

Great Basin CESU

Cooperative Ecosystem Studies Unit

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University of Nevada, Reno Faculty

Animal Biotechnology

Dale Holcombe

Professor
(775) 784-1314, Fax: (775) 784-1375, daleh@unr.edu
Focus on evaluating the effects of maternal nutrition on ewe and lamb performance by developing dam feeding strategies that would enhance neonatal lamb survivability

Barry Perryman

Associate Professor
(775) 784-1265, Fax: (775) 784-1375, bperryman@cabnr.unr.edu
Monitoring protocols of prescribed fire effects on birds and small mammal communities

Tamzen Stringham

Associate Professor
(775) 784-6755, Fax: (775) 784-1375, tstringham@cabnr.unr.edu
Riparian and range ecology, restoration and management

David Thain

Assistant Professor
(775) 784-1377, Fax: (775) 784-1375, dthain@cabnr.unr.edu
State extension veterinarian

Esmail D. Zanjani

Professor and Chair
(775) 784-7737, Fax: (775) 784-1375, zanjani@scs.unr.edu
Human stem cell biology, in utero stem cell transplantation, in utero gene therapy

Anthropology

Louis Forline

Anthropology, MS 096, (775) 682-7840, forline@unr.edu
Cultural anthropologist with research interests in indigenous peoples and environments of Brazil

Donald Hardesty

Professor
Anthropology, MS 096, (775) 682-7524, hardesty@unr.edu
Archaeologist with research interests in historical period peoples and environments of the Western United States

Gary Haynes

Professor
Anthropology, MS 096, (775) 682-7692, gahaynes@unr.edu
Archaeologist with research interests in early peoples and environments of North America and Africa

G. Richard Scott

Associate Professor / Chair
Anthropology, MS 096, (775) 682-7630, grscott@unr.edu
Physical anthropologist with research interests in bioarchaeology of the Western United States and the Arctic

Art

Peter Goin

Foundation Professor
Art, MS 224, (775) 784-4994, pgoin@unr.edu
Photography and videography

Biology

Matthew Forister

Assistant Professor
Biology, MS 314, (775) 784-6770, mforister@unr.edu
Specialization, speciation, insect ecology and phylogeography

Dennis Murphy

Research Professor
Biology, MS 314, (775) 784-1303, ddmurphy@biodiversity.unr.edu
Ecology, evolution and conservation biology

Mary Peacock

Associate Professor
Biology, MS 314, (775) 784-1958, mpeacock@unr.edu
Population viability and conservation genetics

Richard Tracy

Professor
Biology, MS 315, (775) 784-1925, dtracy@biodiversity.unr.edu
Autecology, desert biology, paleoecology, and conservation biology

Steve Vanderwall

Professor
Biology, MS 314, (775) 784-6583, sv@unr.edu
Evolutionary ecology, community ecology, animal behavior, plant-animal interactions involving seed dispersal by seed-caching birds and mammals

Civil and Environmental Engineering

Amy Childress

Professor
Civil and Environmental Engineering, MS 258, (775) 784-6942, amyec@unr.edu
Solar ponds for brine reduction and energy recovery, membrane bioreactor technology, and membrane processes.

Edward Kolodziej

Assistant Professor
Civil and Environmental Engineering, MS 258, (775) 682-5553, koloj@unr.edu
Contaminant occurrence, fate and transport; non-point source of contaminants; endocrine disruption and water quality

Geography

Thomas Albright

Assistant Professor
Geography, MS 154, (775) 784-6673, talbright@unr.edu
Conservation biogeography, ecoclimatology, landscape ecology and remote sensing

Scott Bassett

Assistant Professor
Geography, MS 154, (775) 784-1434, sbassett@unr.edu
Environmental planning, GIS, conservation biology and integrative modeling

Franco Biondi

Associate Professor
Geography, MS 154, (775) 784-6921, franco.biondi@gmail.com
Climate-forest interactions, surface landscape processes, quantitative methods and dendrochronology
Doug Boyle
Associate Professor
Geography, MS 154, (775) 784-6995, douglasb@unr.edu
Surface water hydrology; snow hydrology; integrated modeling
Jill Heaton
Assistant Professor
Geography, MS 154, (775) 784-8056, jheaton@unr.edu
GIS, desert ecology, spatial modeling and herpetology

Scott Mensing

Professor
Geography, MS 154, (775) 784-6346, smensing@unr.edu
Biogeography, quaternary studies and geographic information systems

Paul Starrs

Professor
Geography, MS 154, (775) 784-6930, starrs@unr.edu
Dendrochronology, environmental monitoring, Great Basin climatology and water resources

Jeff Underwood

Associate Professor/State Climatologist
Geography, MS 154, (775) 784-6999, jeffu@unr.edu
Synoptic climatology, mountain-valley climates and hydrometeorology

Geology

Greg Arehart

Professor
Geological Sciences, MS 172, (775) 784-6470, arehart@unr.edu
Application of isotope geochemistry to geological problems with a focus on fluid migration processes and fluid-rock interaction in the crust as well as the timing and duration of hydrothermal activity

Bob Karlan

Professor
Geological Sciences, MS 172, (775) 784-1770, karlan@mines.unr.edu
Potential field and seismic reflection techniques applied to tectonics and geothermal exploration; Paleo/rock Magnetism; 3-D visualization; Walker Lane/Lake Tahoe Tectonics; paleoclimate/paleoceanography and paleoseismology in Puget Sound, Lake Tahoe, and Gulf of California; sediment and magnetic mineral diagenesis

Simon Paulson

Research Professor
Geological Sciences, MS 172, (775) 784-1104, poulson@mines.unr.edu
Environmental and low-temperature geochemistry, especially of natural waters; biogeochemical processes; stable isotope geochemistry; geochemical and stable isotope analytical techniques; management and operation of the Nevada Stable Isotope Laboratory

Scott Tyler

Professor
Geological Sciences, MS 172, (775) 784-6250, tylers@unr.edu
Hydrology and environmental fluid dynamics

Natural Resources and Environmental Sciences

Sudeep Chandra

Associate Professor
NRES, MS 186, (775) 784-6221, sudeep@cabnr.unr.edu
Restoration and conservation of aquatic ecosystems

Michael Collopy

Professor/Asst. Vice President for Research
NRES/VP; MS 436, (775) 784-8060, mcollopy@unr.edu
Habitat use, management and conservation of sensitive and endangered birds particularly raptors; foraging ecology of predatory birds; role of science in natural resource management

Mae Gustin

Professor
NRES, MS 370, (775) 784-4203, mgustin@cabnr.unr.edu
Geochemistry, environmental chemistry and biogeochemical interactions of contaminants in the environment

Dale Johnson

Professor
NRES, MS 370, (775) 784-4511, dwj@cabnr.unr.edu
Biogeochemical cycling and soils

Elizabeth Leger

Assistant Professor
NRES, MS 370, (775) 784-7582, eleger@cabnr.unr.edu
Population biology of plants, how genetic variation affects the distribution and abundance of species, and plant-animal interactions.

