

# Structured Analysis of Heritage, Preservation and Architectural History Programs

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## Research Questions:

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- ▶ 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?





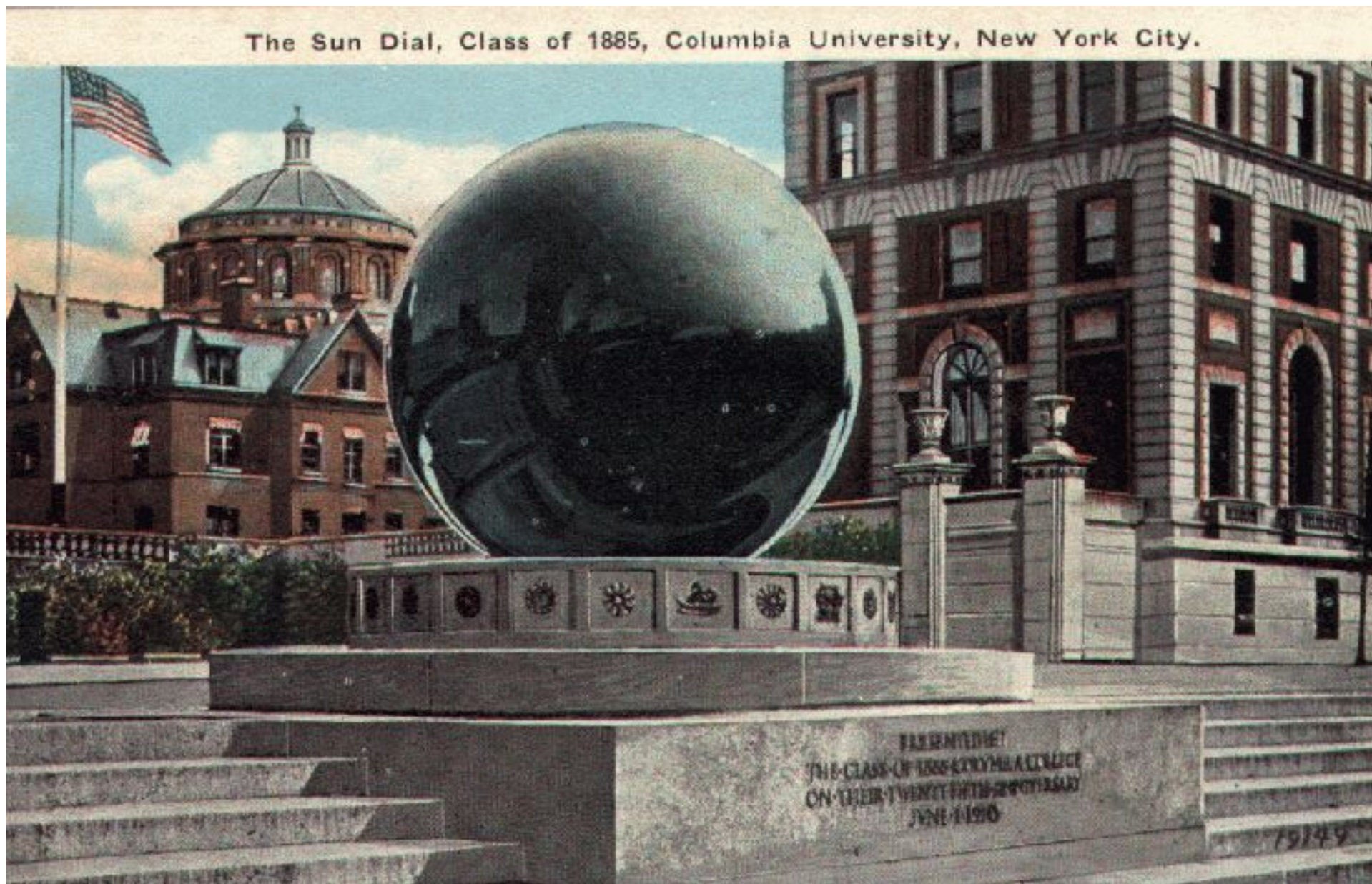




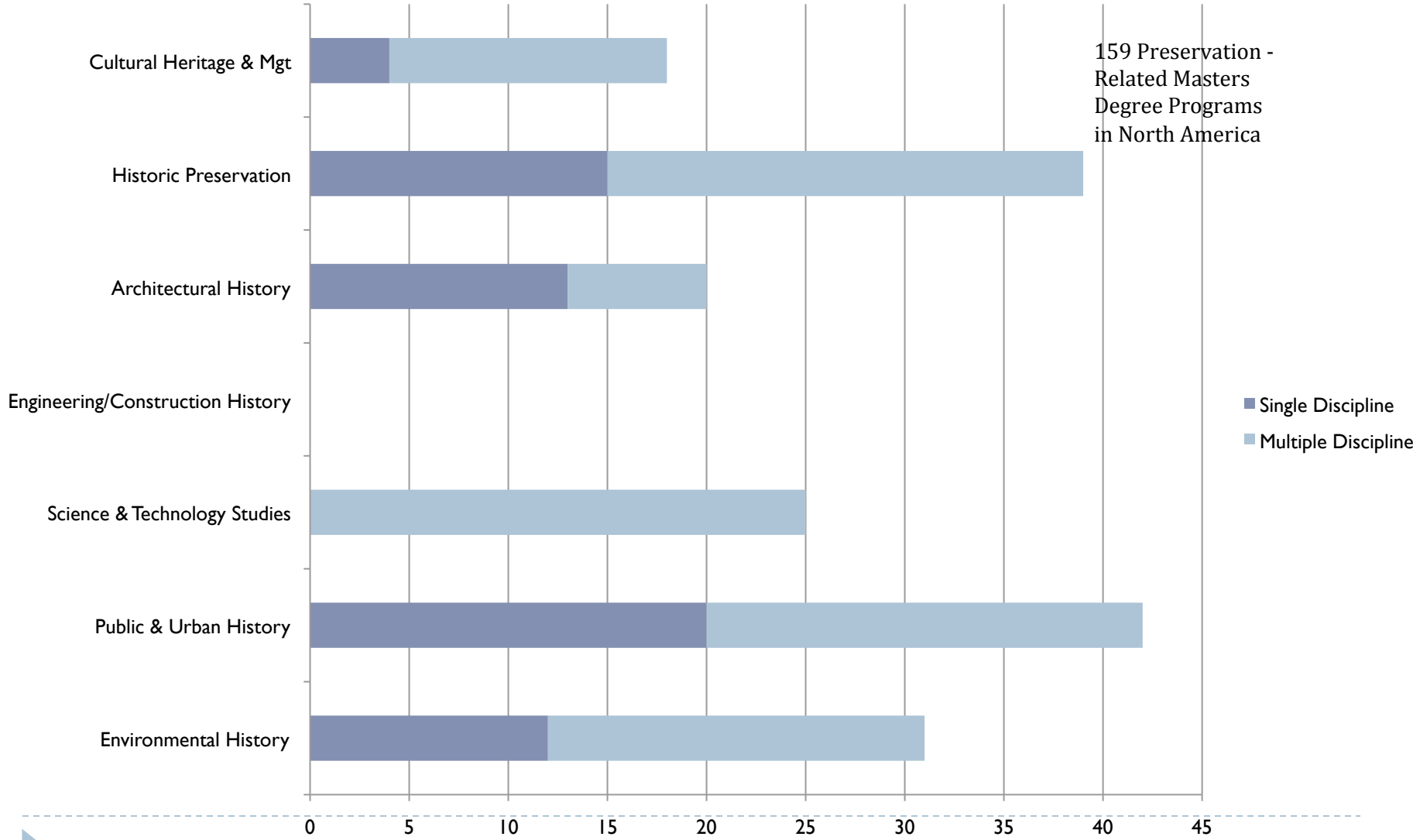
Penn Station 1909 --1963



## First US Historic Preservation Program, 1964



# Heritage/Historic Preservation Programs in N. America



# Academic Cultures and Clustering

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

*Adapted from: Jerome Kagan, Harvard University*



# Disciplinary Allegiances

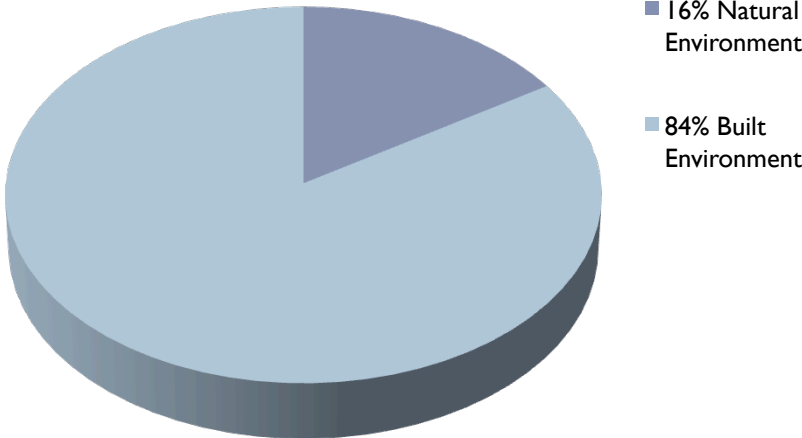
Lead Discipline(s)	Allied Disciplines	% Multi-Discipline	Other Related Disciplines
Cultural Heritage & Management	Regional & Pub History, Archeology	71%	Sociology, Museum Studies, Non-Profit Mgt
