

ALAN A. AGER

Research Forester Emeritus
USDA Forest Service
Rocky Mountain Research Station, Missoula Fire Sciences Laboratory
Missoula MT USA

Professional Preparation:

1980 B.S. magna cum laude, University of Washington, Seattle, WA (Forest Science)
1983 M.S. University of Wisconsin, Madison, WI (Plant Genetics)
1987 Ph.D. University of Washington, Seattle, WA (Forest Genetics)
1987-1989 Postdoctoral Researcher, Department of Genetics, University of Washington, Seattle, WA

Appointments

2022 - present Research Forester Emeritus, USDA Forest Service, Rocky Mountain Research Station, Missoula Fire Sciences Laboratory, Missoula MT
2014 - present Courtesy Faculty, Oregon State University, Dept. of Forest Engineering, Resources and Management, Corvallis, Oregon
2022 - present Professor, Department of Natural Resources, Forest Research Centre, School of Agriculture, University of Lisbon, Lisbon Portugal
2015 - 2022 Research Forester, USDA Forest Service, Rocky Mountain Research Station, Missoula Fire Sciences Laboratory, Missoula MT
2007 -2015 Operations Research Analyst, USDA Forest Service, Western Wildland Environmental Threat Assessment Center, Prineville, OR.
2005 - 2006 Operations Research Analyst, USDA Forest Service, La Grande Forestry and Range Sciences Lab, La Grande OR.
1989 - 2004 Operations Research Analyst, USDA Forest Service, Umatilla National Forest, Pendleton OR.
1987 - 1988 Postdoctoral Research Fellow, Department of Genetics, University of Washington, Seattle, WA.
1984 - 1985 Guest Researcher, Swedish University of Agricultural Sciences, Uppsala, Sweden.
1981 - 1984 Research Assistant, College of Forest Resources, University of Washington, Seattle, WA.,

Teaching and Faculty Assignments

2015-2022 Guest Faculty, Portland State University Department of Environmental Science
2016-2020 Adjunct Professor Northern Arizona State University
2009, 2010, 2014, 2015 Visiting Researcher, University of Sassari, Sardinia, Italy
2013, 2014, 2017, 2024 Visiting lecturer, Forest Research Center, University of Lisbon, Lisbon, Portugal

Honors and awards

2020. USDA Secretary's Honor Award for contributions to USDA Strategic Goal #6 "Foster productive and sustainable use of our National Forest System Lands". Awarded for development of the firehshed registry and scenario planning.

