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**Education:** Ph.D., Yale University, New Haven, Connecticut, 1972-1977  
M.F.S., Yale University, New Haven, Connecticut, 1970-1972  
M.A.T., Wesleyan University, Middletown, Connecticut, 1967-1968  
B.A., Wesleyan University, Middletown, Connecticut, 1961-1965

## **Experience:**

The Ecosystems Center, Marine Biological Laboratory, Woods Hole, 1976-Present: Assistant Scientist, 1976-1982; Associate Scientist, 1982-1987; Senior Scientist, 1987-Present; Acting Director, 1988-1989; Co-Director, 1989-Present  
Associate Director for Environment, Office of Science and Technology Policy, Office of the President, Washington, DC, 1996-1997  
Director, Ecosystems Studies Program, National Science Foundation, Washington, DC, 1986-1988  
Associate in Research, The Hubbard Brook Ecosystem Study, Yale University, New Haven, CT, 1975-1976  
Teaching Assistant, January Ecology Course, Marine Biological Laboratory, Woods Hole, MA, January 1975  
Teaching Assistant in Soils, Yale University, New Haven, CT, 1973-1975  
Biology Instructor, Foote School, New Haven, CT, 1972-1973  
Biology Instructor, Weston High School, Weston, CT, 1968-1973  
Biology Instructor, Kakamega Secondary School, Kakamega, Kenya (East Africa), 1966-1967

## **Offices and Honors:**

Member, Sigma Xi  
Trustee, Marine Biological Laboratory  
Chair, US Committee for the Scientific Committee on Problems of the Environment  
Vice Chair, International Geosphere-Biosphere Programme  
President, Scientific Committee on Problems of the Environment  
President, Ecological Society of America  
Distinguished Alumni Award, Wesleyan University  
Award of Excellence in Ecosystem Science, Natural Resources Ecology Laboratory, Colorado State University  
Trustee, The H. John Heinz III Center for Science, Economics and the Environment  
Honorary Professor, Institute of Geophysical Sciences and Natural Resources Research, Chinese Academy of Sciences  
Member, Cosmos Club  
Member, American Philosophical Society  
Fellow, American Academy of Arts and Sciences

### **Professional Society Memberships:**

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

### **Advisory Committees (selected)**

International Geosphere-Biosphere Programme-Global Change and Terrestrial Ecosystems  
International Geosphere-Biosphere Programme  
Global Change System for Analysis, Research and Training  
National Science Foundation – Biological Sciences Directorate  
State of the Nation's Ecosystems (design team – The H. John Heinz III Center for Science,  
Economics and the Environment)

### **Publications (including In press):**

#### **In Press**

Balshi, M.S., A.D. McGuire, Q. Zhuang, J.M. Melillo, D.W. Kicklighter, E.S. Kasischke, C. Wirth, M. Flannigan, J. Harden, J.S. Clein, T.J. Burnside, J. McAllister, W.A. Kurz, M. Apps and A. Shvidenko, 2007. The role of fire disturbance in the carbon dynamics of the pan-boreal region: A process-based analysis. *Journal of Geophysical Research – Biogeoscience*, (in press).

Cerri, C. E. P., M. Bernoux, V. Chaplot, B. Volkoff, R. L. Victoria, J. M. Melillo, K. Paustian and C. C. Cerri. Nova Vida agronomic experiment: 1. Taking into account the spatial variability of soil properties for selecting the experimental area. *Plant and Soil* (in press).

Cerri, C. E. P., K. Paustian, M. Bernoux, R. L. Victoria, J. M. Melillo and C. C. Cerri. Modeling changes in soil organic matter in Amazon forest to pasture: conversion using the Century model. *Global Change Biology* (in press).

Cerri, C. E. P., K. Paustian, M. Bernoux, C. C. Cerri and J. M. Melillo. Combining soil C and N spatial variability and modeling approaches for measuring and monitoring soil carbon sequestration. *Journal of Environmental Management* (in press).

Tian, H., J. Liu, J. M. Melillo, M. Liu, D. Kicklighter, X. Yan and S. Pan. The Terrestrial Carbon Budget in East Asia: Human and Natural Impacts. *In: C. Fu, J. Freney and J. Steward (eds.), Changes in the Human-Monsoon System of East Asia in the Context of Global Change*. SCOPE Series, Island Press, Washington DC (in press).

**2007** Zhuang, Q., J. M. Melillo, A. D. McGuire, D. W. Kicklighter, R. G. Prinn, P. A. Steudler, B. S. Felzer and S. Hu. Net land-atmosphere exchanges of CH<sub>4</sub> and CO<sub>2</sub> in Alaska: implications for the region's greenhouse gas budget. *Ecological Applications* 17(1):203-212.

**2006** Cerri, C. E. P., M. C. Piccolo, B. J. Feigl, K. Paustian, C. C. Cerri, R. L. Victoria and J. M. Melillo. Interrelationships among soil total C and N, microbial biomass, trace gas fluxes, and internal N-cycling in soils under pasture of the Amazon region. *Journal of Sustainable Agriculture* 27(4):45-69.

Chen, H., H. Tian, M. Liu, J. Melillo, S. Pan and C. Zhang. 2006. Effect of land-cover change on terrestrial carbon dynamics in the southern United States. *Journal of Environmental Quality* 35:1533-1547.

Euskirchen, E. S., A. D. McGuire, D. W. Kicklighter, Q. Zhuang, J. S. Clein, R. J. Dargaville, D. G. Dye, J. S. Kimball, K. C. McDonald, J. M. Melillo, V. E. Romanovsky and N. V. Smith. 2006. Importance of recent shifts in soil thermal dynamics on growing season length, productivity, and carbon sequestration in terrestrial high-latitude ecosystems. *Global Change Biology* 12:731-750.

Grimm, N., A. Covich and J. Melillo. 2006. A vision for ecology's future: where are we today? *Frontiers in Ecology and the Environment* 4(3):115.

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- 2005** Melillo, J. M., N. B. Grimm and W. H. Schlesinger. 2005. Ecology and the transition to sustainability. *Frontiers in Ecology and the Environment* 3(1):3-3.
- Melillo, J. M., N. B. Grimm and A. Covich. 2005. NEON: lighting the way forward. *Frontiers in Ecology and the Environment* 7(3):351.
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- 2000** Clein, J. S., B. L. Kwiatkowski, A. D. McGuire, J. E. Hobbie, E. B. Rastetter, J. M. Melillo and D. W. Kicklighter. 2000. Modeling carbon responses of tundra ecosystems to historical and project climate: A comparison of a plot- and a global-scale ecosystem model to identify process-based uncertainties. *Global Change Biology* 6 (Suppl 1) 127-140.
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