

Agents of Change - Case Study

Atlantic Center for the Arts
August 5, 2005

Team Organization

Team White - The Itinerate Ones

Jonathan R. Knowles - BriggsKnowles A&D

Troy N. Peters - ArchiPhysics

David E. Posada - GBD Architects

Team Organization



Troy N. Peters
Vice-President
Chicago Office - HOBO
Placement Affiliate

Team Organization



David E. Posada
Vice-President
Portland Office - Data
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Team Organization



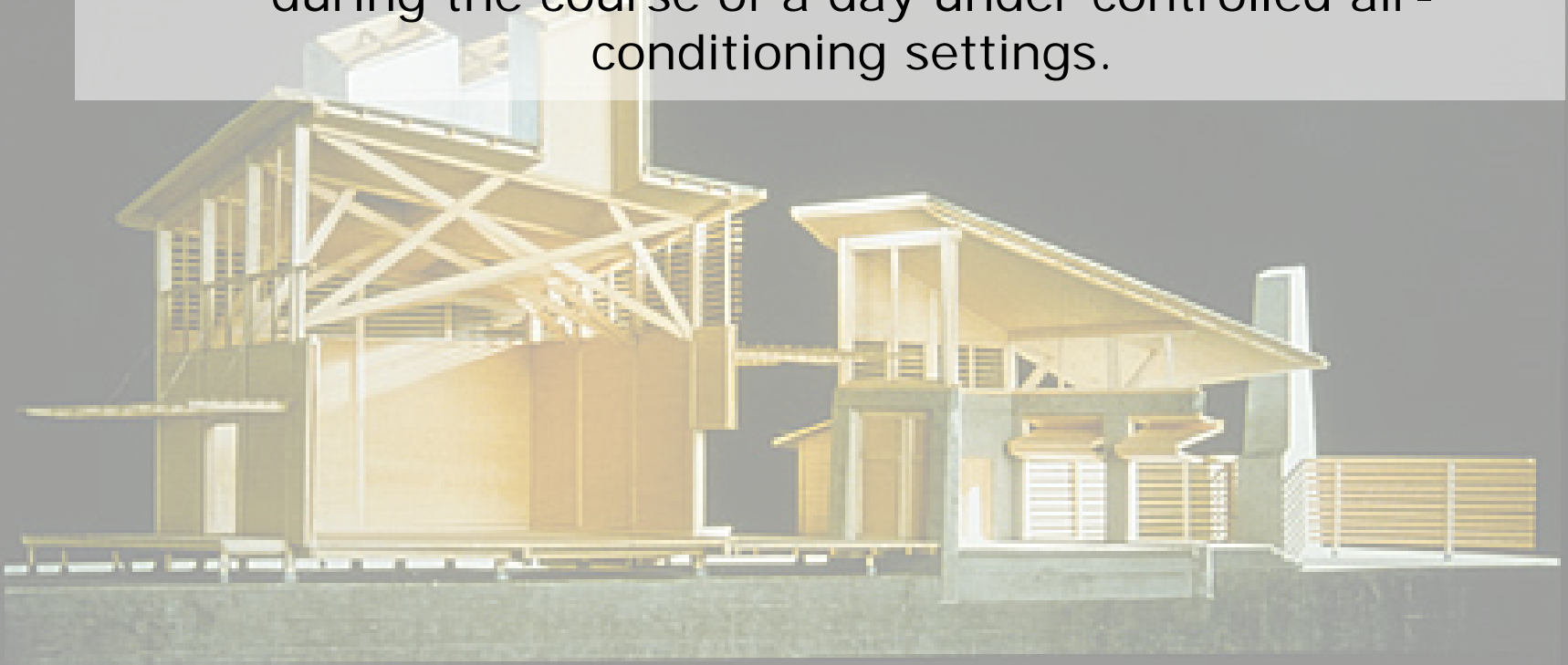
Jonathan R. Knowles
Vice-President
New York Office - Data
Processing Affiliate

Hypothesis

The air-conditioning system in the sculpture studio will produce fewer BTUs per hour, per square foot than the air-conditioning system in the painting studio over the course of one summer day.

