

ARCH-806

SOE CROSS- LAMINATED DENSITY

INSTRUCTOR:
BENJAMIN ARANDA

CO-TEACHER:
JOAQUIN BONAFIEZ

5 CREDITS

CROSS LAMINATED DENSITY EXPLORES A BUILDING TYPE UNIQUELY POSSIBLE IN THE URBAN ENVIRONMENTS OF CHILE BUT APPLICABLE TO OTHER CITIES GLOBALLY, THE MASS TIMBER MEDIUM-RISE BUILDING. CHILE IS A WORLD LEADER IN MASS TIMBER PRODUCTION, A CONSTRUCTION TYPE THAT USES NEW GROWTH FORESTS TO CREATE LARGE-SCALE TIMBER COMPONENTS OF BUILDINGS INCLUDING STRUCTURE AND ENVELOPE. ALSO REFERRED TO AS CROSS-LAMINATED TIMBER (CLT), THE RESULTING MATERIAL IS PRIZED FOR ITS LOW-CARBON FOOTPRINT BY THE USE OF A RENEWABLE RESOURCE, TREES. THE DESIGN PROCESS IN THE STUDIO WILL LEVERAGE CLT'S SCALAR PROPERTIES AND INITIALLY INVESTIGATE THE MASSIVE WOOD JOINT TO CREATE AN OPERATIVE ASSEMBLY LOGIC FOR BUILDING DESIGN. STUDENTS WILL CREATE PHYSICAL MODELS OUT OF WOOD TO EXPLORE ISSUES OF ASSEMBLY, CONNECTION, MODULARITY AND PROLIFERATION OF THESE LARGE-SCALE TIMBER COMPONENTS. THESE EXPLORATIONS WILL THEN BE ASSESSED AGAINST ORGANIZATIONAL SYSTEMS TO TEST THE JOINERY LOGICS IN SITU. THE STUDIO WILL ENGAGE MULTIPLE URBAN SITES IN THE CITY OF SANTIAGO TO RESEARCH HOW HYPERDENSITY IN MASSIVE TIMBER CAN BE DEPLOYED THROUGH A VARIETY OF USE CASES: AS INFILL CONDITION, AS MEDIUM RISE BUILDING AND AS INFRASTRUCTURE. LARGE PHYSICAL MODELS MADE OF WOOD ARE ENCOURAGED TO PROTOTYPE DETAIL AND ORGANIZATION SIMULTANEOUSLY. CHILE'S UNIQUE CONTEXT AS A LEADER IN THE MASS TIMBER INDUSTRY PROVIDE A FERTILE MODEL FOR HOW OTHER CITIES CAN EXPLORE CROSS-LAMINATED DENSITY IN THE FUTURE.

Pratt
GAUD

SPRING 2019

IMAGE CREDIT: BENJAMIN ARANDA

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SOE
THE ECSTASY OF
LONG ISLAND - 2030

INSTRUCTOR:
MICHAEL BELL

CO-TEACHER:
JEFF ANDERSON

5 CREDITS

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ET VOLUPTUR?

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NIENIST, EARUM QUID MODI REIUS, EST ET



SPRING 2019

IMAGE CREDIT: MICHAEL BELL, EUNJEONG SEONG: VISIBLE WEATHER



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SOE SPACE OBJECTS: SPECULATIONS ON URBAN INTERIORITY

INSTRUCTOR:
DAVID ERDMAN

CO-TEACHER:
HART MARLOW

5 CREDITS

THIS STUDIO WILL INVESTIGATE THE CONCEPT OF “SPACE OBJECTS:” INTENSELY COHESIVE URBAN VOID-SPACES THAT ARE NOT (NECESSARILY) INSIDE A BUILDING ENCLOSURE. STUDENTS WILL WORK AT MULTIPLE SCALES AND WITHIN THE CONTEXT OF THE HIGHLY CONCENTRATED URBANISM OF HONG KONG AND ITS PUBLIC HOUSING ESTATES. THE FOCUS OF THE STUDIO IS TO “ALTER” EXISTING ESTATES AND (THROUGH THE DEVELOPMENT OF SPACE OBJECTS) “RE-ORIGINATE” THE IDENTITY AND URBAN VITALITY OF THE SITE(S). THE STUDIO WILL BE MODELING INTENSIVE AND PHOTOGRAPHICALLY ORIENTED. STUDENTS WILL TRAVEL TO HONG KONG WHERE VISITS TO PUBLIC HOUSING ESTATES, TO RELATED PROJECTS, A SERIES OF WORKSHOPS AND EXCHANGES WILL OCCUR WITH HKU FACULTY AND WHERE STUDENTS WILL INTERFACE WITH VARIOUS PUBLIC HOUSING AUTHORITY SENIOR STAFF MEMBERS AND STAKEHOLDERS.

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SPRING 2019

IMAGE CREDIT: PETER STEWART - STACKED HONG KONG 2009