

CURRICULUM VITAE

July, 2013

NAME: Chadwick Dearing Oliver

TITLE: Pinchot Professor of Forestry and Environmental Studies, and
Director, Global Institute of Sustainable Forestry

ADDRESS: School of Forestry and Environmental Studies
Yale University
Kroon Hall, 195 Prospect Street
New Haven, CT 06511

Tel: (203) 432 – 7409

Cell: (203) 494 - 1178

e-mail: chad.oliver@yale.edu

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C. D. Oliver

EDUCATION

- Ph.D. 1975 Yale University Graduate School, Department of Forestry and Environmental Studies, New Haven, Connecticut. Doctoral Dissertation. The Development of Northern Red Oak (*Quercus rubra*) L.) in Mixed Species, Even-aged Stands in Central New England.
- M.F.S. 1970 Yale University School of Forestry, New Haven, Connecticut. Major emphasis on soils and other earth and natural sciences.
- B.S. 1968 University of the South, Sewanee, Tennessee, in Forestry (Honors)

OTHER RECOGNITION

- Honorary Doctorate of Sciences, 2002, University of the South, Sewanee, Tennessee
- Honorary Professor of the National Agricultural University of Ukraine, 2006, Kiev, Ukraine
- Fellow of the Society of American Foresters, 2008
- Best Teacher of Small Class. 2009. Prize given by students at Yale University School of Forestry and Environmental Studies
- Sabin Prize Recipient (with Zachary Parisa and Max Uhlenhuth). 2010. Prize at Yale University for best environmental entrepreneur project.

POSITIONS HELD

- January 1, 2002 to present: Pinchot Professor of Forestry and Environmental Studies, and Director, Global Institute of Sustainable Forestry, Yale University School of Forestry and Environmental Studies, New Haven, Connecticut. Direct global program on sustainable forestry, teach graduate courses, conduct research, advise graduate students.
- 1986-December 31, 2001 Professor of Silviculture and Forest Ecology. College of Forest Resources, University of Washington, Seattle, Washington. Teach undergraduate and graduate courses; conduct research; advise graduate students.
- 1984-present Editorial Board member for silviculture for various time periods: *New Forests*, *Forest Science*, *Journal of Forestry*, *Canadian Journal of Forest Research*, and *Journal of Sustainable Forestry*.
- 1982-1983 Fulbright Senior Lecturer, Middle East Technical University, Ankara, Turkey. (Sabbatical year September 1-August 31). Taught undergraduate and graduate courses; conducted research; traveled to all forest regions and submitted reports at request of Turkish Minister of Agriculture and Forestry.
- 1983 (February-March) Fulbright Visitor to Germany. Visited forestry faculties at Universities of Munich, Gottingen, and Freiburg. Toured other forested areas and operations. Visited forests in Nancy, France, and Zurich, Switzerland.
- 1981-1986 Associate Professor, Silviculture and Forest Ecology.
- 1975-1981 Assistant Professor, Silviculture and Forest Ecology.
- 1974-1975 Instructor in Biology, Harvard University, Cambridge, Massachusetts. Taught graduate-undergraduate plant ecology course, advised undergraduate students.

C. D. Oliver

- 1973-1974 Research Fellow in Silviculture. Harvard Forest, Petersham, Massachusetts. - Conducted silvicultural research.
- 1969-1970 Forest Land Services Company, Camden, South Carolina. (June through August, 1969 and 1970; job description: independent research in soil-site relations.)
- 1967 University of Vermont, Department of Forestry, Burlington, Vermont. (June through August; job description: research assistant.)
- 1966 U.S. Forest Service, Southern Hardwoods Laboratory, Stoneville, Mississippi. (June through August; job description: research assistant.)
- 1965 U.S. Forest Service, Tahoe National Forest, California. (June through August; job description: forest fire control and forest maintenance.)
- 1960-1968 Forest Land Services Company (my father's consulting and land managing company), Camden, South Carolina. (Job descriptions: physical labor on TSI, planting, surveying crews; pulpwood and sawtimber marking, timber cruising; surveying; and other woods operations.)

Statement of Research Interests:

I have been associated with the practice of forestry for as long as I can remember and deliberately sought a wide breadth of geographical experience and education in forestry. I have been successful working with field foresters and other resource managers on applied and basic problems in many regions of the United States and in temperate and tropical resources abroad. I hope to continue these efforts.

