



Appendix A: Key CNLM Staff Background Descriptions

David R. Brunner, President and Executive Director

David Brunner is president and executive director of the Center for Natural Lands Management and has served natural resource conservation efforts for 25 years both nationally and internationally. His primary interest is the development and implementation of sustainable models for the preservation and stewardship of natural lands and their environmental benefits. A particular focus is developing and capturing revenue streams to support stewardship of conservation lands through the ecosystem services they provide. During his career David has participated in the negotiation, establishment and management of public/private conservation partnerships with a cumulative value of \$1 billion and in establishing market-based models to engage the private sector in effective environmental conservation.

Previously David served as the Chief Operating Officer and Director of Venture Initiatives at the National Fish and Wildlife Foundation, an organization created by Congress in 1984 as a private charitable organization to conserve fish, wildlife, plants and their habitats. Additionally, David managed activities at the University of California Botanical Garden in Berkeley, served as administrative curator at the Missouri Botanical Garden in St. Louis, and helped establish the National Natural History Museum of Paraguay. His training is in botany from the University of Arizona.

Patrick Dunn, Director of South Sound Program, South Puget Sound, WA

Patrick Dunn founded South Puget Sound efforts more than 20 years ago and was part of the transition team, joining CNLM in 2011. Patrick provides direction, management and oversight for CNLM's preserves and operations in Washington and under his direction the South Puget Sound Program was designated the pilot for the Sentinel Landscape Program, a federal initiative that brings together three federal agencies to assist conservation in a specific landscape, in this case the South Sound Prairies.

Patrick has restored natural lands and conserved rare species in salt marshes of Southern California, the Greater Yellowstone Ecosystem, the tropical dryland and rainforests of Hawaii and the prairies and oak woodlands of Cascadia (Pacific Northwest). Patrick's expertise includes habitat restoration and management for rare species, including plants, rainforest birds and prairie butterflies, birds and mammals. Throughout his career Patrick has been responsible for restoring public and private lands, benefitting both native wildlife and landowners. Patrick's current interest includes cultivating partnerships with diverse groups, developing innovative conservation strategies that meet multiple and distinct goals simultaneously. Furthermore, he has completed a number of critical conservation-related land acquisitions advancing efforts to protect the South Puget Sound Prairies.

Patrick earned his bachelor's in biology from The Colorado College and his master's in ecology from California State University, Los Angeles.

Peter Dunwiddie, Ph.D., Ecologist, South Puget Sound, WA

Peter Dunwiddie joined South Puget Sound program in 1996 and was part of the transition team, joining CNLM in 2011. His responsibilities include prairie restoration, management, and research including rare species recovery (golden paintbrush, Taylor's checkerspot), invasive species control, fire ecology, ecological monitoring, and community restoration. He also leads prescribed burns, trains crew members, and assists with many aspects of the regional fire management program.

Peter has worked as an ecologist and restoration biologist for more than thirty years with conservation organizations including the Massachusetts Audubon Society and The Nature Conservancy. As a private ecological consultant, he has worked extensively on ecological restoration, conservation management, rare species recovery, and conservation planning with many land trusts, non-governmental organizations, and state and federal agencies. He has conducted extensive research and published widely in diverse fields, including conservation biology, restoration and management, invasive species, floristics and biogeography, historical and paleoecology, and dendrochronology. He is an affiliate professor in biology and in the School for Environmental and Forest Sciences at the University of Washington, where he works with graduate students on conservation-related research.

Peter received a bachelor's degree in environmental studies and a master's degree in geography from the University of Wisconsin and a doctoral degree in botany from the University of Washington.

Sanders Freed, Thurston County Program Manager, South Puget Sound, WA

Sanders joined South Puget Sound program in 2003, and was part of the transition team, joining CNLM in 2011. His responsibilities include managing and implementing restoration activities on numerous private, public and partner agency lands in Thurston County. The majority of his efforts focus on the restoration of degraded prairie/oak lands for the reintroduction or retention of imperiled species including the Mazama pocket gopher, Taylor's checkerspot butterfly and golden paintbrush.

Sanders has more than a decade of restoration experience, including all aspects of prairie restoration, noxious weed control and eradication, prescribed burns, native plant seeding and planting, and removal of invasive plant species. In addition, Sander's expertise includes reptiles, amphibians and bats. A number of his current projects involve creating artificial habitat structures for bats and developing habitats suitable for the Oregon spotted frog and western pond turtle.

Sanders received a bachelor's in environmental science from Oregon State, and a master's in environmental studies from The Evergreen State College.

