

## *Curriculum Vitae*

### **EDUCATION:**

---

PhD, Ecology, Utah State University (2007)

Specialties: aspen and community ecology, lichen taxonomy, 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* (five publications).

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

Specialties: physical geography, dendrology, alpine environments, wildland management, and cartography/remote sensing.

Thesis: *Campsite impacts in the High Uintas Wilderness Area: a study of two altitudinal zones* (one USFS report published).

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

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

### **PUBLICATIONS:**

---

#### **JOURNAL ARTICLES**

- Rogers, P.C.**; Catlin, J.; Jones, A.; Shuler, J.; Morris, A.; Kuhns, M. 2014. Quaking Aspen at the Residential-Wildland Interface: Sustained Elk Herbivory Hinders Forest Conservation. *Natural Areas Journal*. (In review)
- Mittanck, C.M.; **Rogers, P.C.**; Ramsey, R.D.; Bartos, D.L.; Ryel, R.J. 2013. Can pure aspen be a stable community? Evidence from modeling aspen and conifer forest distributions in Utah. (In prep.)
40. **Rogers, P.C.**; Mittanck, C.M. 2014. Herbivory strains resilience in drought-prone aspen landscapes of the western United States. *Journal of Vegetation Science*. (In press) DOI: 10.1111/jvs.12099.
39. **Rogers, P.C.**; Landhäuser, S.M; Pino, B.; Ryel, R.J. 2014. Functional framework for improved management of western North American aspen (*Populus tremuloides* Michx.). *Forest Science*. (In Press)  
DOI: org/10.5849/forsci.12-156.
38. **Rogers, P.C.**; Eisenberg, C.; St. Clair, S. 2013. Resilience in quaking aspen: recent advances and future needs. *Forest Ecology and Management* 299:1-5. DOI: org/10.1016/j.foreco.2012.11.008.
37. Shinneman, D.J.; Baker, W.L.; **Rogers, P.C.**; Kulakowski, D. 2013. Fire regimes of quaking aspen in the Mountain West. *Forest Ecology and Management* 299: 22-34. DOI: org/10.1016/j.foreco.2012.11.032.
36. Omoro, L.M.A., Pellikka, P., **Rogers, P.C.** 2010. Tree species diversity, richness, and similarity between exotic and indigenous forests in the cloud forests of Eastern Arc Mountains, Taita Hills, Kenya. *J. of Forestry Research*, 21(2): 255-264.
35. 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.; Woodall, C.; Youngblood, A. 2010. Emerging themes in the ecology and management of North American forests. *International J. of Forestry Research*; Vol. 2010, ID 964260, 11 pages (DOI:10.1155/2010/964260).

34. **Rogers, P.C.**; Leffler, A.J.; Ryel, R.J. 2010. Landscape assessment of a stable aspen community in southern Utah, USA. *Forest Ecology and Management*, 259(3): 487-495.
33. **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.
32. **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.
31. **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.
30. **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.
29. **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.
28. **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.
27. 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.
26. **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.
25. 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.

#### **BOOKS, CHAPTERS, MONOGRAPHS**

24. **Rogers, P.C.**, Bartos, Dale L., Ryel, Ronald J. 2011. Historical patterns in lichen communities of montane quaking aspen forests. In: Justin A. Daniels (ed.), *Advances in Environmental Research, Vol. 15*. Nova Science Publishers, Hauppauge, NY: pp. 33-64.  
[www.novapublishers.com/catalog/product\\_info.php?products\\_id=30532](http://www.novapublishers.com/catalog/product_info.php?products_id=30532)
23. **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.
22. 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. [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.")
21. **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).

#### **PEER-REVIEWED TECHNICAL REPORTS**

20. 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.

19. 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.
18. 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.
17. **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.
16. **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.
15. **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.

