ACSA/AIA Housing Design Education Award

2016-2017 Winner Submission Materials

RETROFITTING THE RUSTBELT CITY: Rethinking Resettlement and Urban Life Studios

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RETHINKING RESETTLEMENT

STRATEGIES FOR HOUSING BUFFALO'S REFUGEE POPULATION

How can architecture and urbanism contribute to the integration of refugee populations in an unfamiliar culture and promote the formation of authentic multicultural environments? How can we cultivate and maximize the latent potential of resettlement practices to encourage urban rejuvenation? The studio addressed these questions through research and design exploration via long-term rental housing and short-term transitory housing projects.

The students completed three separate tracks of inquiry in the first half of the semester: (1) case studies on supportive housing projects; (2) a holistic documentation of resettlement procedures in the US; and, (3) a multi-faceted analysis of Buffalo's East Side. The students were asked to develop the exact scope and location of their projects within a 4-square-mile catchment area in East Buffalo, a grossly under-served section of the city. In addition to housing, students were tasked with constructing effective but affordable programmatic mixes in order to facilitate social integration. We collaborated with a prominent resettlement agency, a neighborhood housing and community development group in East Baltimore, and scholars of social work and public health.

The studio served as an open platform for the collaborating nonprofit agencies to discuss potential development ideas. The research findings and the work of the studio were disseminated to the public health, social work, and resettlement communities through various venues. The students also exhibited their early schemes in a symposium on refugee health matters. Finally, the work was extensively covered in the local media, allowing us to contribute to the public debate at a high level.

