

# Building Preservation Technology

## Belmont College



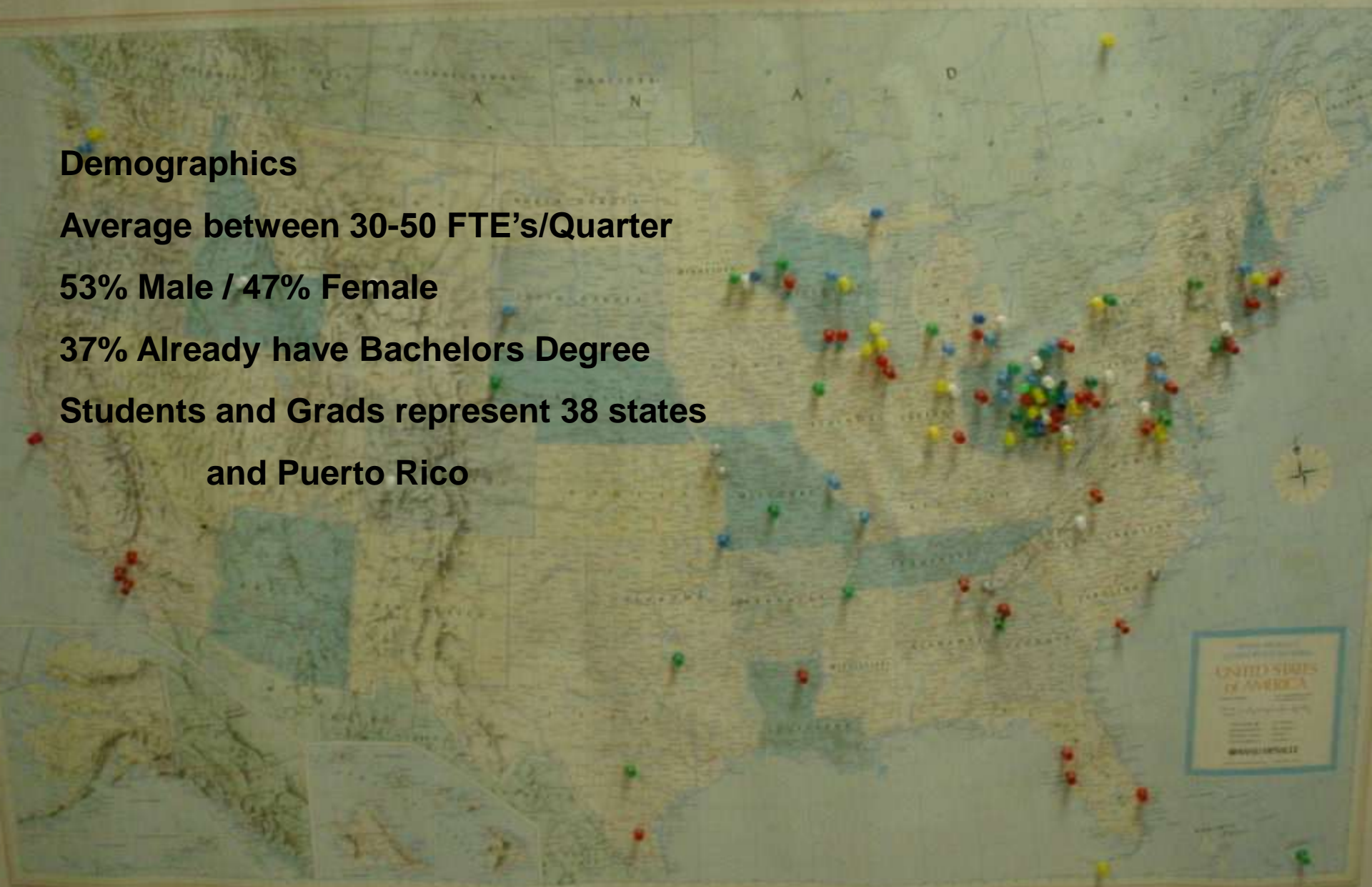
## **Demographics**

**Average between 30-50 FTE's/Quarter**

**53% Male / 47% Female**

**37% Already have Bachelors Degree**

**Students and Grads represent 38 states  
and Puerto Rico**





# The Curriculum



# **Five Major Components of Core Curriculum**

- **History and Theory**
- **Documentation, Research & Pathology**
- **Construction Materials and Methods**
- **Material Science**
- **Field Experience**

