

## **Paul C. Rogers**

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### **EDUCATION:**

PhD, Forest Ecology, Utah State University (2007)

Specialties: aspen and community ecology, lichen monitoring, biogeography, disturbance ecology, and large-scale forest monitoring.

Dissertation: *Factors influencing epiphytic lichen communities in aspen-associated forests of the Bear River Range, Idaho and Utah.* (three articles published, one in prep.)

MS, Geography, minor in Cartography, University of Wisconsin – Madison (1986)

Specialties: physical geography, geomorphology, alpine environments, wildland management, and remote sensing.

Thesis: *Campsite impacts in the High Uintas Wilderness Area: a study of two altitudinal zones.*

BS, Geography, minor in History, Utah State University (1983)

Specialties: physical geography, geomorphology, meteorology, geology, western U.S., and cartography.

### **GRANTS & FUNDING:**

**Quinney Foundation** Grant to Support Western Aspen Alliance (awarded 2008; \$112,200 for 4-years) with Dr. Ronald Ryel. Funds are to provide “seed money” to establish this regional research and management working group tasked with collaborating and facilitating ecological aspen research to improve management.

**Cedar Mountain Initiative**, Utah State University Extension, (awarded 2008; \$150,000 for 3-years) with Dr. Karen Mock. Monies will support research on Cedar Mountain, southern Utah that will evaluate conditions across a large landscape of pure aspen stands and assess genetic expression in stand structure, browsing intensity, and incidence of stem disease.

## **PROFESSIONAL SOCIETIES & SERVICE:**

**Western Aspen Alliance** (Director), Utah State University & USFS Rocky Mountain Research Station, 2008 – present

**Natural Areas Association** (Member), <http://www.naturalarea.org/>, 2006 – present

**Utah Forest Restoration Working Group** (Member/advisor, Ecology sub-group), 2009-2010.

**Restoring the West** (Organizing Committee), <http://www.restoringthewest.org/>, 2008 & 2009.

**North American Forest Ecology Workshop** (Co-Chair 2009; Organizing Committee 2008-present); <http://www.cof.orst.edu/cof/fs/research/silv/NAFEW.htm>.

**International Association of Wildland Fire** (Member), <http://www.iawfonline.org/>, 2008 – 2009.

**Cache County [Utah] Bike and Pedestrian Advisory Committee** (Member; University to Downtown Linkages group Chair), 2007-present

**Utah Bioneers** (Organizing Committee), 2008-2009.

## **Technical Paper Reviewer:**

**Journals:** *Ecological Indicators*; *J. of Biogeography*; *Western North American Naturalist*; *Plant Ecology*; *Northern J. of Applied Forestry*

**Agency General Tech. Reports:** USFS Southern Research Station; USFS Rocky Mountain Research Station; USFS National Forest Inventory & Analysis Program, Washington Office

## **WORK EXPERIENCE:**

**Director, Western Aspen Alliance & Adjunct Assistant Professor** Dept. of Wildland Resources & Dept. of Environment and Society, Utah State University (2008 – present)

\* Communication: conduct and organize field workshops, conferences, and meetings related to promoting a western U.S. regional aspen research and management coalition.

\* Coordination: consult and direct expertise among regional land management agencies and university researchers in the field of aspen ecology.

\* Fund raising: apply for grants from various sources, including large foundations, to support research and management efforts directed towards aspen ecology. Presentations to funders made in written and oral form.

\* Supervision: direct and advise graduate students and technicians in study design and data collections methods.

- \* Publication: author technical peer-reviewed papers in regional, national, and international journals.

- \* Instructor for *Collaborative Problem-Solving for Environment and Natural Resources* (ENVS 5000): Organize class projects, lecture, advise project work, grade written assignments, supervise Teaching Assistant. This is the “capstone” required class for seniors in the Dept. of Environment and Society.

**Technical Writer/Editor** Management and Engineering Technologies International (2004-2006).

- \* Conduct library searches and maintain bibliographic database on all aspects of aspen ecology for project reference.

- \* Authored major sections in a comprehensive synthesis of aspen ecology (see Shepperd et al. 2006 below).

- \* Project editor, including assembly/organization of all text, photos, figures, tables, and appendices.

- \* Manage project communications and maintain electronic manuscript files and backup systems.