Much of my early research effort was concentrated on understanding how forest stands develop and respond to manipulations (silviculture and forest ecology). I continue research in this subject throughout the temperate and tropical world. I have written and updated a book (with an coauthor) on this subject (*Forest Stand Dynamics*, 1990, 1996).

Activities with management and policy groups then led me to examine forestry at the landscape and broader scales, as well. A gap has been developing for several decades between the disciplines of silviculture on the one hand and forest policy and economics on the other. Many of my recent activities have been to bridge this gap with the use of emerging technologies. I have initiated, managed, and am overseeing development of computerized tools that allow planning, management, and visualization of many forest uses over scales of up to tens of thousands of acres and many decades. The uses include timber, wildlife habitats, carbon sequestration, fire protection.

These activities then led to my involvement with forest policy, at the regional, national, and international levels. I have testified many times in United States Congressional and Senate hearings and in President Clinton's Forest Summit, and have Chaired or been a member of Congressional report committees and worked on international committees. I have worked in interdisciplinary groups with policy makers, economists, engineers, loggers, local communities, ecologists, wildlife specialists, wood products specialists, large and small landowners, policy makers, and others.

I realize that, to be effective, forestry needs to include all features of the forest, not just timber. And, it needs to broaden to understand enough about urban, industrial, demographic, social, and other issues not traditionally studied. In addition, after 100 years of science becoming more specialized, I have concentrated on integrating scientific disciplines.

Also, many forestry issues are the result of non-forest resources changes, such as energy, agriculture, and water issues as well as demographic changes. And these changes have ramifications at the global scale. Consequently, I have been working with resource professionals on key issues in many parts of the world. I have also been gathering data and information on global resources and am currently writing a book on the subject.

After first-hand policy experience, I realize that all ecosystems, resources, and people need to be examined for understanding and management in a global context of tradeoffs among values and geographic locations. I have emphasized the concept of “sustainability” being both intergenerational and spatial equity; that is: “Each generation should provide and protect its ‘fair share’ of values.” I have been researching global information to determine global distributions of resources and their behavior.

Many of my efforts have been to enfranchise others to create a network of people working in a common direction. I have worked successfully both independently and as part of a team. Because of the nature of my research activities, I am equally comfortable and have dealt successfully with both large and small research budgets.

Outreach as a part of research; and I have organized, chaired, and published the proceedings of many symposia, forums, and workshops.

With the experiences and background described above, I realize that science is becoming proliferated with publications that are often overlapping or repetitive. And, many organizations are inaccurately speaking with the pretense of scientific authority. Consequently, it often takes decades for a new scientific idea to gain acceptance. I am now trying to address scientific issues that make a difference in the way we think and behave, and am seeking ways to reduce the lag time before such ideas gain acceptance.

Statement of Teaching Interests:

Teaching an integral part of research, since it demands synthesis and expanding of ideas. I try to learn continuously through research and discussions with thoughtful people—practitioners, students, and scientists. And, I continuously integrate what I have learned into my teaching. I have sought to maintain teaching experiences on many levels. I presently teach in the classroom, laboratory, and field to graduate and mid career students, in large and small classes and to native- and non-native-English speaking students.

My teaching interests are synergistic with my research interests. I have tried to integrate many sciences to avoid the historical trend toward academic specialization. My teaching concentrates on giving students the basic knowledge, the skills to enable them to update this knowledge as a lifelong process, and the leadership skills to apply this knowledge. More important than just giving students “facts” and “techniques” is to give students a “way of thinking” relative to a given subject, so they can continue learning long after the course is finished. Consequently, I find students gain as much out of my courses as the efforts they put into them.

“Global Resources and the Environment” gives graduate students a global understanding of the many aspects, behaviors and interactions of the environment and resources throughout the world—climate, landforms, water, biodiversity, people, forests, agriculture, energy, and consumption. The course gives a holistic, integrated perspective and how the factors change with time. It also emphasizes how to access and utilize information on global resources and how to distinguish sound information from unsound. It integrates global data and an understanding of the processes behind the data.

“Managing Resources” gives graduate students an understanding of the many tools and techniques used in resource management through lectures and exercises. The tools and techniques include annual and multi-year “windows of opportunity,” seasonal considerations, calculating sustainability, inventory methods, projection methods, developing and tracking project timelines and budgets, tradeoff analyses, understanding costs & depreciation, continuous quality improvement, adaptive management, and others. . Specific resources covered in the course are landforms, water (flooding, irrigation, flow, fisheries), people (age, culture, education, etc.), infrastructure (transportation, land ownerships, etc.), wildlife, grazing & agriculture, timber, biodiversity, hazard protection, recreation, and urban/rural interface.