Marjorie Matocq

Associate Professor
NRES, MS 186, (775) 784-4621, mmatocq@cabnr.unr.edu
Evolutionary genetics, phylogeography, hybrid zones and mating systems

Glenn Miller

Professor
NRES, MS 199, (775) 784-4108, gcmiller@unr.edu
Alternative fuels; environmental photochemistry of organic compounds, focusing on pesticides on soil surfaces

Wally Miller

Professor
NRES, MS 186, (775) 784-4072, wilymalr@cabnr.unr.edu
Biogeochemical cycling and soils

Robert Nowak

Professor
NRES, MS 370, (775) 784-1656, nowak@cabnr.unr.edu
Plant physiological ecology

Jerry Qualls

Associate Professor
NRES, MS 370, (775) 327-5014, qualls@unr.edu
Biogeochemistry, formation of soil organic matter by microbial and chemical transformations, and microbial mineralization of humic substances

Laurel Saito

Associate Professor
NRES, MS 186, (775) 784-1921, lsaito@cabnr.unr.edu
Aquatic ecosystem and reservoir management; ecosystem, hydrodynamic and water resources modeling; interdisciplinary modeling; international issues in water resources

Jim Sedinger

Professor
NRES, MS 186, (775) 784-6556, jsedinger@cabnr.unr.edu
Study of life-histories, population biology and nutritional ecology of avian species, particularly waterfowl. Application of such knowledge to the management of avian populations, including waterfowl

Kelley Stewart

Assistant Professor
NRES, MS 186, (775) 784-4314, kstewart@cabnr.unr.edu
Population ecology of large mammals, and effects of density dependence on population growth, movement patterns, habitat selection, and both inter- and intraspecific competition.

Sherman Swanson

Associate Professor; Cooperative Extension State Specialist
NRES, MS 186, (775) 784-4314, sswanson@cabnr.unr.edu
Rangeland vegetation management; creeks and communities; Nevada Youth Range Camp

Mark Walker

Associate Professor; Cooperative Extension State Specialist
NRES, MS 370, (775) 327-1938, mwalker@cabnr.unr.edu
Non-point source management for public drinking water protection; microbial contaminants in water; and risk assessment and modeling for water supply protection

Roger Walker

Professor
NRES, MS 186, (775) 784-4039, walker@cabnr.unr.edu
Forest management; forest health and wildland fire in forest ecosystems of the Lake Tahoe Basin and eastern Sierra Nevada; forest restoration on mined lands of the eastern Sierra Nevada

Peter Weisberg

Associate Professor
NRES, MS 186, (775) 784-4583, pweisberg@cabnr.unr.edu
Landscape ecology; disturbance ecology; invasive plants; ecological modeling; GIS and remote sensing applications
Nevada Seismology Laboratory

Graham Kent

Professor; Director of Seismology Laboratory
NV Seismology Lab, MS 174, (775) 784-4977, gkent@seismo.unr.edu
Seismic reflection techniques, seismic instrumentation (OBSIP), 3-D visualization, mid-Ocean ridge dynamics, rifted continental margins, Walker Lane tectonics, Lake Tahoe geology/climate/hydrology

John Louie

Professor
NV Seismology Lab, MS 174, (775) 784-4219, louie@seismo.unr.edu
Geophysics, seismology, resource exploration and development, seismic reflection, geophysical imaging and inversion, tomography, modeling, scientific visualization, earthquake hazards and zonation, parcel mapping, ReMi, tectonics

Ken Smith

Research Associate Professor
NV Seismology Lab, MS 174, (775) 784-4218, ken@seismo.unr.edu
Seismotectonics and Seismicity of the Nevada and Eastern California; seismic network systems and data communications; earthquake Sequences in Nevada: 2008 Mw 5.0 Mogul West-Reno; Mw 6.0 Wells, Nevada

Resource Economics

George Fernandez

Chief Statistical Consultant
Center Research Design & Analysis, SBF 100F
(775) 784-4206, gcjf@unr.edu
Data mining applications, modeling in biological and physical sciences, applied statistical analysis and SAS programming

Thomas Harris

Professor
Department of Resource Economics (204), CABNR/UNR, Reno, NV 89557
(775) 784-1681, harris@cabnr.unr.edu
Regional economics, impact modeling, rural development, and operations research analysis

Kimberly Rollins

Associate Professor
Department of Resource Economics (204), CABNR/UNR, Reno, NV 89557
(775) 784-1677, krollins@cabnr.unr.edu
Natural resource economics, policy analysis, wildlife and society, environmental valuation, resource conservation and management

Scott Shonkwiler

Professor, Chair
Department of Resource Economics (204), CABNR/UNR, Reno, NV 89557
(775) 784-1341, jss@unr.edu

Applied econometrics and statistics, microeconomics, models of producer and consumer behavior, resource valuation, regional economic activity and rural business patterns

University of Nevada Cooperative Extension Specialists

Buddy Borden

Southern Area
2345 Red Rock St., Suite 100,
Las Vegas, NV 89146
(702) 222-3130, bordenb@unce.unr.edu
Areas of research and teaching interests are community economic development processes, applied economic development analysis and economic fiscal impact modeling. Community analysis and economic development, target impact analysis

John Cobourn

Western Area
865 Tahoe Blvd., Suite 110,
Incline Village, NV 89452
(775) 832-4150, cobournj@unce.unr.edu
Founded the Lake Tahoe Environmental Education Coalition to increase collaboration between water quality outreach education agencies. He works with natural resource managers to integrate watershed management in Lake Tahoe and the Carson River. Carson River Watershed Education Program, Carson Valley Water Quality Education Program, Flash Flooding and Community Alert System, Lake Tahoe Environmental Education Coalition, Partners in Conservation, Western Nevada Flood Education Program

Rod Davis

Central/Northeast Area
815 North Second Street,
Battle Mountain, NV 89820
(775) 635-5565, davisr@unce.unr.edu
Primary work as the Extension Education for Lander County is in the areas of community development, natural resources, horticulture and youth development. Community Beautification, economic development, invasive weeds, urban horticulture, wildfire fuels management/post fire rehabilitation

Jay Davison

Central/Northeast Area
111 Sheckler Road, Fallon, NV 89406
(775) 423-5121, davisonj@unce.unr.edu
Major interests are livestock grazing as an environmental management tool, evaluating low water use, high-value alternative crops suitable for producers, invasive weed control, and forage production/harvest strategies. Alternative crops, domestic water quality, invasive weed management, livestock grazing for vegetation management, rangeland management for Native American producers in Nevada, wildfire fuels management/post fire rehabilitation

Sue Donaldson

Western Area
5305 Mill Street, Reno, NV 89520
(775) 784-4848, donaldsons@unce.unr.edu
Provides information about domestic

well water quality, nonpoint source water pollution, small acreage management and invasive weed species education and management in collaboration with natural resources agencies. Carson Valley Water Quality Education Program, Living On The Land: Stewardship for Small Acreages, Tahoe Basin Weed Coordinating Group, Truckee Tributaries Watershed Protection Planning, Water Quality Education