**Ecologist** U.S. Forest Service, Rocky Mountain Research Station (June 1992-2004)

- \* Forest Inventory and Analysis analyst: analyze data, compile reports, review forest health indicators and issues.

- \* Forest Health Monitoring Regional Analyst: analyze and publish data on issues in the Interior West.

- \* Train and supervise interdisciplinary research crews (6-20 people) for field work in AZ, UT, NV, CO, ID, WY.

- \* Plan, budget, and manage field work and personnel to collect ecological field data for a multi-state program.

**Forestry Technician** U.S. Forest Service, Rocky Mountain Research Station (June 1988-May 1992)

- \* Conduct forest inventory, including plant I.D., mensuration, and multiple resource evaluations (MT, ID, UT).

- \* Supervise field and aerial photo interpretation crews.

**Naturalist/Instructor** Max McGraw Wildlife Foundation, Dundee, Illinois (February-May 1989)

- \* Design and conduct natural history learning sessions for all ages.

- \* Assisted in wildlife research projects and prescribed burning.

**Biological Technician** U.S. Forest Service, Bridger-Teton National Forest (June-Nov. 1987)

- \* Mapped grizzly bear habitat by field I.D. of plant species.

- \* Digitized all road and timber sale maps for forest.

**Cartographic Aid** U.S. Forest Service, Payette National Forest (August-October 1986)

- \* Compiled watershed maps of select forest watersheds.

- \* Digitize land-type and road maps for forest plan.

**Project Assistant** Environmental Remote Sensing Ctr., Univ. of Wisc.-Madison  
(September 1985-July 1986)

- \* Ordered aerial photos of hazardous waste sites
- \* Searched and updated computer base project bibliography.
- \* Digitized aerial photos for color sequencing, enhancement, and analysis.

## **TEACHING:**

### **University:**

- *Monitoring and Assessment in Natural Resource and Environmental Management* (Wildland Resources 4750); Fall 2009.
- *Collaborative Problem-Solving for Environment and Natural Resources* (ENVS 5000); Spring 2008, 2009.

### **Other:**

- *Introduction to Cross-country skiing*, Nordic United, Logan, UT; 2008, 2009
- *Field techniques for Ecological inventory & monitoring*, U.S. Forest Service, Rocky Mountain Research Station, Ogden, UT (field sites throughout western U.S., eastern Europe, and eastern Africa); 1992-2004.
- *Data management, processing, analysis, and reporting for forest health monitoring*, U.S. Forest Service, Rocky Mountain Research Station, Ogden, UT (eastern Africa workshop), Voi, Kenya; 2002.
- *Field naturalist classes for K-12 and adults*, Max McGraw Wildlife Foundation; 1989.

## **TRAINING, SEMINARS, MEETINGS:**

\* 94<sup>th</sup> Annual ESA Meeting, Albuquerque, NM. [Oral – Leffler, A.J.; **Rogers, P.C.**; Ryel, R.J.] “A tale of two landscapes: Assessing aspen in northern and southern Utah with ecological indicators,” August 2-7, 2009.

\* 7th North American Forest Ecology Workshop, Logan, UT. Workshop **Co-organizer/Session Chair/Oral and Poster Presenter:** [Oral – **Rogers, P.C.**] “Aspen Ecology in the United States: recent advances and future needs”; [Oral – Leffler, A.J.; **Rogers, P.C.**; Oucrop, C.; Evans, D., Ryel, R.J.] “Aspen condition on Cedar Mountain, Utah: ecological indicators of decline”; “[Poster – **Rogers, P.C.**; Bartos, D.L.; Ryel, R.J.] “The Western Aspen Alliance: Promoting Sustainable Aspen Ecosystems in Western North America,” June 22-26, 2009.

\* Aspen Restoration in the Northern Rockies, University of Montana, Missoula, MT (Invited Presentation). “The Western Aspen Alliance: uniting scientists and managers for sustainable aspen ecosystems.” April 3-4, 2009.

\* The '88 Fires: Yellowstone and Beyond, Jackson, Wyoming, [Poster] “The Western Aspen Alliance: Promoting Sustainable Aspen Ecosystems in Western North America,” Sept. 22-27, 2008.