Sarah Hamman, Restoration Ecologist, South Puget Sound, WA

Sarah joined South Puget Sound program in 2009 and was part of the transition team, joining CNLM in 2011. Her responsibilities include restoring rare species habitat in the Pacific Northwest prairies using rigorous science and conservation planning. Sarah manages several collaborative research projects and provides scientific guidance to CNLM staff.

Sarah's extensive training is in ecosystem ecology with a focus on forest and grassland fire. Her research activities with CNLM have revolved around all stages of the restoration process, with the goal of developing the most effective techniques to remove invasive species and restore resilient and diverse (both above and belowground) prairie communities. In addition, her past research has included climate change impacts on Minnesota tallgrass prairies, wolf behavior and demographics in Yellowstone, fire effects on invasive species in Sequoia National Park, and soil biogeochemical and microbial legacy effects on restoration success in central Florida scrublands.

Sarah earned her bachelor's in biology from Wittenberg University and a doctorate in ecology from Colorado State University. Sarah is an adjunct professor at The Evergreen State College, where she teaches graduate courses in the Master of Environmental Studies program.

Nathan Johnson, Invasive Species Project Manager, South Puget Sound, WA

Nathan Johnson joined CNLM in 2012 and oversees CNLM's invasive plant control efforts on Joint Base Lewis-McChord. He is involved in coordinating regional prairie-oak weed control efforts, and is also the field lead for the CNLM fire crew.

Nathan has more than ten years of experience in natural resource management. He served two years in the Peace Corps in Morocco's Middle Atlas Mountains where he worked with ethnic Berbers and Arabs to promote ecotourism as an income source to reduce pressure on fragile mountain ecosystems. In addition, Nathan's multi-disciplinary background includes projects involving urban forestry, wildlife tracking education, timber inventory, Hawaiian dryland forest restoration, and silviculture research. Since 2009 he has worked on more than 250 prescribed and wildfires in many habitat types including Hawaiian dry forests, ponderosa pine forest, western Washington prairies, longleaf pine forests in Florida, and pitch pine and chestnut oak forests in the northeastern U.S. His graduate studies included research on the effect of Armillaria root disease on fire behavior in ponderosa pine stands.

Nathan earned a bachelor's in forestry from the University of Vermont, and a master's in forestry from the University of Washington.

Bill Kronland, Prairie Restoration Project Manager, South Puget Sound, WA

Bill Kronland first joined CNLM in November 2010 managing CNLM's California preserves in Orange County and western Riverside County. In 2013 Bill moved to Washington State to coordinate restoration and monitoring activities on Joint Base Lewis-McChord for the Taylor's checkerspot butterfly, Streaked horned lark, and the Mazama pocket gopher.

Bill has more than eighteen years of experience conducting biological surveys of wildlife populations, focusing largely on identifying environmental parameters that influence species occurrence. He has a strong background in study design and analysis, particularly concerning small mammal and avian systems. In addition, Bill has experience working across a wide variety of landscapes and with a diverse portfolio of animal taxonomies. Prior to joining CNLM, he worked for the Biological Monitoring Program of the Western Riverside County Multiple Species Habitat Conservation Plan where he helped develop in-depth monitoring protocols for sensitive vegetation communities and wildlife species including federally-listed Stephens' kangaroo rat, California gnatcatcher, and Least Bell's vireo. In addition, Bill has conducted surveys of flora and fauna across the Northern Great Plains and portions of the Northern Rocky Mountains while working for the U.S. Forest Service. He spent three years as a Peace Corps Volunteer in Northeast Kazakhstan conducting bird surveys in the Altai Mountains and implementing environmental education programs for Kazakhstani youth.

Bill earned his bachelor's in biology from Indiana University, Bloomington and his master's in ecology and natural resources at Saint Cloud State University. His research focused on the effects of post-fire salvage logging on population densities of cavity-nesting birds and small-mammal species in eastern Montana.

Mason McKinley, Joint Base Lewis-McChord Restoration and Ecological Fire Program Manager, South Puget Sound, WA

Mason McKinley joined the South Puget Sound program in 2005, and was part of the transition team that joined CNLM in 2011. Mason manages a cooperative restoration program with Joint Base Lewis-McChord (JBLM) that covers a diverse range of natural resource activities on the military installation.

Activities at JBLM primarily focus on prairie and oak habitat restoration, rare species management, wetland, stream and riparian restoration, invasive species control and prescribed ecological burning. Mason is also CNLM's ecological fire program manager, a program that in Washington, has conducted hundreds of burns in north and south Puget Sound as part of an integrated habitat restoration and rare species management strategy.

