

Curriculum Vita
Tom Kimmerer, PhD

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Education

PhD 1982, University of Wisconsin-Madison, Forestry & Botany (Plant Physiology & Biochemistry) – dual major

BS *cum laude*, 1975, State University of New York College of Environmental Science & Forestry and Syracuse University, Forest Biology

Professional Experience

2001-Present	Consultant, Sustainability and Environmental Management, Land Management, Information Technology
2007	Executive Director, Association for Advancement of Sustainability in Higher Education (AASHE)
2001-2004	President, Athenic Systems
1988-2000	Associate Professor of Forestry, Natural Resources & Plant Physiology, University of Kentucky
1982-1988	Assistant Professor of Forestry, Natural Resources & Plant Physiology, University of Kentucky

Additional Professional Experience

2007- Present	Editor, <i>Sustainability</i>
1993-1994	Senior Fulbright Scholar/Senior Lecturer, Universiti Pertanian Malaysia, Serdang, Selangor, Malaysia
1994-1996	Academic Dean, American Studies Program, University of Kentucky – Metropolitan College, Subang Jaya, Selangor, Malaysia
1993-1996	Environmental Advisor, American-Malaysian Chamber of Commerce, Kuala Lumpur

- 1993-1995 Advisor to Dewan Bandaraya Kuala Lumpur (city council) on urban environmental issues
- 1990-1992 Program Manager, Small Business Innovation Research Program (Forestry), US Department of Agriculture, Washington
- 1992 National Outdoor Leadership School Outdoor Educators Course, Lander WY
- 1984-1992 Panel Member, Environmental Biology Review Panel, US Environmental Protection Agency, Washington
- 1985-1989 Visiting Assistant/Associate Professor, SUNY Cranberry Lake Biological Station, Cranberry Lake NY
- 1984-1988 Visiting lecturer, Universitas Tanjungpura, Pontianak, Indonesia
- 1988 Panel Member, National Research Council Panel on Biomarkers and Environmental Stress

Grants review panel member: USDA Competitive Grants, USDA Small Business Innovation Research, National Science Foundation, IIS Fulbright Program,

Journal reviews: Plant Physiology; Journal of Forestry; Physiologia Plantarum; Science; Forest Science; Forest Ecology and Management; Plant, Cell and Environment

Professional Affiliations

- American Society of Plant Biologists
- The Forest Guild, professional member
- American Association for the Advancement of Science
- Sigma Xi, The Scientific Research Society
- Xi Sigma Pi, The Forestry Honorary Society

Teaching Experience

- University of Wisconsin-Madison
 - Introduction to Forestry (distance learning course)
- University of Kentucky
 - Silvics and Tree Identification (sophomore)
 - Winter Dendrology* (sophomore)
 - Tree Physiology (advanced undergraduate)
 - Introduction to Forestry* (freshman)
 - Natural Resource Conservation and Management* (sophomore)
 - Plant Physiology and Biochemistry (graduate)
 - International Environmental Policy and Issues* (graduate)
 - General Agriculture* (undergraduate)
- Cranberry Lake Biological Station (New York)
 - Plant-Animal Interactions* (advanced undergraduate)
- Universiti Pertanian Malaysia (now Universiti Putra Malaysia)
 - Urban Forestry (Perhutanan Bandar)* (advanced undergraduate)

Tree Physiology (Fisiologi Pokok)* (advanced undergraduate)
Metropolitan College, Malaysia
Introduction to Statistics (sophomore)
Tropical Forest Ecology* (advanced undergraduate, exchange students)
*Indicates courses developed primarily by me

Curriculum Development

General Agriculture, University of Kentucky
Natural Resource Conservation and Management, University of Kentucky
Forest Biology option to the B.S. in Forestry (later replaced by the Natural Resource Conservation and Management curriculum)

Grants & Contracts

\$1.5 million in research and development grants from US Environmental Protection Agency (Environmental Biology) and the US Department of Agriculture (National Research Initiative), USDA Forest Service, Kentucky Division of Forestry, Horticulture Research Institute, Lexington-Fayette Urban County Government, Dewan Bandaraya Kuala Lumpur, Kentucky Science and Technology Corporation, The City of Frankfort.

