The Corner: Tectonic Intersections of the Architectural Environment

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Abstract

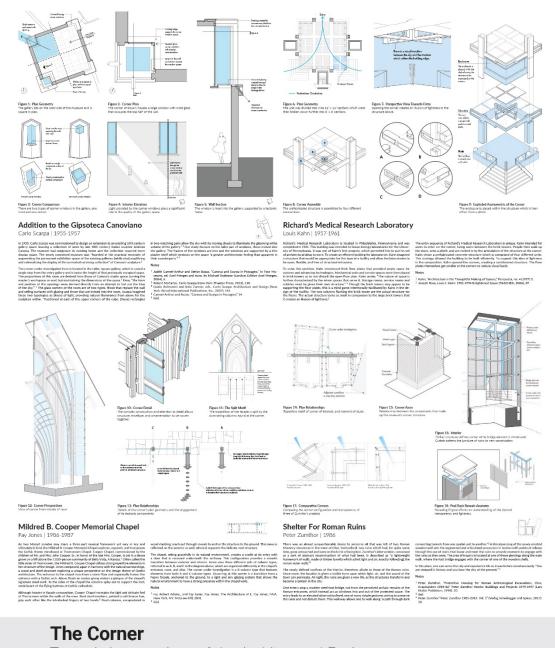
Architectural corners serve as nodes of constructional shifting, of structural logistics, of environmental control emphasis, of spatial experience, and of aesthetic considerations and it is in these particular building intersections that our greatest architects have exceled. Despite the importance of the corner, most architectural software introduces generalizations into design work that all but assures improper understanding of a building's corners, especially for students and those novice to the profession. The transformations undertaken in the computer rarely reflect the strategies used to create physical, occupiable space. For instance, when working in building information modeling software, walls intersect via "butt" or "miter" techniques regardless of the materiality of the components. Any system can turn the corner with perfect resolution, without the need for additional components or finishes typically used to resolve aesthetic and performance issues. From this technical perspective, what is possible in the computer is often impossible in reality.

This presentation centers on a recently initiated, seminarbased research project through which a group of upper division and graduate architecture students are rigorously examining a set of precedents in an effort to better understand how significant architects of the 20th and 21st centuries treated or continue to treat, as the case may be, the architectural corner in their critically acclaimed works. The primary goals of this study are to absorb for configuring these junctures of construction, tectonics, and design potential and to create a framework of lessons, which students can use in the development of their own design work moving forward both in the academy and in the professional world.

Keywords: Materials + Construction Techniques; Architectural Tectonics; Architectural Detail

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Tectonic Intersections of the Architectural Environment

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"...comers and walls are mutually dependent on each other for the definition of a space. It is the corners which make the space a figure; it is the corners which tell us where we are." ¹

In order to create enclosure, and architectural space in general the primary systems of a building must turn, they must wrap, an eventually they must return to where they began. This fundamental precept of building is essential to the creation of space. This fundaments of change, of intersection, of shifting that we define corners are often overlooked — segrecially in adacemia—is a critical to the functional performance, assisthed; opperance, and corn of shifting that we define any other construction system, turns and a corner is formed an a complex (sometimes significantly complex) situation is created corners serve as nodes of constructional shifting of structural is gistics, of environmental control emphasis, of spatial experience and of assettated is in these particular building and of assettated consideration and it is in these particular building.

The catalyst for this examination of the architectural corner in found embedded in the contemporary design process of the vas majority of those in the architectural profession. Utilized both in cademia and in the professional world, most architectural soft

sures improper understanding of a building's corners, especially or students and mose novice to the protession. Although encompassing a larger range of issues, in the generation of architecture and the students and tillier modeling pergament that requise us to shift since the students are students and the students are students and the students are students of the students are students and the students are students and the students are students and the students are students are students and the students are students. Also are students are student

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works. Each student participating in the seminar selected an architect to spend the semisere examining and, from this particular architect, three corners from three different buildings to be the focus of the study. The semester was then spent creating an analysis of each of these three corners. From this analysis, the students produced a series of diagrams and other drawings that demonstrate how the corners of the buildings work with respect to structural, and conceptual considerations. A model of one corner was created as a final course submission. Components of four of these corner as a final course submission.

The primary goals of this study are to dissect these junctur of construction, tectonics, and design potential and to create framework of lessons, which students can use in the developme of their own design work moving forward both in the academy ar in the professional world.

¹ Thomas Thiis-Evensen, Archetypes in Architecture (Oslo, Norway: Scandinavian Univity Press, 1997), 121.

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