

**APPENDIX C****Publications and Presentations****CORRIM RELATED PUBLICATIONS - Since Completion of the Phase 1 Research Plan**

- Anonymous. 2006. Environmentally Preferable Product (EPP) Spec Gets Greener; LCA Research Underway. SecondWave--The New Generation of Composite Panel Products, Vol. XVIII, p12.
- Wilson, J. 2006. Use of Wood Products to Reduce Global Warming. Chapter 7. In: Forest, Carbon and Climate Change. Oregon Forest Resources Institute. Portland, OR. (forthcoming)
- Lippke, B. and J. L. Bowyer. 2006. Environmental Life Cycle Analysis of Alternative Building Materials. In: Handbook of Environmentally Conscious Materials and Chemical Processing. New York: John Wiley & Sons, Inc. (forthcoming)
- Lippke, Bruce, Lucy Edmonds. 2006(accepted). Environmental Performance Improvement in Residential Construction: the impact of products, biofuels and processes (a Phase 2 research module). Forest Products Journal (forthcoming).
- Bowyer, J., J. Howe, and K. Fernholz. 2006. Biomass Energy. From Farms Forests an Emerging Opportunity for Rural America. Dovetail Partners, Inc., Mar. 23. (<http://www.dovetailinc.org/DovetailBioenergy0306.html>)
- Lippke Bruce. 2006. Building Materials and Climate Change: The Unseen Connection. California Forests (California Forestry Ass.), Sacramento, CA. Winter 2006. Vol. 10 No. 1. p12-13.

**CORRIM's special issue of Wood and Fiber Science:**

- Wilson, J. 2005. Editorial. Wood Fiber Sci. Vol 37 Dec. 2005: p1-2.
- Perez-Garcia, J., B. Lippke, D. Briggs, J. Wilson, J. Bowyer, and J. Meil. 2005. The Environmental Performance of Renewable Building Materials in the Context of Residential Construction. Wood Fiber Sci. Vol 37 Dec. 2005: p3-17.
- Puettmann, M. and J. Wilson. 2005. Life-Cycle Analysis of Wood Products: Cradle-to-gate LCI of Residential Building Materials. Wood Fiber Sci. Vol 37 Dec. 2005: p18-29.
- Johnson, L., B. Lippke, J. Marshall, and J. Cornick. 2005. Life-Cycle Impacts of Forest Resource Activities in the Pacific Northwest and the Southeast United States. Wood Fiber Sci. 37 Dec. 2005: p30-46
- Milota, M., C. West, and I. Hartley. 2005. Gate-to-gate Life-Cycle Inventory of Softwood Lumber Production. Wood Fiber Sci. Vol 37 Dec. 2005: p47-57.
- Wilson, J. and E. Sakimoto. 2005. Gate-to-gate Life-Cycle Inventory of Softwood Plywood Production. Wood Fiber Sci. Vol 37 Dec. 2005: p58-73.
- Kline, D. 2005. Gate-to-gate Life-Cycle Inventory of Oriented Strand Board Production. Wood Fiber Sci. Vol 37 Dec. 2005: p74-84.
- Wilson, J. and E. Dancer. 2005. Gate-to-gate Life-Cycle Inventory of I-joist Production. Wood Fiber Sci. Vol 37 Dec. 2005: p85-98.
- Puettmann, M. and J. Wilson. 2005. Gate-to-gate Life-Cycle Inventory of Glued Laminated Timber Production. Wood Fiber Sci. Vol 37 Dec. 2005: p99-113.
- Wilson, J. and E. Dancer. 2005. Gate-to-gate Life-Cycle Inventory of Laminated Veneer Lumber Production. Wood Fiber Sci. Vol 37. Dec. 2005: p114-127.
- Winistorfer, P., Z. Chen, B. Lippke, and N. Stevens. 2005. Energy Consumption and Greenhouse Gas Emissions Related to the Use, Maintenance and Disposal of a Residential Structure. Wood Fiber Sci. 37 Dec. 2005: p128-139
- Perez-Garcia, J., B. Lippke, J. Cornick, and C. Manriquez. 2005. An Assessment of Carbon Pools, Storage, and Wood Products Market Substitution Using Life-Cycle Analysis Results. Wood Fiber Sci. 37 Dec. 2005: p140-148
- Lippke, B., J. Cornick, and L. Johnson. 2005. Environmental Performance Index for the Forest. Wood Fiber Sci. 37 Dec. 2005: p149-155
- Edmonds, Lucy, Bruce Lippke. 2005. Reducing Environmental Consequences of Residential Construction through Product Selection and Design. Wood Design Focus, A Journal of Contemporary Wood Engineering. Fall 05 Vol. 15, No. 3: p.3-5.

