



CONSERVATION
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EDUCATION

1983 – Ph.D., Colorado State U., Fort Collins, USA. Botany and Plant Pathology.

1979 – DEA., Université de Paris XI, Centre d'Orsay, France. Plant Ecology.

1978 – MAITRISE, Université des Sciences et Techniques, Lille I, France. Plant Biology

1977 – LICENCE, Université des Sciences et Techniques, Lille I, France. Plant Biology.

1976 – DEUG B., Université des Sciences et Techniques, Lille I, France. Life Sciences.

PROFESSIONAL EXPERIENCE

- 2009-current **senior Climate Change scientist**, Conservation Biology Institute.
- 1998-current **Associate Professor**. senior research, Department of Biological and Ecological Engineering. Oregon State University, Corvallis, USA.
- 2007-2008 **Director** of Climate Change Science, the Nature Conservancy.
- 2006 **Visiting scientist**, Laboratoire des Sciences du Climat et de l'Environnement, Commissariat à l'énergie atomique, France
- 1989-1998 **Assistant Professor**. Department of Bioresource Engineering. Oregon State University, Corvallis, USA.
- 1995-1996 **Adjunct Professor**. Department of Natural Resources. University of New Hampshire, Durham, USA.
- 1994-1995 **Visiting scientist**. Centre National de la Recherche Scientifique at Centre d'Etude Spatiale des Rayonnements, Toulouse, France.
- 1988-1994 **Quantitative Ecologist**. ManTech Environmental Technology Inc., US-EPA Environmental Research Laboratory, Corvallis, USA.
- 1988 **Research Specialist**. Agronomy Department. New Mexico State University, Las Cruces, USA.
- 1986-1987 **Research Specialist**. Biology Department. New Mexico State University, Las Cruces, USA.
- 1984-1986 **Postdoctorate Research**. Assistant in Soil and Environmental Sciences Department. University of California, Riverside, USA.
- 1982 **Teaching assistant**. Agronomy Department, Simulation modeling (AG 653). Colorado State University, Fort Collins, USA.
- 1981-1983 **Research Assistant**. Natural Resource Ecology Laboratory. Colorado State University, Fort Collins, USA.



- 1980 **Teaching Assistant.** Department of Botany and Plant Pathology. (BY 102, 103). Colorado State University, Fort Collins, USA.
- 1980 **Laboratory Technician.** Plant Pathology Department. West Virginia University, Morgantown, USA.

RESEARCH FUNDING

- 2014-2016 Development of Modeling Tools for Future USGS Biologic Carbon Sequestration Assessment – a Collaborative Proposal. **USGS:** \$340,816. PIs: Z. **Zhu (USGS)**, D. Bachelet.
- 2015 Sagebrush Managers and Climate Change Tools. **GB-LCC:** \$30K. PI: D. Bachelet.
- 2014-2019 Packaging Usable Climate Change Information for Sagebrush Country. **BLM:** \$25K. PI: D. Bachelet.
- 2013-2015 Simulating Vegetation Dynamics on local and global scales: the MC1 Dynamic Global Vegetation model. **USFS PNW:** \$74,995. PI: D. Bachelet.
- 2013-2014 Climate Change Vulnerability Assessments and Adaptation Strategies for NW Oregon Forests. **Siuslaw National Forest:** \$35,000. PI: D. Bachelet.
- 2012-2014 Estimating carbon pools and fluxes using a DGVM with prescribed landuse: MC1 contribution to the LandCarbon project. **USGS:** \$324,187. PIs: Z. **Zhu (USGS)**, D. Bachelet.
- 2012-2014 Integrated scenarios of climate, hydrology, and vegetation for the Northwest. **NP-CSC:** \$84,983. PI: P. Mote & D. Turner (**OSU**), D. Lettenmaier (UW). KP: D. Bachelet.
- 2012-2013 Projecting Future Effects of Land Management, Natural Disturbance, and CO₂ on Woody Encroachment in the Northern Great Plains in a Changing Climate. **NC-CSC:** \$185,996. PI: A. **Symstad (USGS)**, D. Bachelet.
- 2012-2013 Estimating carbon pools and fluxes using a DGVM with prescribed landuse: MC1 contribution to the LandCarbon project. **USGS:** \$304,187. PI: Z. **Zhu (USGS)**, D. Bachelet.
- 2012 Climate Stress Index using downscaled RPA climate change data and 4th Assessment vegetation projections. **RPA:** \$10,468. PI: L. **Joyce (USFS)**, C. Flather, D. Bachelet.
- 2012 Comparing alternative approaches for predicting future habitat conditions and distribution patterns for two forest carnivores of conservation concern in the Sierra Nevada of California. **Yale Framework:** \$100,000. PI: W. Spencer and D. Bachelet.
- 2012-2013 Soil Vulnerability to future climate in the Southern Rockies Landscape Conservation Cooperative, with implications for vegetation change and water cycle. **SR-LCC** \$200K PI: W. Peterman, D. Bachelet.
- 2011-2013 Creating a Soil Vulnerability Index to identify drought sensitive areas. **NP-LCC** \$99K PI: D. Bachelet, W. Peterman.
- 2011-2012 Quantitative Forecasting of Above and Below Ground Climate Change Impacts at Wind Cave National Park. PNW Cooperative Ecosystem



- Studies Unit Task Agreement **National Park Service** (Task agreement: J8W07100052, Coop agreement: H8W0706001): \$163,683. PI: D. Bachelet, coI: A. **Symstad** (USGS).
- 2011 Assessing the skill of hydrology models at simulating the water cycle in the HJA: assumptions, strengths and weaknesses. **HJ Andrews NSF-LTER**: \$10,000. PI: D. Bachelet.
- 2010-2012 ARRA: Prioritize fuel treatments by estimating restoration potential and understanding their effects. **USFS Joint Venture Agreement** PNW 10-JV-11260489-085 for \$249,602. PI: D. Bachelet, coI: M. **Hemstrom** (USFS-PNW).
- 2011-2012 MAPSS Legacy in Data Basin. PI: D. Bachelet, CBI; coI Bea van Horne, USFS-PNW. **USFS Joint Venture Agreement** PNW 11-JV-1 1261952-028: \$98,198. PI: D. Bachelet, coI: Bea van Horne (USFS-PNW)
- 2010-2011 Subagreement DA510-B from **B. Law and R.P. Neilson's USFS Joint Venture Agreement** PNW 07-JV-11261957-476 for \$20,000. PI: D. Bachelet.
- 2009-2011 Method development and application for linking VDDT and MC1: Climatizing state-and-transition models. **USFS Joint Venture Agreement** PNW 09-JV-11261900-003 for \$96,539. PI: D. Bachelet, coI: B. **Kerns** (USFS-PNW).
- 2009-2011 Consequences of Novel Disturbance Regimes on Climate-Induced Biogeographic Shifts along the Appalachian Trail. **NICCR** for \$17,304. PI: D. Bachelet. Lead PI: Erica **Smithwick** (U.Pa).
- 2007-2010 Implementation of a Climate-Vegetation Based Early Warning & Prediction System for Interagency Fuels Management. **NOAA** for \$47,512. PI: D. Bachelet Lead PI: Tim **Brown** (DRI), coI: R.P. **Neilson** (USFS-PNW).
- 2007-2008 Projected Vegetation Changes Over the Next Century in Yosemite National Park Under Three Climate Change Scenarios. **USDI National Park Service** for \$43,588. PI: D. Bachelet. coI: Bill **Kuhn** (NPS) and Jeanne **Panek** (CA ARB).
- 2006-2007 Climate Change Vegetation Shifts Across Global Ecoregions. **The Nature Conservancy** for \$44,000. PI: D. Bachelet coI: R.P. **Neilson** (USFS-PNW) and P. **Gonzalez** (TNC).
- 2006 Potential Impacts of Climate Change on California Forestry and Natural Landscapes Study. **University of California** for \$15,087. PI: D. Bachelet. coI: R.P. **Neilson** and J.M. **Lenihan** (USFS-PNW).
- 2004-2009 Phase 3 of Dynamic Vegetation Models Development: Including Wetlands. Oregon State University, Corvallis, USA. **USFS Joint Venture Agreement** PNW 04-JV-11261957-329 for \$235,535. PI: D. Bachelet. coI: R.P. **Neilson** (USFS-PNW)
- 2004 VINCERA. Simulating the effect of wildfires on the North American carbon budget with an emphasis on boreal forests. Grant from the **University of Waterloo, Canada** for \$11,500 PI: D. Bachelet coI: R.P. **Neilson** (USFS-PNW) and D. **Price** (Canada).