Historic Preservation	Urban & Environ Plan, Arch History	62%	Public & Urban History, Arch History, Amer Studies
Architectural History	History of Art & Arch	35%	Archeology, Environ Design, Hist Preservation
Engineering and Construction History	N/A	N/A	N/A
Science and Technology Studies	Natural Sciences, History of Technology	100%	Environ History, Bus iness & Economic History, Public Health, Sociology
Public and Urban History	Cultural Management, Museum Administration	52%	Archeology, Public Management, Sociology
Environmental History	Agricultural Sciences	37%	Environmental Science, Civil Engineering, Biology



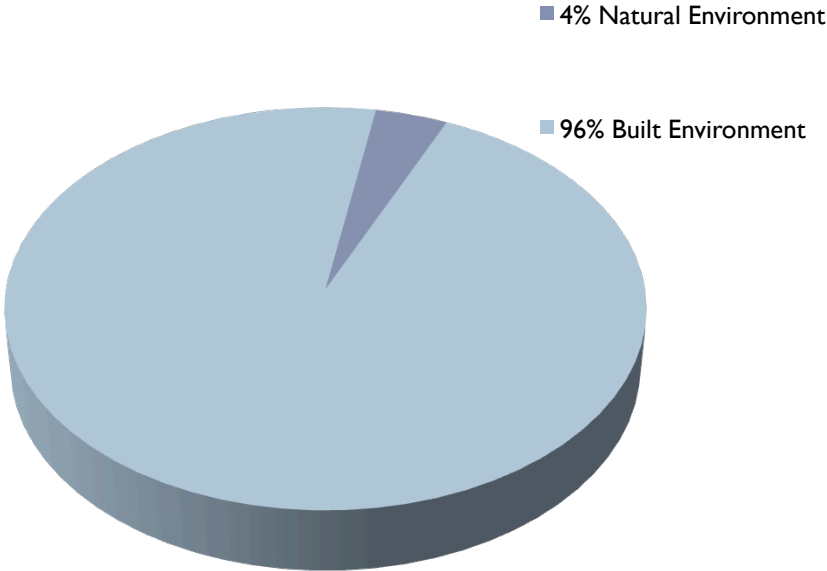


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**Percentage of 159 Programs Focused on Built Environment vs. Natural Environment**



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



# Issues in Academic Journals

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- ▶ 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 (Morice, 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...

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

# Summary and Conclusions

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- ▶ 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

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## *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:

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- ▶ 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
  - ▶ Using Digital Systems Analysis for Historic Urban Studies – GIS, Remote Sensing, Non-Destructive Testing, Spatial Statistics
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Thank you! And please provide comments on the proposed Masters Program...

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