# **Five Major Components of** **Core Curriculum**

- **History and Theory**

**Intro to Historic Preservation**  
**History of American Architecture I**  
**History of American Architecture II**













# Five Major Components of Core Curriculum

- History and Theory

- Documentation, Research & Pathology

Architectural Drafting and Design

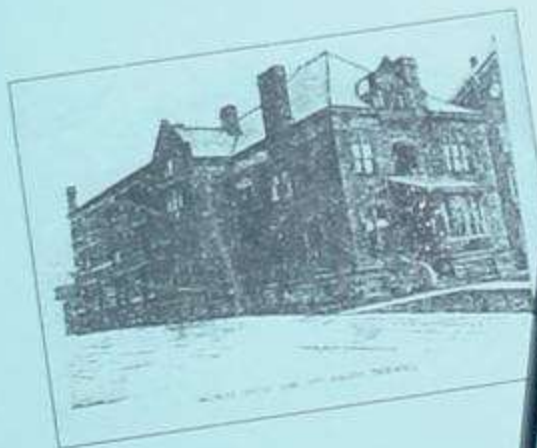
Historic Research and Field Techniques

Building Pathology

Chemistry for Conservators

**The Belmont County Jail**  
An Addendum to the Historic Structures Report  
and Feasibility Study  
for the Belmont County Sheriff's Residence

September, 1997



BTC 743

**Historic Structure Report  
and  
Feasibility Study**

for the

**Belmont County Sheriff's Residence**  
St. Clairsville, Ohio





January 21, 2004



## Historic House Specialist Certification Series

A cooperative effort of the Canton/Ekron Realtor's Association  
and The Belmont Architectural Heritage Center



## Building Pathology



Developing the methodology to examine a historic structure's basic condition, historic integrity, and viability to the marketplace.

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Instruction provided by the faculty of Belmont Technical College's  
**Building Preservation Technology Department**  
120 Fox-Shannon Place, St. Clairsville, Ohio 43980  
740 695-9500 X4006





# Five Major Components of Core Curriculum

- History and Theory
- Documentation, Research & Pathology
- Construction Materials and Methods**

Methods and Materials of Construction  
Mechanical Systems  
Roofing and Flooring  
Windows and Doors  
Construction Management and Estimating







# Five Major Components of Core Curriculum

- History and Theory
- Documentation, Research & Pathology
- Construction Materials and Methods
- Material Science**

Wood  
Plaster and Composition  
Metals  
Masonry and Ceramics  
Stained Glass  
Decorative Finishes





























































# Five Major Components of Core Curriculum

- History and Theory
- Documentation, Research & Pathology
- Construction Materials and Methods
- Material Science
- Field Experience