Staci Emm

Central/Northeast Area
314 5th Street, PO Box 810,
Hawthorne, NV 89415
(775) 945-3444, emms@unce.unr.edu
Mineral County Extension Educator. She develops programs in community development, natural resources and youth development to facilitate the sustainability of rural communities. 4-H, Project Magic, Community Economic Development, Agriculture Sustainability, Indian Reservation Programs

Steve Lewis

Western Area
1329 Waterloo Lane,
Gardnerville, NV 89410
(775) 782-9960, lewiss@unce.unr.edu
Works in the fields of natural resources, community development, sustainable agriculture and youth development. As an Extension Educator in Douglas County, he addresses critical needs/ issues with training and assessment. Carson Valley Water Quality Education Program, Compost You Combustibles, Leadership Douglas County, Sage Grouse Conservation, Water Quality Education, Western Nevada Flood Education Program

Kent McAdoo

Central/Northeast Area
701 Walnut Street, Elko, NV 89801
(775) 738-7291, mcadook@unce.unr.edu
Areas of interest include rangeland revegetation, wildlife habitat enhancement, collaborative/holistic land management, alternative ranch incomes, proper functioning condition of riparian areas and native seed production/ collection. Nevada Youth Range Camp, Rangeland Management Education for Native American Producers in Nevada, Restoring Rangeland Health, Sustainable Biodiversity/Multiple Use of Rangelands, Resource Conflict Resolution, Invasive Weed Management

Bob Morris

Southern Area
2345 Red Rock Street, Suite 100,
Las Vegas, NV 89146
(702) 257-5509, morrisr@unce.unr.edu
Interests are woody plant nutrition, wood-boring insect control and pheromone use, turfgrass weed control, turfgrass and woody plant water use, irrigation conservation strategies, and salinity effects on turf and ornamentals. Biosolids for the Green Industry, Don't Bag It™, Golf Course Monitoring, Interior Plants and Cut Flowers, Irrigation Management, Landscape Irrigation Water Quality, Landscape Retrofit, Teaching through Mass Media

Angela O'Callaghan

Southern Area
2345 Red Rock Street, Suite 100,
Las Vegas, NV 89146
(702) 257-5581, ocallaghana@unce.unr.edu
Areas of expertise are in horticulture, plant science and desert gardening. Her program focuses on the development of community gardens, teaching horticulture in the prisons and the Master Gardener program. Annual Pruning Seminar/Healthy Tree Seminar, Beginning Desert Gardening, Coffee with Friends, Fundamentals of Horticulture, Gardening Class, Horticulture Outreach Classes, Master Gardeners, Patio Farming, Teaching through Mass Media

Pam Powell

Central/Northeast Area
111 Sheckler Road, Fallon, NV 89406
(775) 423-5121, powellp@unce.unr.edu
Areas of interest are working with youth in programs such as literacy, technology and life-skills. She oversees the Fallon arsenic study, funded by EPA. She is the Extension Educator for Churchill County. EPA Arsenic Study Follow-Up Survey, Health Effects of Inorganic Arsenic in Drinking Water, Soils Education in the Classroom, Well-Water Analysis, Youth Development Grants

Marlene Rebori

Western Area
5305 Mill Street, Reno, NV 89520
(775) 784-4848, reborim@unce.unr.edu
Works with community groups and organizations in the area of facilitation, group process, community planning and problem solving, leadership development and public policy education. Engaged Leadership, Fire Safe Highlands, LeadersShip Douglas County, Living with Fire

M.L. Robinson

Southern Area
2345 Red Rock Street, Suite 100,
Las Vegas, NV 89146
(702) 257-5529, robinsonm@unce.unr.edu
Expertise includes water conservation, palms and integrated pest management. He works in grant procurement, education program development and applied research. Desert Bioscape, Desert Green, Environmentally Friendly Pest Control, Integrated Pest Management and Training, Master Gardener Prison training, Water Our Chances

Brad Schultz

Central/Northeast Area
1085 Fairgrounds Road
Winnemucca, NV 89445
(775) 623-6307, schultzb@unce.unr.edu
Collaborates with state agencies and individual producers on natural resource/ land management issues. His interests include grazing, pasture and habitat management, noxious and invasive weeds, rangeland restoration and forage/ field crops. Agricultural Production, 4-H and Ecology Days, Nevada Youth Range Camp, Rangeland Resources, Reproductive Management of Beef Cows, Urban Horticulture

Loretta Singletary

Central/Northeast Area
504 South Main Street
Yerington, NV 89447
(775) 463-6541, singletaryl@unce.unr.edu
Areas of interest are natural resource dispute management, water issues, public issues education methods, youth development, and assessing impacts of collaborative processes. 4-H Program Impact Assessment, Calming the Waters, Economics of Invasive Weed Control, Managing Natural Resource Disputes, Water Quality Management and Precision Agriculture, Walker River Basin Advisory Program, Water Wise Demonstration Arboretum

JoAnne Skelly

Western Area
2621 Northgate Lane, Suite 15, Carson City, NV 89706
(775) 887-2252, skellyj@unce.unr.edu
Natural resource management expertise is in landscape design for wildlife defense. She works in urban horticulture, integrated pest management, sustainable landscape design and landscape maintenance. Carson City Community Garden, Carson River Coalition, Carson River Watershed Education program, Galena Firescape Garden, Junior Master Gardeners, Living with Fire, Urban Horticulture Education, Youth Development Grants

Ed Smith

Western Area
1329 Waterloo Lane, Gardnerville, NV 89410
(775) 782-9960, smith@unce.unr.edu
Works with property owners, fire departments, and land management agencies on vegetation management practices to reduce Nevada's wildfire threat. His areas of interest are natural resources and resource management issues. Compost Your Combustibles, Fire Safe Highlands, Livestock Grazing for Vegetation Management, Living with Fire, Nevada Fire Safe Council, Wildfire Fuels Management/Post Fire Rehabilitation

Utah State University Faculty

Social Sciences

Mark W. Brunson

Natural Resource sociology and policy

Steven W. Burr

Recreation resources, tourism

Steven E. Daniels

Rural development, natural resources policy

Joanna L. Endter-Wada

Cultural anthropology, Natural Resource policy, Water management & planning

Douglas B. Jackson-Smith

Environmental and rural sociology

Richard S. Krannich

Natural resource sociology, policy

Ann Laudati

Resource conflicts, human environment interactions

Zhao Ma

Natural resources and environmental policy

Christopher Monz

Recreation ecology, outdoor recreation, and wilderness management

Peg Petrzelka

Environmental and rural sociology

Robert H. Schmidt

Wildlife Policy and Human Dimensions, Wildlife Damage Management

Steven R. Simms

Cultural archaeology

Joseph Tainter

Social conflict in environmental issues, human responses to climate change and environmental degradation

