

Vaughn Brandon Salisbury
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Education

1996-1999: Completed course work for M.S. in Natural Resource Management. University of Alaska –Fairbanks, Fairbanks, Alaska.

1996: Certificate of Completion. Six month core program in traditional wooden boat construction. Northwest School of Wooden Boatbuilding, Port Townsend, Washington.

1993: B.S., Natural Resource Management. University of Alaska-Fairbanks, Fairbanks, Alaska

Work Experience

9/2003-present: Research assistant. Kansas Biological Survey, University of Kansas, Lawrence, KS. Helped steward KU Field Station and Ecological Reserves land units and maintain facilities and equipment. Conducted numerous ecological monitoring projects. Assisted with data analysis and report and grant writing. Assisted University researchers with individual projects in grasslands and forests, and KBS scientists with on-going studies and surveys of biological resources in the state. Helped facilitate undergraduate courses in the Department of Ecology and Evolutionary Biology.

5/1999-8/2003: Research assistant. Department of Entomology, University of Arkansas, Fayetteville, AR. Participated in ongoing studies of the southern pine beetle and red oak borer in southeastern US and northwestern Arkansas. Helped prepare, coordinate, and implement laboratory and field experiments including graduate student studies. In charge of purchasing, maintenance, servicing, organization and inventory of laboratory and field equipment. Worked closely with and coordinated field work of graduate students and summer employees, with field crews from the U.S. Forest Service and private industry in Alabama. Performed data collection, entry and analysis. Maintained and upgraded laboratory computer equipment. Maintained and updated forest insect reference library and computer reference database. Initiated, constructed, and maintained insect colonies for laboratory experiments. Built and maintained specialized laboratory and field equipment. Carried out experiments with various formulations of artificial diet using colony-reared SPB parasitoids.

5-9/1998: Biological science technician, U.S. Forest Service, State and Private Forestry, Anchorage, Alaska. Participated in several on-going projects, including root disease surveys and assessing heart and butt rot of white spruce. Position required practical knowledge of forest insects and diseases in Alaska, chainsaw and tree felling skills, the use of basic forest mensuration tools, and familiarity with firearm use and safety. Assisted in collection of vegetation plot data, requiring knowledge of plant species in south-central Alaska. Participated in field camp construction and general maintenance.

5/1996-4/1998: Biological science technician, U.S. Forest Service, State and Private Forestry, Anchorage, Alaska. Studied *Ips* bark beetles in interior Alaska. Assisted in ongoing forest insect research and monitoring projects. Designed and implemented several experiments as well as collected field data. Employed basic forestry tools and measurement techniques. Completed course work and thesis preparation leading to a M.S. degree in natural resource management from the University of Alaska-Fairbanks.

5-9/1995: Biological science technician, U.S. Forest Service, State and Private Forestry, Anchorage, Alaska. Performed duties as described for previous field seasons (see below). Assisted in experiments assessing production of bark beetle semiochemicals. Helped construct new field camp facilities.

5-1994-3/1995: Biological science technician, U.S. Forest Service, Institute of Northern Forestry, Fairbanks, Alaska. Performed duties as described for previous field season (see below). Used software applications for word processing, database management, and spread sheets. Initiated a PC-based reference database of forest health management literature using Papyrus software. Converted mapped aerial insect surveys into a GIS compatible format with State Division of Forestry staff. Prepared mylar overlays, created, digitized, labeled, edited, and built coverages using ArcInfo software. Helped prepare written report accompanying annual insect survey maps. Participated in vegetation surveys, using knowledge of south-central Alaskan plant species. Collected, identified, pinned, and preserved insects in field and laboratory. Helped maintain and organize insect collection at the institute of Northern Forestry.

5-9/1993: Forestry technician, U.S. Forest Service, Institute of Northern Forestry, Fairbanks, Alaska. Assisted with several studies involving the use of pheromones for managing spruce beetle populations in south-central Alaska. Helped establish field study plots, deploy funnel traps, developed weekly work schedule for collecting, counting, and recording numerical data on beetles and associated predators caught in traps. Participated in collection of forest stand health data at various sites on the Kenai Peninsula. Located sites on the ground from aerial surveys and collected plot data such as tree species, diameter, height, age, crown class, status of tree health, slope, aspect, and associated groundcover species. This information was used to help validate the Spruce Beetle Expert System model. Field work required flying to remote locations via small planes and helicopters. Collected soil core samples and recorded data from weather stations and thermocouples on a weekly basis. Maintained equipment, vehicles, and a permanent field camp. Provided information to the public on the spruce bark beetle. Used chainsaw, gas-powered circular saw, various other hand and power tools. Job duties required knowledge of forestry, forest ecology, botany, forest entomology, forest pathology, and mensuration. Knowledge of use of firearms for bear protection was required.