#### REPORTS & FIELD GUIDES

14. **Rogers, P.C.**; Jones, A.; Catlin, J.; Shuler, J.; Morris, A.; Kuhns, M. 2013. Wolf Creek Ranch aspen monitoring report. Western Aspen Alliance, Utah State University, Logan, Utah. 21 p.
13. Utah Forest Restoration Working Group - Ecology Committee [Mary O'Brien, **Paul C. Rogers**, Kevin Mueller, Rob MacWhorter, Allen Rowley, Bill Hopkin, Bill Christensen, Paul Dremann]. 2010. *Guidelines for Aspen Restoration on the National Forests in Utah*, Western Aspen Alliance, Utah State University, Logan, UT. 48 p. <http://www.western-aspen-alliance.org/>
12. 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.
11. **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).
10. 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).
9. 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.
8. **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.
7. **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.

6. **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.
5. 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.
4. 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.
3. **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.
2. 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.
1. 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

#### **MISCELLANEOUS PUBLISHED WORKS**

St. Clair, S.B.; **Rogers, P.C.** (Eds.) 2013. [Special Issue] Resilience in Quaking Aspen: restoring ecosystem processes through applied science *Forest Ecology and Management*. Vol. 299.

**Rogers, P.C.** 2011. Western Aspen Alliance: a Scientific Network. *Utah Forest News*, 15(3): 4-5.

**Rogers, P.C.** 2010-present (author/editor). *Tremblings*. (Quarterly newsletter of the Western Aspen Alliance).  
<http://www.western-aspen-alliance.org/>

#### **EXPERIENCE:**

---

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

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

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

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

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

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

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

**Project Assistant** Environmental Remote Sensing Ctr., U. of Wisconsin-Madison (Sept. 1985-July 1986)

**GRANTS & FUNDING:**

**USDA Forest Service, State & Private Forestry, FY 2012 Western Competitive Resource Allocation** (Awarded 2012-2015, \$300,000), P.J. Abraham (Utah Forestry, Fire, State Lands) with multiple state, NGO, and private landowner partners to facilitate aspen restoration at Wolf Creek Ranch, Utah. \$10,000 to Western Aspen Alliance for monitoring design, training, data analysis.

**Eccles Foundation/Grand Canyon Trust** (Awarded 2011; \$5,000) with Dr. Ronald Ryel to support Rogers' time in participating in Utah Forest Restoration Working Group implementation projects.

**USDA, Forest Service, Regions 1-4, Participating Agreements** (Signed 2010; total to date \$48,100)

- **Region 4, Intermountain Region, Supplemental Project Agreement** (Awarded 2010-13; \$48,100) with Drs. Ronald Ryel and Micheal Kuhns to work with the Utah Forest Restoration Working Group to improve aspen sustainability on National Forest Lands throughout Utah and support general Western Aspen Alliance administration.
- **Region 3, Southwest Region, Supplemental Project Agreement** (Awarded 2011-12; \$20,000 annually) with Dr. Ronald Ryel to consult on monitoring plans for aspen restoration after large wildfires and to support general Western Aspen Alliance administration.

**National Institute of Food and Agriculture (NIFA), National Needs Graduate Fellowship (NNF) program** (awarded 2011; \$236,000 for 4 years) with Drs. Karen Mock, Barbara Bentz, Ronald Ryel, James Long, Michael Kuhns, Paul Rogers, and Zhoa Ma. Funding is explicitly for (2) doctoral and (2) masters students to address “**Managing for Resilience in Forested Ecosystems of the Intermountain West**”.

**USDI, Bureau of Land Management**, Grant to support Western Aspen Alliance (awarded 2010; \$200,000 for 5 years) with Dr. Ronald Ryel. Funds are to enhance the overall WAA program, as well as increase cooperative projects between WAA and BLM, such as delineating aspen functional types, preparing management and methods guidelines, and participating in regional ecosystem assessments as aspen experts.

- **USDI, Utah BLM, Vernal District** (Awarded 2011, \$20,000; 2012, \$10,000) with Dr. Ronald Ryel to support 2012 a monitoring program and development a management plan for aspen sustainability in the Book Cliffs area of eastern Utah.