- Lippke, Bruce. 2005. Wood as an Environmental Resources. Summary of a Yale Forest Forum and Workshop. Yale Global Institute for Sustainable Forestry Vol. 8 No. 2. Pp 16-18.
- Bowyer, J., J. Howe, K. Fernholz, and P. Guillery. 2005. Life Cycle Analysis: A Key to Better Environmental Decisions <<http://www.dovetailinc.org/documents/DovetailLCA0105.pdf>> . Dovetail Partners, Inc., Jan. 18.
- Price-Robinson, C. 2004. CORRIM UPDATE: New Research Provides More Proof of the Environmental Merits of Wood Products. Engineered Wood Journal. Vol. 7, No. 2, Fall 2004
- Bowyer, J., D. Briggs, B. Lippke, J. Perez-Garcia, J. Wilson. 2004. Life Cycle Environmental Performance of Renewable Materials in Context of Residential Building Construction: Phase I Research Report. Consortium for Research on Renewable Industrial Materials, CORRIM Inc. Seattle WA. [www.corrim.org/reports/phase1/](http://www.corrim.org/reports/phase1/) 60pp +15 chapter modules of approximately 1300pp.

***Including Chapter Modules:***

- Johnson, L., B. Lippke, J. Marshall, J. Connick. Module A - Forest Resources: Pacific Northwest and Southeast. 67pp
- M. R. Milota. Module B - Softwood Lumber - Pacific Northwest Region. pp106.
- Milota, M. R., C. D. West and I. D. Hartley. Module C - Softwood Lumber - Southeast Region. pp81.
- Wilson, J. B. and E. T. Sakimoto. Module D - Softwood Plywood Manufacturing. 96pp.
- D. Earl Kline. Module E - Southeastern Oriented Strandboard Production. 84pp.
- Wilson, J. B. and E. R. Dancer. Module F: Composite I-Joists - Pacific Northwest and Southeast. 131pp.
- Puettmann, M. E. and J. B. Wilson. Module G - Glued Laminated Beams – Pacific Northwest and Southeast. 95pp.
- Wilson, J. B., E. R. Dancer, M. Puettmann, E. Sakimoto. Module H - Laminated Veneer Lumber – Pacific Northwest and Southeast. 92pp.
- Kensal, B. and P. Huelman. Module I - Design of Residential Building Shells - Minneapolis and Atlanta. 55pp.
- Meil, J., J. Bowyer, B. Lippke, J. Perez-Garcia, J. Wilson. Module J - Environmental Impacts of a Single Family Building Shell from Harvest to Construction. 38pp.
- Winistorfer, P, Z. Chen, B. Lippke, N. Stevens. Modules K, L & M (integrated) - Energy Consumption and Greenhouse Gas Emissions Related To The Use, Maintenance And Disposal Of A Residential Structure. 33pp.
- Manriquez, C., J. Perez-Garcia, B. Lippke, J. Connick. Module N – Tracking Carbon from Sequestration in the Forest to Wood Products and Substitution. 32pp.
- Lippke, B., and J. Connick. Module O – Environmental Index for the Forest. 19pp.

Lippke, B., J. Wilson, J. Bowyer, J. Perez-Garcia, J. Bowyer, J. Meil, 2004. CORRIM: Life Cycle Environmental Performance of Renewable Building Materials. Forest Products Journal. June 2004. 54(6): 8-19.