Additional Professional Skills and Experience

Professional photographer
Photoshop for digital photography
Database design and management – SQL server
Web development, .Net, ASP.Net, Dotnetnuke, HTML
Software project management
Violinist
Language skills – Bahasa Indonesia

Selected Publications

1. Bosmann H.B., Bieber G.F., Brown A.E., Case K.R., Gersten D.M., Kimmerer T.W., Lione A. (1973) Biochemical parameters correlated with tumour cell implantation. *Nature* 246: 487-489
2. Gersten D.M., Kimmerer T.W., Bosmann H.B. (1974) The lysosome periphery: biochemical and electrokinetic properties of the tritosome surface. *J Cell Biol* 60: 764-773
3. Kimmerer T.W., Kozlowski T.T. (1981) Stomatal Conductance and Sulfur Uptake of Five Clones of *Populus tremuloides* Exposed to Sulfur Dioxide. *Plant Physiol.* 67: 990-995
4. Kimmerer T.W. (1982) Physiologic responses of plants to sulfur dioxide and other environmental stresses. Dissertation-University of Wisconsin, Madison
5. Kimmerer T.W. (1982) Tree Physiology. In R. A. Young, ed, Introduction to Forest Science, Ed 1st. Wiley, New York, pp 126-178
6. Kimmerer T.W., Kozlowski T.T. (1982) Ethylene, ethane, acetaldehyde, and ethanol production by plants under stress. *Plant Physiol.* 69: 840-847
7. Young R.A., Kimmerer T.W., Guldin J., Cashin N. (1982) Introduction to Forestry. University of Wisconsin Extension, Madison
8. Dunn J.P., Kimmerer T.W., Nordin G.L. (1986) The role of host tree condition in attack of white oaks by the twolined chestnut borer, *Agrilus bilineatus* (Weber) (Coleoptera: Buprestidae) *Oecologia* 70: 596-600
9. Potter D.A., Kimmerer T.W. (1986) Seasonal allocation of defense investment in *Ilex opaca* Aiton and constraints on a specialist leafminer *Oecologia* 69: 217-224
10. Dunn J.P., Kimmerer T.W., Potter D.A. (1987) Winter starch reserves of white oak as a predictor of attack by the twolined chestnut borer, *Agrilus bilineatus* (Weber) (Coleoptera: Buprestidae) *Oecologia* 74: 352-355
11. Kimmerer T.W. (1987) Alcohol dehydrogenase and pyruvate decarboxylase activity in leaves and roots of eastern cottonwood (*Populus deltoides* Bartr.) and Soybean (*Glycine max* L.). *Plant Physiol.* 84: 1210-1213
12. Kimmerer T.W., MacDonald R.C. (1987) Acetaldehyde and ethanol biosynthesis in leaves of plants. *Plant Physiol.* 84: 1204-1209
13. Kimmerer T.W., Potter D.A. (1987) Nutritional quality of specific leaf tissues and selective feeding by a specialist leafminer *Oecologia* 71: 548-551
14. Muller R.N., Kalisz P.J., Kimmerer T.W. (1987) Intraspecific variation in production of astringent phenolics over a vegetation-resource availability gradient *Oecologia* 72: 211-215
15. Kimmerer T.W., Stringer M.A. (1988) Alcohol dehydrogenase and ethanol in the stems of trees: Evidence for anaerobic metabolism in the vascular cambium. *Plant Physiol.* 87: 693-697
16. Potter D.A., Kimmerer T.W. (1988) Do holly leaf spines really deter herbivory? . *Oecologia* 75: 216-221
17. MacDonald R.C., Kimmerer T.W., Razzaghi M. (1989) Aerobic ethanol production by leaves: Evidence for air pollution stress in trees of the Ohio River Valley, USA. *Environ Pollut* 62: 337-351
18. Potter D.A., Kimmerer T.W. (1989) Inhibition of herbivory on young holly leaves: evidence for