Methodology

Compare temperatures of a massive building (sculpture studio) and a light-weight building (painting studio) during the course of a day under controlled air-conditioning settings.



Methodology

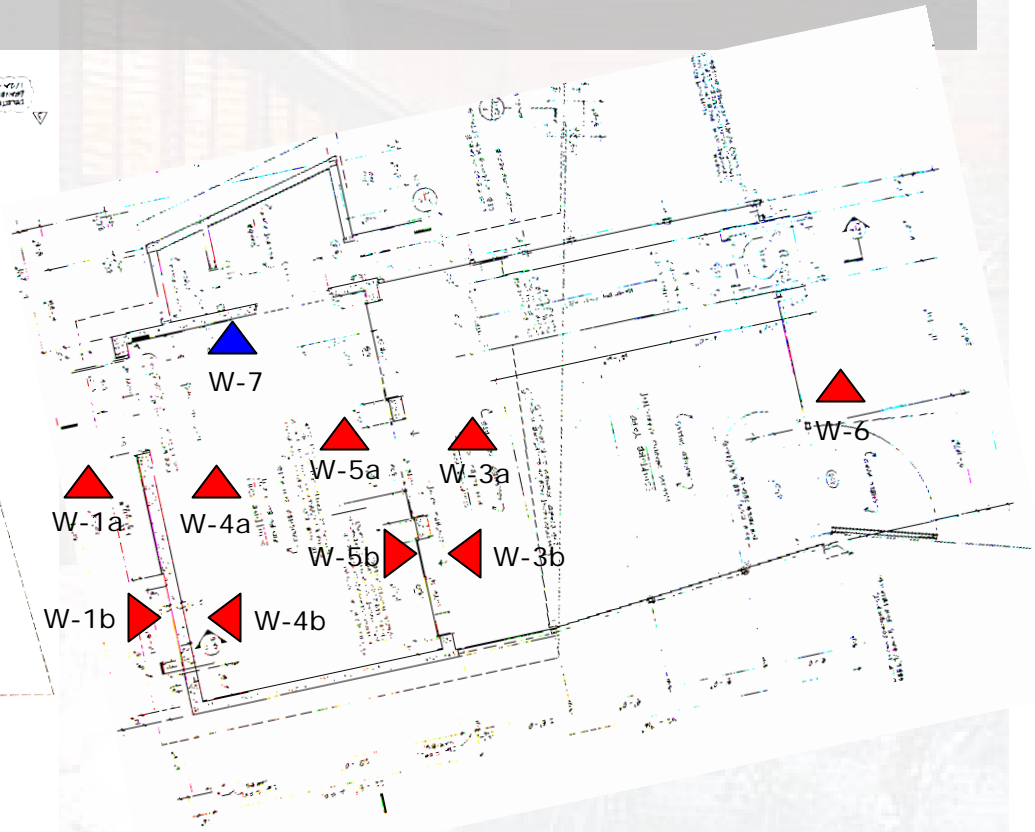
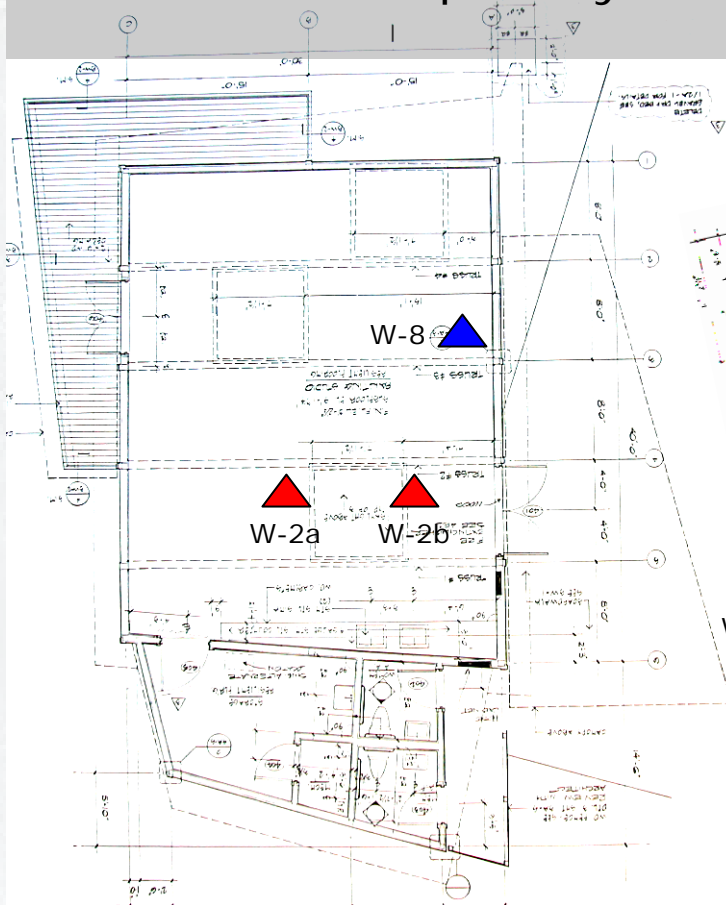
12:00 PM: Place data loggers in the studios