**Prepared Fact Sheets: [WWW.corrim.org](http://WWW.corrim.org)**

CORRIM FS1: Consortium for Research on Renewable Industrial Materials

CORRIM FS2: Report on Environmental Performance Measures for Renewable Building Materials

CORRIM FS3: Role of Northwest Forests and Forest Management on Carbon Storage

CORRIM FS4: Reducing Environmental Consequences of Residential Construction through Product Selection and Design

### **Streaming Video:**

**Assessing Environmental Quality of Residential Construction using LCI & LCA: the role of processes, products and design.** Bruce Lippke, Professor and Director Rural Technology Initiative, College of Forest Resources, University of Washington, and President CORRIM  
<http://www.corrim.org/ppt/phase1/video/Default.htm>

**Residential Building Subassemblies and their Components: The Impact of Product Selection and Design on Fossil Fuel Consumption over a Life Cycle** (recorded November 10, 2005). Lucy Edmonds, College of Forest Resources, University of Washington  
[http://www.corrim.org/ppt/corrim\\_components/video/Default.htm#nopreload=1&autostart=0](http://www.corrim.org/ppt/corrim_components/video/Default.htm#nopreload=1&autostart=0)

**Denman Forest Issue Series: Effects of Global Change on Pacific Northwest Forests, March 17, 2005, University of Washington Television. Carbon Storage to Solve The Problem: From Forests to Products and Homes.** Bruce Lippke, Professor and Director, Rural Technology Initiative, College of Forest Resources, University of Washington and President of CORRIM  
<http://www.uwTV.org/programs/displayevent.asp?rid=2599>

### **CORRIM RELATED PUBLICATIONS – Leading up to the Phase 1 Research Plan**

- Bethel, J. and Bowyer, J. 1997. CORRIM - A Look Back and Consideration of the Future. Proceedings: "Environmental Implications of Wood as a Raw Material for Industrial Use." National Research Council, Board on Agriculture Conference, Irvine, CA, March 14-15. Washington, D.C.: National Academy Press, pp. 2-1 - 2-12. [Full text of this article available at [books.nap.edu/books/0309057450/html/17.html#pagetop](http://books.nap.edu/books/0309057450/html/17.html#pagetop)]
- Lippke, B., Briggs, D., Bowyer, J., and Wilson, J. 1997. CORRIM II Research Plan to Develop Environmental Performance Measures for Renewable Building Materials, with Alternatives for Improved Performance. Special Publication, Forest Products Society (November).
- Bowyer, J., Lippke, B., and Wilson, J. 1998. CORRIM II - Why it is Important to the Industry. Engineered Wood Journal, 1(1): 28-33. [Full text of a subsequent reprint of this article available at [www.housingzone.com/topics/ewj/cmaterials/ewj00fa025.asp](http://www.housingzone.com/topics/ewj/cmaterials/ewj00fa025.asp)]
- CORRIM 1998. Environmental Performance Research Priorities - Wood Products: Final Report on the research plan to develop environmental performance measures for renewable building materials with alternatives for improved performance. Consortium for Research on Renewable Industrial Materials (CORRIM INC.) DOE Agreement No. DE-FC07-96ID13427, Subcontract 417346.
- CORRIM 2001. Research Guidelines for Life Cycle Inventories. Consortium for Research on Renewable Industrial Materials (CORRIM INC.) Box 352100, Seattle WA.
- Bowyer, J., D. Briggs, L. Johnson, B. Kasal, B. Lippke, J. Meil, M. Milota, W. Trusty, C. West, J. Wilson, and P. Winistorfer. 2001. [CORRIM - a report of progress and a glimpse of the future](#). Forest Products Journal. 51(10):10-22.
- Bowyer, J., D. Briggs, B. Lippke, J. Perez-Garcia, and J. Wilson. 2002. Life Cycle Environmental Performance of Renewable Building Materials in the Context of Residential Building Construction. Phase I Interim Research Report on the Research Plan to Develop Environmental-Performance Measures for Renewable Building Materials with Alternatives for Improved Performance. Consortium for Research on Renewable Industrial Materials (CORRIM, Inc.), University of Washington, Seattle. [The full text of this publication is also available at [www.corrim.org/reports/phase1/](http://www.corrim.org/reports/phase1/)]