**USDA, Forest Service**, Grant to participate in Utah Forest Restoration Working Group (awarded August 2010; \$4,000 for 1 year) with Dr. Ronald Ryel. The working group enacts a collaborative process between multiple interest groups (agency, industry, NGO, stakeholders, etc.) to find consensus on a range of forest-related issues. The inaugural issue for this group has been to develop a set of aspen restoration principles for all National Forest lands in the state of Utah. Dr. Paul Rogers was requested to act as a neutral party expert consultant for UFRWG.

**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

## Paul C. Rogers

5230 Old Main Hill, Utah State Univ., Logan, Utah 84322  
(435)797-0194  
p.rogers@usu.edu

Director, Western Aspen Alliance  
Ecology Center Associate  
Adjunct Faculty, Dept. Wildland Resources

---

conditions across a large landscape of pure aspen stands and assess genetic expression in stand structure, browsing intensity, and incidence of stem disease.

### **INSTRUCTION:**

---

#### **University Teaching:**

- *Planet Earth* (Honors 1360), Fall 2010-12, Biosphere section (“Exploring biological systems and linkages to abiotic spheres”), co-taught with Dr. James P. Evans, Geology, Utah State University.
- *Monitoring and Assessment in Natural Resource and Environmental Management* (Wildland Resources 4750); Fall 2009, Utah State University.
- *Collaborative Problem-Solving for Environment and Natural Resources* (ENVS 5000); Spring 2008, 2009, Utah State University.

#### **Graduate Committees:**

- Cody Mittanck (MS): "Exploring a stable aspen niche within aspen and conifer forests of Utah" - Completed, July 2012. [Major Advisor - R. Ryel]
- Jamie Laatsch (MS): Tentative topic "Survey of USFS managers' use of climate change directives in current work" - Jan. 2013 - present. [Major Advisor - Z. Ma]

#### **Graduate Mentoring:**

- Chad Oukrop (MS, 2010): "Assessing Quaking Aspen (*Populus tremuloides*) Decline on Cedar Mountain in Southern Utah Using Remote Sensing and Geographic Information Systems" [Major Advisor - R. Ryel]
- David Evans (MS, 2010): "A Spatiotemporal Analysis of Aspen Decline in Southern Utah's Cedar Mountain, Using Remote Sensing and Geographic Information Systems" [Major Advisor - R. Ryel]
- Richard Gardner (MS, 2013): tentative title -"Clonal diversity of aspen in two distinct Utah localities: How multiple clones may add to the resilience and persistence of this forest type" [Major Advisor - K. Mock]

#### **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, Elgin, IL; 1989.

### **SOCIETIES & SERVICE:**

---

#### **Affiliations:**

**Western Aspen Alliance** (Director), <http://www.western-aspen-alliance.org/>, Utah State University, BLM, and USFS, 2008 – present.

**Utah Conservation Corps Friends** (Board Member), 2010 – present.

## Paul C. Rogers

5230 Old Main Hill, Utah State Univ., Logan, Utah 84322  
(435)797-0194  
p.rogers@usu.edu

Director, Western Aspen Alliance  
Ecology Center Associate  
Adjunct Faculty, Dept. Wildland Resources

---

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

**Utah Forest Restoration Working Group** (Co-convener/science advisor), 2009-present.

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

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

**Great Basin Landscape Conservation Cooperative** (member), <http://greatbasinlcc.org>, 2011-present.

**Cache County [Utah] Bike and Pedestrian Advisory Committee** (current Chair; Planning Committee and City Council Liaison), member 2007-present

**Utah Bioneers Conference** (Organizing Committee), 2008-2011.

### Technical Reviewer:

**Guest Editor:** *Forest Ecology & Management*, (Rogers/St. Clair) Quaking Aspen, Special Issue, 2013. Vol. 299.

**Journals:** *Ecological Indicators; Ecosphere; Forest Ecology & Management; J. of Biogeography; Western North American Naturalist; Plant Ecology; Northern J. of Applied Forestry, Community Ecology, J. Vegetation Science, Rangeland Ecology & Management, Canadian J. Forest Res.*

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