

# Architectural Technology V

Baltimore AIA Technology in Practice Committee &  
Morgan State University Institute of Architecture and Planning  
presents:

## bUILDING iNFORMATION mODELING

A SERIES OF THREE DISCUSSIONS ABOUT BIM IN ARCHITECTURE

**10.24.2007 (5:30 to 7:00): INTRODUCTION TO BIM**  
Building Information Modeling and its applications in the design and construction industry

**11.08.2007 (5:30 to 7:00): BIM CASE STUDIES**  
a case study using BIM during the design and documentation of a building project

**02.07.2008 (6:00 to 8:00): PANEL DISCUSSION**  
panelists from architecture, engineering, and construction will lead a discussion with students and professionals on BIM and the building industry

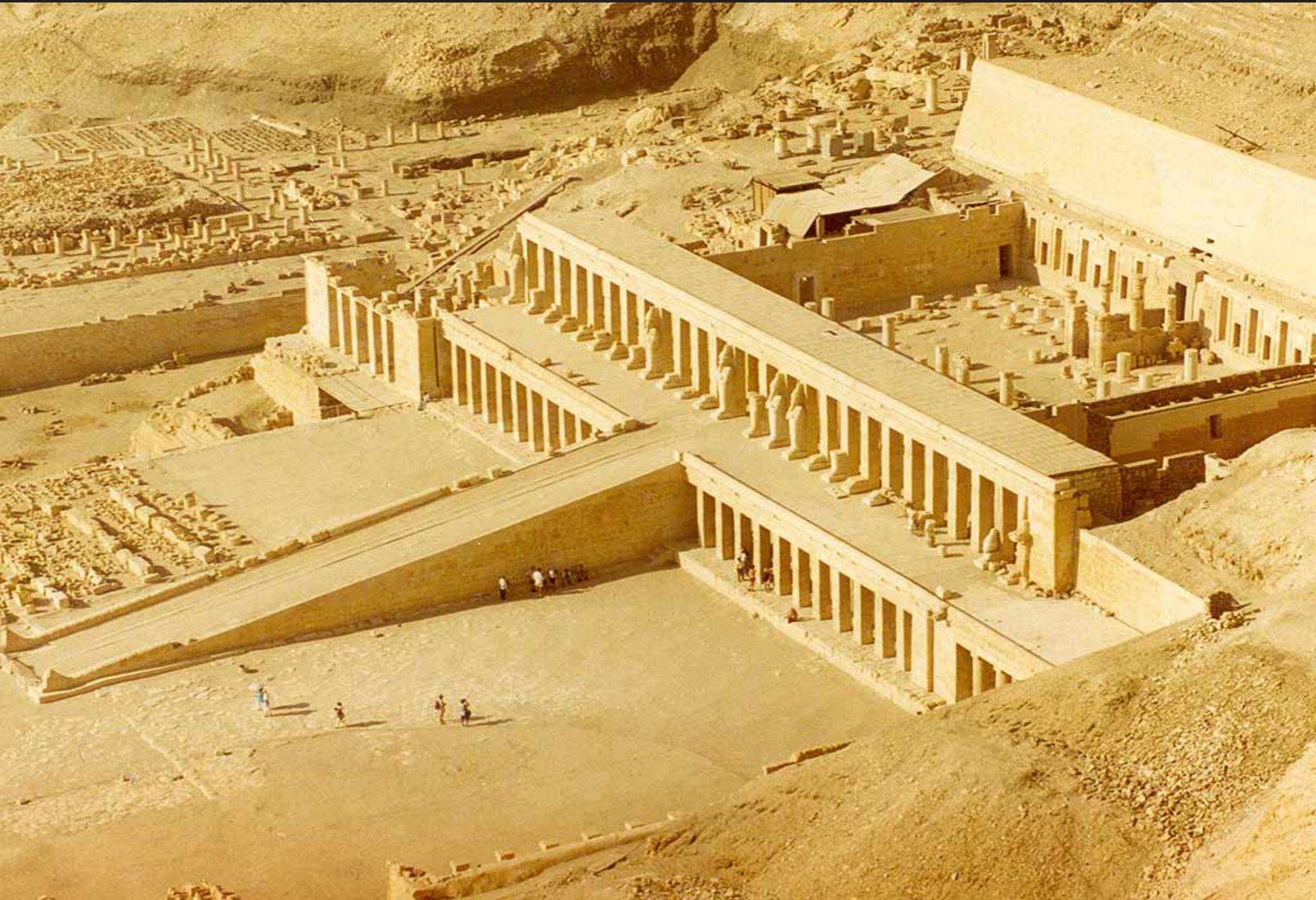
- all events to be held in 241 Schaeffer in the Clarence M. Mitchell, Jr. School of Engineering-
- all events free for students, faculty, AIA members; \$15 for non-AIA members applying for CES credits-
- free parking available on north end of the Engineering School parking lot-
- light refreshments will be served-

## **M I D T E R M E X A M**

ARCH 533 *Architectural Technology V* (Building Materials)















## Mortar Type Characteristics

Mortars are classified by ASTM C 270, *Standard Specification for Mortar for Unit Masonry* [Ref. 2], into four Types: M, S, N and O.

These four Types of mortar can be made with portland cement, masonry cement, mortar cement or blended cements some of which are combined with hydrated lime.

Each mortar Type has some basic characteristics:

- Type N mortar - General all-purpose mortar with good bonding capabilities and workability
- Type S mortar - General all-purpose mortar with higher flexural bond strength
- Type M mortar - High compressive-strength mortar, but not very workable
- Type O mortar - Low-strength mortar, used mostly for interior applications and restoration

Mortar Recommendations Based on Use

Location	Building Segment	Mortar Type	
		Recommended	Alternate
Exterior, above grade	Reinforced or Loadbearing walls	S	N
	Veneer or Non-loadbearing walls	N	S
	Parapets, Chimneys	N	S
Exterior, at or below grade	Foundation walls, Retaining walls	M	S
	Sewers, Manholes		
Interior	Loadbearing walls	N	S
	Partitions	N	O or S