

The bryophytes and lichens collected during the 16th A. L. Andrews Foray in Northwestern Connecticut

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The 16th A. L. Andrews Foray was organized by Drs. Antoni Damman and Loretta Johnson of the University of Connecticut and held from September 20 to 22, 1992, at Canaan and Norfolk areas of Litchfield County at the northwestern corner of Connecticut. Dr. Nancy Slack assisted in the site selection. The localities visited were Point of Rocks, Robbins Swamp, Holleran Swamp, Beckley Bog, Twin Lakes, Mohawk Mountain Black Spruce Bog, Tobey Bog, Crissey Pond, and Housatonic Great Falls, which include a variety of habitats, such as limestone ledge, wet schistose marble cliff, *Quercus* scrub vegetation, Larch swamp, fen and bog.

For the bryophyte flora of Connecticut, the last comprehensive account seems to be the work of Evans and Nichols published in 1908, although additional information can be found in the two volumes of Crum and Anderson (1981). The lichen flora is similarly little studied. The two important reports are Evans and Meyrowitz (1926) and Hale (1950) on the lichen flora of Connecticut. In addition, Evans (1930, 1944, 1950) collected *Cladonia* extensively in the state.

Since the bryophyte and lichen floras of Connecticut are relatively little known in the New England region, a species list is compiled here. The bryophyte list is based primarily on the collections made and determined by Richard Andrus, Michael Corey, Lorinda Leonardi, Norton Miller, Nancy Slack, Benito Tan, Norman Trigoboff and William Town. The lichens list is based on the collections made and determined by Elisabeth Lay, Sherry Pittam, Elizabeth Kneiper and Ron Robare. Names of *Sphagnum* specimens were verified by R. Andrus and the *Cladonia* collections were determined by S. Hammer at the Farlow Herbarium. The nomenclature of mosses follows that of Anderson, Crum and Buck (1990), except for *Sphagnum* which follows Anderson (1990). For hepatics, the nomenclature follows Stotler and Crandall-Stotler (1977), and for lichens, Egan (1987, 1991).

As is, 6 species of mosses are confirmed as new to the state of Connecticut, namely *Homalia gracilis*, *Limprichtia cossonii*, *Rhizomnium appalachianum*, *Sphagnum bartlettianum*, *S. henryense* and *S. isoviitae*. *Hypocenomyce scalaris* is a new lichen record for the state. Surprisingly, a few reportedly widespread northern species such as *Scorpidium scorpioides* and *Anomodon rugelii*, in spite of our search for literature, do not seem to have a definitive, published Connecticut record.

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One noteworthy collection is *Calliergon trifarium*, an uncommon species of highly calcareous fen. It was collected on this foray from Twin Lakes by Bruce Gilman. The species has one previous herbarium record collected by G. E. Nichols from the same place 60 years ago (MO!, FH!). As far as we know, Twin Lakes remains the only known locality for this species in Connecticut. It has not been found in New York in spite of intensive search.

The exceedingly slender and freely branching *Homalia gracilis*, a calciphile, is another interesting find. It grows abundantly on the shaded side of limestone outcrops. The species has been placed in *Neckera* or as a variety/form of *Homalia trichomanoides*. Considering its habitat preference and distinct morphology, we think that it perhaps deserves full species recognition apart from *H. trichomanoides*.