- the defensive role of saponins. *Oecologia* 78:322-329
19. Stringer J., Kimmerer T.W., MacDonald R.C. (1989) Translocation of respired CO₂ and its refixation in *Populus deltoides*. In IUFRO Workshop on Dynamics of Ecophysiological Processes in Tree Crowns. IUFRO, Rhinelander WI, pp 43-52
 20. Stringer J.W., Kimmerer T.W., Overstreet J.C., Dunn J.P. (1989) Oak mortality in eastern Kentucky. *Southern Journal of Applied Forestry* 13: 86-91
 21. Dunn J.P., Potter D.A., Kimmerer T.W. (1990) Carbohydrate reserves, radial growth, and mechanisms of resistance of oak trees to phloem-boring insects 83 4
 22. Dunn J.P., Potter D.A., Kimmerer T.W. (1990) Attraction of the twolined chestnut borer (Coleoptera: Buprestidae) to scarlet oaks infected with chestnut blight fungus. . *Environmental Entomology* 19: 239-243
 23. Harry D.E., Kimmerer T.W. (1991) Molecular genetics and physiology of alcohol dehydrogenase in woody plants. *Forest Ecology and Management* 43: 43-54
 24. MacDonald R.C., Kimmerer T.W. (1991) Ethanol in the stems of trees. *Physiologia Plantarum* 82: 582-588
 25. MacDonald R.C., Kimmerer T.W. (1993) Metabolism of Transpired Ethanol by Eastern Cottonwood (*Populus deltoides* Bartr.). *Plant Physiol.* 102: 173-179
 26. Stringer J.W., Kimmerer T.W. (1993) Refixation of xylem sap CO₂ in *Populus deltoides*. *Physiologia Plantarum* 89: 243-251
 27. Huat O.K., Awang K., Kimmerer T.W. (1999) Growth response of sentang seedlings to nitrogen and phosphorus application. *Malaysian Applied Biology* 28: 37-42

Public Lectures & Presentations

2007

Energy Center of Wisconsin/University of Illinois Energy Resources Center Feb 27, Webinar - Sustainability & Energy Conservations for Colleges & Universities

Tennessee Higher Education & Sustainability Conference Mar 28, Keynote speech
Mary Ann Liebert Publishing April 17, Workshop on Sustainability

Smart & Sustainable Campus Conference April 18, Keynote Speaker

Aramark Sustainability Conference May 31, Keynote speech

CEDD Conference June 6 Plenary Speech

California Sustainability Conference June 25,
Workshop chair, curriculum development
Workshop chair, emissions inventory and planning

MIT Going Global Conference July 9, Workshop chair

Northeast Campus Sustainability Conference Oct 8-9, Speech on climate change

Florida Sustainability Conference October 16, Keynote speaker

University of Kentucky Sustainability Conference October 17

Session Speaker - Campus sustainability

Session Speaker - Climate Change

Wingspread Conference October 18-19, Keynote Speaker

Aramark Sustainability Conference November 14, Keynote Speaker

Indiana University Sustainability Conference November 19, Keynote Speaker

United Nations Association, Bluegrass Chapter November 14, Keynote Speaker

Prior years: Pennsylvania State University, University of Minnesota, The Institute of Ecology (Milford NY), Butler University, Centre College, International Society of Arboriculture, Entomological Society of America, University of Maryland, Institut Pertanian Bogor, Universitas Gadjah Mada Indonesia, Universitas Padjajaran, Universitas Surabaya, Institut Teknologi Bandung, University of Indonesia, Universitas Tanjungpura.