- 2000-2005 Second phase of Dynamic Vegetation Models development: including human impacts. Oregon State University, Corvallis, USA.
USFS Joint Venture Agreement 00-JV-11261957-191 PNW for \$493,312. PI: D. Bachelet. coI: R.P. Neilson (USFS-PNW)
- 1995-2000 Development of linked biogeography (MAPSS) and biogeochemistry model (CENTURY) to look at the impacts of global climate change on vegetation distribution and carbon cycling in the USA and in the world. Oregon State University, Corvallis, USA.
USFS Cooperative Grant Agreement 95-0730 PNW for \$371,362. PI: D. Bachelet. coI: R.P. Neilson (USFS-PNW)
- 1994-1995 Development of a modeling tool to simulate live oak distribution and carbon fluxes in the Mediterranean Basin, CESBIO, Toulouse, France.
CNRS one-year grant (CDD). PI: D. Bachelet
- 1988-1994 Assessment of the impacts of enhanced UV-B radiation (due to stratospheric ozone depletion), increased temperature and CO₂ atmospheric concentration on the rice ecosystem in Asia.
ManTech Environmental Technology Inc. Contract 68-C8-0006 with US-EPA Environmental Research Laboratory, Corvallis, Oregon, USA.
- 1986-1988 Research and Development of a Generic Desert Ecosystem Model; Department of Biology; New Mexico State University, Las Cruces, USA.
NSF Grant BSR-85-07380 with PI: J.F. Reynolds.
- 1984-1986 Research on Nitrogen Fixation, Water Use, and Plant Productivity in Warm Desert Ecosystems; Department of Soil and Environmental Sciences, University of California, Riverside, USA.
NSF Grant DEB-82-16814 with PI: W.M. Jarrell.
- 1981-1983 Research on Plant-Animal Interactions in the North American Shortgrass Prairie; Natural Resource Ecology Laboratory, Colorado State University, Fort Collins, USA. **NSF Grant DEB-80-22380** with PI: J.K. Detling.
- 1980 Research on White Pine disease in the Appalachian Region; Department of Plant Pathology, West Virginia University, Morgantown, USA.
- 1979 Research on Migratory Grasshoppers from West Africa; Water budget of three types of locusts raised in the laboratory; Departments of Entomology and Plant Ecology, Paris XI, Centre d'Orsay, France. Centre CNRS (Phytotron), Gif sur Yvette, France.

PUBLICATIONS

- Bachelet, D., T. Sheehan, K. Ferschweiler, and J. Abatzoglou. **2015**. Simulating vegetation change, carbon cycling and fire over the western US using CMIP5 climate projections. In: K. Riley (ed.) Natural Hazard Uncertainty Assessment. **AGU Geophysical Monographs #XXX**.
- Bachelet, D., K. Ferschweiler, T. Sheehan, B. Sleeter, Z. Zhu. **2015**. Projected carbon stocks in the conterminous US with land use and variable fire regimes. **Global Change Biology** On line 24 July 2015 - DOI: 10.1111/gcb.13048.
- Bachelet, D., B.R. Johnson, S.D. Bridgham, P.V. Dunn, H.E. Anderson, and B.M. Rogers. **2011**. Climate Change Impacts on Western Pacific Northwest Prairies and



- Savannas. **Northwest Science** 85(2):411-429.
- Bachelet, D., T. Comendant, and J. Strittholt. **2011**. Web platform for sharing spatial data and manipulating them online. **EOS**, Transactions American Geophysical Union 92(14):118-119.
- Bachelet D., J. Lenihan, R. Drapek, and R. Neilson. **2008**. VEMAP vs VINCERA: A DGVM sensitivity to differences in climate scenarios. **Global and Planetary Change** 64(1-2):38-48.
- Bachelet D. and D. Price. **2008**. DGVM responses to the latest IPCC future climate scenarios. **Global and Planetary Change**. 64(1-2):1-2.
- Bachelet D., J. DeBlieu, and B. Baker. **2007**. Climate Change and Conservation. **EOS**, Transactions American Geophysical Union, 88(45): 471.
- Bachelet D., J.M. Lenihan, R. P. Neilson, R.J. Drapek, and T. Kittel. **2005**. Simulating the response of natural ecosystems and their fire regimes to climatic variability in Alaska. **Canadian Journal of Forest Research** 35:2224-2257.
- Bachelet D., R. P. Neilson, J.M. Lenihan, and R.J. Drapek. **2004**. Regional differences in the carbon source-sink potential of natural vegetation in the U.S. **Environmental Management** 33 (Supp.#1): S23-S43 DOI: 10.1007/s00267-003-9115-4.
- Bachelet D., R.P. Neilson, T. Hickler, R.J. Drapek, J. M. Lenihan, M.T. Sykes, B. Smith, S. Sitch, and K. Thonicke. **2003**. Simulating past and future dynamics of natural ecosystems in the United States. **Global Biogeochemical Cycles** 17(2): 1045 DOI:10.1029/2001GB001508.
- Bachelet D., R.P. Neilson, J. M. Lenihan, and R.J. Drapek. **2001**. Climate change effects on vegetation distribution and carbon budget in the U.S. **Ecosystems** 4:164-185.
- Bachelet D., J.M. Lenihan, C. Daly, R.P. Neilson, D.S. Ojima, and W.J. Parton. **2001**. MC, a Dynamic Vegetation Model for estimating the distribution of vegetation and associated carbon and nutrient fluxes, Technical Documentation Version 1.0. USDA Forest Service Pacific Northwest Station, General Technical Report PNW-GTR-508. 95pp.
- Bachelet D. and R.P. Neilson. **2000**. Chapter 2. Biome redistribution under climate change. pp18-44. In: L.A. Joyce and R. Birdsey (co-editors). USDA Forest Service Global Climate Change Program Highlights: The impacts of climate change on America's forests. USDA Forest Service General Technical Report RMRS-GTR-59.
- Bachelet D., J.M. Lenihan, C. Daly, and R.P. Neilson. **2000**. Simulated fire, grazing and climate change impacts at Wind Cave National Park, SD. **Ecological Modelling** 134(2-3):229-244.
- Bachelet D., M. Brugnach, and R.P. Neilson. **1998**. Sensitivity of a biogeography model to soil properties. **Ecological Modelling** 109:77-98.
- Bachelet D., J. Kern, and M. Tölg. **1995**. Balancing the rice carbon budget in China using spatially distributed data. **Ecological Modelling** 79:167-177.
- Bachelet D. **1995**. Rice paddy inventory in a few provinces of China using AVHRR data. **Geocarto International** 10:23-38.
- Bachelet D., A. Herstrom, and D. Brown. **1993**. Design and development of a GIS database to complement simulation models. **Landscape Ecology** 8(2):77-91.
- Bachelet D. and H.U. Neue. **1993**. Methane emissions from wetland rice areas of Asia.



