

Housing Research and Education Program Cornell University

2004 Annual Report

A. Overview and Organization

Elements of the housing research and education program at Cornell include Extension and other Outreach efforts focused on housing sustainability. Specific programs focus on high performance housing, energy efficiency, indoor air quality, and residential siting. The Housing and Design concentration within the Design and Environmental Analysis graduate field provides graduate students with research opportunities in these areas. Partnerships with county offices of Cornell Cooperative Extension result in effective statewide programs that involve state and county government agencies and nonprofit organizations. Collaborations with the New York State Indoor Environmental Quality Center assist in partnerships with other New York universities in research efforts. A working relationship with the New York State Builders Association facilitates educational opportunities with the state's 19 local home builder associations.

B. Selected Publications

Laquatra, J. and J. Boggess (2004). Building a balance: housing affordability and smart land use decisions, *Housing and Society*, 31(1): 55-72 .

Laquatra, J. and M. Pierce (2004). Waste management at the residential construction site, *Journal of Solid Waste Technology and Management*, 30(2): 67-74.

Laquatra, J. (2004). High-performance housing, *Empire State Builder*, 7(5): 14.

Laquatra, J.; L.E. Maxwell; M. Pierce (2005). "Indoor Air Pollutants, Limited Resource Households and Childcare Facilities," *Journal of Environmental Health*, in press.

C. Thesis Completed

Gwynne Darby Aenne Koch (2004). *Factors Influencing Green Building Practices: A Survey of the Northeast U.S. Home Building Industry*. M.S. Thesis, Cornell University.

D. Research Grants

Laquatra, J.; N. Bills; G. Poe; R. Pendall; D. Kay. Sprawl And Residential Preferences: Investigating and Building Educational Strategies on New Understandings of Land Use. Cornell. Cornell University Agricultural Experiment Station and Cornell Cooperative Extension, \$99,960.

Laquatra, J. Syracuse Healthy Indoor Environment Living Demonstration (SHIELD) project. U.S. Department of Housing and Urban Development/New York Indoor Environmental Quality Center, \$100,000.

E. Extension/Outreach Grants

Laquatra, J. A Consumer Education Program for Residential Energy Efficiency. New York State Energy Research and Development Authority, \$190,726.

Laquatra, J. An Educator's Resource for Healthy Indoor Air. U.S. Environmental Protection Agency/U.S. Department of Agriculture, \$3,300.

Laquatra, J. and J. Ponessa. Mold in Homes. U.S. Department of Housing and Urban Development/U.S. Department of Agriculture, \$9,999.

Laquatra, J. Healthy Homes Video. U.S. Department of Housing and Urban Development/U.S. Department of Agriculture, \$42,000.

Laquatra, J. Practical Management Strategies for Indoor Environmental Risks. Cornell Cooperative Extension, \$25,000.

Laquatra, J. Builder Training for Building America. U.S. Department of Energy/National Association of State Universities and Land Grant Colleges, \$3,000.

F. Conference Presentations

Laquatra, J. and J. Boggess. Building a balance: housing affordability and smart land use decisions. Member of the NCHRC panel, "NIMBYs, Land Use Choices, and Low Impact Development," NAHB IBS, Las Vegas, January 19, 2004.

Laquatra, J. Residential indoor air quality. A seminar presented to the Japanese home builders' delegation at the NAHB IBS, Las Vegas, January 21, 2004.

Laquatra, J. Waste management at the construction site. NSF-PATH Housing Research Agenda Workshop, Orlando, February 13, 2004.

Laquatra, J.; J. Boggess; M. Pierce; D. Diligent. Practical management strategies for reducing risks of exposure to indoor air pollutants for limited resource households. Annual Conference of the Housing Education and Research Association, Chicago, October 21, 2004.

G. Training

Energy Town Meetings

As part of the Consumer Education Program for Residential Energy Efficiency, four Energy Town Meetings were held via Cornell's wide-area network for Extension Educators, their program collaborators, and the general public. These four were:

- Energy Efficient Lighting, May 19, 2004
- Residential Solar Energy Applications, September 22, 2004
- Indoor Air Quality, Mold in Homes, and Ventilation Systems, October 13, 2004
- Getting Your House Ready for Winter, December 9, 2004

Building America Sessions

Through the USDOE/NASULGC program and with the cooperation of the New York State Builders Association, five training sessions for 133 builders were held around New York State on the topic of high performance housing. The sessions were:

- Capital Region Builders & Remodelers Association, September 14, 2004
- Home Builders Association of Central New York, September 23, 2004
- Rochester Home Builders' Association, October 14, 2004
- Southern Tier Homebuilders and Remodelers Association, October 25, 2004
- Builders and Remodelers Association of Northern New York, October 27, 2004

Other

Laquatra, J. Speaker, Seminar Series, Cornell Cooperative Extension/Greene County, Agroforestry Resource Center (broadcast via wide-area network throughout New York State). "Building a Balance: Housing Affordability, Environmental Protection, and Smart Land Use Decisions," March 11, 2004.

Laquatra, J. Guest Lecturer. Residential energy efficiency, indoor air quality, and ventilation. Energy Engineering Seminar, Colgate University, September 17, 2004.

Contact

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