

**HOUSING EDUCATION AND RESEARCH CENTER (HERC)
Construction Management Program
School of Planning, Design and Construction
Michigan State University
112 Human Ecology Building
E. Lansing, MI 48824
<http://www.spdc.msu.edu/cm/herc/>**

Mr. Paul Streng, Executive Director
Dr. Matt Syal, Research Director

Annual Report - 2006

ORGANIZATION

The Housing Education and Research Center (HERC) is a part of the Construction Management program in the School of Planning, Design and Construction. The center was established in 1995 and became a member of the National Consortium of Housing Research Centers in January 1996.

The School of Planning, Design and Construction was established at Michigan State University on July 1, 2004. It consists of programs in Construction Management, Interior Design, Landscape Architecture, and Urban & Regional Planning. The school began offering a new Ph.D. degree program in Construction Management from July 2005. Both, the newly formed school and the Ph.D. program have "Housing" as one of the key focus areas.

I. Funded Research and Outreach Projects

1. Manufactured Housing

- Manufactured Housing Production Process Analysis and Facility Layout, 2002-06
NSF-PATH
Project Investigators: M. Syal and M. Hastak (Purdue)

2. Energy and Sustainability

- Application of Leadership in Energy and Environmental Design (LEED) Site Planning Standards to Northern Climates, 2005-06
Land Policy Initiative, Michigan State University
Project Investigators: T. Mrozowski and J. Westphal

- Impact of LEED projects on CM Practices, 2006-07
AGC Education & Research Foundation
Project Investigator: M. Syal
- An Analysis of the MSU Construction Standards in the context of LEED, 2006-07
MSU Engineering and Architectural Services, Campus Planning and Administration, and Construction Maintenance and Interior Design
Project Investigator: T. Mrozowski
- Increasing Energy Efficiency in University Housing, Continuation Grant, 2006-07
State of Michigan Energy Office Rebuild Michigan Program
Project Investigator: T. Mrozowski
- Sustainable Planning, Design and Construction: Value Added Impact on Built Environment Industries, 2006-08
Environment Science & Policy Program, Michigan State University
Project Investigators: M. Syal and R. LaMore

3. Urban Housing

- Technical Assistance to Detroit Housing Commission, 2004-06
Detroit Housing Commission, Detroit, MI
Project Investigators: A. Seidel and M. Syal

4. International Housing

- U.S.-India Symposium on Urban Housing and Supporting Infrastructure, New Delhi, India, 2005-06
NSF – International Division and Government of India
Project Investigators: M. Syal, M. Hastak (Purdue), M. Mullens (UCF) and A. Sweaney (Georgia)
- Executive Training Program for professionals from Korean National Housing Corporation (KNHC) and Korean Land Corporation (KLC), 2006
M. Syal, T. Mrozowski, T. Abdelhamid and J. Dingsens

II. Theses and Project Reports

- Pillai, G. and Syal, M. (2006) - Health Performance Criteria Framework for Homes based on Whole House and LEED Approaches, M.S. Construction Management Thesis, Michigan State University, MI
- Harrison, A. and Syal, M. (2006) - Historical Preservation: A Supporting Factor for Building Rehabilitation and Urban Revitalization, M.S. Construction Management Project Report, Michigan State University, MI
- Mrozowski, T., Westphal, J., Khosla, N. and Yocca, D. (2006) – “Promoting Healthy Environments through application of LEED NC Site Planning Standards to Cold Climate Institutional Settings, Project Report, Land Policy Institute, Michigan State University, MI.

III. Student Activities

1. Student Builders and Contractors Association (SBCA)

SBCA is affiliated with NAHB and AGC with membership open to students from CM and affiliated majors. For many years, its membership has exceeded 100, placing it among the top 5 nationally recognized active student builder organizations. Some of the annual projects SBCA undertakes each year are - the Construction Management Career Fair (with over 40 employers attending), Habitat for Humanity, Safety Day, and sponsoring a team in the NAHB residential competition, etc. The MSU students secured 1st place in 2004 NAHB competition. In addition, four NAHB/ Greater Lansing HBA scholarships, totaling \$7,000, were awarded to MSU CM students in 2004. Mr. Paul Streng is serving as the faculty advisor and Mr. Jed Dingens is serving as the competition team coach for 2006-07.