- Chemosphere** 26(1-4):219-237.
- Bachelet D. and C. Gay. **1993**. The impacts of climate change on rice yield: a comparison of four model performances. **Ecological Modelling** 65:71-93.
- Bachelet D., J. Kern, and M. Tölg. **1993**. Modeling the rice carbon budget in China using GIS technology. pp 31-53, In: Huang Xuan, Liu Huigo, Zhou Chenghu, Chen Yufeng, Zhang Qiaofeng (Editors), **Proceedings** of the Third International Workshop on Geographic Information System, Beijing, China, August 19-22, 1993, Volume 3. State Key Laboratory of Resources and Environment Information System, Chinese Academy of Sciences.
- Bachelet D., D. Brown, M. Bohm, and P. Russell. **1992**. Climate change in Thailand and its potential impact on rice yield. **Climatic Change** 21:347-366.
- Bachelet D. and J. Mailander. **1992**. Rice field inventory using AVHRR data. pp A-1-1-1:A-1-1-10, In: S. Murai (Editor), **Proceedings** of the 13th Asian Conference on Remote Sensing, Ulaanbaatar, Mongolia, October 7-11, 1992.
- Bachelet D., P. Barnes, D. Brown, and M. Brown. **1991**. Latitudinal and seasonal variation in calculated ultraviolet-B irradiance in the rice-growing regions of Asia. **Photochemistry and Photobiology** 54(3):411.
- Bachelet D., H.W. Hunt, and J.K. Detling. **1989**. A simulation model of intraseasonal carbon and nitrogen dynamics of blue grama swards as influenced by above- and belowground grazing. **Ecological Modelling** 44:231-252.
- Bachelet D., H.W. Hunt, and J.K. Detling. **1989**. Simulated carbon and nitrogen dynamics in blue grama swards subject to above- and belowground grazing, irrigation and fertilization. 2. The grazing optimization notion. **Ecological Modelling** 48:83-99.
- Bachelet D., W.M. Jarrell, and R.A. Virginia. **1986**. Simulation modeling of nutrient cycling in a desert woody legume. **Tree Physiology** 2:205-214.
- Bachelet D. **1983**. Simulation of carbon and nitrogen distribution in blue grama to represent various kinds of herbivory. **Ph. D. dissertation**, Colorado State University, Fort Collins, USA.

Co-authored:

- Sheehan, T., D. **Bachelet**, K. Ferschweiler. **2015**. Projected major fire and vegetation changes in the Pacific Northwest of the conterminous United States under selected CMIP5 climate futures. **Ecological Modelling** 317:16-29.
- Conklin, D.R., J.M. Lenihan, D. **Bachelet**, R.P. Neilson, J.B. Kim. **2015**. MCFire Model Technical Description. Gen. Tech. Rep. PNW-**GTR**-904. Portland, OR. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. XX p.
- Hemstrom, M.A., J.E. Halofsky, D.R. Conklin, J.S. Halofsky, D. **Bachelet**, and B.K. Kerns. **2014**. Chapter 7: Developing Climate-Informed State-and-Transition Models. pp175-202. In: J.E. Halofsky, M.K. Creutzburg, M.A. Hemstrom (editors). Integrating social, economic, and ecological values across large landscapes. Gen. Tech. Rep. PNW-**GTR**-896. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 206 p.
- King, D. A., D.M. **Bachelet**, A.J. Symstad, K. Ferschweiler, and M. Hobbins. **2014**.



- Estimation of Potential Evapotranspiration from Extraterrestrial Radiation, Air Temperature and Humidity to Assess Future Climate Change Effects on the Vegetation of the Northern Great Plains, USA. **Ecological Modelling** 297(2015):86-97.
- Peterman, W., D. **Bachelet**, K. Ferschweiler, and T. Sheehan. **2014**. Soil depth affects simulated carbon and water in the MC2 dynamic global vegetation model. **Ecological Modelling** 294:84-93.
- Symstad A.J., A.J. Long, J.F. Stamm, D.A. King, D.M. **Bachelet**, and P. A. Norton. **2014**. Two approaches for incorporating climate change into natural resource management planning at Wind Cave National Park. Natural Resource Technical Report. NPS/WICA/NRTR-2014/918. National Park Service. Fort Collins, Colorado. Published Report-2216689.
- Yospin G.I., S.D. Bridgman, R.P. Neilson, J.P. Bolte, D. **Bachelet**, P.J. Gould, C.A. Harrington, J.A. Kertis, C. Evers, and B.R. Johnson. **2015**. A new model to simulate climate change impacts on forest succession for local land management. **Ecological Applications** 25:226–242.
- King, D. A., D.M. **Bachelet** and A.J. Symstad. **2013**. Climate change and fire effects on a prairie–woodland ecotone: projecting species range shifts with a dynamic global vegetation model. **Ecology and Evolution** 3(15):5076-5097.
- King, D.A., **Bachelet**, D., and A.J. Symstad. **2013**. Vegetation projections for Wind Cave National Park with three future climate scenarios: final report in completion of task agreement J8W07100052: National Park Service National Park Service Natural Resource Technical Report NPS/WICA/NRTR-2013/681, 58 pp. http://www.cfr.washington.edu/research.cesu/reports/J8W07100052_Final_Report.pdf
- Halofsky, J.E., M.A. Hemstrom, D.R. Conklin, J.S. Halofsky, B.K. Kerns, and D. **Bachelet**. **2013**. Assessing potential climate change effects on vegetation using a linked model approach. **Ecological Modelling** 266: 131-143.
- Cross, M.S, E.S. Zavaleta, D. **Bachelet**, M.L. Brooks, C.A.F. Enquist, E. Fleishman, L. Graumlich, C.R. Groves, L. Hannah, L. Hansen, G. Hayward, M. Koopman, J.J. Lawler, J. Malcolm, J. Nordgren, B. Petersen, D. Scott, S.L. Shafer, M.R. Shaw, and G.M. Tabor. **2012**. The Adaptation for Conservation Targets (ACT) framework: A tool for incorporating climate change into natural resource management. Environmental Management. (DOI) 10.1007/s00267-012-9893-7.
- Shaw, M.R., L. Pendleton, D.R. Cameron, B. Morris, D. **Bachelet**, K. Klausmeyer, J. MacKenzie, D.R. Conklin, G.N. Bratman, J. Lenihan, E. Haunreiter, C. Daly, P.R. Roehrdanz. **2011**. The impact of climate change on California’s ecosystem services. Climatic Change DOI 10.1007/s10584-011-0313-4.
- Rogers, B. M., R. P. Neilson, R. Drapek, J. M. Lenihan, J. R. Wells, D. **Bachelet**, and B. E. Law. **2011**. Impacts of climate change on fire regimes and carbon stocks of the U.S. Pacific Northwest. *J. Geophys. Res.* 116, G03037, doi:10.1029/2011JG001695.
- Wiens, J. and D. **Bachelet**. **2010**. Matching the Multiple Scales of Conservation with the Multiple Scales of Climate Change. *Conservation Biology* 24(1):51-62.
- Allen, C.D., A.K. Macalady, H. Chenchouni, D. **Bachelet**, Nate McDowell, M. Vennetier, T. Kitzberger, A. Rigling, D.D. Breshears, E.H. Hogg, P. Gonzalez, R.