## CORRIM Website Statistics CY2005

### Unique Visitors: 14,546

- Average Visits per month: **1212**
- Number of Hits: **516,933** (29 hits per visit)
- Busiest Month: October; **1507** unique visitors

### Top Pages

- CORRIM Homepage: **5598** unique visitors  
<http://www.corrim.org>
- Reports: **4512** unique visitors  
<http://www.corrim.org/reports/index.asp>
- Phase I, Appendix F: **1939** unique visitors  
[http://www.corrim.org/reports/phase1/appends/append\\_f/index.asp](http://www.corrim.org/reports/phase1/appends/append_f/index.asp)
- CORRIM Presentations: **1475** unique visitors  
<http://www.corrim.org/ppt/index.asp>
- Phase I, Appendix D: **1298** unique visitors  
[http://www.corrim.org/reports/phase1/appends/append\\_d/index.asp](http://www.corrim.org/reports/phase1/appends/append_d/index.asp)
- CORRIM Article; Forest Products Journal; Sept. 2004: **1272** unique visitors  
[http://www.corrim.org/reports/pdfs/FPJ\\_Sept2004.pdf](http://www.corrim.org/reports/pdfs/FPJ_Sept2004.pdf)
- Phase I Report: **1003** unique visitors  
<http://www.corrim.org/reports/phase1/index.asp>
- Is Wood Good? (Secondary Release): **938** unique visitors  
<http://www.corrim.org/reports/pdfs/SecondaryRelease.pdf>
- Phase I, Appendix B: **871** unique visitors  
[http://www.corrim.org/reports/phase1/appends/append\\_b/index.asp](http://www.corrim.org/reports/phase1/appends/append_b/index.asp)
- CORRIM Partners: **825** unique visitors  
<http://www.corrim.org/partners/index.asp>

## CORRIM Presentations (incomplete list – additions requested)

- Wilson, J. Oregon State University. 2006. Wood as a Green Building Material. 4th Annual SUNY-ESF Green Building Conference. College of Environmental Science and Forestry. Syracuse, NY. May 16.
- Wilson, J. Oregon State University. 2006. Wood as a Green Building Material. Wood Fest—Architectural Design with Wood. World Forestry Center, Portland, OR. May 5.
- Puettmann, M.E. Oregon State University. 2006. Life cycle assessment of wood products. Wood Fest – Architectural Design with Wood. World Forestry Center, Portland, OR. May 5.
- Lippke, Bruce, U. of Washington. 2006. (1) Long lived products and mill biofuel vs. other bioenergy uses. (2) Invest in thinnings and carbon stored in products while you can to avoid costs from fires. Western Forest Economists Annual Meeting, Welches, OR, May 2 & 3, 2006.
- Bergman, Richard. Forest Products Laboratory, 2006. "Analyzing Hardwood Sawmills from Gate-to-Gate through a Life Cycle Inventory" University of Wisconsin - Department of Forest Ecology and Management. May 2.
- Wilson, J. Oregon State University. 2006. Using Wood to Reduce Global Warming. College of Forestry. Oregon State University, Corvallis, OR. April 5
- Lippke, Bruce, U. of Washington. 2006. Life Cycle Analysis of Renewable Materials: Pathway to Improved Environmental Performance. Virginia Tech. Blacksburg. April 3. 2006.
- Wilson, J. Oregon State University. 2006. Energy use in plywood manufacturing: a big target for cost savings. Plywood Manufacturing Course. Oregon State University, Corvallis, OR. April 3.
- Wilson, J. Oregon State University. 2006. Life cycle inventory of resins—status report. Technical Advisory Committee Meeting. Engineered Wood Technology Association. Portland, OR. March 23.
- Lippke, Bruce, U. of Washington. 2006. CORRIM research on carbon tracking, California Licensed Foresters Annual Meeting. Sacramento, CA. March 3, 2006.