2019. Forest Service Chief's Honor Awarded for development of the fireheshed registry and scenario planning. Presented by Chief Vickie Christiansen.
2019. USDA Undersecretary's Honor Award for service on the Shared Stewardship Team. Presented by Under Secretary James Hubbard. Natural Resources and Environment.
2019. Forest Service Chief's Honor Award for service on the Shared Stewardship Team. Presented by Chief Vickie Christiansen.
2019. Outstanding Performance Award, Rocky Mountain Research Station, "Commitment to agency initiatives and innovative solutions are of high impact", presented by Sara Brown, Program Manager, Fire, Fuels and Smoke.
2019. Certificate of Appreciation, USDA Office of the Secretary. "In recognition of your participation in USDA's 2019 Agricultural Outlook forum, "Growing locally, selling globally". Presented by Under Secretary James Hubbard.
2018. Certificate of Merit and Outstanding Performance Award, Rocky Mountain Research Station, "In appreciation of your scenario investment planning tool concept that defines the capability to assess risk on a fireheshed basis, to project scenarios for various management actions with probable outcomes and set priorities for investing in corresponding management activities", presented by John Phipps, Rocky Mountain Research Station, Station Director.
2017. Outstanding Performance Award, Rocky Mountain Research Station, "Commitment to agency initiatives and innovative solutions are of high impact", presented by Colin Hardy, Program Manager, Fire, Fuels and Smoke.
2016. Outstanding Performance Award, Rocky Mountain Research Station, "Sustained contributions to the concepts of all-lands, all hands resource management, Independent project management is highly effective and efficient; collaboration with many key stakeholders has resulted in many positive outcomes", presented by Colin Hardy, Program Manager.
2016. Certificate of Merit, Washington Office State and Private Forestry, "Presentations and dialogues that are the catalyst for a courageous new look at how agency addresses in response to wildfire, and for your contributions for a rapid response program task to the team by state director and senior Forest Service leadership including Office of the Chief", presented by Deputy Chief James Hubbard.
2016. Science Findings Award, Pacific Northwest Research Station, "Polishing the Prism: Improving Wildfire Mitigation Planning by Coupling Landscape and Social Dimensions" (\$10,000 discretionary funding), presented by PNW Communications and Applications director.
2015. Science Findings Award, Pacific Northwest Research, "Seeking Common Ground between Urban Wildfire Protection and Forest Restoration", Presented by PNW Communications and Applications director (\$10,000 discretionary funding).
2015. Certificate of Merit, Pacific Northwest Research Station for "maintaining 9 concurrent major programs of work in wildfire risk, fuels management, and landscape disturbance", presented by Robert Mangold, Station Director.
2014. Science Findings Award, Pacific Northwest Research Station, "Accelerated Restoration: New Landscape Tools to Prioritize Projects and Analyze Tradeoffs", presented by PNW Communications and Applications director.
2014. Best Paper in 2013 for the journal Risk Analysis, "Wildfire exposure analysis on the national forests of the Pacific Northwest, USA 33(6):1000-1020", presented by Editor Tony Cox Jr.
2011. Science Findings Award, Pacific Northwest Research Station, "Seeking Common Ground: Protecting Homes from Wildfires While Making Forests More Resilient to Fire", presented by Communications and Applications director.
2010. Certificate of Merit, Pacific Northwest Research Station for "outstanding effort in completing complex work assignments developing and nurturing teamwork and partnerships and releasing mission-critical products", presented by Nancy Grulke, Director, Western Threat Center.

- 2009. Certificate of Appreciation, Pacific Northwest Region “In appreciation for your participation in making the 2009 National Silviculture workshop a success”, presented by Regional Forster Harvey Forsgren.
- 2008. Pacific Northwest Research Station nominee for the Chief’s Honor Award - Excellence in Science and Technology, “For development of the ArcFuels model, which integrates growth and yield models and fire behavior models and associated data to streamline wildland fuels planning”, presented by Station Director Thomas Quigley.
- 2008. Science Findings Award, Pacific Northwest Research Station, “Accelerated Restoration: New Landscape Tools to Prioritize Projects and Analyze Tradeoffs”, presented by Communications and Applications director.
- 2005. Best poster presentation at the IUFRO conference Section 4.11 "Simulating long-term forest restoration scenarios and their potential effect on natural disturbances in northeastern, Oregon, USA". Sustainable forestry in theory and practice: recent advances in inventory and monitoring, statistics and modeling, information and knowledge management, and policy science. IUFRO Section 4.11, sponsored by University of Edinburgh in Edinburgh, UK (4/5-4/8/2005).
- 2003. Certificate of Merit, Pacific Northwest Research Station, “For your leadership in the development of vegetation and disturbance models in the completion of science manuscripts for the Interior Northwest Landscape Analysis System”, presented by Station Director Thomas Quigley.
- 2000. Certificate of Merit, Pacific Northwest Region, “Supporting the completion of the interior Columbia basin ecosystem management project science advisory group evaluation of the supplemental draft EIS”, presented by project leader Tom Quigley.
- 1997. Technology Transfer Award, Pacific Northwest Research Station, “For outstanding development, transfer, and application of innovative stand- and landscape-level planning and visualization tools”, presented by Station Director John Mills.
- 1997. Chief’s technology transfer runner-up award along with Robert McGaughey, for outstanding development, transfer, and application of innovative stand- and landscape-level planning and visualization tools.
- 1996. Certificate of Appreciation, Umatilla National Forest, “Great Job on the Tower Fire Ecosystem Analysis”, presented by Forest Supervisor Phil Kline.
- 1993. Certificate of Appreciation, Merit Presidents Forest Plan in recognition of and appreciation for service on the President’s Ecosystem Assessment Team, presented by Jack Ward Thomas, Team Leader.
- 1993. Certificate of Merit, Pacific Northwest Region, “For your superior project management and programming skills in developing GIS analysis tools”, presented by regional Forster John Lowe.
- 1992. Certificate of Appreciation. Northern Spotted Owl EIS team, “For your contributions towards the completion of the Northern Spotted Owl EIS”, presented by Deputy Chief James Overbay.
- 1990. Certificate of Merit, Umatilla National Forest, “For your outstanding performance during fiscal year 1991 support of the Forest plan Implementation”, presented by Forest Supervisor James Stapleton.
- 1990. Certificate of Merit, Pacific Northwest Region, “For your outstanding contributions to Forest Plan Implementation Technology”, presented by regional Forester John Butruille.