List of bryophytes collected -

- Abietinella abietina* (Hedw.) Fleisch.
Amblystegium serpens (Hedw.) Schimp.
 var. *juratzkanum* (Schimp.) Rau & Herv.
 varium (Hedw.) Lindb.
Amphidium mougeotii (BSG) Schimp.
Aneura pinguis (L.) Dum.
Anomodon attenuatus (Hedw.) Hueb.
 rostratus (Hedw.) Schimp.
 rugelii (C. Muell.) Keissl.
 viticulosus (Hedw.) Hook. & Tayl.
Aulacomnium heterostichum (Hedw.) BSG
 palustre (Hedw.) Schwaegr.
Barbula unguiculata Hedw.
Bazzania trilobata (L.) S. Gray
Brachythecium acuminatum (Hedw.) Aust.
 digastrum C. Muell. & Kindb.
 oedipodium (Mitt.) Jaeg.
 oxycladon (Brid.) Jaeg.
 rivulare Schimp. in BSG
Brotherella recurvans (Michx.) Fleisch.
Bryhnia graminicolor (Brid.) Grout
 novae-angliae (Sull. & Lesq.) Grout
Bryoandersonia illecebra (Hedw.) Robins.
Calliergon giganteum (Schimp.) Kindb.
 trifarium (Web. & Mohr) Kindb.
Calliergonella cuspidata (Hedw.) Loeske
Calypogeia ? muelleriana (Schiffn.) K. Muell.
 sphagnicola (Arn. & Pers.) Warnst.
 & Loeske
Campylium chrysophyllum (Brid.) J. Lange
 polygamum (Schimp.) C. Jens.
 stellatum (Hedw.) C. Jens.
Cephalozia connivens (Dicks.) Lindb.
 pleniceps (Aust.) Lindb.
 macrostachya Kaal.
Cephaloziella elachista (Jack) Schiffn.
Cladopodiella fluitans (Nees) Joerg.
Ctenidium molluscum (Hedw.) Mitt.
Cyrtiohypnum minutulum (Hedw.) Buck & Crum
Dicranum flagellare Hedw.
 fulvum Hook.
 fuscescens Turn.
 montanum Hedw.
 polysetum Sw.
 scoparium Hedw.
Diphyscium foliosum (Hedw.) Mohr
Drepanocladus aduncus
 var. *polycarpus* (Voit) Roth
Encalypta procera Bruch
Entodon cladorrhizans (Hedw.) C. Muell.
Eurhynchium pulchellum (Hedw.) Jenn.
Fissidens adianthoides Hedw.
 bushii (Card. & Ther.) Card. & Ther.
 dubius P. Beauv.
Forsstroemia trichomitria (Hedw.) Lindb.
Funaria hygrometrica Hedw.
Frullania asagrayana Mont.
 brittoniae Evans
 eboracensis Gott.
 riparia Hampe ex Lindb.
Gymnostomum aeruginosum Sm.
Haplophymenium triste (Ces. in De Not.) Kindb.
Hedwigia ciliata (Hedw.) P. Beauv.
Herzogiella turfacea (Lindb.) Iwats.
Homalia gracilis James ex Peck
 (= *Homalia trichomanoides* fo. *gracilis*
 (James ex Peck) Crum)
Hygroamblystegium tenax (Hedw.) Jenn.
Hypnum lindbergii Mitt.
 pallescens (Hedw.) P. Beauv.
Kurzia setacea (Web.) Grolle
 sylvatica (Evans) Grolle
Leptodictyum riparium (Hedw.) Warnst.
Leskea polycarpa Hedw.
Limprichtia cossonii (Schimp.) Anderson,
 Crum & Buck
 revolvens (Sw.) Loeske
Lophocolea heterophylla (Schrader) Dum.
Marsupella emarginata (Ehrh.) Dum.
Mnium thomsonii Schimp.
Mylia anomala (Hook.) S. Gray
Nowellia curvifolia (Dicks.) Mitt.
Odontoschisma denudatum (Nees ex Mart.) Dum.
Orthotrichum anomalum Hedw.
Plagiomnium ciliare (C. Muell.) T. Kop.
 cuspidatum (Hedw.) T. Kop.
Plagiopus oederiana (Sw.) Crum & Anderson
Platydictya confervoides (Brid.) Crum
 jungermannioides (Brid.) Crum
Platygyrium repens (Brid.) Schimp. in BSG
Platyhypnidium riparioides (Hedw.) Dix.
Pogonatum pensilvanicum (Hedw.) P. Beauv.
Porella platyphylla (L.) Lindb.
Preissia quadrata (Scop.) Nees
Pseudobryum cinclidioides (Hueb.) T. Kop.
Pylaisiella selwynii (Kindb.) Crum, Steere
 & Anderson
Radula complanata (L.) Dum.
Rhizomnium appalachianum T. Kop.
 punctatum (Hedw.) T. Kop.

Rhodobryum roseum (Hedw.) Limpr.
Rhytidiadelphus squarrosus (Hedw.) Warnst.
triquetrus (Hedw.) Warnst.
Riccardia latifrons Lindb.
multifida (L.) S. Gray
Riccia fluitans L.
Ricciocarpus natans (L.) Corda
Schistidium apocarpum (Hedw.) Bruch & Schimp.
Scorpidium scorpioides (Hedw.) Limpr.
Sphagnum affine Ren. & Card.
andersonianum Andrus
angustifolium (C. Jens.) C. Jens.
bartlettianum Warnst.
capillifolium (Ehrh.) Hedw.
centrale C. Jens. in Arnell & C. Jens.
cuspidatum Ehrh. ex Hoffm.
fimbriatum Wils.
flexuosum Dozy & Molk.
fuscum (Schimp.) Klinggr.
girgensohnii Russ.
henryense Warnst.
isoviitae Flatb.
lescurei Sull. in Gray
magellanicum Brid.
palustre L.
papillosum Lindb.
riparium Aongstr.
rubellum Wils.
russowii Warnst.
squarrosus Crome
subsecundum Nees in Sturm
subtile (Russ.) Warnst.
teres (Schimp.) Aongstr. in Hartm.
warnstorffii Russ.
wulfianum Girg.
Steerecleus serrulatus (Hedw.) Robins.
Taxiphyllum deplanatum (BSG) Fleisch.
Tetraphis pellucida Hedw.
Thamnobryum alleghaniense (C. Muell.)
 Nieuwl.
Thuidium delicatulum (Hedw.) Schimp.
Tortella humilis (Hedw.) Jenn.
tortuosa (Hedw.) Limpr.
Trichocolea tomentella (Ehrh.) Dum.