- Lippke, Bruce, U. of Washington. 2006. Carbon sequestration: research and policy issues, Ag & Natural Resource Days – Extension Annual Meeting. Puyallup WA. Feb. 15, 2006.
- Lippke, Bruce, U. of Washington. 2006. CORRIM research on carbon tracking. California Forestry Association. Napa, CA. Feb. 2, 2006.
- Wilson, J. Oregon State University. 2005. Determining the Cost of Drying Lumber: the Role Energy Plays in This Cost. Lumber Drying Course. Oregon State University, Corvallis, OR. December 5.
- Puettmann, Maureen, Oregon State University. 2005. Life cycle assessment of wood products - a US Perspective. (1) Melbourne, (2) Sydney, (3) Brisbane, and (4) Canberra, Australia. Nov. 2005
- Wilson, J. Oregon State University. 2005. Leadership in Energy & Environmental Design (LEED) Update. Wood Moulding and Millwork Association, Summer Board Meeting, Vail, CO., Vail, CO. August 18.
- Lippke, Bruce, U. of Washington. 2005. CORRIM Phase I Research Findings. NCASI Advisory Board, Portland OR. July 13.
- Lippke, Bruce, U. of Washington. 2005. Environmental Performance via Product Selection & Bioenergy. Forest Products Society Annual Meeting, Quebec City CA, June. 22.
- Lippke, Bruce, U. of Washington. 2005. Fuel Reduction Strategies and New Bioenergy Opportunities: Carbon Accounting. Oregon State University: Corvallis OR, June 15.
- Wilson, Jim. Oregon State U. 2005. Plywood Manufacturing Short Course: CORRIM Findings. Corvallis, OR. June 05.
- Lippke, Bruce, U. of Washington. 2005. LCI/LCA methods in forestry. American Society for Quality. Seattle, May 18.
- Lippke, Bruce, U. of Washington. 2005. The importance of non-market values (poster). IUFRO Technology Transfer Conference: Tech Transfer Tools. Troutdale, OR, May 11-13.
- Lippke, Bruce, U. of Washington. 2005. Environmental Improvement via Product Selection. BC Architects Institute Annual Meeting, Vancouver BC. April 29.
- Kline, Earl, Virginia Tech. 2005. Purdue University: CORRIM Research guest lecture. West Lafayette IN. April 05.
- Lippke, Bruce, U. of Washington. 2005. Forest Treatments, Fire and Carbon. BLM - Fire and Fuels Workshop. Medford OR, April 25.
- Puettmann, Maureen, Oregon State U. 2005. West Coast Lumber Inspection Bureau Annual Meeting: CORRIM Research. Portland, OR. April 05.
- Lippke, Bruce, U. of Washington. 2005. Environmental Performance of Wood. Wood Technology Forum. Seattle, April 12, 05.
- Lippke, Bruce, U. of Washington. 2005. Green House Gas Conference: Forest Treatment Impacts on Fire and Carbon. Baltimore, MD. March 22-23, 05.
- Lippke, Bruce, U. of Washington. 2005 Denman Forest (TV) Series: Carbon & Climate Change. UW. March 17, 05.
- Wilson, J. Oregon State University, 2005. Wood as a Green Building Material: Life Cycle Assessment of Wood Use in Residential Construction. NAHB Green Building Conference, Atlanta, GA. March 15, 05.
- Lippke, Bruce, U. of Washington. 2005. CORRIM –Phase 1 LCI/LCA Research Results. Simpson Investment/Green Diamond: LCI/LCA –. Seattle, February 17.
- Lippke, Bruce, U. of Washington. 2005. CORRIM –Phase 1 Research Results. Environmental Performance of Wood from Cradle to Grave. Ecosystem Services Workshop & public presentation. Yale, New Haven CT,
- Wilson, Jim. Oregon State University. Lumber Drying Short Course: CORRIM Results. Corvallis, OR, Dec. 04.
- Wilson, Jim, Maureen Puettmann, Bruce Lippke. 2004. Society of Environmental Toxicology and Chemistry Annual Meeting, 3 papers on Life Cycle Assessment of Renewable Materials in Residential Construction. Portland, OR. Nov. 15, 2004,
- Puettmann, Maureen. Oregon State U. FPS Willamette Valley Chapter Meeting: CORRIM Research. Nov. 04.
- Lippke, Bruce, U. of Washington. 2004. CFR Alumni Showcase: Rural Technology Initiative. UW, Nov. 5, 2004.
- Lippke, Bruce, U. of Washington. 2004. UW Forum on Renewable Energy. Role of long-lived products vs. biofuel in the carbon equation. UW, Oct. 22, 2004