Society and professional activities

Since 1982 I have held periodic memberships in the following professional societies: Ecological Society of America, Association for Fire Ecology, Association of Landscape Ecology, Society for Photogrammetry and Remote Sensing, The Wildlife Society, Society for the Study of Evolution, Society for Systems Analysis in Forest Resources and International Association of Wildland Fire (current). The Institute for Operations Research and the Management Sciences (current)

Scientific committee for the Society for Systems Analysis in Forest Resources conference in Seattle, Washington (2017). Reviewed and ranked conference abstracts, organized and moderated a session on wildfire and landscape planning.

Organizing Committee for the Fourth International Congress on Risk, Coimbra Portugal (2017).

Organizing Committee for the First, Second, and Third International Conferences on Wildfire Risk, Alghero, Sardinia, Italy (2011, 2015, 2021).

Scientific committee,

Invited university lectures and seminars

1. Guest lecturer, University of Oregon, Department of Landscape Planning and Urban Architecture, landscape planning and policy issue for wildfire. (2009, 2010, 2011).
2. Guest lecturer, University of Oregon, Department of Landscape Planning and Urban Architecture, landscape planning and policy issue for wildfire. (2009, 2010, 2011).
3. Guest lecturer, University of Oregon, Department of Landscape Planning and Urban Architecture, landscape planning and policy issue for wildfire. (2009, 2010, 2011).
4. Guest lecturer, University of Sassari, Sardinia, Italy. wildfire risk science and assessment, fuel management planning, spatial optimization, fire behavior modeling. Developed and taught curricula, including (2009, 2010, 2014, 2015).
5. Guest lecturer, Technical University of Lisbon, Department of Environmental Science, Lisbon, Portugal. Developed and presented wildfire risk science curricula for the MEDFOR (<http://www.medfor.eu/>) program. 4 April 2013.
6. Wildfire risk management in the United States: progress and barriers towards a Cohesive Strategy. Class lecture, University of Lisbon in Lisbon, Portugal, 8 March 2013.
7. Concepts and application of risk science to wildfire and landscape planning. Class lecture, Technical University of Lisbon, Department of Environmental Science, Lisbon, Portugal (2016-2018).
8. Ecology and management of wildfire risk. Guest lecture, Doctoral Program in Fire Ecology and Management, University of Patagonia, Chubut, Argentina, 4 April 2016.
9. Production frontiers and the economics of restoration. Class lecture, University of Porto, 4 April 2017.
10. Guest lecturer, Department of Forest, Rangeland, and Wildfire Sciences, University of Idaho, fuels treatment planning and wildfire behavior modeling (2011, 2015).
11. Guest lecturer, UC Berkeley, risk science, fuels treatment planning, wildfire behavior modeling (2008).
12. Guest lecturer, University of Lleida, Lleida, Spain. Risk science, wildfire behavior modeling, and landscape planning (2010).
13. Fuel treatment planning and wildfire simulation modeling. Class lecture sponsored by University of Austral in Austral, Valdivia, Chile, 21 March 2011.
14. Wildfire simulation modeling and application for policy development. Department of Biology, sponsored by Catholic University in Santiago, Chile, 15 March 2011.
15. Application of ArcFuels for landscape fuels. Webinar, University of Idaho, 28 March 2012..