“Seminar in Environmental and Natural Resource Leadership” gives graduate students a good grasp of issues that they will face as they move into leadership positions. A leadership position is where a person is responsible for outcomes but needs the help of others to accomplish them. By having this grasp, and how to deal with the issues, the student will be able to make the transition to leadership more smoothly. The course includes field trips to New York City and Washington, D.C., to visit financial, foundation, government, ENGO, and private industry leaders. Course material covers transactional VS transformational leaders; mental models; communicating; decision analysis; strategic planning (core competencies, segmenting, strategic allies); organizations; addressing conflict, personalities, cultures; groupthink; “ball-park figures;” time lines & budgeting; dealing with mistakes; firing & laying off people; motivating people; keeping and organization moving; transitioning; sunseting.

I teach my early specialty in Forest Stand Dynamics as mid-career courses; however, it is extremely well covered as a graduate course by Professor Ann Camp.

I also coordinate and teach mid-career Executive Courses in Forestry, covering many of the current issues but keeping them in context of the scientific realities and resource limitations. The courses are intended for industry, policy, ENGO, and financial personnel, so that all groups can engage in an informed level of discourse at future encounters.

GOVERNMENT POLICY AND SCIENTIFIC ACTIVITIES

1989-1990 Member of Washington State Department of Natural Resources Experimental State Forest Local Advisory Team

1990-1991 Advisor to Washington State Governor’s Timber Team

1990 Member, Silviculture Subcommittee to assess opportunities for managing habitat for spotted owls. Interagency Scientific Committee for the Spotted Owl.

1991 Chair, Washington State Working Subgroup of the Silviculture Subcommittee, Spotted Owl Recovery Team, Fish and Wildlife Service, U.S.Department of Interior.

1992-present Oral and written testimony on forest policy issues at U.S.Congression and Senate Subcommittee hearing (specific written testimonies listed later).

1992 Presentation to Washington State Timber Counties annual meeting.

1992-1993 Organized three symposia on landscape management for policy, landowner, and professional audience.

1992-1993 Mamber of Eastern Washington and Oregon Ecosystem Health Assessment Team (Through U.S.Forest Service, at request of U.S.Congress and Senate)

- 1992-1995 Presentations to U.S.Senate and Congressional staffs, governors, citizen groups, and the press regarding forest landscape management and forest health. (Washington, Oregon, Idaho, Canada, Alaska, and Washington, D.C.)
- 1993 Panel Member to White House Committee to Assess Carbon Reduction Measures for the Global Environment
- 1993 Scientific Panel Member, President Clinton's Forest Conference. Gave oral statement (and written follow-up). Portland, Oregon. April 2, 1993.
- 1993-present Presentations at regional and national symposia in the United States and Canada.
- 1993-1994 Inland West Forest Health Assessment Panel, Chair of Silviculture Report Group (Sponsored by American Forest and the University of Idaho)
- 1993-1995 Member of Timber Advisory Committee for Senator Slade Gorton
- 1994-1995 Member of eastern Washington and Oregon forest ecosystem recovery team (U.S.Forest Service)
- 1994-1995 Member of Team to Assess Policies for incentives for providing habitat and other values on private lands (Washington Forest Policy Institute)
- 1994-1995 Member of founding advisory team for Olympic Forestry Training Center (to train equipment operators to using high-tech thinning equipment)
- 1994-1995 Member of Team to develop Habitat Conservation Plan for Plum Creek Timber Lands in Washington state.
- 1995 Oral and written testimony on incentives for private landowners at Washington State Senate hearing, February 14, 1995.
- 1994-1996 Member of various forest science panels to advise U.S. Senators and Congressional Representatives.
- 1995-1996. Member of science team to analyze North America's forest resources, management, and opportunities for environmental cooperation, North American Commission for Environmental Cooperation, Montreal, Canada.
- 1995-1996. Lead author of scientific paper for Ecological Stewardship Workshop and subsequent publication. U.S.D.A. Forest Service.
- 1996-1997. Chair of Forest Health Science Panel chartered by U.S. Congressman Charles Taylor. Presented reports to U.S.Congress joint Agriculture and Resources Committees.
- 1996-1998. Member of U.S. Senate Scientific Panel to examine California Spotted Owl Revised E.I.S.
- 1996-1999. Member Society of American Foresters Special Committee to examine revisions to National Forest Management Act.
1999. Participation (by invitation) in a workshop held by the National Research Council's Committee on National Capacity in Forestry Research, Washington D.C. July 15-16, 1999.