- Lippke, Bruce, U. of Washington. 2004. Olympic DNR Regional All Hands Meeting: Consortium for Research on Renewable Industrial Materials, Port Ludlow, Oct 21, 2004.
- Lippke, Bruce, U. of Washington. 2004. USFS, WDC: Wood Products Life Cycle Analysis. WDC, Sept 29, 04.
- Lippke, Bruce, U. of Washington. 2004. International Forest Products Marketing Conference, Environmental performance: how wood stacks up against steel and concrete. Seattle, Sept 27, 2004.
- Wilson, Jim, Oregon Statue U. 2004. The Engineered Wood Association Western Mangers Meeting: CORRIM Research, Canyonville OR, Sept. 04.
- McCarter, Jim, U. of Washington. 2004. Forestry Colleges Dean's Tour. CORRIM carbon tracking for forest managers. Olympia WA, August 04.
- Wilson, Jim, Maureen Puettmann, Bruce Lippke. Forest Products Society Annual Meeting, 3 presentations on Carbon dynamics vs. Carbon LCI steady state, Cradle to Gate Product LCIs, etc. Grand Rapids MI. June 28-30,
- Lippke, Bruce, U. of Washington. 2004. Weyerhaeuser technical forum, CORRIM Phase I Research Findings. Federal Way, May 24, 2004.
- Lippke, Bruce, U. of Washington. 2004. CORRIM: Life cycle analysis of renewable materials in residential construction Western Forest Economists annual meeting. Welches OR, May 3-5, 2004.
- Wilson, Jim, Oregon State U. 2004. Composite Panel Associate Spring Board Meeting, Tucson, AZ. May 2004.
- Lippke, Bruce, U. of Washington. 2004. Life Cycle environmental performance from using wood in residential construction. National Association of Environmental Professionals 29<sup>th</sup> Annual Meeting. Seattle, April 28, 2004.
- Lippke, Bruce, U. of Washington. 2003. Consortium for Research on Renewable Industrial Materials. Energy and Environmental Building Ass. (EEBA).Building Solutions Conference. Lincolnshire, Ill. Oct. 15-16, 2003.
- Lippke, Bruce, U. of Washington. 2003. Carbon tracking from forests to products to substitution. Forest Products Society Annual Meeting. Bellevue WA, Jun24-25, 2003.
- Lippke, Bruce, U. of Washington. 2003. Impacts of using wood as a construction material on carbon pools. UW Program on the Environment: Exploring Energy Solutions for Planet Earth. Seattle, May 21, 2003.
- Lippke, Bruce, U. of Washington. 2003. CORRIM LCI impacts comparing wood frame vs. steel and concrete. Western Forest Economists Annual Meeting, Welches, OR, May 7-8, 2003.
- Lippke, Bruce, U. of Washington. 2003. CORRIM Research Findings. UW Engineering and the Environment Seminar April 16, 2003.
- Lippke, Bruce, U. of Washington. 2003. Environmental Performance of Wood and Carbon Sequestration. Sierra Pacific Management Team Annual Meeting. Redding CA, March 22, 2003.
- Lippke, Bruce, U. of Washington. 2003. Performance of Wood in Buildings from Cradle to Grave. Wood Technology Clinic and Show. Portland Oregon March 19-21, 2003.