16. Decision support systems for wildfire operations and planning in the U.S. Class lecture, University of Corte in Corsica, France, 7 April 2013.
17. Application of wildfire risk assessment models for evaluating potential radionuclide emissions from Chernobyl Forest Reserve. Class lecture, University of Kiev in Kiev, Ukraine, 10 July 2013.
18. Managing wildland fire risk: models, science and application. Class lecture, University of Sassari in Sassari, Italy, 6 November 2013.
19. Integrating wildfire into agent-based landscape modelling systems: a case study from Oregon, USA. Class lecture, University of Corte in Corsica, Italy, 11 April 2013.
20. Decision support tools for wildfire risk assessment. Decision Support System Workshop and ForestDSS Community of Practice, MEDFOR - Mediterranean Forestry and Natural Resources Management Graduate Program, Technical University of Lisbon in Lisbon, Portugal, 4 December 2013.
21. Conflicts and opportunities for managing wildfire risk in the western US. Class seminar, Yale Institute of Global Sustainability, Yale University in New Haven, CT 3 December 2015.
22. Analyzing tradeoffs in ecosystem services from forest restoration. Class lecture, Northern Arizona State University and Ecological Restoration Institute, Flagstaff, AZ 28 October 2015.
23. Production possibility frontiers and tradeoffs among ecosystem services from forest restoration: case studies from the Pacific Northwest, USA". Seminar Series on Ecology and Management of Forests and Ecosystem Services, Portland State University, National Science Foundation IGERT Program in Portland, OR, 21 January 2016.
24. Network analysis of wildfire risk transmission among land tenure systems in the western US. Class lecture, Duke University, Beaufort, NC 12 May 2016.
25. Restoring fire resiliency on fire excluded landscapes using wildfire in combination with prescribed burning. Graduate course lecture, Introduction to Fire Ecology and Prescribed Burns, National University of Patagonia San Juan Bosco, doctoral program in ecology and management of fire and vegetation in Esquel, Argentina, 6-12 November 2016.
26. Landscape planning tools for optimizing prescribed burning activities. Graduate course lecture, Introduction to Fire Ecology and Prescribed Burns, National University of Patagonia San Juan Bosco, doctoral program in ecology and management of fire and vegetation, Esquel, Argentina, 6-12 November 2016.
27. Spatial optimization methods for estimating production frontiers and ecological tradeoffs for restoration of fire adapted forests. Class lecture, University of Porto, Porto, Portugal, 26 May 2017.
28. Transboundary risk transmission and risk governance -- case studies from fire prone forests in the western US. Class lecture, Technical University of Lisbon, Lisbon, Portugal 22 May 2017.
29. Transboundary wildfire risk: Assessment for cross boundary wildfire management. Class lecture, Oregon State University and Eastern Oregon University, La Grande, OR, 20 April 2017.
30. Fighting fire with fire – modeling landscape feedbacks under accelerated fire regimes. Class lecture, Instituto Superior de Agronomia, Universidade de Lisboa, Lisbon, Portugal, 4 December 2018.

31. Contribution of risk science and scenario planning to develop the 2022 Forest Service wildfire crisis strategy. Instituto Superior de Agronomia, Universidade de Lisboa, Lisbon, Portugal, October 12, 2022

Graduate students, post-doctoral scholars

Dr. Michele Salis, University of Sassari, Department of Agronomy, Sassari, Italy (2014);
Dr. Palaiologos Palaiologou, University of the Aegean, Department of Geography, Mytilene, Greece (2016-2017);
Dr. Victor Myroniuk, Institute of Forestry and Landscape Management, National University of Life and Environmental Sciences of Ukraine, Kiev, Ukraine (2017);
Dr. Juan P. Argañaraz, Institute of Animal Diversity and Ecology National Council of Scientific Research and Technology - National University of Córdoba, Argentina (2017);
Dr. Fermín Jesús Alcasena Urdíroz, University of Lleida, Department of Agricultural and Forest Engineering, Lleida, Catalonia, Spain (2016, 2019-2020);
Ms. Kateryna Fedyna Institute of Forestry and Landscape Management, National University of Life and Environmental Sciences of Ukraine, Kiev, Ukraine (2019).
Bruno Aparicio, Technical University of Lisbon, Lisbon, Portugal (2021 - present)

Formal service on graduate student committees

2017 Jesse Young, PhD, Northern Arizona State University
2017 Cody Evers, PhD, Portland State University
2021-present Bruno Aparicio, Technical University of Lisbon, Lisbon, Portugal

Competitive research grants received.