Plants, Forest, Rangeland and Insect/ Disease Ecology

Peter Adler

Plant community ecology and dynamics

Barbara J. Bentz

Disturbance ecology, forest insects

Christopher A. Call

Vegetation manipulation, restoration ecology

James H. Cane

Pollination ecology, especially of restoration forbs

Edward W. “Ted” Evans

Insect ecology, biological control, invasion ecology

Michael J. Jenkins

Disturbance ecology, fire ecology

Douglas A. Johnson

Plant ecophysiology, range grasses

Bradley R. Kropp

Pathogenic and symbiotic plant fungi

Michael R. Kuhns

Forestry extension, urban forestry

James N. Long

Forest ecology, silviculture

Ronald J. Ryel

Plant physiological ecology, ecohydrology

Eugene W. Schupp

Plant population ecology, restoration ecology, reproductive ecology of rare plant species

Terry L. Sharik

Forest regeneration, ecology

Kari E. Veblen

Rangeland ecology, grazing ecology

Wildlife Ecology and Management

Karen H. Beard

Animal community ecology, conservation biology

Brent D. Bibles

Wildlife ecology

John A. Bissonette

Landscape ecology, wildlife management

Michael R. Conover

Wildlife damage management, animal behavior

Patricia C. Cramer

Transportation ecology, wildlife connectivity, carnivore and ungulate movement

Richard C. Etchberger

Wildlife-habitat relationships

Shandra Nicole Frey

Human-Wildlife Conflicts

Eric M. Gese

Predator behavior and ecology

David N. Koons

Animal population ecology, wildlife ecology

Terry A. Messmer

Wildlife extension, wetlands

Robert H. Schmidt

Wildlife damage management, wildlife policy

Michael L. Wolfe

Wildlife ecology and management

Julie Young

Predator ecology and behavior
Aquatic Ecology, Fisheries Biology

Michelle A. Baker

Stream ecology and biogeochemistry

Nicholaas Bouwes

Fish habitat

Phaedra E. Budy

Aquatic food webs, fisheries management

Todd A. Crowl

River ecology, conservation biology

Ronald W. Goede

Diseases of fish

Charles P. Hawkins

Stream ecology, watershed restoration

Karin M. Kettenring

Wetland ecology: plants and restoration

Chris Luecke

Aquatic ecology, fisheries management

Brett B. Roper

Stream Ecology and Habitat Relationships

Wayne A. Wurstbaugh

Limnology, fish ecology
Forest and Range Management

Roger E. Banner

Range extension, grazing management

F.E. “Fee” Busby

Range management, natural resource policy

L. Wayne Coppock

Rangeland production systems

Charles W. Gay, Jr.

Range extension, international range management

James N. Long

Forest ecology, silviculture

Juan J. Villalba

Livestock foraging behavior

Hydrology/Watershed Management

Patrick Belmont
Watershed hydrology, sediment dynamics, geomorphology, morphodynamics

Jiming Jin
Hydro-meteorological modeling

Nancy O. Mesner
Watershed/water quality interactions

David Tarboton
Hydrology

Joseph M. Wheaton
Fluvial geomorphology and ecohydraulics

Other

Frederick A. Baker
Forest pathology, computer applications

Janis L. Boettinger
Soil classification and interpretation, soil mapping, plant-soil relationships

Thomas C. Edwards, Jr.
Spatial ecology, bioregional planning

Robert R. Gillies
Climatology, remote sensing

Karen Mock
Conservation genetics

R. Douglas Ramsey
Remote sensing, geographic information systems, landscape ecology, spatial analysis

H. Charles Romesburg
Natural resource philosophy, statistics

John C. Schmidt
Fluvial geomorphology, water policy

Richard E. Toth
Bioregional planning

Helga Van Miegroet
Forest soils, biogeochemistry

Boise State University Faculty

Anthropology

Hemingway Western Studies Center
1910 University Dr.
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Mark Plew
Professor
208-426-3444, 208-426-4329
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Archaeology of the Snake River Plain

Chris Hill
Assoc. Professor
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Changes in physical landscapes and Ice Age animals in the Great Plains and Rocky Mountains

Public Policy & Administration/SSPA

Public Affairs and Arts West Building
2100 University Drive
Boise, ID 83725-1935

Stephanie Witt
Professor
208-426-3667, 208-426-4370, switt@

boisestate.edu

State and local government, public personnel issues, urban politics, American government

Leslie Alm
Professor
208-426-4094, 208-426-4370, lalm@boisestate.edu
Environmental policy

Elizabeth Aldrich
Assistant Professor
208-426-2512, 208-426-4370,
elizabethaldrich@boisestate.edu
Energy policy and greenhouse gas markets

Political Science/SSPA

Public Affairs and Arts West Building
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Freemuth John
Professor
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Environmental policy and public administration

Susan Mason
Assoc. Professor
208-426-2658, 208-426-4370,
susanmason@boisestate.edu
Planning and urban politics

Brian Wampler
Assoc. Professor
208-426-2650, 208-426-4370, bwampler@boisestate.edu
Comparative politics

History/SSPA

Albertsons Library
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1910 University Dr.
Boise, ID 83725-1925

Todd Shallat
Professor
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History and politics

Lisa Brady
Assoc. Professor
208-426-4309, 208-426-4058, lisabrad@boisestate.edu
North American and global environmental history

Energy Policy Institute

1910 University Dr.
Boise, ID 83725-1014

David Solan
Assistant Professor
208-426-4845, 208-426-1830, davidsolan@boisestate.edu
Energy policy, energy and management issues
College of Social Science and Public Affairs

David Eberle
208-426-1567
Environmental economist; valuation of natural resources; utility rate structures; local government financing; development impact fees

Biology

Science-Nursing Building
1910 University Dr.
Boise, ID 83725-1515

Jesse Barber
Assistant Professor
208-426-3202, 208-426-1040, jessebarber@boisestate.edu
Biomechanical and behavioral aspects of predator/prey systems including echolocation of bats and their insect prey

Marc Bechard
Professor
208-426-3530, 208-426-4267, mbechard@boisestate.edu
Raptor biology and ecology: habitat requirements and use, breeding behavior, telemetry, migration

James Belthoff
Professor
208-426-4033, 208-426-1040, jbeltho@boisestate.edu
Population biology, behavior, and conservation of birds; ecology and physiology of dispersal and migration in owls; effects of habitat changes on shrubsteppe passerines

Marie-Anne de Graaff
Assistant Professor
208-426-1256, 208-426-1040, marie-annedegraaff@boisestate.edu
Plant/soil interactions in terrestrial ecosystems

Alfred Dufty
Associate Dean/Professor
208-426-3263, 208-426-2789, adufty@boisestate.edu
Behavioral field endocrinology; avian biology; brood parasitism; ecological and physiological responses of animals to environmental perturbation; stable isotope analysis of feathers

Kevin Feris
Assistant Professor
208-426-5498, 208-426-4267, kevinferis@boisestate.edu
Microbial community ecology; bioremediation studies; biogeochemistry

Jennifer Forbey
Assistant Professor
208-426-4426, 208-426-1040,
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"PharmEcology" – plant herbivore interactions and natural product drug discovery

Peter Koetsier
Assoc. Professor
208-426-3817, 208-426-4267, pkoet@boisestate.edu
Aquatic ecology; impacts of human-caused alterations on aquatic ecosystems, trophic structure of temporary streams and springs; movement and migration of fish