List of lichens collected -

Acaropsora fuscata (Nyl.) Arnold
Anaptychia palmulata (Michaux) Vainio
Aspicilia cinerea (L.) Koerber
elevata (Lynge) Thomson
Bacidia inundata (Fr.) Koerber
schweinitzii (Tuck.) A. Schneider
Biatra vernalis (L.) Fr.
Bryoria furcellata (Fr.) Brodo & D. Hawksw.
Buellia aethalea (Ach.) Th. Fr.
Caloplaca citrina (Hoffm.) Th. Fr.
flavovirescens (Wulfen) Dalla Torre
 & Sarnth.
Candelaria concolor (Dickson) B. Stein
Candelariella efflorescens R.C. Harris & Buck
Cetrelia olivetorum (Nyl.) Culb. & C. Culb.
Cladonia arbuscula (Wallr.) Hale & Culb.
rangiferina (L.) Nyl.
stellaris (Opiz) Brodo
submitis (A. Evans) Hale & Culb.
Cladonia bacillaris Nyl.
cenotea (Ach.) Schaerer
chlorophaea (Floerke ex Sommerf.) Sprengel
crispata (Ach.) Flotow.
crisatella Tuck.
cylindrica (A. Evans) A. Evans
floerkeana (Fr.) Floerke
furcata (Huds.) Schrader
grayi G. K. Merr. ex Sandst.
incrassata Floerke

macilenta Hoffm.
ochrochlora (Floerke)
pleurota (Floerke) Schaerer
squamosa (Scop.) Hoffm.
 var. *subsquamosa* (Leighton) Vainio
uncialis (L.) Weber ex Wigg.
Collema fuscovirens (With.) Laundon
ryssoleum (Tuck.) A. Schneider
undulatum Laurer ex Flotow
Dermatocarpon miniatum (L.) Mann
Diploschistes scruposus (Schreber) Norman
Evernia mesomorpha Nyl.
Flavoparmelia caperata (L.) Hale
Flavopunctelia soledica (Nyl.) Hale
Graphis scripta (L.) Ach.
Hypocnomyce scalaris (Ach. ex Liljeblad)
 M. Choisy
Hypogymnia physodes (L.) Nyl.
Hypotrachyna pustulifera (Hale) Skorepa
Imshaugia aleurites (Ach.) S.F. Meyer
Lasallia papulosa (Ach.) Llano
Lecanora caesiurubella Ach.
dispersa (Pers.) Sommerf.
symmicta (Ach.) Ach.
Lepraria finkii (B. de Lesd. in Hue) R.C. Harris
Leptogium cyanescens (Rabenh.) Koerber
lichenoides (L.) Zahlbr.
Lobaria pulmonaria (L.) Hoffm.
quercizans Michaux
Melanelia halei (Ahti) Essl.
subaurifera (Nyl.) Essl.
Parmelia fraudans (Nyl.) Nyl.
saxatilis (L.) Ach.
sulcata Taylor
Parmeliopsis ambigua (Wulfen in Jacq.) Nyl.
Peltigera canina (L.) Willd.
polydactyla (Necker) Hoffm.
praetextata (Floerke ex Sommerf.) Zopf
Pertusaria hypothymnolica Dibben
pustulata (Ach.) Duby
trachythallina Erichsen
Phaeophyscia adiastrata (Essl.) Essl.
orbicularis (Necker) Moberg
pusilloides (Zahlbr.) Essl.
rubropulchra (Degel.) Moberg
sciastra (Ach.) Moberg
Physcia aipolia (Ehrh. ex Humb.) Fuernr.
dubia (Hoffm.) Lettau
millergrana Degel.
stellaris (L.) Nyl.
Porpidia albocaulis (Wulfen)
 Hertel & Knoph
Protoblastenia rupestris (Scop.) Steiner
Pseudoevernia consocians (Vainio) Hale & Culb.
Punctelia rudecta (Ach.) Krog
subrudecta (Nyl.) Krog
Rhizocarpon grande (Floerke ex Flotow) Arnold
hochstetteri (Koerber) Vainio
obscuratum (Ach.) Massal.
Rhizoplaca chrysoleuca (Sm.) Zopf.
Rinodina subminuta Magnusson
Stereocaulon intermedium (Savicz) Magnusson
paschale (L.) Hoffm.
subcoralloides (Nyl.) Nyl.
Trapelia involuta (Taylor) Hertel
Tuckermannopsis ciliaris (Ach.) Gyelnik
oakesiana (Tuck.) Hale
orbata (Nyl.) Lai
pinastri (Scop.) Hale
sepincola (Ehrh.) Hale
Umbilicaria muehlenbergii (Ach.) Tuck.
Usnea hirta (L.) Weber ex Wigg.
Usnea strigosa (Ach.) A. Eaton
Xanthoparmelia conspersa (Ehrh. ex Ach.) Hale
Xanthoria fallax (Hepp in Arnold) Arnold

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