is a popular destination for seafood and shops, as is the renovated cannery area near the aquarium. There are a huge variety of shops throughout the Monterey Peninsula, including various galleries. Point Lobos State Park, about 8 miles south, has wonderful tide pools to explore. Other options include "Adventures by the Sea" Kayaks and "Surrey" rentals (831-372-1807), "Ag Venture Tours": 831-643-9463 or www.whps.com/agtours (Advance reservations for wine tasting, sightseeing, agricultural tours, Steinbeck country and more), and Monterey Movie Tours (including 17 Mile (800-343-6437; www.montereymovietours.com).

Anticipated weather

Due to the cold ocean currents moving southwards off the coast of California and the very hot Central Valley of California, fogs often develop along the coast in the summer time (2 days out of 3 for the time we will be there). As a consequence, places like San Francisco and Monterey are often cooler in June than in January. Thus, expect cool (12 to 20°C), overcast conditions at least some of the time. However, by traveling only a few km inland, one is likely to encounter clear skies and hot (40°C) weather.

Day care possibilities

Asilomar recommends several day care facilities and can put anyone interested in such facilities in contact with one or more organization.

TRANSPORTATION, ARRIVAL

Directions if flying

The closest airport to Asilomar is the Monterey Airport (MRY), which has regular connecting flights to San Francisco (SFO) or Los Angeles International (LAX) Airports. Shuttle Service (Monterey Salinas AirBus - 831-883-2871; www.montereyairbus.com) is available from both San Francisco (SFO) and San Jose (SJC) airports. Numerous options for car rentals are, of course, available at the airports (see driving directions below).

Local buses (Monterey Salinas Transit) also service Asilomar from downtown Monterey and the airport. Courtesy of Brigham Young University, we anticipate having two vans available for transport from

Monterey Airport to Asilomar on Sunday afternoon and for return to the airport after lunch on Saturday. Otherwise sharing a taxi is a relatively inexpensive option.

Directions if driving to Asilomar

From San Jose / San Francisco:

Take Highway 101 South to Prunedale area.
Exit Highway 156 West (“To Monterey Peninsula”).
Continue on Highway 156 West and it will merge to Highway 1 South.
Exit at Highway 68 West (Pebble Beach & Pacific Grove).
Turn right at the first traffic light.
Stay on Highway 68 West which will become Forest Avenue.
Stay in right lane, pass three traffic lights. Turn left at the fourth traffic light (Sinex Avenue).
Remain on Sinex Avenue to the main entrance of Asilomar.

From Los Angeles:

Take Highway 101 North (or I-5 North to 46 West to 101 North).
Take Highway 68 West to Monterey Peninsula.
Continue on Highway 68 West to Highway 1 South.
Exit at Highway 68 West (Pebble Beach & Pacific Grove).
Stay on Highway 68 West which will become Forest Avenue.
Stay in right lane, pass three traffic lights. Turn left at the fourth traffic light (Sinex Avenue).
Remain on Sinex Avenue to the main entrance of Asilomar.

From Sacramento:

Take 80 West to 680 South (or I-5 South to 152 West) to Prunedale area.
Exit Highway 156 West (“To Monterey Peninsula”).
Continue on Highway 156 West and it will merge to Highway 1 South.
Exit at Highway 68 West (Pebble Beach & Pacific Grove).
Turn right at the first traffic light. Stay on Highway 68 West which will become Forest Avenue.
Stay in right lane, pass three traffic lights.
Turn left at the fourth traffic light (Sinex Avenue).
Remain on Sinex Avenue to the main entrance of Asilomar.

Potential funding sources

Most participants will have to depend on potential funding from their home countries and/or institutions.

For students, who are members of ABLS, BLS or IAL, travel grants will be available (see above).

Members of the European Union could arrange for collaborative research with a North American college and potentially obtain travel funds from the Marie Curie Outgoing International Fellowship (http://ec.europa.eu/research/fp6/mariecurie-actions/action/fellow_en.html).