- Fensham, Z. Zhang, J. Castro, N. Demidova, J-H Lim, G. Allard, S.W. Running, A. Semerci, N. Cobb. **2010**. A Global Overview of Drought and Heat-Induced Tree Mortality Reveals Emerging Climate Change Risks for Forests. *Forest Ecology and Management* 259:660–684. doi:10.1016/j.foreco.2009.09.001.
- Ash N., N. Jürgens, P. Leadley, R. Alkemade, M.B. Araújo, G.P. Asner, D. **Bachelet**, M. J. Costello, M. Finlayson, S. Lavorel, G. Mace, H.A. Mooney, T. Parr, R. Scholes, J. Soberon, W. Turner, A-H. Prieur-Richard, A. Larigauderie, and B.A. Walther. **2009**. bioDISCOVERY: Assessing, monitoring and predicting biodiversity. bioDISCOVERY Science Plan. DIVERSITAS, Paris.
- Shaw, R.M., L. Pendleton, D. Cameron, B. Morris, G. Bratman, D. **Bachelet**, K. Klausmeyer, J. MacKenzie, D. Conklin, J. Lenihan, E. Haunreiter and C. Daly. **2009**. The Impact of Climate Change on California's Ecosystem Services. PIER Research Report, CEC-500-2009-025-D, Sacramento, CA, California Energy Commission.
- Lenihan, J.M., D. **Bachelet**, R.P. Neilson, R.J. Drapek. **2008**. Simulated response of conterminous United States ecosystems to climate change at different levels of fire suppression, CO₂ emission rate, and growth response to CO₂. **Global and Planetary Change** 64 (1-2):16-25.
- Lenihan, J.M., D. **Bachelet**, R.J. Drapek, and R.P. Neilson. **2008**. The response of vegetation distribution, ecosystem productivity, and fire in California to future climate scenarios simulated by the MC1 dynamic vegetation model. **Climatic Change** 87(Supp 1): S215-S230.
- Del Grosso, S., W. Parton, T. Stohlgren, D. Zheng, D. **Bachelet**, S. Prince, K. Hibbard, and R. Olson. **2008**. Global potential production predicted from vegetation class, precipitation, and temperature. **Ecology** 89(8):2117-2126.
- Sun J, B. Baker, D. **Bachelet**, C. Daly, Ma Jian, and J. Liu. **2006**. Impact of climate change in the Hengduan Mountains of northwestern Yunnan, P.R. China: vegetation distribution change in the foretime and future. **Earth Observing Systems XI**, SPIE, San Diego, CA, USA, pp. 62960-62968.
- Kittel, T.G.F. , N.A. Rosenbloom, J.A. Royle, C. Daly, W.P. Gibson, H.H. Fisher, P. Thornton, D.N. Yates, S. Aulenbach, C. Kaufman, R. McKeown, D. **Bachelet**, D.S. Schimel, and VEMAP2 Participants. **2004**. VEMAP phase 2 bioclimatic database. I. Gridded historical (20th century) climate for modeling ecosystem dynamics across the conterminous United States. **Climate Research** 27:151-170.
- Lenihan, J.M., R.J. Drapek, D. **Bachelet**, and R.P. Neilson. **2003**. Climate change effects on vegetation distribution, carbon and fire in California. **Ecological Applications** 13(6): 1667-1681.
- Aber, J., R.P. Neilson, S. McNulty, J.M. Lenihan, D. **Bachelet**, and R.J. Drapek. **2001**. Forest Processes and Global Environmental Change: predicting the effects of individual and multiple stressors. **Bioscience** 51(9):735-752.
- Daly, C., D. **Bachelet**, J.M. Lenihan, and R.P. Neilson. **2000**. Dynamic simulation of tree-grass interactions for global change studies. **Ecological Applications** 10(2): 449-469.
- Lenihan J.M., C. Daly, D. **Bachelet**, and R.P. Neilson. **1998**. Simulating broad-scale fire severity in a dynamic global vegetation model. **Northwest Science** 72(2):91-103.
- Lenihan J.M., D. **Bachelet**, C. Daly, and R.P. Neilson. **1998**. Fire disturbance in the MC1



- Dynamic Vegetation Model. **Proceedings** Symposium on Fire in California Ecosystems: Integrating Ecology, Prevention, and Management. 17-20 Nov 1997, San Diego, CA.
- Matthews R.B., M.J. Kropff, T. Horie, and D. **Bachelet**. **1997**. Simulating the impact of climate change on rice production in Asia and evaluating options for adaptation. **Agricultural Systems** 54:399-425.
- Wondzell S.M., G.L. Cunningham, and D. Bachelet. **1996**. Relationship between landforms, geomorphic processes, and vegetative communities on a watershed in the northern Chihuahuan desert. **Landscape Ecology** 11(6):351-362.
- Hoff C., D. **Bachelet**, S. Rambal, R. Joffre, and B. Lacaze. **1995**. Simulating leaf area index of Mediterranean evergreen oak ecosystems: Comparison with remotely-sensed estimation. **Proceedings** IUFRO Meetings, Montpellier, August 1995.
- Matthews R.B., M.J. Kropff, and D. Bachelet. **1994**. Climate change and rice production in Asia. **Entwicklung und Landlicher raum** 1/94:16-19.
- Kern J.S., D. **Bachelet**, and M. Tölg. **1994**. Organic matter inputs, climate and methane emissions from rice soils in China. pp189-198 In: R. Lal, J. Kimble, E. Levine and B.A. Stewart (editors), Soils and Global Change, **Advances in Soil Science**.
- Holman S. and D. **Bachelet**. **1993**. Influence of CO₂ and temperature on wetland rice root dynamics. **J. Agr. Met.** 48(5):783-786.
- Olszyk D.M., D. **Bachelet**, M. Johnson, B. McVeety, P. Rygielwicz, and D. Tingey. **1993**. Impact of global change on terrestrial ecosystems: Frameworks for evaluating agroecosystem and forest ecosystem effects. **Proceedings** of the workshop on Risk Assessment and Risk Management, Tsukuba, Japan, October 1993.
- Olszyk D.M., D. **Bachelet**, S. Holman, K. Fisher, K.L. Heong, K. Ingram, H.U. Neue, M. Kropff, P. Teng, and B. Vergara. **1992**. Effects of UV-B and global climate change on rice. First Annual Program Progress **Report**. ERL-COR-756. 93pp.
- Olszyk D.M., S. Holman, P. Barnes, D. **Bachelet**, and D. Brown. **1991**. Technical **Report** for Assessing the Risks of Trace Gases That Can Modify Stratospheric Ozone Concentrations. ERL-COR-615X.
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- Bachelet D. and J. Kern. Using soils to identify rice location, estimate methane emissions from rice fields and predict future carbon balance of rice paddies in China. **NATO Advanced Research Workshop "Soil responses to climate change: the implications for natural and managed ecosystems"**, Silsoe, England, 20-24 September **1993**.
- Bachelet D., J.S. Kern, and M. Tölg. Modeling the rice carbon budget in China using GIS technology (presented by Jeff Kern). **Third International Workshop on Geographic Information system**, 19-22 August **1993**.
- Bachelet D. Climate change impacts on net primary production in China. **International Symposium on Climate Change, Natural Disasters and Agricultural Strategies**, Beijing Agricultural University, PR China, 26-29 May **1993**.
- Bachelet D. Rice field inventory in China using AVHRR data. **International Symposium Disturbed Climate Vegetation and Foods**, Tsukuba, Japan, 13-17 October **1992**.
- Bachelet D. and J. Mailander. Rice field inventory using AVHRR data. **The 13th Asian Conference on Remote Sensing**, Ulaanbaatar, Mongolia, 7-11 October **1992**.
- Bachelet D., J. Van Sickle, and C. Gay. The impact of climate change on rice yield: comparing model performances. **International Symposium on Systems**



