Structured Analysis of Heritage, Preservation and Architectural History Programs

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Research Questions:

- What topic areas (as suggested in recent journal articles) should be incorporated?
- Are there heritage and preservation programs that embrace civil infrastructure and industrial heritage?
- Do the programs do justice to natural environmental and sustainable communities education/research?
- Are the programs inclusive of social diversity, technology and policy issues (i.e. underexplored areas)
- Can a new program offer aspects that redress gaps in generalist or focused programs now being offered?
First US Historic Preservation Program, 1964
Heritage/Historic Preservation Programs in N. America

159 Preservation-Related Masters Degree Programs in North America

- Cultural Heritage & Mgt
- Historic Preservation
- Architectural History
- Engineering/Construction History
- Science & Technology Studies
- Public & Urban History
- Environmental History

Legend:
- Single Discipline
- Multiple Discipline
# Academic Cultures and Clustering

<table>
<thead>
<tr>
<th>Academic Culture/Domain</th>
<th>Degree of Influence of History</th>
<th>Communication and Measurement</th>
<th>Adherence to point of view</th>
</tr>
</thead>
<tbody>
<tr>
<td>NATURAL SCIENCES</td>
<td>Minimal Influence</td>
<td>Precise measurement</td>
<td>Dogmatic belief</td>
</tr>
<tr>
<td>CLASSICAL ARTS &amp; HUMANITIES</td>
<td>Very Serious Influence</td>
<td>Concern for things that cannot be measured</td>
<td>Depth of knowledge in domain</td>
</tr>
<tr>
<td>SOCIAL SCIENCES</td>
<td>Moderate Influence</td>
<td>Use of metaphors and thick description</td>
<td>Usually open to other disciplines</td>
</tr>
<tr>
<td>PROFESSIONAL &amp; APPLIED</td>
<td>Moderate Influence</td>
<td>Measurement in service of application</td>
<td>Necessity of practical work across domains</td>
</tr>
</tbody>
</table>

*Adapted from: Jerome Kagan, Harvard University*
## Disciplinary Allegiances

<table>
<thead>
<tr>
<th>Lead Discipline(s)</th>
<th>Allied Disciplines</th>
<th>% Multi-Discipline</th>
<th>Other Related Disciplines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cultural Heritage &amp; Management</td>
<td>Regional &amp; Pub History, Archeology</td>
<td>71%</td>
<td>Sociology, Museum Studies, Non-Profit Mgt</td>
</tr>
<tr>
<td>Historic Preservation</td>
<td>Urban &amp; Environ Plan, Arch History</td>
<td>62%</td>
<td>Public &amp; Urban History, Arch History, Amer Studies</td>
</tr>
<tr>
<td>Architectural History</td>
<td>History of Art &amp; Arch</td>
<td>35%</td>
<td>Archeology, Environ Design, Hist Preservation</td>
</tr>
<tr>
<td>Engineering and Construction</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>History Studies</td>
<td>Natural Sciences, History of Technology</td>
<td>100%</td>
<td>Environ History, Business &amp; Economic History, Public Health, Sociology</td>
</tr>
<tr>
<td>Public and Urban History</td>
<td>Cultural Management, Museum Administration</td>
<td>52%</td>
<td>Archeology, Public Management, Sociology</td>
</tr>
<tr>
<td>Environmental History</td>
<td>Agricultural Sciences</td>
<td>37%</td>
<td>Environmental Science, Civil Engineering, Biology</td>
</tr>
</tbody>
</table>
Percentage of 159 Programs Focused on Built Environment vs. Natural Environment

- 16% Natural Environment
- 84% Built Environment

Percentage of 140 Programs Focused on Built vs. Natural Environment (Environmental History Programs Not Included)

- 4% Natural Environment
- 96% Built Environment
Issues in Academic Journals

- Lack of significant change in curricula and programmatic content in two decades (Wells)
- Historic preservation continues down highly aestheticized path (Heathcott)
- No parallel engineering, construction and industrial history programs (Moric, Bodurow)
- Burgeoning interest in sustainability programs and courses (Beimiller, Allison, Young)
- Acknowledgement of economics of permanence and transience of built culture (Schwarzer, Noonan & Krupka)
### View from the Demand Side...

<table>
<thead>
<tr>
<th>CAREER AREAS</th>
<th>VOCATIONS</th>
<th>ACAD DOMAINS</th>
<th>FIELDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Heritage &amp; Preservation Generalists</td>
<td>Social Activism Non-Profit Mgt Site/Archive Mgt</td>
<td>Social Sciences Humanities</td>
<td>Cultural Heritage Archives Mgt Living History +++</td>
</tr>
<tr>
<td>B Scientists, Technologists, Conservators</td>
<td>Conservation Science; Technologies for Built &amp; Natur Env</td>
<td>Natural Sciences Applied Sciences</td>
<td>Earth Sciences Systems Biology Conserv Science +++</td>
</tr>
<tr>
<td>C Planners, Designers, Builders, Operators</td>
<td>Planning, Designing, Building, Operating</td>
<td>Professions Applied Sciences</td>
<td>Preserv Planning Architecture Engineering Construction +++</td>
</tr>
<tr>
<td>D Public Servants, Policy, Lawyers, Regulators</td>
<td>Policy, Legal, Regulatory, Communication</td>
<td>Social Sciences Professions Applied Sciences</td>
<td>Environ Regulation Law Advocacy +++</td>
</tr>
<tr>
<td>E Researchers, Professors, Teachers, Interpreters</td>
<td>Heritage and Preservation Education &amp; Research</td>
<td>Social Sciences Natural Sciences Humanities</td>
<td>Theory of Cultural Heritage; Research Methods + ++</td>
</tr>
</tbody>
</table>
Summary and Conclusions

- Do current programs do justice to diverse research and application areas found in the built (and natural) environment?
- To what degree have programs embraced the core issue of sustainable cities?

Recommendation:
- MS in Heritage and Preservation of the Built Environment
- MS in Heritage and Preservation of the Natural Environment
Master of Science – Heritage, Preservation and Sustainable Cities

Offering Courses in Six Knowledge Areas:

- A = Public History of Engineering and Construction
- B = Innovation, Performance and Degradation of Infrastructure Systems
- C = Environmental History, Energy and Sustainability of the Built Environment
- D = Social and Economic Contexts of Urban Engineering and Construction
- E = Engineering and Construction Heritage and Preservation
- S = Synthesis and Application
Examples of Suggested Courses:

- The Sanitary City in History – Water Supply, Water Treatment, Solid Waste and Public Health
- Historic Ports, Waterways, Canals and Irrigation
- Cultural Heritage Management for Engineering Systems and Construction Projects
- City Ideal or City Horrific – Wren, Haussmann, Olmsted, Moses and Building the Sustainable City
- History of Economics and Finance for Urban Growth and Development
Thank you! And please provide comments on the proposed Masters Program...

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