James Munger
Professor & Dept. Chair
208-426-3560, 208-426-4888, jmunger@boisestate.edu
Population ecology of rare species: Columbia spotted frogs, southern Idaho ground squirrels, Mohave black-collared

lizards. Effects of pathogens on host energetics and populations

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Applied economics, resource management decisions public-private land conservation; spatial and rural welfare aspects of (international and domestic) biodiversity conservation

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Sustainable small acreage livestock production systems

Anthropology

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Host plant resistance to insect pests;
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Biological Sciences

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Pronghorn and other hoofed mammals;
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Taiwan; geographic information systems; cartography, mapmaking

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Geographic information systems, spatial decision support systems; public participation in spatial decision making

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Polar meteorology and climatology, remote sensing of atmospheric properties over Antarctica (temperature, humidity, clouds), instrumentation for measuring atmospheric properties

Geology

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Pre-quaternary and paleoclimatology

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Channeled scabland; Lake Missoula

floods; Idaho earthquakes; Borah Peak earthquakes; geological hazards

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Continental tectonics; earthquakes and deformations in western North American and central Mediterranean area

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Changing global climate; global change/global warming; UI's arctic and glacier exploration program in Alaska; Juneau Icefield Research Program; the Mount Everest story-men under stress

Geosciences

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Hydrogeology; ground water; aqueous isotope geochemistry; geostatistics; aquifer modeling; ground water vulnerability

Grains

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Spatially variable crop management; conservation tillage

Groundwater Resources

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Computational groundwater modeling, flow in fractured rock, geothermal systems, interactions between geothermal systems, faults, and other geologic structures, other strongly-heat driven groundwater systems (e.g. nuclear waste disposal)

History

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U.S. West; environmental

Horticulture

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Nursery and greenhouse production, sustainable small acreage farming, plant problem diagnosis, Master Gardener Program

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Extension programming in community horticulture; urban landscapes and vegetable gardening; water conserving landscapes; utilization of native plants in home landscapes; turfgrass management

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Gardening, xeriscaping

Human Dimensions of Resources

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Economic and social impacts of natural resource and environmental management; natural resources policy analysis, natural resource recreation

Hydro-engineering

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Water resources, water management, evapotranspiration; remote sensing, irrigation water requirements; surface water-ground water interactions; irrigation hydrology; hydraulic simulation, water quality, water conservation

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Groundwater fluid mechanics and transport, colloid and bacteria transport in groundwater, redox-dominated soil-water systems, water and waste water treatment operations, and reclamation/remediation engineering

Insect Control

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Biological control of insects and mites in potatoes and small grains; integrated pest management in potatoes and small grains

Insects

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Identification, biology and management of insect pests of agricultural field crops, urban landscapes, homes and backyard gardens; beneficial insects; alternatives to pesticides

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Insect taxonomy; insect biology; biological control of insect pests

James D. Barbour
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Insect pests of hops; plant resistance to insects; plant/insect interactions; integrated pest management

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Insect pest management in potatoes and

grains; grasshopper and Mormon cricket management on rangeland

Marc J. Klowden
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How insects control their behavior; mosquito biology; insect hormones and their role in reproduction

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Biological weed control, insect-plant interactions

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Chemical ecology of insect and plant interactions; natural plant defenses; insect ecology; insect/plant evolution; insect behavior

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Interactions among insects, plant pathogens and plants; insecticide resistance monitoring in Colorado potato beetles and green peach aphids; factors affecting aphid transmission of plant viruses; evaluation of transgenic potatoes for disease resistance

Land Management

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Public land policy; wilderness, park and protected area policy and management; land trusts and conservation easements

Landscapes

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Riparian habitats, floodplain and riverine systems, and hydrological processes

Landscape Architecture

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Urban theory and planning, sustainable site design, landscape ecology

Gary Austin
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Landscape architecture - design; irrigation design, grading and drainage; 3-D computer models; construction detailing of exterior elements; design for Alzheimer's disease patients; landscape restoration

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Design theory; sustainable site design; drawing; arboreta and botanic garden design

Toru Otawa
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Sustainable landscape architecture;

applied geo-spatial information systems to regional landscapes, particularly regional planning; land information technology geomatics; land informatics

Law

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Water law, Native American water resources, intergovernmental water agreements, mediation of water disputes

Library

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Government information, geospatial and statistical data, federal depository library program, geographical information system (GIS)

Maria Anna Jankowska
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Internet resources; economics of information; effectiveness of information; globalization of information; environmental information sources

Livestock

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Livestock and range

Natural Resources

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Natural resources policy; Endangered Species Act; public land policy; forest economics; forest and range water quality policy; sustainable forest management

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Community and landscape ecology

Nematodes

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Outdoor Recreation

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Outdoor adventure recreation; risk management; expedition planning;

personal growth through outdoor experience; wilderness medicine and first aid; mountain search and rescue; avalanche safety; instructor of kayaking, rafting, Rocky Mountain climbing

Pesticides

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Pesticide use/handling and environmental impacts; pesticides and food safety; laws and regulations concerning pesticides; registration of “minor use” pesticides

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Pesticide residue field research

Philosophy

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Philosophy of law; comparative jurisprudence; logic and legal reasoning; Wittgenstein; pragmatism; environmental philosophy

Michael P. Nelson
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Environmental ethics; American Indian environmental thought; wilderness philosophy; hunting ethics; philosophy of conservation and ecology; the work of Aldo Leopold; Ancient Greek philosophy; religion and nature

Political Science

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Species conservation politics, water and public lands management policy, comparative public policy

Range Management

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Range livestock management; weed management; range ecology; poisonous plants; grazing after fire
Rangeland Ecology and Management

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Ecological implications of grazing and sustainable livestock production on rangelands

Beth Newingham
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Processes that affect restoration of natural ecosystems

Lee Vierling
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Remote sensing; spatial ecology; biogeochemistry; global change; interdisciplinary science education

Ronald Robberecht
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Physiological plant ecology (ecophysiology); guided independent learning (use of information technology in science education); scientific visualization and modeling (integration of ecological processes, molecule to globe)

Recreation & Tourism

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Urban and community forestry; environmental communications

Nick Sanyal
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Resource recreation and tourism; human/ social aspects of hunting and fishing; survey research methods, especially as applied to outdoor recreation and natural resource tourism

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Environmental communication and education; public education media and methods on environmental topics

William J. McLaughlin
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Public involvement and conflict resolution; social science research methods; Idaho tourism industry; using tourism as a way to diversify rural economies; eco-tourism marketing; river recreation management; nature conservation issues U.S. and abroad

Research Administration

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Research project administration, science and engineering grant proposal writing and review

Rivers and Hydrology

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Fluvial geomorphology and river mechanics; watershed processes and interactions between physical and biological systems in mountain basins; effects of wood debris on fluvial processes; mechanics of sediment motion and bedload transport; sediment sampling

Rural Communities

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Natural resource management; Native Americans; rangelands