- Approaches for Agricultural Development, Bangkok, Thailand, 2-6 December **1991**.
- Bachelet D. and H.U. Neue. Methane emissions from wetland rice areas of Asia. **NATO Advanced Research Workshop**, Timberline, Oregon, 6-11 October **1991**.
- Bachelet D. and H.U. Neue. Methane emissions from wetland rice areas of Asia. **World Congress of Landscape Ecology**, Ottawa, Canada, 21-25 July **1991**.
- Bachelet D. and D. Brown. Using GIS technology to estimate global climate change in Asia. Simulation of the Impacts of Global Climate on Rice Production **Workshop**, China Rice Research Institute, Hangzhou, PR China, 19-20 November **1990**.
- Bachelet D. and D. Brown. Comparing crop models and ecosystem model simulations of rice yield in Thailand under an average climate change scenario. 75th Annual Meeting of the **Ecological Society of America**, Snowbird, Utah, 29 July- 2 August **1990**.
- Bachelet D. and A. Herstrom. A GIS-based simulation approach to predict system responses to climatic changes. **European Conference on Landscape Ecological Impact of Climatic Change**, Lunteren, Netherlands, 3-7 December **1989**.
- Bachelet D. A landscape level approach to simulate the rice agroecosystem. 74th Annual Meeting of the **Ecological Society of America**, Toronto, Canada, 6-10 August **1989**.
- Bachelet D. and S.M. Wondzell. Factors affecting the dynamics of shrub and grassland communities in the Northern Chihuahuan desert. 73rd Annual Meeting of the **Ecological Society of America**, Davis, California, 14-19 August **1988**.
- Bachelet D., S.M. Wondzell, and J.F. Reynolds. Simulation model predicting germination and flowering of C₃ and C₄ Chihuahuan desert annuals. 72nd Annual **Ecological Society of America** Meetings, Columbus, 9-14 August **1987**.
- Bachelet D., J.F. Reynolds, and D.L. Moorhead. Water and nutrient dependent phenological model for arid system vegetation types. **ASA, CSSA, SSSA** 78th Annual Meetings, New Orleans, 30 November- 5 December **1986**.
- Bachelet D., R.A. Virginia, and W.M. Jarrell. Simulation modeling of nutrient cycling in a desert legume. IV **International Congress of Ecology**, Syracuse, 10-16 August **1986**.
- Bachelet D., R.A. Virginia, and W.M. Jarrell. DESCYC: Simulation model of a N₂-fixing woody legume in a Sonoran desert ecosystem. 70th Annual **Ecological Society of America** Meetings, Minneapolis, 17-21 June **1985**.
- Bachelet D., R.A. Virginia, and W.M. Jarrell. Simulation model of 1 nitrogen-fixing woody legume. **ASA, CSSA, SSSA** 76th Annual Meeting, Las Vegas, 25-30 November **1984**.
- Bachelet D., H.W. Hunt, and J.K. Detling. Simulation of the effect of above- and belowground grazing on carbon and nitrogen dynamics in blue grama (*Bouteloua gracilis*) sward. Proceedings of the Third European Ecological **Symposium**, Lund, Sweden, August **1983**.
- Bachelet D., H.W. Hunt, and D.G. Milchunas. Resource allocation in blue grama grown in growth chamber. Central Rockies **Ecological Society of America** Annual Meeting, Laramie, Wyoming, 28-29 April **1983**.



Co-authored:

- Sheehan, T., D. **Bachelet**, K. Ferschweiler, J. Abatzoglou. The possible futures of PNW ecosystems. Sixth Annual **Northwest Climate Conference**, Coeur D'Alene Nov 3-5, **2015**.
- Brown, M., D. **Bachelet** and T. Sheehan. Developing Usable Climate Tools For Sagebrush Land Managers. **Great Basin Consortium Conference**: "Climate Programs, Water Limitations, and Geospaces in the Great Basin", Boise, ID, 17-19 Feb **2015**.
- Zhu, Z., S. Liu, D. **Bachelet**, S. Stackpoole, T. Hawbakker, T. Larson, and B. Reed. Effects of Land Use and Climate on Ecosystem Carbon Balance from a Recent National Assessment. Abstract #B42A-04. **AGU Fall Meeting**, San Francisco, CA, 15-19 Dec **2014**.
- Sheehan, T. M.O. Gough, J. Abatzoglou, K. Ferschweiler, D. **Bachelet**. Utilization of projected climate data in conservation planning decision support models. 98th Annual Meeting of the **Ecological Society of America**, Sacramento, CA, 10-15 August **2014**.
- Spencer, W.D., H.L. Romsos, R. Decagne, T. Sheehan, D. **Bachelet**. A strategy and decision-support framework for conserving an isolated fisher (*Pekania pennanti*) population during an era of change. 98th Annual Meeting of the **Ecological Society of America**, Sacramento, CA, 10-15 August **2014**.
- Sheehan, T., D. **Bachelet**, K. Ferschweiler, M. Gough, J. Abatzoglou. MC2 DGVM regional results. Integrated Scenarios of the Future Northwest Environment Conference, Portland, Oregon, 17 April **2014**.
- Peterman, W. L. and D. **Bachelet**. Using soils in sensitivity analysis for vegetation change models. **AGU Fall Meeting**, San Francisco, CA, 9-13 Dec **2013**.
- Degagne, R.S., D. **Bachelet**, D. Grossman, M. Lundin, B.C. Ward. Implementation of a Web-Based Spatial Carbon Calculator for Latin America and the Caribbean. **AGU Fall Meeting**, San Francisco, CA, 9-13 Dec **2013**.
- Comendant, T., J.R. Strittholt, B.C. Ward, D. **Bachelet**, D. Grossman, N. Stevenson-Molnar, K. Henifin; M. Lundin, T. Marvin, W.L. Peterman, G.N. Corrigan, K. O'Connor. Principles and Best Practices Emerging from Data Basin: A Data Platform Supporting Scientific Research and Landscape Conservation Planning. **AGU Fall Meeting**, San Francisco, CA, 9-13 Dec **2013**.
- Flores Cervantes, J.H. J.T. Abatzoglou, K. Hegewisch; D. **Bachelet**, P. Mote, D.P. Lettenmaier. Hydrologic Prediction in the Pacific Northwest: An Integrated Scenarios Approach. **AGU Fall Meeting**, San Francisco, CA, 9-13 Dec **2013**.
- Sheehan, T., D. **Bachelet**, K. Ferschweiler; J.T. Abatzoglou, K. Hegewisch. Wildfire, vegetation change, and carbon: the effect of different projected climate futures on vegetation in the western United States. **AGU Fall Meeting**, San Francisco, CA, 9-13 Dec **2013**.
- King, D.A., D. **Bachelet**, A.J. Symstad. 2013. Modeling drought stress and tree mortality with dynamic global vegetation models. 98th Annual Meeting of the **Ecological Society of America**, Minneapolis, MN, 4-9 August **2013**.
- Symstad A., D.A. King, D.M. **Bachelet**, B. Burkhardt, D. Roddy, G. Schroeder, and D. Swanson. Using a Global Vegetation Model to Plan Local Natural Resource