1996 & 1999. Presentations to the State of Oregon Board of Forestry on the Biological and Management Science basis for the Oregon Department of Forestry's "Structure-based Management" (based on my Landscape Management approach).

1999-2000. Co-founder of Rural Technology Initiative (and Institute) using U.S. appropriations to bring innovative technologies to rural Washington forestry communities.

2006-2009. Member, ad hoc committee for Connecticut State Legislator, on Parks and Forests.

2006-2012 Chair of ad hoc international committee to address the Fire Danger in the Irradiated Forests of the Chernobyl Exclusion Zone, Ukraine.

2008. "Presentation at a Hearing on Landscape Forest Management in Connecticut" to the Connecticut State Legislature, Committee on Forests (or Natural Resources), Hartford, Connecticut. March 3, 2008.

CONSULTING

1985-present: Consulted for compensation for various public and private organizations in the United States and abroad.

GEOGRAPHIC EXPERIENCE

Professional experience in:

--Most regions of the United States, including the Northeast, Southeast and Midsouth (pine and hardwood forests), Southwest, Inland West, Pacific Coast, and Interior and Southeast Alaska.

--Canada and Mexico

--Ecuador (Andes and Amazon rainforest)

--Nepal

--Thailand

--Japan

--Turkey

--Sweden and Finland

--Germany

--France

--Russia

--India

--Austria

--China

--Australia

--Ukraine

--Panama

--China

--Armenia

--South Korea

--Brazil

--Liberia

--Bhutan

--Chile

Advisory Board member:

Tropical Forest Foundation (Executive Committee of Board of Directors)

PUBLICATIONS (Other papers are in preparation or review. Published abstracts not listed .)

Refereed Journal Articles

1. Oliver, C.D. and E.P. Stephens. 1977. Reconstruction of a mixed species forest in central New England. *Ecology* 58:562-572.
2. Oliver, C.D. 1978. The development of northern red oak in mixed stands in central New England. *Yale University School of Forestry and Environmental Studies Bulletin No. 91*. 63 pp.
3. Oliver, C.D. 1978. Subsurface geologic formations and site variation in upper sand hills of South Carolina. *Journal of Forestry* 76(6):352-354.
4. Wierman, C.A. and C.D. Oliver. 1979. Crown stratification by species in even-aged mixed stands of Douglas-fir/western hemlock. *Canadian Journal of Forest Research* 9(1):1-9.
5. Oliver, C.D. 1980. Even-aged development of mixed species stands. *Journal of Forestry* 78(4): 201-203.
6. Oliver, C.D. 1981. Forest development in North America following major disturbances. *Journal of Forest Ecology and Management* 3. (1980-81) 153-168.
7. Oliver, C.D. and Marshall D. Murray. 1983. Stand structure, thinning prescriptions, and density indexes in a Douglas-fir thinning study, western Washington, U.S.A. *Canadian Journal of Forest Research* 13(1). 126-136.
8. Jaeck, L.L., C.D. Oliver, and Dean S. DeBell. 1984. Young stand development in coastal western hemlock as influenced by three harvesting regimes. *Forest Science* 30(1).117-124.
9. Oliver, C.D., A. B. Adams, and R. J. Zasoski. 1985. Disturbance Patterns and Forest Development in a recently deglaciated valley in the Northwestern Cascade Mountains of Washington, U.S.A. *Canadian Journal of Forest Research* 15(1):221-232.
10. Pezeshki, S.R. and C.D. Oliver. 1985. Early growth patterns of red alder and black cottonwood. *Forest Science* 31(1):190-200.
11. Oliver, C. D. 1986. Silviculture: A national overview. *Journal of Forestry*. 84(4). 32-42.
12. Tappeiner, J., W. Knapp, C. Wierman, W. Atkinson, C. Oliver and J. King. 1986. Silviculture: Part II. The Pacific Coast. *Journal of Forestry*. 84(5). 37-46.
13. Clatterbuck, W. K., C. D. Oliver, and E. C. Burkhardt. 1987. The silvicultural potential of mixed stands of cherrybark oak and American Sycamore: Spacing is the key. *Southern Journal of Applied Forestry*. 11:159-160.
14. McFadden, G. and C. D. Oliver. 1988. Three-dimensional forest growth model relating tree size, tree number, and stand age: relation to previous growth models and to self thinning. *Forest Science* 34(3):662-676.
15. O'Hara, K. L. and C. D. Oliver. 1988. Three-dimensional representation of Douglas-fir volume growth: comparison of growth and yield models with stand data. *Forest Science*. 34(3):724-743.
16. Oliver, C. D., W. K. Clatterbuck and E. C. Burkhardt. 1989. Spacing and stratification patterns of cherrybark oak and American sycamore in mixed, even-aged stands in the southeastern United States. *Forest Ecology and Management* 31:67-79.
17. O'Hara, K. L., C. D. Oliver, S. G. Pickford and J. J. Townsley. 1990. A prototype decision rule base for planning and anticipating effects of silvicultural activities over broad areas. *AI Applications in Natural Resources*. 4(1):25-34.
18. Deal, R. L., C. D. Oliver and B. T. Bormann. 1991. Reconstruction of mixed hemlock-spruce stands in coastal southeast Alaska. *Canadian Journal of Forest Research* 21:643-654.