9/1992-1/1993: Student technician II. University of Alaska, Agriculture and Forestry Experiment Station, Fairbanks, Alaska. Worked on an ongoing growth and yield study of four boreal forest species. Data collected for compiling site index tables. Electronically read tree rings and entered data into a personal computer. Performed library research and

mapping. Maintained and updated computer files. Applied knowledge of forestry and forest measurement techniques.

6/1992-9/1992: Student field technician. University of Alaska, Statewide Office of Land Management, Fairbanks, Alaska. Performed regeneration surveys on harvested University lands. Areas included Fairbanks, Matanuska-Susitna Valley, Kenai Peninsula, and Haines regions of Alaska. Lived and worked in remote field camps, often in adverse weather conditions and in proximity of bears. Compiled lists of plant species likely to be encountered and located stands to be surveyed. Worked closely with Sated Division of Forestry personnel in each region. Surveys involved mapping and compass use, laying out transit lines and location individual test plots. Environmental and biological data were collected at and in between plots. Plant species identification was required. Mapping and report writing were done at the end of the field season. Field work required physical exertion and travel over steep and rough terrain.

Job-related Training and Skills

- Skilled at supervising multiple laboratory assistants and graduate students
- experienced with forestry mensuration techniques
- Experienced with the collection, identification, rearing, and dissection of the SPB complex of parasitoids
- Skilled at building, establishing, and maintaining laboratory insect colonies
- First Aid certified and trained in CPR
- Trained and certified as a Wildland Firefighter; experienced with controlled burns in grasslands
- Familiar with PC and Mac systems, including word processing, database management, spreadsheets, GIS software, GPS units, and digital and SLR cameras
- Familiar with prairie and boreal forest vegetation and identification
- Familiar with multiple forest insect and disease complexes
- Skilled in carpentry
- Familiar with the safe use of chainsaws, 4-wheelers, and 4-wheel drive vehicles
- Experienced with firearms and backcountry travel

Publications

Haavik, L., Stephen, F., Fierke, M., **Salisbury, V.**, Leavitt, S., Billings, S. 2008. Tree ring $\delta^{13}\text{C}$ and historical growth patterns as indicators of Northern red oak (*Quercus rubra* Fagaceae) susceptibility to red oak borer (*Enapholodes rufulus* (Haldeman) (Coleoptera: Cerambycidae)). Forest Ecology and Management 255, 1501-1509.

Fierke, M.K., Kinney, D.L., **Salisbury, V.**, Crook, D.J., Stephen, F.M., 2005. Development and comparison of intensive and extensive sampling methods and preliminary within tree population estimates of Red Oak Borer (Coleoptera: Cerambycidae) in the Ozark Mountains of Arkansas. Environmental Entomology 34, 184-192.

Fierke, M.K., Kinney, D.L., **Salisbury, V.B.**, Crook, D.J., Stephen, F.M., 2005. A rapid estimation procedure for within-tree populations of red oak borer (Coleoptera: Cerambycidae). Forest Ecology and Management 215, 163-168.

Stephen, F.M., **Salisbury V.B.**, F. Limp, and D. Crook. 2002. Red Oak Borer, *Enaphalodes rufulus* (Coleoptera: Cerambycidae): A remarkable epidemic of Oak Mortality in the Interior Highland Forests. Symposium proceedings, AFRC-CES, Little Rock, AR May 23, 2002.

Stephen, F.M., **Salisbury, V.B.**, Oliveria, F.L., 2001. Red Oak Borer, Enaphalodes rufulus (Coleoptera: Cerambycidae), in the Ozark Mountains of Arkansas, U.S.A.: An unexpected and remarkable forest disturbance. Integrated Pest Management Reviews 6, 247-252.

Presentations

Kettle, D., S.M. Ashworth, W.H. Busby, S.W. Campbell, **V.B. Salisbury**. 2008. Integrating conservation, research, and outreach activities: Experiences at the University of Kansas Field Station. Kansas Natural Resources Conference, 22-23 February 2008, Wichita, KS

Busby, W.H., Kettle, D., **Salisbury, V.B.** 2008. Managing for biodiversity at the Anderson County Prairie Preserve. Kansas Natural Resources Conference, 22-23 February 2008, Wichita, KS

Kettle, D., **Salisbury, V.**, Ashworth, S. 2006. Opportunities for conservation and research on Mead's milkweed at the University of Kansas Field Station and Ecological Reserves: Rockefeller Prairie and the Anderson County Prairie Preserve. Meads Milkweed Symposium, 27-28 November 2006, Lawrence, KS.