\* Restoring the West – Frontiers in Aspen Restoration conference, Logan, Utah, Organizer/presenter/workshop facilitator: “Historical Landscape Ecology of Seral Aspen in the Western U.S.,” Sept. 16-18, 2008.

- \* 6<sup>th</sup> North American Forest Ecology Workshop, Vancouver, BC. Presenter: “Change in aspen dependent species with succession: the case for epiphytic macrolichens as indicator species,” June 18-22, 2007.
- \* Summer Research Internship, Aspen & Lichen Ecology of Sweden, Dr. Henrik Hedenås, Dept. of Ecology & Environmental Science, Umeå University, Sweden, May 26 – July 23, 2006.
- \* PC-ORD (software for ordination of ecological community data) training seminar, Portland, OR, May 2006.
- \* Managing Aspen in Western Landscapes Conference, Cedar City, Utah, Presenter: “Using forest inventory data to assess aspen health in Utah,” Sept. 22, 2004.
- \* 89<sup>th</sup> Ecological Society of America Meeting, Portland, Oregon, Presenter: “Monitoring statewide aspen community health with extensive inventory data in Utah,” August 1–6, 2004.
- \* 4<sup>th</sup> North American Forest Ecology Workshop, Corvallis, Oregon. Session Chair: “Inventory, Monitoring, and Change Detection,” June 16-20, 2003.
- \* 3<sup>rd</sup> North American Forest Ecology Workshop, Duluth, Minnesota. Session Chair: “Using inventory and monitoring data to evaluate forest change,” June 30-July 1, 2001.
- \* International trainer, Forest Health Monitoring field methods and analysis: Belarus (1995), Kenya and Tanzania (2001, 2002, 2006)
- \* 2<sup>nd</sup> North American Forest Ecology Workshop, Orono, Maine. Presenter: “Forest health and aspen decline in the Southern Rockies ecoregion,” June 27-30, 1999.
- \* National Forest Health Monitoring Workshops 1996-2000, 2002, 2004. Reporting and analysis focus group chairman (‘96-98) and paper presentation (‘98, ‘99, ‘02).
- \* Disturbance Ecology Center Detail (2 months), USDA Forest Service, Rocky Mountain Research Station, Logan, Utah and Utah State University. January-February 1995.
- \* Pollution Bioindicators Workshop, Research Triangle Park, NC, Dec. 1994.
- \* Fire Danger and Forest Health Conference, Spokane, WA, Sept. 1994.
- \* Lichen Indicator National Trainers Training (Forest Health Monitoring), Portland, OR, May, 1994; Tucson, AZ, (‘02-‘04).
- \* Quality Assurance, Quality Control Meeting (Forest Health Monitoring), Las Vegas, NV, April, 1994.
- \* Statistical Applications Training (Office of Personnel Management), Seattle, WA, Jan. 1994.

## **PUBLICATIONS:**

**Rogers, P.C.**, Bartos, D.L., Ryel, R.J. 2009. Historical patterns influencing lichen communities and aspen forests of the Rocky Mountains, USA. (In prep).

Sharik, T.L.; Adair, W.; Battaglia, M.; Baker, F.A.; Comfort, E.J.; D’Amato, A.; DeLong, C.; DeRose, J.; Ducey, M.; Harmon, M.; Levy, L.; Logan, J.; O’Brien, J.J.; Palik, B.; Roberts, S.C.; **Rogers, P.C.**; Shinneman, D.J.; Spies, T.; Taylor, S.L. 2009. 7th North American Forest Ecology Workshop: Overview. International J. of Forestry Research (submitted).

**Rogers, P.C.**; Leffler, J.; Ryel, R.J. 2009. Landscape assessment of a stable aspen community on the Colorado Plateau, USA. Forest Ecology and Management (submitted).

Omoró, L.M.A., Pellikka, P., **Rogers, P.C.**, Luukkanen, O. 2009. Tree species diversity, richness, and similarity between exotic plantations and indigenous cloud forests in the Eastern Arc Mountains, Taita Hills, Kenya. Forest Ecology and Management (In review).