19. Kershaw, Jr., J. A., C. D. Oliver and T. M. Hinckley. 1993. Effect of harvest of old growth Douglas-fir stands and subsequent management on carbon dioxide levels in the atmosphere. *Journal of Sustainable Forestry*: 1:61-77.
20. Cobb, D.F., K.L. O'Hara, and C.D. Oliver. 1993. Effects of variations in stand structure on development of mixed-species stands in eastern Washington. *Canadian Journal of Forest Research* 23: 545-552.
21. Lippke, B., and C.D. Oliver. 1993. A proposal for the Pacific Northwest: Managing for Multiple Values. *Journal of Forestry*. 91: 14-18.
22. Oliver, C.D., D.E. Ferguson, A.E. Harvey, H.S. Malany, J.M. Mandzak, and R.W. Mutch. 1994. Managing ecosystems for forest health: an approach and the effects on uses and values. *Journal of Sustainable Forestry* 2(1/2): 113-133. (Also published as chapter in book entitled: *Assessing Forest Ecosystem Health in the Inland West*)
23. Oliver, C.D., C. Harrington, M.Bickford, R. Gara, W. Knapp, G. Lightner, and L.Hicks. 1994. Maintaining and creating old growth structural features in previously disturbed stands typical of the eastern Washington Cascade. *Journal of Sustainable Forestry* 2(3/4): 353-387. (Also published as chapter in book entitled: *Assessing Forest Ecosystem Health in the Inland West*)
24. Segura, G., T.M.Hinckley, and C.D.Oliver. 1995. Stem growth responses of declining mature *Abies amabilis* trees after tephra deposition from Mount St. Helens. *Canadian Journal of Forest Research* 25, 9: 1493-1502.
25. Camp, A., C. Oliver, P. Hessburg, and R. Everett. 1997. Predicting late-successional fire refugia pre-dating European settlement in the Wenatchee Mountains. *Forest Ecology and Management* 95: 63-77.
26. Oliver, C.D., A.Camp, and A.Osawa. 1998. Forest dynamics and resulting animal and plant population changes at the stand and landscape levels. *Journal of Sustainable Forestry* 6(3/4) 1998: 281-312.
27. McCarter, J.M., J.S. Wilson, P.J. Baker, J.L. Moffett, and C.D. Oliver. 1998. Landscape management through integration of existing tools and emerging technologies. *Journal of Forestry* 96(6): 17-23.
28. O'Hara, K.L., and C. D. Oliver. 1999. A decision system for assessing stand differentiation potential and prioritizing precommercial thinning treatments. *Western Journal of Applied Forestry* 14(1): 7-13.
29. Makela, A., J. Landsberg, A.R. Ek, T.E. Burk, M. Ter-Mikaelian, G.I. Agren, C.D. Oliver, and P. Puttonen. 2000. Process-based models for forest ecosystem management: current state-of-the-art and challenges for practical implementation. *Tree Physiology* (Special issue). (In Press.)
30. Wilson, J.S., and C.D.Oliver. 2000. Stability and density management in Douglas-fir plantations. *Canadian Journal of Forest Research* 30: 910-920.
31. Paun, D., C. Jacobs-Young, O. Trendel, K. Howard, E. Sonne, K. Ceder, C. Crump, and C.D. Oliver. 2000. A Financial Performance Review of North American Pulp, Paper, and Packaging Firms. *TAPPI Journal* 83 (7) July: 32-39.
32. Marzluff, J.M., J.J. Millsbaugh, K. Ceder, C.D. Oliver, J. Withey, J.B. McCarter, C.L. Mason, and J. Comnick. 2001. Modeling changes in wildlife habitat and economic return in response to timber management at the landscape scale. *Forest Science* **48(2)**: pp. 191-202.
33. Oliver, C.D. 2003. Sustainable forestry: What is it? How do we achieve it? *Journal of Forestry* 101 (5): 8-14.