- Management. AGU Fall Meeting, San Francisco, CA, 3-7 Dec **2012**.
- Comendant, T., J. Strittholt, B. Ward, D. **Bachelet**. 2012. Data Basin: Interactive mapping platform for decision support and science-based learning. Society for Conservation Biology North America Congress for Conservation Biology (NACCB). Bridging the gap: connecting people, nature and climate. Oakland, CA, 15-18 July **2012**.
- Osborne-Gowey, J., D. M. **Bachelet**, G. Mauger, E. Garcia, C. Tague and K. Ferschweiler. Assessing the skill of hydrology models at simulating the water cycle in the HJ Andrews LTER: Assumptions, strengths, and weaknesses. 96th Annual Meeting of the **Ecological Society of America**, Portland, OR, 6-10 August **2012**.
- King, D. D. **Bachelet**, A. Symstad. Modeling climate change effects on the ecotone between forest and grassland at Wind Cave National Park, South Dakota. 96th Annual Meeting of the **Ecological Society of America**, Portland (OR), 6-10 August **2012**.
- Yospin, G. S. Bridgham, R. Neilson, J. Bolte, D. **Bachelet**, P. Gould, C. Harrington, J. Kertis, J. Merzenich, C. Evers and B. Johnson. Projections of climate change impacts on forest succession for local land management using a new vegetation model, CV-STM. 96th Annual Meeting of the **Ecological Society of America**, Portland, OR, 6-10 August **2012**.
- Conklin, D., D. **Bachelet**, J. Bolte. Breaking Out of Gridlock: Simulating Natural Processes on Meaningful Spatial Units. AGU Fall Meeting, San Francisco, CA, 5-9 Dec **2011**.
- King, D., D. **Bachelet**, A. Symstad. Beyond scenario planning: projecting the future using models at Wind Cave National Park (USA). AGU Fall Meeting, San Francisco, CA, 5-9 Dec **2011**.
- Osborne-Gowey, J., D. **Bachelet**, G. Mauger, A. Hamlet, E. Garcia, C. Tague, K. Ferschweiler. Assessing the Skill of Hydrology Models at Simulating the Water Cycle in the HJ Andrews LTER: Assumptions, Strengths, and Weaknesses. AGU Fall Meeting, San Francisco, CA, 5-9 Dec **2011**.
- Kerns, B. K., M. Hemstrom, D. **Bachelet**, D., D. Conklin, Josh. Halofsky, M. Buonopane, and Jessica Halofsky. Climate change considerations in VDDT: using output from a dynamic global vegetation model to parameterize a state and transition model. ESSA Technologies, **State-and-Transition Landscape Modeling Conference**, Portland, OR, June **2011**.
- Peterman, W., D. **Bachelet**, and K. A. Bennett. Forecasting pinyon pine vulnerability to climate change using available soil characteristics. **National Workshop on Climate & Forests: Planning tools and perspectives on adaptation and mitigation options**, in Flagstaff, AZ, 16-18 May **2011**.
- Kerns, B. K., D. **Bachelet**, D., D. Conklin, M. Hemstrom, M. Buonopane, J. Halofsky and J. Halofsky. Climatizing state and transition models using a dynamic global vegetation model: tales from the trenches. **US-IALE 26th Annual Symposium**, Portland, OR, 4-6 April **2011**.
- Kerns, B.K., D. **Bachelet**, and M. Buonopane. Vegetation response to climate change: Usable results from SDMs and DGVMs. 94th Annual Meeting of the **Ecological Society of America**, Pittsburgh, PA, 1-6 August **2010**.



- Neilson, R.P., J.M. Lenihan, D. **Bachelet** (presenter), R.J. Drapek, C. Daly, J. Wells, M. McGlinchy, B. Rogers, G. Pinjuv, P. Gonzalez. 2nd **NACP** All-investigators meeting, San Diego, CA, 17-20 Feb **2009**.
- Conklin, D.R., D. Bachelet, B. Kuhn, J.A. Panek, J. W. van Wagtendonk. Potential disappearance of subalpine vegetation from Yosemite. **AGU** Fall Meeting, San Francisco, CA, 15-19 Dec **2008**.
(http://www.fs.fed.us/psw/cirmount/meetings/agu/agu2008.shtml/Conklin_agu2008_poster.pdf)
- Zganjar, C., E. Girvetz, G. Raber, **D. Bachelet**, and J. Lawler. Conservation and climate – using technology to inform decision making. Annual meeting of the International Congress for Conservation Biology, Convention Center, Chattanooga, TN, 10 July **2008**.
- Baker B. (presenter), D. **Bachelet**, A. Spessa, K. Thonicke, J. Lenihan, P. Friedligstein, S. Harrison. Validation of dynamic vegetation-fire model simulations. 4th **IGBP Congress**, Cape Town (S. Africa), 5-9 May **2008**.
- Zganjar, C., J. DeBlieu, D. **Bachelet**, B. Stanley. Climate Change Database Development and Learning Networks Establishment. **AGU** Fall Meeting, San Francisco, CA, 10-14 Dec **2007**.
- Lenihan, J.M., D. **Bachelet**, R. Neilson, and R. Drapek. Simulated Response of Conterminous United States Ecosystems to Climate Change at Different Levels of Fire Suppression, CO₂, and Growth Response to CO₂. **AGU** Fall Meeting, San Francisco, CA, 10-14 Dec **2007**.
- Neilson, R.P., D. **Bachelet** (speaker), S.W. Running. Global modeling and prediction of climate-induced forest dieback, 92nd Annual Meeting of the **Ecological Society of America**, San Jose, CA, 1-6 August **2007**.
- Baker, B., D. **Bachelet**, J. Lenihan, and R. Drapek. Simulating the effect of various climate change scenarios on conservation in northwestern Yunnan, PRC. 92nd Annual Meeting of the **Ecological Society of America**, San Jose, CA, 5-10 August **2007**.
- Neilson, R., D. **Bachelet**, (presenter), and S. Running. Global Modeling and Prediction of Climate-induced forest dieback. 92nd Annual Meeting of the **Ecological Society of America**, San Jose, CA, 5-10 August **2007**.
- Lenihan, J. and the **MAPSS Team**. Widespread Dieback of Forests in North America under Rapid Global Warming: Response to the VINCERA Future Climate Scenarios Simulated by the MC1 DGVM. **AGU** Fall Meeting, San Francisco, CA, 5-9 Dec **2005**.
- Baker, B., D. **Bachelet**, C. Daly, Ma Jian, R. Moseley, S. Xuezheng, S. Jihua, and A. Shlisky. 2005. Effects of climate change and land management practices in the Hengduan Mountains of northwestern Yunnan, PRC: Options for alpine conservation. Open Science **Conference**: Global Change in Mountain Regions, Perth, Scotland, 2-6 October **2005**.
- Neilson, R.P., J. Lenihan, and D. **Bachelet**. Climate change implications for sagebrush ecosystems. 89th Annual Meeting of the **Ecological Society of America**, Portland, OR, 1-6 August **2004**.
- Lenihan, J.M. and D. **Bachelet**. Simulated effect of climate and fire suppression on area burned and carbon dynamics in the coterminous United States. 89th Annual