Rural Development, Rural Sociology

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Rural and agricultural development; public finance; provision of public services

Soils

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Plant and soil testing for determining nitrogen fertilizer requirement; variety testing; cultural practices necessary for wheat and barley

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Precision Agriculture methodology, including remote sensing, in-field sensors and site-specific management

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Soil physics
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Volcanic ash and Pacific Northwest soils; soil formation; soil hydrology; National Cooperative Soil Survey Program

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Water quality; soil fertility; soil-plant relationships; fertilizer placement

Statistics

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Mathematical and applied statistics; statistical analysis of genetic data

Statistics and Mathematical Biology

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Mathematical biology, applications in population genetics, microbial ecology, spatial ecology

Sustainable Agriculture

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General information about sustainable agriculture; USDA-Sustainable Agriculture Research and Education program; professional development programs in sustainable agriculture

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Potato and small grain irrigation and nutrient management; nutrient cycling in crop rotations; water and fertilizer use efficiency; site-specific crop management

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Sustainable agriculture, small acreage management, environmental management, pollution prevention, environmental education, technology transfer, farmers market

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Cropping systems and rotations involving small grains, peas, lentils and rapeseed/ canola; pest control in small grains, peas, lentils and rapeseed/canola

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Sustainable agriculture, composting, humic acid and nitrogen mineralization, soil and soil fertility, water quality and the impact of irrigation management, applied research in soil fertility, irrigation and water quality in alfalfa, potatoes, sugar beets

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Economics of traditional and alternative crop management systems and technology, alternative water systems
Trout Industry

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Veterinary Science

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Diagnostic veterinary microbiology; diseases of wild and domestic ruminants, including bighorn sheep and bison; association of Pasteurellaceae organisms with disease; DNA fingerprinting of bacteria
Waste Management

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Water Management, Quality, & Res.

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Fate and transport of contaminants in fractured rock; ground water characterization and modeling
Howard Neibling
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Surface, sprinkler and drip irrigation system design and management; water use by crops; impacts of irrigation management on surface and sub-surface water quality; irrigation management with limited water; canal seepage losses; energy conservation

Weeds

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Biology of invasive plants, prediction of invasive species occurrence

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Biological control of leafy spurge

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Integrated weed management in sugar beets, barley and wheat; herbicide uses and properties; non-chemical weed management; weed biology; weed identification

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Herbicide-resistant weeds and crops; integrated weed management in small grain cereal production systems; managing weeds in wheat, barley, peas, lentils, canola and Kentucky bluegrass; control of wild oats; herbicide mode of action; weed biology

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Weed biology and control in potato cropping systems, herbicide/biopesticide environmental fate, herbicide resistance management, cover-crop systems for weed control in potato cropping systems
Wilderness Management

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Wilderness management; wild and scenic river management; park management in state and national parks and forests; tourism decision making; monitoring human impacts
Wildlife

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Statistical ecology; biometrics (biological stats); mathematical modeling; theoretical ecology

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Dynamics and management of bird and mammal populations; population estimation; modeling and simulation of population processes

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Animal ecology; ornithology; reserve identification selection & design; bird ecology and management; habitat relationships of birds; translocation strategies for birds and mammals; recovery of threatened and endangered species; Hawaiian forest birds

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Wildlife ecology and management; conservation of fragmented populations, behavioral ecology of mammals, ungulate biology

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Upland game bird ecology and management; avian habitat relationships; waterfowl; wetland ecology

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University of Nevada, Reno Facilities

- Gund Range Research Ranch – A gift to the University of Nevada in 1973 of a 10,600-acre commercial cattle ranch, the Gund Ranch is a perfect setting for research relevant to Nevada’s livestock producers. The ranch, located in Austin, Nevada, has grazing rights on adjoining lands managed by the Bureau of Land Management, providing an ideal laboratory for research into how commercial livestock production interacts with wildlife management on private-public rangelands.
- Main Station Field Lab – The Main Station Farm, a major research and teaching facility for the University of Nevada, Reno, is one of the last open green spaces in Reno. The property has more than 1,000 acres of prime farmland. Acquired and developed in 1956, the farm is home to herds of cattle and pigs as well as a flock of sheep from the Rafter 7 Ranch. The farm showcases cutting-edge science in the areas of animal genetics, stem-cell research, melanoma therapies and even water quality, as the farm is bordered by the Truckee River and Steamboat Creek.
- Newlands Research Center – Originally written into the 1902 Newlands Reclamation Law, the Newlands Research Center is part of Churchill County’s Irrigation District and is being planned to be used by the Great Basin Plant Materials Center, run by the USDA’s Natural Resources Conservation Service, with 25 of its acres dedicated to research by the Nevada Agricultural Experiment Station. The facility will be used to generate plant materials such as native seed, and land users will benefit from the crop as native seed can be used for land rehabilitation and restoration after fires.
- Rafter 7 Ranch – The Rafter 7 Ranch consists of 3,200 private and 150,000 public acres – which includes eight miles of the East Walker River. It is owned by the Reno-based E.L. Weigand Foundation. In addition to contributing the use of the land, the foundation has donated more than \$1 million to sheep breeding research over the last 14 years. This program has produced the finest flock of purebred Merino rams and ewes in North America.
- Valley Road Field Laboratory – With 27 acres designated for research and education, the Valley Road Field Laboratory houses the University Equestrian Center as well as four state-of-the-art research facilities, including the Nevada Genomics Center, five greenhouses, an Agricultural Research Services botanical tissue culturing facility, and a fully-equipped maintenance engineering shop.
- Whittell Forest and Wildlife Area – The Whittell Forest and Wildlife Area is a research and teaching facility of the Nevada System of Higher Education. The property (about 2700 acres) is located in the Carson Range on the east slope of the Sierra Nevada ≈ 30 km south of Reno, Nevada. It is 5 km west of Washoe Lake and 4 km northeast of Lake Tahoe. Research has focused on plant-animal interactions, studies of vegetation decomposition and nutrient cycling, pheromone production by pine

- bark beetles, weather and climate, geomorphology and archaeology.
- Nevada Biomedical Research Infrastructure Network – NBRIN is a multi-institutional network that interconnects a group of “open” technology, training, and faculty development cores. Its goal is to improve research productivity, grantsmanship, and institutional development by fostering the establishment of a pipeline of biomedical students and researchers for Nevada universities and private enterprises.
 - University Center for Economic Development (UCED) – The University Center for Economic Development (UCED) was established in response to the growing need within the state for economic development research, technical assistance and educational services. The UCED’s primary objective is fostering economic development throughout Nevada by making the extensive resources of the University available to organizations and areas that can benefit from job and income creation and job retention efforts.
 - Nevada Genomics Center – The Nevada Genomics Center (NGC) was established in 2000 with NSF EPSCoR funding, to provide genomics services for the state of Nevada and a national clientele.
 - Biological Resources Research Center (BRRC) – The Biological Resources Research Center (BRRC) was established in 1992 to conduct scientific research and planning efforts necessary to preserve the distinct biotic diversity of Nevada while simultaneously providing for economic viability and other needs of its citizens. The BRRC is part of the Department of Biology at the University and supports educational programs for students, professionals and the community.
 - Academy for the Environment – The Academy for the Environment is an interdisciplinary institute at the University of Nevada, Reno, whose mission is to develop, enhance and coordinate environmental teaching, research and service. The objectives of the Academy include the development of interdisciplinary undergraduate and graduate degree programs in environmental studies, and raising the environmental awareness on-campus, statewide, and regionally by promoting broad based environmentally-related research and education.
 - Nevada Intermountain Regional Research Facility – This analytical facility consist of 2 main laboratory components: 1) Terrestrial Ecology Laboratory; and 2) Aquatic Ecology Laboratory. The combined facility will significantly advance our ability to meet the needs of our constituencies through research on regionally and locally significant ecosystems, particularly on issues related to the conservation and restoration of soil and aquatic ecosystems.
 - Wetlands Ecology Laboratory – Knowledge is enhanced by integrating the study of soil ecology (including such aspects as soil physics, surface water, waste disposal and contaminant transport) with aquatic ecology (including the effects of environmental change on species,