34. Baker, P.J., S. Bunyavejchewin, C.D. Oliver, and P.S. Ashton. 2005. Disturbance history and historical stand dynamics of a seasonal tropical forest in western Thailand. *Ecological Monographs* 75 (3): 317-343..
35. Oliver, C.D, E.C. Burkhardt, and D.A. Skojac. 2005. The increasing scarcity of red oaks in Mississippi River floodplain forests: influence of the residual overstory. *Forest Ecology and Management* 210: 393-414.
36. Oliver, C.D., and R. Roger Mesznik. 2005. Investing in Forestry: Opportunities and Pitfalls of Intensive Plantations and Other Alternatives. *Journal of Sustainable Forestry* 21 (4): 97 - 111. Also published in a book: Price, W.C., N. Rana, and V. A. Sample, editors. 2005. *Plantations and protected areas in sustainable forestry*. Pp. 97 – 111.
37. Oliver, C.D., and Robert. L. Deal. 2007. A Working Definition of Sustainable Forestry and Means of Achieving It at Different Spatial Scales. *Journal of Sustainable Forestry* 24: 2/3: 141 - 263. Also published as a book through Haworth Press.
38. Gartland, K.M.A., and C.D. Oliver. 2006. Growing trees: risks and rewards for society. (opinion piece) *Tree Genetics and Genomes* (In press).
39. Piotto, D., F. Montagnini, W. Thomas, M. Ashton, and C.Oliver. 2009. Forest recovery after swidden cultivation across a 40-year chronosequence in the Atlantic forest of southern Bahia, Brazil. *Plant Ecology*. (Springer Verlag, published online 15 May 2009)
40. Wang, T., J. Wu, X. Kou, C. Oliver, P. Mou, and J. Ge. 2010. Ecologically asynchronous agricultural practice erodes sustainability of the Loess Plateau of China. *Ecological Applications* 20 (4): 1126-1135.
41. Niccolai, A., A. Hohl, M. Niccolai, and C. D. Oliver. 2010. Integration of varying spatial, spectral and temporal high-resolution optical images for individual tree crown isolation. *International Journal of Remote Sensing* Volume 31, Issue 19, 2010 Pages 5061 - 5088
42. Niccolai, A. , A. Hohl, M. Niccolai, and C.D. Oliver. 2010. Decision rule based approach to automatic tree crown detection and size classification. *International Journal of Remote Sensing* 31 , pp. 3089-3123.
43. Niccolai, A., M. Niccolai, and C. D. Oliver. 2010. Point Set Topology for Branch and Crown-level Species Classification. *Photogrammetric Engineering & Remote Sensing*. *Journal of the American Society for Photogrammetry and Remote Sensing*.
44. Hohl, Aaron, Andrew Niccolai, Chad Oliver, Dmytro Melnychuk, Sergiy Zibtsev, Johann Georg Goldammer, Volodymyr Gulidov. 2011. *The Human Health Effects of Radioactive Smoke from a Catastrophic Wildfire in the Chernobyl Exclusion Zone: A Worst Case Scenario*. *Earth Bioresources and Quality of Life*. Vol. 1, pg. 1. <http://gchera-ejournal.nubip.edu.ua/index.php/ebql/article/view/24>

Books

- a. Oliver, C.D. and B. C. Larson. 1990. *Forest Stand Dynamics*. McGraw-Hill Book Company, New York. 467 pp.
- b. Oliver, C.D., and B.C. Larson. 1996. *Forest Stand Dynamics*. Update Edition. John Wiley and Sons, New York. 521 pp.