Forest Service Washington Office, competitive research grant, 2014-2018, A. Ager (RMRS), K. Abt (SRS). *"An Economic module to evaluate timber revenue tradeoffs of alternative forest management investment scenarios"*, \$35,000. Co-wrote the proposal.

Joint Fire Science Program, competitive research grant, 2014-2017, A. Ager (RMRS), J.D. Bailey (Oregon State University) and T.A. Spies (PNW). *"Assessing fuel management strategies to reduce landscape-level wildfire risk and transmission into urban interfaces"*, \$280,000. Lead role developing ideas in the proposal and wrote the majority of the grant.

Joint Fire Science Program, competitive research grant, 2013-2017, M. Thompson (RMRS) and A. Ager (RMRS). *"Evaluating spatiotemporal tradeoffs under alternative fuel management and suppression policies: measuring returns on investment"*, \$286,600. I designed the modelling system and a portion of the methods proposed in the grant.

National Science Foundation, competitive research grant, 2010-2014, J. Bolte (Oregon State University), B. Steel (Oregon State University), T Spies (PNW), and A. Ager (PNW). *"CNH: Coupled Natural and Human Systems in Fire-Prone Landscapes: Interactions, Dynamics, and Adaptation"*, \$1,499,954. Contributed to the study design, research hypotheses, and the methods for integrating wildfire into the Envision model.

National Science Foundation, competitive research grant, 2008-2014, B. Johnson (University of Oregon), A. Ager (PNW), M. Nielsen-Pincus (University of Oregon), J. Bolte (Oregon State University), D. Hulse (University of Oregon). *"The interactions of climate change, land management policies and forest succession on fire hazard and ecosystem trajectories in the wildland-urban interface"*, \$1,400,000. Contributed to the study design, research hypotheses, and the methods for integrating wildfire into the Envision model.

Joint Fire Science Program, competitive research grant, 2006-2010, C.L. Miller (PNW), A.A. Ager (PNW) and M.A. Finney (RMRS). *"Evaluating approaches to mapping burn probabilities for quantitative wildland fire risk analysis framework"*, \$220,000. Contributed to the experimental design, hypotheses, and methods for modeling wildfires.

Joint Fire Science Program, competitive research grant, 2004-2007, A.A. Ager (PNW), J. Barbour (PNW) and R.J. McGaughey (PNW). *"Developing an analysis and planning framework for district-level fuels treatments projects"*, \$240,000. Lead role developing and writing the proposal.

USDA Forest Health Protection - Special Technology Development Program, competitive research grant, 2004-2006, A.A. Ager (PNW), J.L. Hayes (PNW), E.L. Smith (FHTET) and A. McMahan (ITX Inc). *"Tools for assessing the potential impacts of bark beetles in relation to fuels reduction treatments and forest restoration strategies"*, \$150,000. Lead role developing and writing the proposal.

USDA Forest Service Western Bark Beetle Initiative, competitive research grant, 2004, A.A. Ager (PNW), J.L. Hayes (PNW), D. Scott (Wallowa-Whitman National Forest) and C. Schmitt (Wallowa-Whitman National Forest). *"Integrated landscape analysis of insect risks and mortality associated with fuel treatment scenarios in the Blue Mountains"*, \$60,000. Lead role developing and writing the proposal.