- Transtrum, D.; Nelson, G.; McArthur, S.; Trautvein, D.; Andrus, E.; Chadwick, A.; Frazier, D.; Hunt, S.; Mitchell, K.; Wirick, C.; Allen, J.; Jensen, J.; Smith, J.; Purser-Thompson, K.; Walker Workman, A.; Giles, P.; Loertscher, A.; Nez, J.; Oldham, N.; **Rogers, P.C.** 2009. *Forestry Camp at the Crossroads: Future scenarios for environmental learning at an historic university site*. **P.C. Rogers (ed.)**. Report for the Department of Environment and Society, Utah State University. 74 p.
- Rogers, P.C.**; Moore, K.; Ryel, R. J. 2009. Aspen succession and nitrogen loading: a case for epiphytic lichens as bioindicators in the Rocky Mountains, USA. *J. Vegetation Science*, 20: 498-510.
- Rogers, P.C.** 2009. Reply to Spanhove & Lehouck "Don't miss the invasions! A note on Forest Health Monitoring in the Taita Hills, Kenya". *J. East African Nat. Hist.*, 97(2):257-258.
- Rogers, P.C.**; O'Connell, B.; Mwang'ombe, J.; Madoffe, S.; Hertel, G. 2008. Forest Health Monitoring in the Ngangao forest, Taita Hills, Kenya: a five year assessment of change. *J. East African Nat. Hist.*, 97(1):3-17.
- Rogers, P.C.**; Ryel, R. J. 2008. Lichen community change in response to succession in aspen forests of the southern Rocky Mountains. *Forest Ecology and Management*, 256: 1760-1770.
- Rogers, P.C.** (ed.). 2008. Summary and abstracts from sudden aspen decline (SAD) meeting, Fort Collins, Colorado. February 12-13, 2008. USDA Forest Service, Rocky Mountain Research Station, "white paper" on file at RMRS, Fort Collins, CO and Western Aspen Alliance, Department of Wildland Resources, Utah State University, Logan, Utah. [http://www.western-aspen-alliance.org/pdf/FtCollins\\_SAD\\_summary.pdf](http://www.western-aspen-alliance.org/pdf/FtCollins_SAD_summary.pdf).
- Rogers, P.C.** 2007. Factors influencing epiphytic lichen communities in aspen-associated forests of the Bear River Range, Idaho and Utah. [Ph.D. Dissertation], Utah State University, Dept. of Wildland Resources. 166 p.
- Rogers, P.C.**; Rosentreter, R.; Ryel, R.J. 2007. Aspen indicator species in lichen communities in the Bear River Range of Idaho and Utah. *Evansia*, 24(2): 34-41.
- Rogers, P.C.**; Shepperd, W.D.; Bartos, D. 2007. Aspen in the Sierra Nevada: regional conservation of a continental species. *Natural Areas Journal*, 27(2): 183-193.
- Madoffe, S.; Hertel, G.D.; **Rogers, P.**; O'Connell, B., and Killenga, R. 2006. Monitoring the health of selected eastern arc forests in Tanzania. *African Journal of Ecology*. 44:171-177.
- Shepperd, W.; **Rogers, P.**; Burton, D.; Bartos, D. 2006. Ecology, biodiversity, management, and restoration of Aspen in the Sierra Nevada. RMRS-GTR-178; Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, 122 p. [http://www.fs.fed.us/rm/pubs/rmrs\\_gtr178.html](http://www.fs.fed.us/rm/pubs/rmrs_gtr178.html). (Also published as an internal U.S. Forest Service Contract report under the title, "Ecology, management, and restoration of Aspen in the Sierra Nevada.").
- Madoffe, S.; Mwang'ombe, J.; O'Connell, B.; **Rogers, P.**; Hertel, G.; Mwangi, J. 2005. Forest Health Monitoring in the Eastern Arc Mountains of Kenya and Tanzania: a baseline report from select forest reserves. U.S. Department of Agriculture, Forest Service, Northeast Area. 52 p. Published on-line: <http://www.easternarc.or.tz/dl.htm#Eastern%20Arc> or [http://fhm.fs.fed.us/pubs/baseline/eam\\_01\\_02.pdf](http://fhm.fs.fed.us/pubs/baseline/eam_01_02.pdf).
- Steinman, J.; Bridgewater, D.; Burns, B.; Cummings-Carlson, J.; Conkling, B.; McWilliams, W.; Ripley, K.; **Rogers, P.**; Schomaker, M.; Trickle, R.; Vissage, J.; Yockey, E. 2004. Reporting Plan for the Forest Health Monitoring Program of the USDA Forest Service: guidelines for state, multi-state and national reports. USDA, Forest Service, Washington Office, National Forest Health Monitoring Program. 11 p.
- Rogers, P.** 2003. Forest Resources of the Prescott National Forest. Brochure. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 13 p.
- Rogers, P.** 2003. Forest Resources of the Apache-Sitgreaves National Forest. Brochure. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 13 p.