Billings, S.A., Haavik, L., Stephen, F., Fierke, M., **Salisbury, V.**, Leavitt, S. 2006. Dendrochronological parameters of northern red oak (*Quercus rubra* Fagaceae) subjected to a major forest disturbance (red oak borer, *Enaphalodes rufulus*). International Union of Forest Reserachers' Organization (IUFRO). Canopy Processes traveling meeting in northeastern U.S. October 2006, Durham, NH.

Stephen, F.M., Crook, D.J., Fierke, M.K., Kinney, D.L., Lucio, L.D., **Salisbury, V.B.**, Limp, W.F. 2004. Investigations to understand the causes and course of the current red oak borer epidemic. Invited Presentation. Arkansas Forest Resource Center-Cooperative Extension Service Symposium. May 2004, Little Rock, AR.

Fierke, M., Kinney, D., **Salisbury, V.**, Crook, D., Stephen, F. 2004. Population levels and sampling methods for red oak borer *Enaphalodes rufulus* (Haldeman) (Coleoptera: Cerambycidae). Entomology Society of America annual meeting, 14-17 November 2004, Salt Lake City, Utah.

Crook, D., Stephen, F., Fierke, M., Kinney, D., **Salisbury, V.** 2002. Biology and

sampling of red oak borer populations in the Ozark Mountains of Arkansas.
Upland Oak Ecology: A Symposium. Oct 7-10, 2002, Fayetteville, AR.

Crook, D., Lucio, L., Wingard, S., Kinney, D., **Salisbury, V.**, Stephen, F. 2002. Studies assessing the red oak borer epidemic in the Ozark Mountains of Arkansas. Southern Forest Insect Work Conference, Roanoke, VA, Aug. 30-31, 2002.

Crook, D., Lucio, L., Wingard, S., Kinney, D., **Salisbury, V.**, Stephen, F. 2002. Oak forests in peril – Studies assessing the red oak borer epidemic in the Ozark Mountains of Arkansas. Entomological Society of America annual meeting, Nov. 17-20, 2002, for Lauderdale, FL.

Salisbury, V., Kinney, D., Lucio, L., Wingard, S., Crook, D., Stephen, F. 2002. Spatial distribution of within tree populations of red oak borer (*Enaphalodes rufulus*) (Haldeman) (Coleoptera: Cerambycidae). ESA Nov. 17-20, 2002. Fort Lauderdale, FL.

Kinney, D., **Salisbury, V.**, Mauromoustakos, A., Stephen, F. 2002. Development of a sampling method for estimating within-tree populations of red oak borer (*Enaphalodes rufulus*) (Haldeman) (Coleoptera: Cerambycidae) ESA Nov. 17-20, 2002. Fort Lauderdale, FL.

Kinney, D., Stephen, F., **Salisbury, V.**, Brown, L. 2000. Field evaluation of Eliminate: Effects of *D. frontalis* parasitism and brood emergence. ESA December 2000, Montreal, Canada.

Reports/Maps

Salisbury, V., B. Kuhn. 2008. GIS Map: Plant Communities of the Anderson County Prairie Preserve. Computer compilation and cartography by Jorgina Ross. Kansas Biological Survey.

Kettle, D., **V. Salisbury**, W. Busby, C. Freeman, and K. Kindscher. 2007. Ecological Management Plan for the Anderson County Prairie Preserve. 27 pp. Submitted to Rob Manes, Director of Conservation, The Nature Conservancy, Kansas Chapter.

Kettle, D., W. H. Busby, and **V. B. Salisbury**. 2007. Annual Report of Research, Management, and Activity at the Anderson County Prairie Preserve. 8pp. Submitted to The Nature Conservancy, Kansas Field Office.

Freeman, C.C., Busby, W.H., Delisle, J., Kettle, W.D., Kindscher, K., Loring, H., Morse, C.A., **Salisbury, V.B.** 2003. A Natural Areas Inventory of the Ft. Leavenworth Military Reservation, Leavenworth County, KS, II. Open file report No. 117. Kansas Biological Survey. Lawrence, KS. 199 pp.

References

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