Presentations - Invited papers and posters

1. Ager, A.A. 1991. "Genetics of red alder". Canadian Forestry Research Center, in Victoria, British Columbia, Canada (3/12/1991).
2. Ager, A.A., M. Hitchcock, R. Mrowka, B. Krantz, and W. Peterson. 1991. "Some new tools for analysis of elk habitat in eastern Oregon". Symposium on Elk Vulnerability Relationships, in Bozeman, MT (4/10/12/1991).
3. Ager, A. 1992. "Microcomputer software for project analysis". GIS Modeling Session: Annual Fish, Wildlife and Botany Workshop, sponsored by USDA Forest Service, Region 6 in Spokane, WA (3/23-26/1992).
4. Ager, A.A. and A. Reger. 1993. "Software applications for elk habitat management". Elk Habitat Management Workshop, sponsored by Oregon Chapter of the Wildlife Society in Newport, OR (3/1-2/1993).
5. Ager, A.A., A. Reger, and B. McGaughey. 1994. "Software for calculating landscape structure metrics". Landscape Analysis for Wildlife Habitat Workshop, sponsored by Oregon Chapter of the Wildlife Society in Sunriver, OR (2/15-2/16/1994).
6. Ager, A.A., A. Reger, and B. McGaughey. 1994. "Application of UTOOLS for forest landscape analysis". Landscape Analysis Module, Continuing Education Workshop, sponsored by Oregon Chapter of the Wildlife Society in Newport, OR (2/15-2/16/1994).
7. McGaughey, B. and A.A. Ager. 1994. "Visualization of forested landscapes". Forests in the Inland Northwest Symposium, in Spokane, WA (5/3-5/1994).
8. Ager, A.A. 2005. "New GIS tools for landscape-scale fuels treatment planning". National Interagency Wildland Fuels Workshop, in Atlanta, GA (4/18-20/2005).
9. Ager, A.A., M.A. Finney, R.C. Seli, C. McHugh, and N.L. Crookston. 2005. "A modeling approach for analyzing the performance of landscape-level fuel treatment strategies". Fire Prevention Strategies in Southern Europe: Fuel Management and the Prevention of Large Forest Fires, in Barcelona, Spain (5/6-5/8/2005).

10. Ager, A.A. 2007. "Overview of ArcFuels". GeoSpatial 2007: Building Bridges to Information Sharing, sponsored by USDA/USDI in Portland, OR
11. Ager, A.A. 2011. "Risk-based prioritization of fuel treatment projects for dry forest restoration: case studies from central Oregon". Forest Restoration Beyond Fuels Reduction: What is the Vision?, sponsored by Central Oregon Community College in Bend, OR (10/12-14/2011).
12. Ager, A.A. 2011. "Risk science applications for the Cohesive Strategy". Cohesive Strategy Science Prototype Workshop, in Asheville, NC (3/2/2011).
13. Ager, A. 2014. "Invited Keynote: Managing wildfire risk for biodiversity conservation: case studies from the US and Mediterranean region". BioRare, 3rd International Symposium on the Biology of Rare and Endemic Plant Species, in Antalya, Turkey (4/19-4/23/2014).
14. Ager, A.A. 2014. "Spatial planning in the prevention of forest fires". International Conference on Physical Planning and the Prevention of Forest Fires, in Bosnia and Herzegovina (via Skype) (4/28/2014).
15. Ager, A.A. 2014. "A CHANS approach to wildfire risk mitigation planning in the wildland urban interface". Coupled Human and Natural Systems in Fire-Prone Landscapes: Interconnections and Research Needs International Workshop, in Bend, Oregon (8/5/2014).
16. Ager, A.A. 2014. Incorporating wildfire into the Agent based Envision model. 3rd Central Oregon Fire Symposium, in Bend, OR (4/8/2014).
17. Ager, A.A. 2015. "Invited Keynote: Application of simulation models for wildland fire risk management in the US". SSAFR 16th Symposium for Systems Analysis in Forest Resources, in Uppsala, Sweden (8/23/2015).
18. Ager, A.A. 2015. "Conflicts and opportunities for managing wildfire risk". Wildfire & Society: A Conference at Central Washington University, in Ellensburg, WA (11/3/2015).
19. Ager, A.A. 2015. "Wildfire risk". Community Forum on Wildfire Risk, sponsored by Washington Representative Brad Klippert-R in Kennewick, WA (12/9/2015).
20. Ager, A.A., A. Barros, M.A. Day, and H.K. Preisler. 2015. "Understanding coupled natural and human systems on fire prone landscapes: integrating wildfire simulation into an agent based planning system". 2nd International Conference on Fire Behaviour and Risk, in Alghero, Sardinia (5/26-5/29/2015).
21. Ager, A.A. 2016. "Analyzing economic tradeoffs with forest restoration programs". National Collaborative Forest Restoration Workshop, sponsored by the USDA Forest Service, in Denver, CO (4/17/2016).
22. Ager, A.A. 2016. "Modeling radionuclide hazards and risk in the Chernobyl exclusion zone". 2nd National Coordination Meeting and International Scientific Workshop on Enhancing Fire Management Capability in the Chernobyl Exclusion Zone, in Tuirya Pasikla, Transcarpathia, Ukraine (12/1-12/3/2016).
23. Ager, A.A. 2016. "Wildfire transmission among landowners and communities in the state of Colorado", Colorado Executive Forest Leadership Council, Sponsored by the Colorado Department of Forestry, in Fort Collins, CO (12/13/2016).
24. Ager, A.A. 2017. "Invited Keynote: Scale mismatches in landscape planning to mitigate wildfire risk - some examples from the Western US". IV International Congress of Risk: Risk and Education, sponsored by Coimbra University in Coimbra, Portugal (5/23-5/27/2017).