Editor of Symposia

45. Oliver, C.D. and R.M. Kenady (Editors). 1983. Biology and management of true firs of the Pacific Northwest. (Proceedings of a Symposium co-sponsored by University of Washington College of Forest Resources, Institute of Forest Research; and U.S.D.A. Forest Service Pacific Northwest Forest and Range Experiment Station.) University of Washington College of Forest Resources, Institute of Forest Resources. Contribution Number 45.
46. Oliver, C. D., D. Hanley, and J. Johnson (Editors). 1986. Douglas-fir: Stand Management for the Future. (Proceedings of a Symposium). University of Washington College of Forest Resources, Institute of Forest Resources, Contribution No. 55. 388 pp.
47. Hanley, D. P., J. J. Kammenga and C. D. Oliver (Editors). 1989. The Burning Decision: Regional Perspectives on Slash. College of Forest Resources, University of Washington, Institute of Forest Resources Contribution No. 66, 374 pp.
48. Kelty, M.J., B. C. Larson and C. D. Oliver (editors) 1992. The Ecology and Silviculture of Mixed-Species Forests: A Festschrift for David M. Smith. Kluwer Academic Publishers, Boston.
49. Hanley, D.P., C.D.Oliver, D.Maguire, and R.Fight (editors). 1995. Pruning Conifers in Northwestern North America: Opportunities, Techniques, and Impacts. University of Washington, Institute of Forest Resources Contribution No.77. 403 pp.

Refereed Symposia Articles and Book Chapters

50. Oliver, C.D. 1978. Growth response of suppressed hemlocks after release. *In: Western Hemlock Management*. University of Washington College of Forest Resources, Institute of Forest Products Contribution No. 34:266-272.
51. Stubblefield, G.W. and C.D. Oliver. 1978. Silvicultural implications of the reconstruction of mixed alder/conifer stands. *In: Utilization and Management of Alder*. USDA Forest Service General Technical Report PNW-70:307-320.
52. Oliver, C.D. 1982. Forest stand development--its uses and methods of study. *In: (J. E. Means, editor) Forest succession and stand development research in the Northwest*. (Proceedings of a Symposium) Published by Forest Research Laboratory, Oregon State University, Corvallis. 100-112.
53. Packee, C.D. Oliver, and P.D. Crawford. 1983. Ecological characteristics of Pacific silver fir. *In: (C. D. Oliver and R. M. Kenady, editors) Biology and management in true firs in the Pacific Northwest*. (Proceedings of a Symposium co-sponsored by University of Washington College of Forest Resources, Institute of Forest Research; and U.S.D.A Forest Service Pacific Northwest Forest and Range Experiment Station.) University of Washington College of Forest Resources, Institute of Forest Resources Contribution Number 45. 19-34.
54. Gessel, S.P. and C.D. Oliver. 1983. Soil-site relationships and productivity of true firs. (C. D. Oliver and R. M. Kenady, editors) *In: Biology and management of true firs of the Pacific Northwest*. (Proceedings of a Symposium co-sponsored by University of Washington College of Forest Resources, Institute of Forest Research; and U.S.D.A. Forest Service Pacific Northwest Forest and Range Experiment Station.) University of Washington College of Forest Resources, Institute of Forest Resources Contribution Number 45. 177-184.
55. Oliver, C. D., W. Michalec, L. DuVall, C. Wierman, and H. Oswald. 1986. The silvicultural costs of growing Douglas-fir of various wood properties. *In: Douglas-fir: Stand Management*

- for the Future. (Proceedings of a Symposium). University of Washington College of Forest Resources, Institute of Forest Resources Contribution No. 55:137-142.
56. Oliver, C. D., G. McFadden, K. O'Hara, and I. Nagame. 1986. Concepts of thinning regimes. *In: Douglas-fir: Stand Management for the Future. (Proceedings of a Symposium).* University of Washington College of Forest Resources, Institute of Forest Resources Contribution No. 55:246-257.
 57. Oliver, C. D. 1986. Silviculture and juvenile wood. *In: Juvenile Wood: Proceedings 47309.* 29-34. Forest Products Research Society.
 58. Oliver, C. D. 1987. Forests and Forestry. (Subject description IN) American Academic Encyclopedia. Grolier Inc., Danbury, Connecticut. (In press).
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