



American Institute of Architects (AIA) Accredited Lectures

AIA CES PROVIDER # J654

Stone Specification — CIS # 107 - 1.5 units

Specifying stone requires more than the basic concepts of choosing a color and pattern. In fact, most stone errors are easily avoided with a review of the essential stone limitations. This lecture provides the foundation for further inquiry by taking the participant through the many of the common misconceptions and material guidelines that inform modern masonry practice. Topics include: building stone type, tolerances, material type limitations and strengths, testing, attachment, mortar and structural vs. veneer masonry. The lecture is heavily illustrated with more than 150 color photos and illustrations.

Adaptive Re-use of Reclaimed Stone Materials — CIS # 101 - 1 unit

As modernization rages through the developing world, the ancient built environment is rapidly being demolished. Fueled both by the civic world (Three Gorges Dam project destroyed 1600 towns, cities and villages) and natural disasters (Gujarat earthquake of 2001 condemned 400 royal Havelis to destruction), our world is being significantly altered. This lecture will explore how ancient materials from these areas are being re-deployed to great effect by some of the top designers of our generation.

The Sacred Rules of Freemasonry: The Underlying Rules of Stone Design — CIS # 105 - 1 unit

For the last 5000 years, masonry buildings have been the dominant architectural form. Civilizations around the world evolved similar structures through their deep understanding of the highest and best use of stone. These universal guidelines were codified in the medieval period and became known as the Sacred Rules. In a highly visual format, we will rediscover this ancient tradition and explore their relevance to modern architecture.

Dimensional Stone — Ancient Traditions, Modern Practice — CIS # 106 - 1 unit

The story of stone masonry is also the story of pre-twentieth century architecture; highlighting the greatest achievements of mankind. Tracing man's earliest masonry efforts on the alluvial plane of the Nile Delta and concluding with the Getty museum, we watch the masonry tradition evolve and expand, giving context to the modern practice of masonry. Advances in material testing, global freight, machine processing and stone attachment have revolutionized the ancient materials but come at significant cost to the stone aesthetic. Modern Practice seeks to frame the debate on the new methods within the rich context of stone masonry's past tradition.

The Grain of Stone: Implications for Design and Fabrication — CIS # 108 - 1.5 units

Stone grain remains one of the most closely guarded secrets of the operative branch of Freemasonry. To this day the subject confounds laymen and practitioners alike. Yet this knowledge is fundamental to both stone design and stone fabrication since grain direction is directly linked to both material strength and the weathering characteristics of stone masonry. Starting with the essential geology of building stone and following it through the quarry process, this lecture follows the grain considerations for several of the main architectural elements including veneer, voussiors, copings, columns and obelisks.

 Meets AIA/CES criteria for Health, Safety, and Welfare issues (HSW)



RHODES
ARCHITECTURAL
STONE
NATURAL STONE EXPERTS



Lecture series author and founder's biography

RICHARD RHODES

Richard is the founding partner of **Rhodes Architectural Stone** and Design Principal of **Rhodesworks Design Studio**. A nationally recognized artist, master mason and scholar, Richard has more than 30 years' experience. Uniquely, he has worked across all aspects of the stone industry including, design, quarrying, fabrication and installation.

Beginning his masonry career with a formal, hands-on apprenticeship in Siena, Italy, Richard was the first foreigner initiated into the operative branch of the Freemason's 726-year history and is fittingly renowned as the "last apprentice" following the collapse of the guild in the 1990s.

Richard now spends the majority of his time on his design and sculpture practice. Over the past 20 years, he has completed several major sculpture commissions and, although most are privately held, his largest and most public sculpture is on permanent display at the newly opened Tacoma Art Museum, designed by Antoine Predock Architects.

A nationally acclaimed lecturer and educator, Richard has twice addressed the national conventions of the American Institute of Architects (AIA) and the Association of Professional Landscape Designers. He has also delivered a five-lecture educational series to the Institute of Classical Architecture in both New York and San Francisco, and lectured to the Building Stone Institute and many public and private universities.

Richard's book *Stone Expressions: An Exploration of Stone Design and Use*, is near completion. This large-format book contains 250 color plates of international historical stonework photographed by Richard, who is also an accomplished medium-format photographer. Paul Goldberger, architecture critic for *The New Yorker* magazine, is writing the book's foreword.