- Meeting of the **Ecological Society of America**, Portland, OR, 1-6 August **2004**. Drapek, R.J., J.M. Lenihan, R.P. Neilson, and D. **Bachelet**. Comparing vegetation maps: an alternative to Kappa statistics. 87th Annual Meeting of the **Ecological Society of America**, Tucson, AZ, 4-9 August **2002**.
- Neilson, R.P., S. Running, D. Schimel, D. Ojima, W. Parton, J. Melillo, W.M. Post, A.W. King, T. Kittel, I.C. Prentice, M. Sykes, D. **Bachelet**, P. Thornton, and VEMAP participants. Potential impacts of climate change on carbon sequestration and ecosystems in the conterminous U.S.: Analyses from six VEMAP models. Global Change Open Science **Conference**, Amsterdam, Netherlands, 10-13 July **2001**.
- Drapek, R.J., R.P. Neilson, D. **Bachelet**, J.M. Lenihan, and VEMAP Members. MC1 LAI and vegetation carbon output compared with its progenitor models and with new satellite LAI estimates. 85th Annual Meeting of the **Ecological Society of America**, Snowbird, UT, 6-10 August **2000**.
- Neilson, R.P., D. **Bachelet**, J. Lenihan, R. Drapek, and VEMAP Participants. Potential Impacts of Global Warming on U.S. Ecosystems. Co-sponsored by Yale University and The Nature Conservancy, Washington D.C., 21 September **2000**.
- Neilson, R.P., D. **Bachelet**, J.M. Lenihan, R.J. Drapek, and VEMAP Members. Potential impacts of global warming on U.S. ecosystems. 85th Annual Meeting of the **Ecological Society of America**, Snowbird, UT, 6-10 August **2000**.
- Neilson, R.P., D. **Bachelet**, J.M. Lenihan, R.J. Drapek, and VEMAP Members. The VEMAP Models and Potentially Complex Biosphere-Atmosphere Feedbacks: Is There a Threshold Global Temperature Increase That Could Shift the Biosphere from Negative to Positive Feedback with the Climate System? LTER Workshop: Biogeographical and Biogeochemical Analysis of Climate Variability and Change. Fourth **LTER** All Scientists Meeting, Snowbird, Utah, 2-4 August **2000**.
- Neilson R.P., D. **Bachelet**, J.M. Lenihan, R.J. Drapek, and VEMAP Members. The VEMAP Models and potentially complex biosphere-atmosphere feedbacks: Is there a threshold global temperature increase shifting the biosphere from negative to positive feedback with the climate system. **AGU** Spring Meeting, Washington, D.C., 30 May- 3 June **2000**.
- Neilson R.P., D. **Bachelet**, J.M. Lenihan, and R. Drapek. Projected 21st century changes in U.S. ecosystems and water resources: possible threshold responses. 84th Annual Meeting of the **Ecological Society of America**, Spokane, WA, 8-12 August **1999**.
- Lenihan J.M., D. **Bachelet**, C. Daly, R.P. Neilson, D. Ojima, and H.W. Parton. Simulating broad-scale fire severity in the MAPSS-CENTURY Dynamic Global Vegetation Model. GCTE-LUCC Open Science **Conference** on Global Change, Barcelona, Spain, 14-18 March **1998**.
- Daly, C., J.M. Lenihan, D. **Bachelet**, R.P. Neilson, and D. Ojima. Modeling the effect of global change on vegetation distribution, water balance, and productivity in the Great Plains region. 82nd Annual Meeting of the **Ecological Society of America**, Albuquerque, NM, 10-14 August **1997**.
- Hoff C., D. **Bachelet**, S. Rambal, R. Joffre, and B. Lacaze. Simulating carbon budget of Mediterranean evergreen oak ecosystems. Comparison with remotely-sensed parameter. **IUFRO** Meetings, Montpellier, France, August **1995**.
- Holman S.R. and D. **Bachelet**. Influence of elevated CO₂ and temperature on wetland rice root dynamics. International **Symposium** Disturbed Climate Vegetation and



- Foods, Tsukuba, Japan, 13-17 October **1992**.
- Olszyk D.M., D. **Bachelet**, K. Heong, K. Ingram, M. Kropff, H.U. Neue, P. Teng, and B. Vergara. The EPA/IRRI Rice Research Program: effects of climate change on the wetland rice ecosystem. International **Symposium** Disturbed Climate Vegetation and Foods, Tsukuba, Japan, 13 -17 October **1992**.
- Holman S.R. and D. **Bachelet**. Influence of elevated CO₂ and temperature on wetland rice roots dynamics and the implications for methane production. 77th Annual Meeting of the **Ecological Society of America**, Honolulu, Hawaii, 9-13 August **1992**.
- Olszyk D.M., D. **Bachelet**, P. Barnes, D. Brown, S. Holman, K. Ingram, B. Vergara, M. Bonman, F.W.T. Penning de Vries, H. Neue, and K. Heong. Effects of UV-B and Global Climate Change on Rice Production: The EPA/IRRI Cooperative Research Program. Agronomy Abstracts, Annual Meeting, p. 44, Poster paper presented at the **ASA, CSSA, SSSA** 82nd Annual Meeting, San Antonio, TX, 21-26 October **1990**.
- Brown D. and D. **Bachelet**. Application of geographic information system technology for assessing the effects of global climate change and increased UV-B radiation on the rice ecosystem in Asia. 75th Annual Meeting of the **Ecological Society of America**, Snowbird, Utah, 29 July- 2 August **1990**.
- Wondzell S.M. and D. **Bachelet**. Factors affecting the dynamics of shrub and grassland communities in the Northern Chihuahuan desert. 3rd Annual Landscape Ecology **Symposium**. Observations across scales: Function and Management of Landscapes. Univ. of New Mexico, Albuquerque, NM, 16-19 March **1988**.
- Virginia R.A., W.M. Jarrell, D. **Bachelet**, P.W. Rundel, R. Sharifi, D.H. Kohl, G. Shearer, and E.T. Nilsen. Nitrogen fixation and plant productivity in a California Sonoran Desert wash woodland. Proceedings of 35th Annual **AIBS** Meeting, Colorado State University, Fort Collins, 5-9 August **1984**.

OTHER PRESENTATIONS AVAILABLE ON THE WEB

- 2009 Yosemite Forum** (<http://yosemitenews.info/forum/read.php?1,7326,7326>)
- 2011 MC1 First Users Conference** (<http://www.fsl.orst.edu/dgvm/agenda.htm>)
- 2011 Webinar** on Climate Change Impacts Module, part of **ILAP project** on INR web site (<http://oregonstate.edu/inr/ilap-webinars>)
- 2007 Interview on NPR Morning Edition** by Louisa Lim, with TNC team member Barry Baker (<http://www.npr.org/templates/story/story.php?storyId=17200108>)

SYNERGISTIC ACTIVITIES

Presenter – Science Training

- U.S. Fish and Wildlife Service Climate Change science training session for employees sponsored by the Univ. of Washington Climate Impacts Group and others: Lacey, WA, February 11, 2008.
- U.S. Forest Service Vegetation Models and Climate Change Workshop: January 23-25, 2008, Portland, OR (<http://www.fs.fed.us/wwetac/workshops/>).