biodiversity and community structure). This facility is used to perform meso-scale analysis and experiments via an artificial wetlands that links to the terrestrial system which can help replicate how water, soil, and wildlife interact.

- Nevada Stable Isotope Laboratory – This laboratory is located in the Department of Geological Sciences and Engineering and is used to perform stable isotope analyses (C, H, O, N and S). Our facilities currently house two Micromass Isoprime stable isotope ratio mass spectrometers and associated preparation devices (elemental analyzer, carbonate/water device, interfaced gas chromatograph). In addition, we have two operational isotope extraction lines in the lab (a BrF₅ line for silicate-oxygen, and a general purpose line for carbonates, waters, etc.) We have recently constructed a CO₂-laser extraction line for silicate-oxygen analyses, and we are currently testing the operation of this line. The lab can perform a variety of isotope analyses on a wide range of sample types. Customers are encouraged to contact Simon Poulson concerning their specific analytical requirements before submitting samples for analysis.
- GIS Teaching Facility – An instructional facility for GIS and spatial analysis in ecology for purposes of ecological modeling at the landscape scale are available in several colleges on campus. Graduating students with such skills are in high demand within the employment sector and this component provides an invaluable instructional tool.
- Watershed Hydrologic Modeling – Promotes interdisciplinary hydrologic modeling applications to assess ecosystem impacts, including the effects of watershed adaptive management strategies on water quality and food web energy transfer.
- USDA Agricultural Research Service and Forest Service Research Laboratories – Research scientists with ARS and the FS have long served as collaborative scientists and Adjunct faculty within the University's Department of Natural Resources and Environmental Science. Their active participation has expanded and enhanced our teaching and research programs.
- Proteomics Facility – The mass spectrometry facility was established in 1992 and is a core facility designed to assist researchers at the University of Nevada, Reno. Recent NIH and NSF funding have enabled us to set up a state of the art high throughput proteomics center. We currently have an ABI 4700 MALDI-TOF and a Finnigan LCQ Deca XP electrospray MS whose primary role is protein identification and protein structure elucidation. The facility also has a Genomic Solution Proprep digestion robot. In addition, the University's Protein Core Facility provides protein sequencing and peptide synthesis services, and performs separation of proteins for proteomic analysis by 2-D gel electrophoresis.
- Great Basin Center for Geothermal Energy – Geothermal exploration through the Great Basin Center has focused on predictive GIS modeling, remote sensing, shallow temperature surveys, and field examination of structure

and groundwater.

- Nevada Bureau of Mines and Geology – The Nevada Bureau of Mines and Geology (NBMG) is a research and public service unit of the University of Nevada and is the state geological survey. NBMG scientists conduct research and publish reports on mineral resources, engineering geology, environmental geology, hydrogeology, and geologic mapping.
- Nevada Seismological Laboratory – The Nevada Seismological Laboratory is a research division within the College of Science at the University of Nevada, Reno. The Laboratory has overall responsibility for instrumental studies of earthquakes in the Nevada region. The laboratory operates a statewide network of seismographic stations and investigates the sizes, frequencies of occurrence, and distribution of earthquakes in the region, and other problems related to seismic risk in Nevada.

Brigham Young University Facilities

- Monte L. Bean Life Sciences Museum – 11 full or part-time curators working with natural history collections valued at over \$35 million, including many Great Basin specimens. Access to hundreds of thousands of specimens is provided to scientists and students. Faculty on staff at the museum and in the College of Biology and Agriculture oversee publication of the BYU-funded Western North American Naturalist, formerly The Great Basin Naturalist, which continues to be an important outlet for scientific information in the region.
- Lytle Ranch Preserve – Over 600 acres managed by the museum and located in the Mojave–Great Basin desert transition zone of southwestern Utah, provides excellent ecological research and student learning opportunities
- Spanish Fork Farm – Research on ecology and seed production of Great Basin native plants.
- US Forest Service Shrub Sciences Laboratory- Located on the BYU campus with strong collaborative research among Forest Service and BYU scientists and involvement of many BYU undergraduate and graduate students.
- DNA Sequencing Center – Run by a full-time Ph.D. molecular biologist and a support staff of four part-time students, the Center processed 150,000 samples last year for 25 faculty members involved in all aspects of taxonomy, systematics, and ecology.
- University Microscopy Laboratory – Serves faculty, graduate, and undergraduate students from across campus with the latest equipment in scanning and transmission electron microscopy.
- Mass Spectrometry Facility – Has H, C and O isotope, as well as elemental analysis capabilities used by physical and biological scientists.
- Museum of People and Cultures – This museum houses prehistoric and ethnographic artifacts from all over the world, but with special emphasis on the eastern Great Basin.

- Museum of Art – This 100,000 square foot museum often houses displays of western United States art and culture.
- Earth Science Museum – This educational museum is housed on the BYU campus and provides information on geology, minerals, and prehistorical life in the region.
- Charles Redd Center for Western Studies and Lemuel H. Redd, Jr. Chair in Western History – The Center's programs actively fund and promote research and publication of western United States history.

University of Nevada, Las Vegas Facilities

Public Lands Institute

The Public Lands Institute's academic and administrative faculty and staff provide academic knowledge along with research expertise and real-world experience in the specialty areas of environmental education and interpretation, research and support services, geographic information systems/database management, volunteer and event management, and community outreach and marketing. The Public Lands Institute utilizes many innovative facilities to bring the importance of conservation and respect for public lands to the populace of southern Nevada and beyond.

Core Laboratories, Facilities and Resources:

- Management of a 70-foot houseboat and research barge named Forever Earth, to conduct research and education at the Lake Mead national Recreation Area
- Supercomputer Laboratory and Secure Database and Server
- Knowledge of Local Community Leaders & Government Contacts
- Knowledge and Access to the University Community
- Cultural Site Monitoring
- Recreation Management
- Event Planning and Management
- Undergraduate and Graduate Internships
- Program Integration with University Curriculum

School of Life Sciences

The School of Life Sciences has organized its human expertise into innovative research groups that conduct research unique to Nevada's environment. These research groups are: Arid Land Ecology and Evolutionary Biology, Bioinformatics, Biomathematics, Global Climate Change, Microbiology, Plant Stress Physiology, Systematics and Biogeography. Research is conducted throughout the Department's Research Facilities and the school has well-equipped laboratories to support faculty and graduate student research. These facilities are enhanced through access to a number of specialized scientific resources. Investigators from the Nevada System of Higher Education's Desert Research Institute also contribute to the graduate program.