Field Lab  
Community Field Lab  
Preservation Capstone























**BEFORE**



**AFTER**





**BEFORE**



**AFTER**



**BEFORE**



**AFTER**





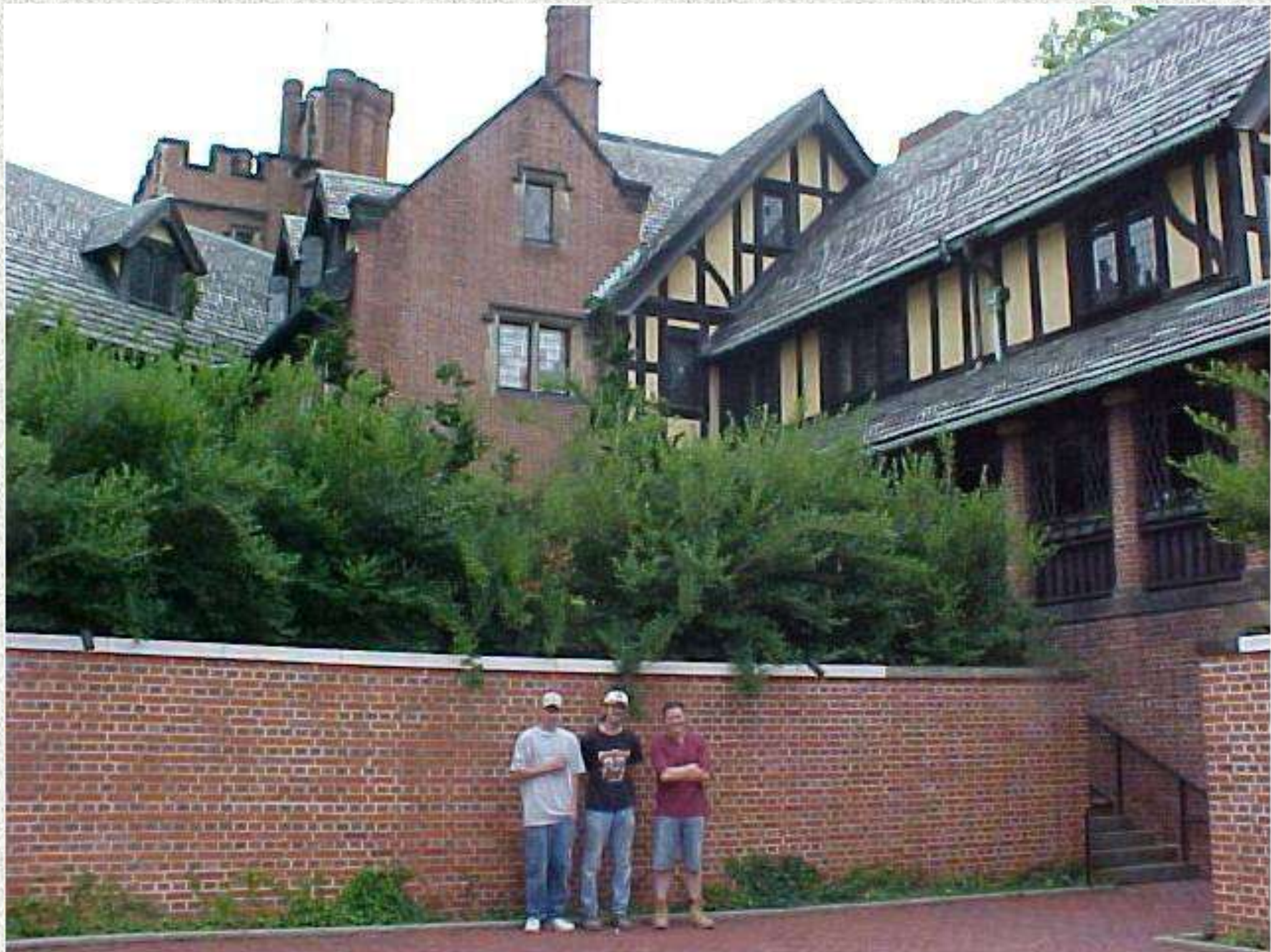
**BEFORE**



**AFTER**











IPTW 2005





**Governor's House - 2006**







Stratford Hall - 2010

















2011 PTN Conference – Alumni Reunion

# The Facilities







# BPR Library

- 2500+ books dedicated to Historic Preservation, Architecture and the Building Trades (oldest: Tapia and Pise Walls, 1839)
- Large collection of magazines
- 250+ video tapes and DVD's
- Student Research Papers and Internship Journals
- Collection of over 3000 digital images and over 100 hours of raw video of material deterioration and historic architecture.





















**After  
Graduation.....**



# Continue Education....

- Undergraduate degrees in Historic Preservation, Interior Design, Education, Architecture, Fine Arts, etc.

- Ursaline
- Roger Williams University
- Mary Washington
- Youngstown State
- SCAD
- Akron
- Kent State

- Graduate degrees in Historic Preservation, Architecture, Education, Construction Management, Fine Arts, Urban Planning, etc.

- Eastern Michigan
- Ball State
- Cleveland State
- Kentucky
- Florida
- Cincinnati

To Name A Few.....

# **Government Work....**

- **State Historic Preservation Offices**

- Ohio

- Michigan

- Texas

- Pennsylvania

- **Federal Agencies**

- National Park Service

- Department of Defense

- **Local Agencies**

- Planning Departments

- Code Enforcement











# Private Companies....

- **Full-Service Restoration Firms (Durable Slate, Alleghany Restoration, etc.)**
- **Specialty Contractors**
  - **Window Restoration Firms (Turner Restoration)**
  - **Stained Glass Firms (Conrad Schmidt)**
  - **Decorative Painting Firms (Albert Michaels)**
  - **Masonry Restoration Firms (Price Masonry)**
  - **Metal Sculpture Firms (Albert Paley)**

## Or Your Own Company....





# Historic House Museums....

- Monticello
- Mount Vernon
- Stratford Hall
- Graceland
- Stan Hywett
- Fallingwater
- Lyndhurst
- Villa Finale

## and Outdoor Museums

- Williamsburg
- Greenfield Village

# Just a few of the many historic sites that have employed BTC graduates

Mount Vernon



Monticello



Lyndhurst



Stan Hywet  
HALL & GARDENS







**Questions?**



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