- Rogers, P.** 2003. Forest Resources of the Cibola National Forest. Brochure. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 13 p.
- Neitlich, P.; **Rogers, P.**; Rosentreter, R. 2003. Lichen communities indicator results from Idaho: baseline sampling. Gen. Tech. Report RMRS-GTR-103. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 14 p.
- Keyes, C.; **Rogers, P.**; LaMadeleine, L.; Applegate, V.; Atkins, D. 2003. Utah Forest Health Report: A baseline assessment, 1999-2001. Utah Dept. of Natural Resources, Div. of Forestry, Fire and State Lands, Salt Lake City, Utah. 47 p.
- Rogers, P.** 2002. Using Forest Health Monitoring to assess aspen forest cover change in the southern Rockies ecoregion. *Forest Ecology and Management*, 155(1-3):223-236.
- Koch, L.; **Rogers, P.**; Frank, M.; Spiegel, L.; Atkins, D. 2001. Wyoming forest health report: a baseline assessment, 1995-1998. Wyoming State Forestry Division (Cheyenne, WY) and USDA Forest Service, Rocky Mountain Research Station (Ogden, UT). 52 p.
- Rogers, P.**; Atkins, D.; Frank, M.; Parker, D. 2001. Forest Health Monitoring in the Interior West: a baseline summary of forest issues, 1996-1999. Gen. Tech. Rep. RMRS-GTR-75. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 40 p.
- Neitlich, P.; Hasselback, L.; Szewczak, S.; **Rogers, P.** 1999. FHM lichen community results from Wyoming, 1997: a preliminary summary. A report to the USDA Forest Service, Rocky Mountain Research Station, Forest Health Monitoring Program. White Mountain Research Station, Bishop, CA. 27 p.
- Atkins, D.; Byler, J.; Livingston, L.; **Rogers, P.**; Bennett, B. 1999. Health of Idaho's forests: a summary of conditions, issues and implications. USDA Forest Service, Northern Region, Forest Health Protection, Report No. 99-4. 33 p.
- Chojnacky, D.; **Rogers, P.** 1999. Converting tree diameter at root collar (drc) to diameter at breast height (dbh). *Western Journal of Applied Forestry*, 14(1):14-16.
- Rogers, P.**; Stolte, K; Burkman, B.; Cummings-Carlson, J.; Busing, R.; Schomaker, M. 1998. Technical reporting plan: guidelines for annual regional reports. USDA, Forest Service, Southern Research Station, National Forest Health Monitoring Program, Research Triangle Park, N.C. 16 p.
- McCune, B.; **Rogers, P.**; Ruchty, A.; Ryun, B. 1998. Lichen communities for Forest Health Monitoring in Colorado, USA. A Report to the USDA, Forest Service, National Forest Health Monitoring Program, Research Triangle Park, N.C. 29 p.
- Rogers, P.**; Schomaker, M.; McLain, W.; Johnson, S. 1998. Colorado forest health report 1992-95: a baseline assessment. Colorado State Forest Service and USDA, Forest Service, Rocky Mountain Research Station. 44 p.
- Rogers, P.** 1996. Disturbance ecology and forest management: a review of the literature. USDA, Forest Service, Intermountain Research Station, Ogden, Utah. Gen. Tech. Report INT-336. 16 p.
- Bechtold, W.; Rogers, P.; LaBau, V.; McLain, W. 1994. Forest Mensuration. In: Tallent-Halsell, N.G. (ed.). *Forest Health Monitoring 1994 Field Methods Guide*. PA/R-94/027. U.S. Environmental Protection Agency, Washington, D.C. pp.1.1-1.109.
- Rogers, P. 1987. Campsite impacts in the High Uintas Wilderness Area: a study of two altitudinal zones. [M.S.Thesis], University of Wisconsin-Madison. (Also published as a USDA Forest Service, Intermountain Region, Ogden, Utah, circular report).