25. Ager, A.A. 2017. "Understanding cross-boundary wildfire risk to communities and public lands in Arizona". Arizona Wildland Urban Interface and Firewise Summit, sponsored by the State of Arizona in Flagstaff, AZ (3/29-3/30/2017).
26. Ager, A.A. 2018. "Scenario investment planning". Forest Service Sustainable Landscape Management Board of Directors Meeting, sponsored by USDA Forest Service in Washington, DC (8/29/2018).
27. Ager, A.A. 2019. Design and implementation of a scenario planning system in the USDA Forest Service. Wildland Fire Leadership Council, sponsored by the USDA Forest Service in San Diego CA (1/15/2019).
28. Ager, A.A. 2019. "Prioritizing shared stewardship investments to achieve cross-boundary outcomes: Assessments, tools and models". 95th USDA Agricultural Outlook Forum, sponsored by USDA in Crystal City, VA (2/21 – 2/22/2019).

Offered papers and posters (oral and presented by first author unless otherwise noted)

1. Ager, A.A. and C.I. Millar. 1981. "Some aspects of reproductive biology in alders as they pertain to potential breeding programs". *Annual Meeting of the Western Forest Genetics Association*, in Corvallis, OR.
2. Brieske, B., A.A. Ager, and K. Perttu. 1986. "Results from the International Energy Agency Joint Evaluation Project". *Joint International Energy Agency/International Poplar Commission Meeting*, in Casale, Monferatto, Italy (9/1-9/5/1986).
3. Ager, A.A. 1990. "Elk habitat modeling". *7th MOSS Users Conference*, in Portland, OR (11/26-11/30/1990).
4. Ager, A.A., B. Kent, J. Merzenich, and R. Phillips. 1991. "Application of Rocky Mountain Station microcomputer FORPLAN on national forests in the Pacific Northwest region". *Annual Symposium on Systems Analysis in Forest Resources*, sponsored by Society of American Foresters in Charleston, SC (5/3-5/6/1991).
5. Church, R.L., A.T. Murray, M.A. Figueroa, A.A. Ager, R.J. McGaughey, and J. Merzenich. 1994. "Artificial landscape visualization of ecosystem management plans". *Decision Support - 2001 Conference*, sponsored by 4th Biennial Resource Technology Symposium and 17th Annual Ontario Geographic Information Seminar (9/25-9/29/1994).
6. Johnson, B., M. Wisdom, A.A. Ager, and S.A. Crim. 1994. "Methods to improve stocking allocation among ungulates". *Sustaining Rangeland Ecosystems Symposium*, in La Grande, OR (8/29-8/31/1994).
7. Findholt, S.L., B. Johnson, L.L. McDonald, J.W. Kern, and A.A. Ager. 1995. "Do radio telemetry point or area estimates more accurately describe an animal's habitat?".
8. Johnson, B., A.A. Ager, S.A. Crim, M. Wisdom, and S.L. Findholt. 1995. "A linear programming formulation to model forage allocation". *2nd Annual Meeting of The Wildlife Society*, in Portland, OR (9/1995).
9. Johnson, B.K., S.A. Crim, A.A. Ager, M.J. Wisdom, S.L. Findholt, and D. Sheehy. 1995. "A linear programming model for analysis of forage allocation strategies among wild and domestic ungulates". *Wildlife Society 2nd Annual Conference*, in Portland, OR (9/12-9/17/1995).
10. Ager, A.A. and R. McGaughey. 1997. "Software for rapid analysis and visualization of radio-telemetry data". *Forum on Wildlife Telemetry: Innovations, Evaluations, and Research Needs*,

sponsored by Northern Prairie Wildlife Research Center, Wildlife Society and Biological Resources Discipline in Snowmass, CO (9/21-9/23/1997).