- MC1 First Users Conference, Corvallis OR, January 11-12, 2011, sponsored by Conservation Biology Institute and Stratus Consulting.

General Service

- Forest Ecosystem and Climate Impacts Expert Workshop, Tacoma WA, March 17, 2011, sponsored by National Wildlife Federation, Washington Department of Fish and Wildlife, Climate Impacts Group, PNW Climate Change Vulnerability Assessment.
- Presentation to Olympia Prairie Conservation Groups, February 12, 2013.
- Presentation to Climate Change Lunch Club, Oregon State University, May 21, 2013.
- Presentation to the Douglas County Global Warming Coalition, October 30th, 2013
- Presentation to Emerald Chapter, Society of American Foresters, Eugene, OR December 17th, 2013.
- Presentation to OSU WRE seminar series (Mary Santelman), Jan 8th, 2014.
- Presentation at USFW sponsored workshop on Climate Change Adaptation: Planning for climate change at the landscape scale for Clatsop and Tillamook counties, Oregon, Sep 16th, 2014.
- Presentation to Mary's River Watershed Council, Jan 7th, 2015.
- Presentation to Umqha Chapter of the Society of American Foresters, Roseburg, OR, Jan 13th, 2015.
- Presentation to PNW Tribal climate change network, Aug 19th, 2015.
- Presentation to OSU Classes April 14th, 2015 (Glenn Howe); May 15th, 2015 (Andreas Schmittner)
- Presentation for OSU seminar series (BEE 507) September 30th, 2015.
- Panel member Healthy Headwaters Leadership Convening, Eugene (OR), Oct 16th, 2015. Climate Change, Wildfire, Water Supply - What can communities do to prepare?

Reviewer for scientific journals: Annals of Forest Science , BioScience, Biogeochemistry, Catena, Climatic Change, Conservation Biology, Ecological Applications, Ecological Modelling, Ecology Letters, Ecosystems, Forest Science, Frontiers in Ecology, Global Biogeochemical Cycles, International Journal of Wildland Fire, Journal of Advances in Modeling Earth Systems, Journal of Hydrology, Landscape Ecology, Nature, Northwest Science, Nutrient Cycling in Agroecosystems, PLOSone, Progress in Physical Science, Soil Science.

Reviewer for National Agencies: USDA National Research Initiative Competitive Grants Program, USDA Fund for Rural America, USDA Managed Ecosystems Program, DOE Program for Ecosystem Research, NSF (review panel member 2010-2011 Ecosystems), Western Region's Water Resources Research Competitive Grants Program, U.S. Civilian Research and Development Foundation.

Contributing author to the Intergovernmental Panel on Climate Change (IPCC)

Assessment Reports: Chapter 13. Agriculture in a changing climate: impacts and adaptation. In: Watson et al., Climate Change 1995: Impacts, adaptations and mitigation of climate change: scientific-technical analyses. Published for IPCC



1996, Cambridge University Press.

Contributing author to the 2000 National Assessment. Chapter 17. Potential consequences of climate variability and change for the forests of the United States. In: National Assessment Synthesis Document. 2000.

<http://www.usgcrp.gov/usgcrp/nacc/forests/default.htm>

Expert reviewer for 2007 Intergovernmental Panel on Climate Change (IPCC) Working Group II Fourth Assessment Report. <http://www.ipcc-wg2.org/>

HONORS

- 2005 Certificate of appreciation for exceptional contribution to the VINCERA (Vulnerability and impacts of North American forests to climate change: ecosystems response and adaptation) North American Climate Change project and overall MAPSS team support. USDA Forest Service PNW Research Station, FSL, Corvallis OR.
- 2004 15 Year Services Award Oregon State University
- 2003 Certificate of appreciation for outstanding dedication to the US National Assessment of the Ecological Impacts of Global Warming and the production of a world class, peer reviewed legacy in support of the assessment. USDA Forest Service PNW Research Station, FSL, Corvallis OR.
- 1999 10 Year Services Award Oregon State University
- 1992 Performance Incentive Program Award - ManTech Env. Technology Inc.

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science
American Geophysical Union
Ecological Society of America
Union of Concerned Scientists

CLASSES TAUGHT AT OSU

Fall Seminar Series - Updates from the Corvallis Climate Change Research Community -
Fall 2015 - BEE 507 CRN#21344
Savanna vegetation with increasing CO2: Exploring the grass vs tree tipping point
(reading and conference) - Winter 2015 - BEE 501 - CRN#33988
Global Environmental Change: Using data to inform decisions (on-line course) - Spring
2014 - BEE 411/511 - CRN#58732/3
Spring and Fall Seminar Series - Corvallis Climate Change Modeling Community - (BEE
Spring and Fall 2012 - CRN#20638)
Global Ecology (BRE 551X Spring and Fall 1992)
Graduate Research and Publication (BRE 507 section 2 - Spring 1997, 1998, 1999, 2000)
Graduate Student Orientation (BRE 507 section 1 - Winter 1998)

OSU STUDENT CURRENT COMMITTEE MEMBER



Suphannika Intanon (Ph. D., Crop Science), Bethany Munoz (Ph. D., Forest Engineering, Resources and Management), Wendy Peterman (Ph. D., Forest Engineering, Resources and Management).

OSU PAST STUDENT COMMITTEE MEMBER

Marilynn Bartels (M.S., Botany and Plant Pathology, 2000), Michael Cairns (Ph. D., Botany and Plant Pathology, abandoned 2001), David Conklin (Ph. D., Biological and Ecological Engineering 2009), Kristin Coons (M.S, FERM 2014), Melissa Dahl (M.S. Biological and Ecological Engineering, 2015-ongoing), Lance George (M.S., Forest Science), Charles Hillyer (Ph. D., Biological and Ecological engineering 2011), Tara Hudiburg (Ph. D., Forest Ecosystems and Society), Suphannika Intanon (Ph. D., Crop Science 2013), Katherine Jacobs (M.S., Forest Science, 2002), Jonathan Kehmeier (M.S., Bioengineering, 2000), France Lamy (Ph. D., Bioengineering, replaced June 2002), Jennifer Larsen (M.S., Geography, 2005), Julian Licata (M.S., Forest Science, 2004; Ph. D., Forest Science, 2007), Patrick McQuarrie (Ph. D., Geosciences), Rozi Mohammed (M.S., Forest Science, 1999), Kristen Overturf (M.S., BioResource Engineering, 1999), Wendy Peterman (Ph. D., Forest Engineering, Resources and Management, replaced May 2014), Brian Pickard (M.S., Forest Ecosystem and Society, 2013), Debbie Reusser (Ph. D., Geosciences 2010), Daniel Sarr (Ph. D., Forest Science, 2004), Tim Sheehan (Ph D., Env. Sciences 2014), Gaylen Sinclair (Ph. D., COAES 2014), Carla Stevens (M.S., Biological and Ecological Engineering).

POSTDOCTORAL FELLOWS and INTERNS

Christophe Cassen (ENGREF, France – summer 2007), David Conklin (Postdoctoral scholar, Biological and Ecological Engineering, 2009-2010), Yutaka Hagimoto (Postdoctoral fellow, Biological and Ecological Engineering - 2004-2008), David King (Postdoctoral scholar, Biological and Ecological Engineering – 2011-2012), Mingshi Li (visiting scientist, China, 2012), Michael Tolg (Postdoctoral scholar, Germany, 1993), Li Yu (Postdoctoral scholar, China, 2015-16).