3:00 PM: Set studio thermostats to 78°F

7:00 PM: Set studio thermostats to 68°F

8:00 AM: Turn off AC in both studios

Look-up AC system specs on Carrier web site.

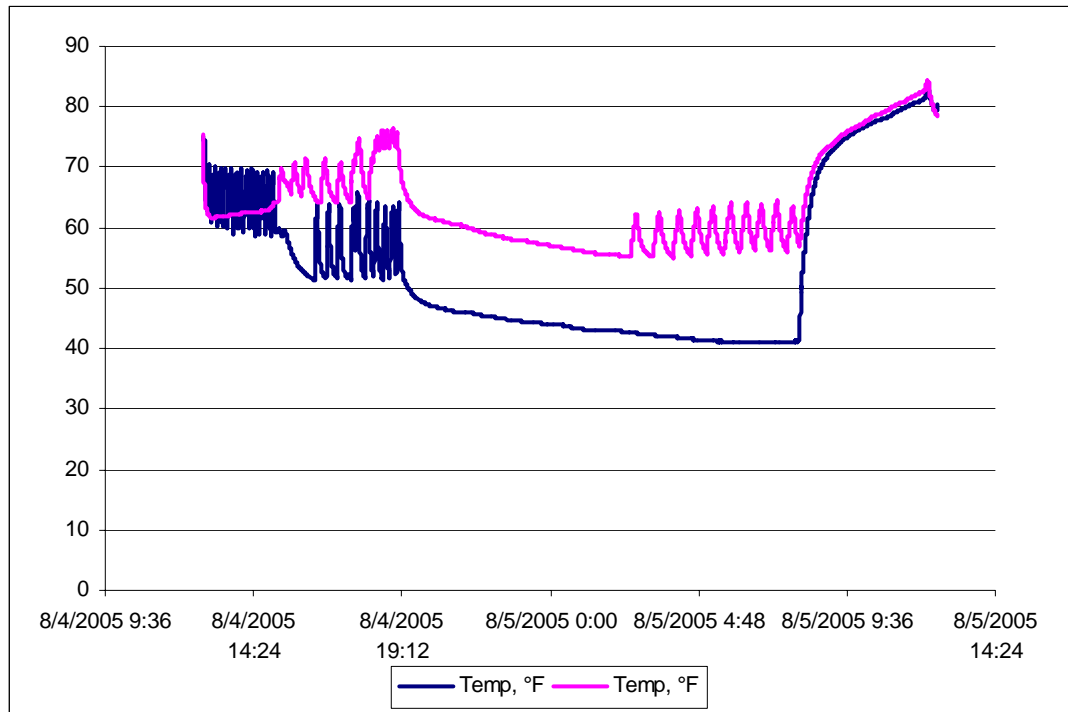


Methodology

12:00 PM: Place data loggers in the studios



Data



Conclusion

The painting studio used 29 BTUs per hour, per square foot, and the sculpture studio used 48 BTUs per hour, per square foot. Therefore, our hypothesis was incorrect.

Sleeping Humid