Mason has been working in natural resources management since 1992. His work experience has ranged from wildlife surveys, trapping and relocation, soil surveys and analysis, firefighting, forest management and ecological restoration. Mason was forest manager of University of Washington's Pack Forest for nine years where he was involved in silvicultural and operational management, optimization modeling, forest research, as well as public outreach and education.

Mason earned his bachelor's in conservation of wildland resources and his master's in silviculture at the University of Washington.

Deborah L. Rogers, Ph.D., Director of Conservation Science and Stewardship

Deborah Rogers provides leadership for CNLM's programs and initiatives in conservation science, restoration, and stewardship. As CNLM directly and perpetually practices conservation on its preserves, Deborah provides guidance for incorporating scientific principles and information into stewardship practice, develops standards and quality control for stewardship planning and documentation, and provides leadership for CNLM's conservation science and stewardship staff.

Deborah has a distinguished 30-year career in natural resources conservation, working in the private, (land management) government, academic, and non-profit sectors. Deborah's research has focused on the genetic diversity of native plant species and better understanding how to conserve that diversity to support adaptation and species longevity. Her expertise on these topics, particularly genetic diversity of *Pinus radiata* and *Sequoia sempervirens*, has been valued internationally through research collaborations and invited seminars and keynote presentations. She founded and directed the Monterey Pine Forest Ecology Cooperative, a nonpolitical forum for transferring scientific information to management and regulation of coastal California forest ecosystems.

She is an associate editor of the Native Plants Journal and an associate within the Agricultural Experiment Station of the Department of Plant Sciences, University of California, Davis. She has authored over 50 peer-reviewed scientific publications, book chapters, and research reports. She conducts an active outreach program for "PAR" methodology to support other conservation-directed entities in calculating perpetual stewardship costs of conservation lands.

Deborah holds a M.S. from the College of Forest Resources at the University of Washington, Seattle, a Ph.D. from the Department of Environmental Science, Policy, and Management at the University of California, Berkeley, and was awarded a Fullbright Scholarship during her Ph.D. studies. Deborah joined CNLM in 2006.

Gary Slater, Avian Ecologist

Gary joined CNLM in October 2014 as our Avian Ecologist in Washington State. Gary comes with more than 23 years of avian research and conservation experience, including work in south Florida, western Washington, Venezuela, and the coastal lowlands of Mexico. His research focused on a wide variety of topics, including the re-introduction of passerine bird species, particularly bluebirds and other cavity

nesters, and large-scale monitoring to assess the impacts of management actions (including prescribed fire) on bird populations. In addition, he has experience with exceptionally rare birds, including the endangered Cape Sable seaside sparrow, whose total population is estimated to be approximately 2,000 individuals in the seasonally flooded prairies of Everglades National Park. Gary earned his bachelor's in wildlife science from Purdue University and holds a master's in wildlife ecology from the University of Florida.

Sierra Smith, Conservation Nursery Program Manager, South Puget Sound, WA

Sierra Smith joined CNLM in 2012 and manages the conservation nursery program. Sierra implements the seed production program and oversees contracts for plant plugs and grass seed.

Sierra's diverse background includes horticulture, botany and agriculture. He has served as a rare species and invasive species botanist for Yosemite National Park. In addition he was nursery manager for the Mendocino Coast Botanical Garden in California in which his work focused on tender ornamental species. He also served on the curation committee for the Washington Park Arboretum in Seattle, Washington and has owned and operated community supported vegetable farms in Colorado and California.

Sierra has a bachelor's in marine biology from University of California at Santa Cruz and a master's from University of Washington's College of Forest Resources.

Adrian Wolf, Conservation Biologist, South Puget Sound, WA

Adrian joined CNLM in 2011 and oversees CNLM's Streaked horned lark fieldwork on Joint Base Lewis-McChord, and is the field lead for lark nest and population monitoring, and our genetic rescue efforts.

Adrian has more than twenty years of experience in wildlife and botanical surveys, working for the Washington Department of Fish and Wildlife, California Department of Parks and Recreation, and environmental consulting firms. He has co-authored more than ten publications in professional journals in botany, ornithology and restoration ecology. He became impassioned about birds while working with the federally threatened California gnatcatcher at Crystal Cove State Park, in Southern California. Adrian has also worked with other rare and endangered species including the Least bell's vireo, Southwestern willow flycatcher, Quino and Taylor's checkerspot butterflies, Riverside and San Diego fairy shrimp, and Mazama pocket gophers. Prior to his graduate studies, Adrian assisted in a radio telemetry and fruit dispersal study of toucans in the Ecuadorian Amazon Rainforest.

Adrian earned a bachelor's in social ecology at the University of California, Irvine and a master's in environmental studies from The Evergreen State College.