Core Laboratories, Facilities and Resources:

- Nevada Desert FACE and Mojave Global Change Facility,
- Biological Imaging Confocal Microscopy Facility
- Stress Genomics Core Use Facility
- Nevada Genomics Center and DNA Sequencing Facility
- Nevada Center for Biological Imaging
- Ecophysiological Research Facility

- Animal Care Facility
- Regional Natural History Collections
- Electron Microanalysis & Imaging Laboratory
- Nevada Isotope Geochronology Laboratory
- Soils Analyses Laboratory
- Las Vegas Isotope Science Laboratory (LVIS)
- XRF/XRD Laboratory
- Physics Facilities
- UNLV Genomics Facility
- Ecophysiological Research Facility
- Elevated CO₂ Desert Environment Facility
- Wesley E. Niles Herbarium
- Marjorie Barrick Museum
- Departmental Green House
- Science and Engineering Building

Department of Geosciences

The Department of Geosciences has several laboratories and affiliated centers, most of which are located on campus in the Lilly Fong building. Lilly Fong also houses the Nevada Isotope Geochronology Laboratory, pedology laboratory, rock preparation laboratory, x-ray diffraction/x-ray fluorescence laboratory, departmental offices, faculty and staff offices and some graduate student offices. Adjacent to the Lilly Fong Building is the Technology building, which houses the department's Electron Microanalysis and Imaging Laboratory (EMIL – which houses a JEOL electron microprobe and scanning electron microscope), paleoclimate/stable isotope laboratory, sedimentology laboratory, departmental computer lab, graduate student offices and classrooms. The department's Hydrology Research Group has a wide variety of equipment that is available for hydrogeology field activities, including field water chemistry analysis, well monitoring, groundwater sampling, measurement of unsaturated zone properties, spring and streamflow measurements, and surface and borehole geophysics. The Department of Geoscience also has access to the labs and facilities in the Science and Engineering Building. In addition, the Department of Geoscience is a member of a research consortium along with Northern Arizona University, University of Nevada, Reno and the U.S. Geological Survey at Flagstaff. This arrangement allows UNLV students and faculty to use equipment at these institutions.

Other facilities available for graduate use:

- atomic absorption spectrophotometer
- mineral separation facilities
- fluid inclusion heating and freezing stage
- stereo-zoom transfer scope
- electronics laboratory
- XXL: XRD and XRF lab
- Geophysics laboratory (UNLV College of Engineering)

Department of Physics

The Department of Physics utilizes several facilities, laboratories and specialized shop environments to conduct research and experiments on the UNLV campus. The department also has access to the labs and facilities in the new Science and Engineering Building that supports its teaching and research interests.

Core Laboratories, Facilities and Resources:

- Atomic Hydrogen Beam Facility
- Optical Coating Thin Film Facility
- Tau Cluster
- Material Preparation and Synthesis Facility
- Pulsed Tunable Dye Laser Facility
- Student Electronic Shop
- Ion Beam Facility
- Ion Trap Facility
- H2 Cluster
- Physical Properties Measurement System
- Nonlinear Optical Spectroscopy Facility
- Professional Glass Shop
- Professional Electronic Shop
- Raman Scattering Facility for High Pressure Research
- Reflection Time of Flight Mass Spectrometry Facility
- Ruby Fluorimeter Facility for High Pressure Research
- Dynamic Laser Light Scattering Facility
- Professional Machine Shop
- High Resolution Laser Spectroscopy Facility
- Student Machine Shop
- 16-inch Photometric Telescope
- Diamond Anvil Cell/X-ray Diffraction Facility for High Pressure Research
- Cosmology Computing Cluster
- Greenhouse
- Las Vegas Isotope Science Laboratory
- Machine Shop
- Nanotechnology Clean Room
- National Supercomputer Center for Energy and the Environment
- Nevada Isotope Geochronology Core Laboratory
- Nuclear Magnetic Resonance (NMR) Laboratory
- X-Ray Diffraction Single Crystal Structure Laboratory
- XRF/XRD Earth Materials

Department of Civil and Environmental Engineering

The Department of Civil and Environmental Engineering conducts its research and activities in numerous facilities and laboratories such as the Thomas T. Beam Engineering Complex, a modern, state-of-the-art facility of some 101,000 square feet and the new Science and Engineering Building. In addition to Construction Management and Structural Engineering, the Department houses the Engineering Geophysics and Environmental Engineering Laboratories, the Water Resources Laboratory and the Transportation Research Center.

Science and Engineering Building (205,779 gross square feet, LEED certified building)

The new Science and Engineering Building (SEB) is a state-of-the-art facility that creates a world-class environment for interdisciplinary research and education. The building supports innovative research approaches that are conceived and developed through collaboration among faculty in the sciences, engineering, health sciences, and other units on campus. With its flexible laboratory space and integrated research areas, the building will offer faculty and students expanded opportunity to participate in highly sophisticated research using some of the most technologically advanced equipment available.

Core Laboratories, Facilities and Resources:

- Imaging and Electron Microanalysis Suite
- Environmental Soil Analysis Laboratory
- Genomics Core Facility
- GIS & Remote Sensing Core Laboratory
- Graphics & Visualization Laboratory

White Mountain Research Station Facilities

- General: 5 locations: Owens Valley Lab (OVL; 4000' elevation), Crooked Creek (10,200'), Barcroft Station (12,500'), Barcroft Observatory (13000') and White Mountain Summit (14,250')
- OVL Manis lab (2 rooms) General purpose lab space with microscopes
- OVL Animal care rooms (E and W) sized for small animal cages
- OVL Computer lab, GIS facility and Data clearinghouse node
- OVL Library, herbarium and map collection
- OVL Climate-controlled greenhouse (1800 s.f.)
- OVL/USGS lab and office – Angela Jayko
- OVL Molecular biology PCR and sequencing lab – John Wehausen
- OVL minus-70 degree freezer
- OVL/USGS rock sectioning saws (3)
- OVL/USGS vibracore coring device for soft sediment cores
- OVL/CNPS native plant propagation facility
- Crooked Creek lab rooms (3)
- Crooked Creek undeveloped lab space
- Barcroft Pace Lab – three general purpose lab rooms + dry lab room
- Barcroft small animal care facility – 3 rooms
- Barcroft large animal care facility – 3 rooms + outdoor pens
- Barcroft Astrophysics Lab I quonset hut
- Barcroft Astrophysics Lab II quonset hut
- Barcroft Observatory dome
- Summit Hut (powered by solar panels and/or gasoline generator)

Great Basin CESU

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