11. Johnson, B.K., S.L. Findholt, A.A. Ager, M.J. Wisdom, and J.G. Kie. 1997. "Performance of a Loran-C based automated animal telemetry system". *5th Annual Meeting of The Wildlife Society*, in Snowmass, CO (9/20-9/23/1997).
12. Kie, J.G., M.J. Wisdom, A.A. Ager, B.K. Johnson, and E.O. Garton. 1997. "Using random-walk animals to adjust null hypotheses for tests of habitat selection". *77th Annual Meeting of the American Society of Mammalogists*, in Stillwater, OK (6/14-6/18/1997).
13. Brillinger, D.R., H. Preisler, A.A. Ager, and J. Kie. 1998. "Analysis of movements of free ranging animals using potential functions". *Winter Meeting of the Canadian Mathematical Society*, in Kingston, Canada.
14. Brillinger, D.R., H. Preisler, A.A. Ager, and J. Kie. 1998. "Etude statistique des meandres des particules". *Biennial Meeting of the Brazilian Statistical Society*, in Caxambu, Brazil.
15. Brillinger, D.R., H. Preisler, A.A. Ager, and J. Kie. 1999. "Estudo estatístico das trajetórias de partículas como as de alces". *Biennial Meeting of the Brazilian Mathematical Society*, in Rio de Janeiro, Brazil.
16. Brillinger, D.R., H. Preisler, A.A. Ager, and J. Kie. 1999. "Um exemplo da combinação de uma análise estatística do movimento e da informação de um GIS". *Biennial Meeting of the Brazilian Group on Time Series and Econometrics*, in Nova Friburgo, Brazil.
17. Kie, J.G., A.A. Ager, H.K. Preisler, D.R. Brillinger, and B.S. Stewart. 1999. "Using models based on stochastic differential equations with time- and location-dependent covariates to portray animal movements".
18. Kie, J.G., A.A. Ager, J.W. Kern, and B.K. Johnson. 2000. "Fine scale movements and habitat use by elk and mule deer in northeastern Oregon". *Annual Meeting of the Northwest Section of The Wildlife Society*, in Post Falls, ID (3/6-3/10/2000).
19. Ager, A.A. 2001. "An overview of landscape simulation tools to study interactions between forest management, disturbance and succession". *Annual Meeting of Western Forest Economists*, in Welches, OR (5/8/2001).
20. Ager, A.A., H.K. Preisler, D.R. Brillinger, B.K. Johnson, and J.G. Kie. 2001. "Foraging and movement dynamics of elk and deer on a large landscape". *International Conference on Forest Dynamics and Ungulate Herbivory*, in Davos, Switzerland (10/3-10/6/2001).
21. Ager, A.A., H.K. Preisler, D.R. Brillinger, B.K. Johnson, and J.G. Kie. 2001. "Crepuscular movement patterns of Rocky Mountain elk and mule deer in spring".
22. Clifton, C., A.A. Ager, D. Evans, J. Hallisey, M. Hemstrom, and E. Crowe. 2001. "Stream geomorphic classification, riparian area delineation, and riparian cover mapping". *5th Annual British Columbia-United States Forest Service Watershed Technical Exchange Conference: Linking Physical and Biological Processes*, in Port Hardy, British Columbia, Canada (5/14-5/16/2001).
23. Coe, P.K., B.K. Johnson, S.L. Findholt, A.A. Ager, T. DelCurto, J.G. Kie, and M.J. Wisdom. 2001. "Interactions of elk, mule deer, and cattle in spring, summer, and fall". *Western States and Provinces Deer and Elk Workshop*, in Wilsonville, OR (8/1-8/4/2001).

24. Johnson, B.K., A.A. Ager, M. Vavra, and P. Coe. 2001. "Application of multi-species stocking allocation models to study herbivory in the interior West, USA". *International Conference on Forest Dynamics and Ungulate Herbivory*, in Davos, Switzerland (10/3-10/6/2001).
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