ARC 606- GRADUATE RESEARCH GROUP: INCLUSIVE DESIGN



GRADUATE STUDIO: RESEARCH



GRADUATE STUDIO: OCCUPYING THE BELTLINE



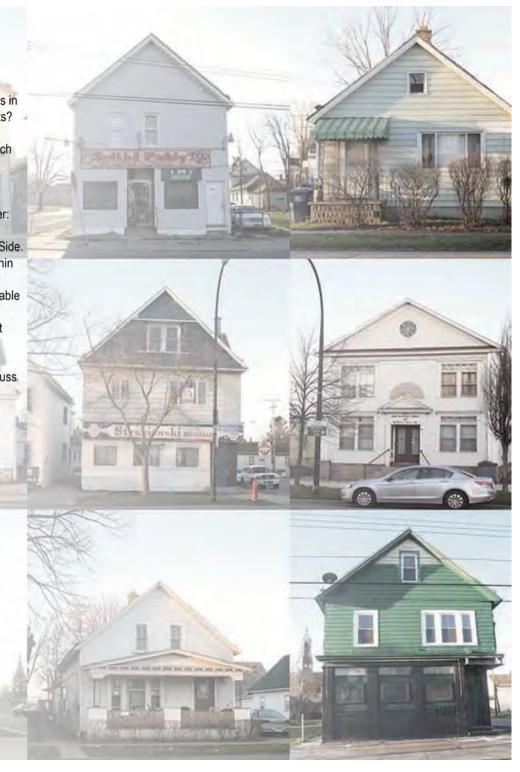
GRADUATE STUDIO: EAST SIDE COURTS



GRADUATE STUDIO: PADEREWSKI RETROFIT

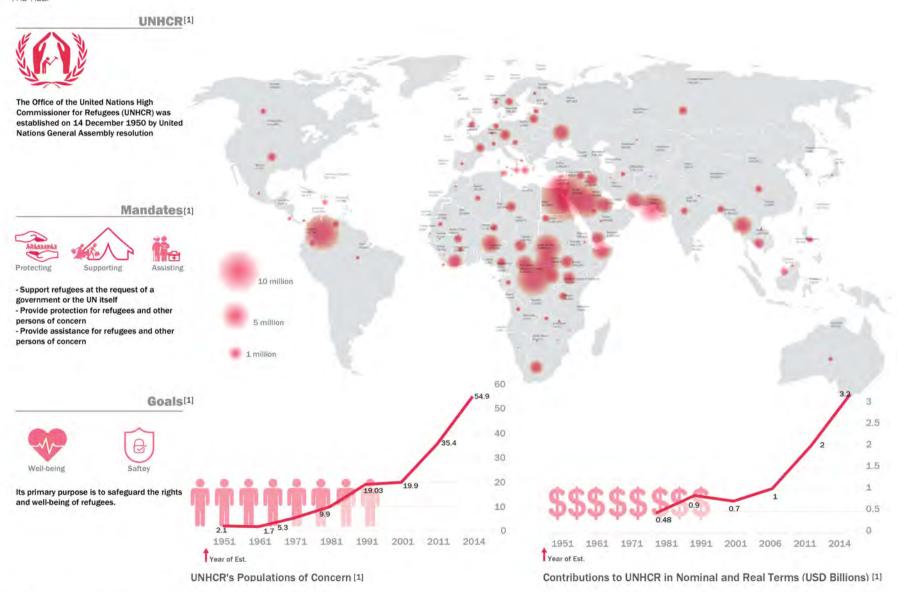


GRADUATE STUDIO: "MARKET" HOUSING



RESEARCH

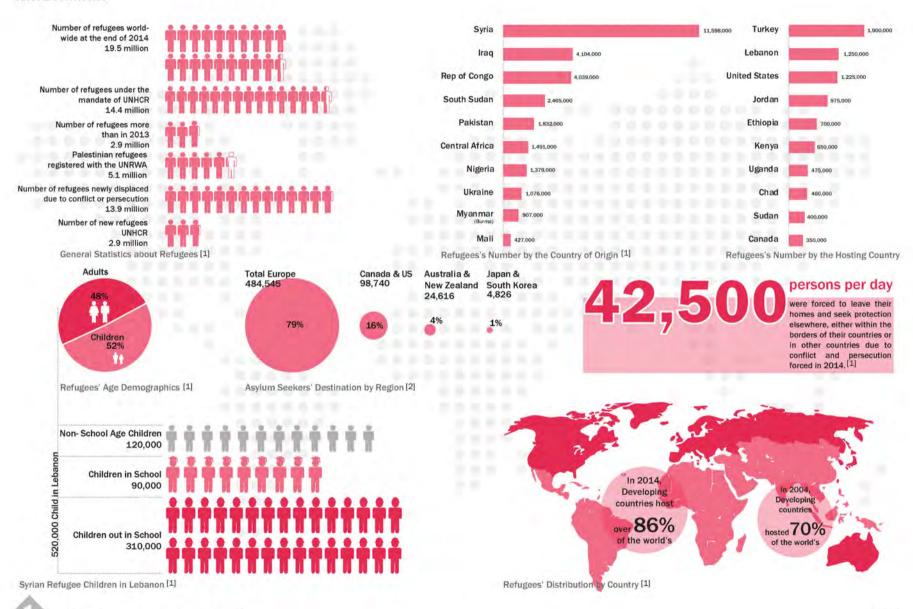
THE HELP



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RESEARCH

GLOBAL STATISTICS



SPRING 2016: GRADUATE STUDIO: RESEARCH PAGE 3

OCCUPYING THE BELTLINE



PROPOSED COURTYARD



FLEXIBLE UNIT CONFIGURATION



INTERIOR

This group identified a number of industrial buildings forming a ring around the city connected by an underused freight rail line, called the Beltline. There are long term plans to convert this piece of infrastructure into an effective part of the transit system. Furthermore, many of these buildings are eligible for historic preservation tax credits, rendering them feasible options for mixed-use developments intended for refugees and low-income groups. By adding austere but carefully designed architectural armatures containing social and commercial programs, this project proposes to mix diverse communities by sharing much-needed amenities such as day-care facilities, educational programs, and communal kitchens.



SECTION



OCCUPYING THE BELTLINE



COURTYARD

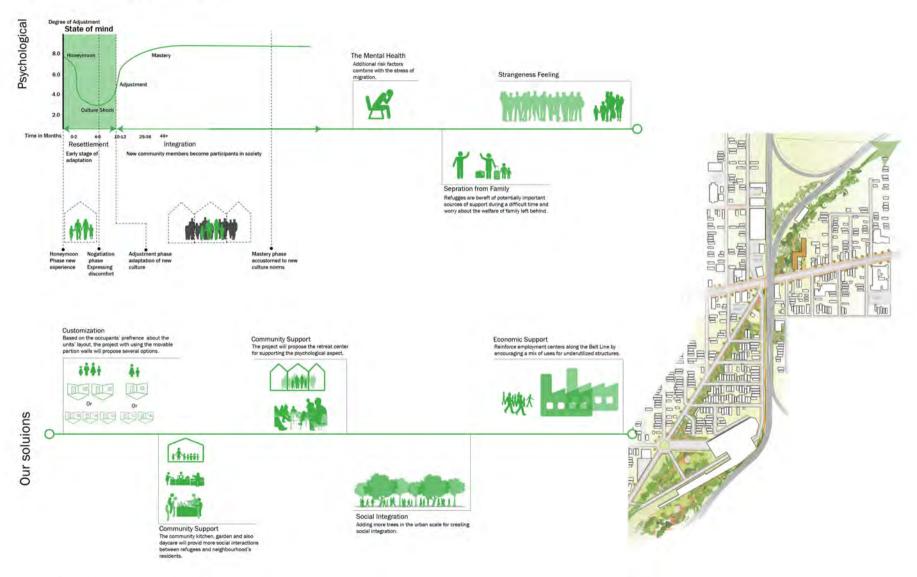






SITE PLAN

OCCUPYING THE BELTLINE

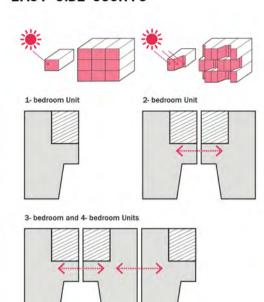


REFUGEE STUDIES LITERATURE SURVEY

SITE PLAN



EAST SIDE COURTS



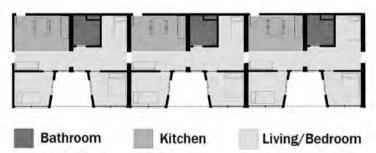


Given the continued influx of refugees to Buffalo, the resettlement agencies need to expand in capacity. As such, this group proposed a transitional housing development with embedded amenities, in which the refugees and homeless individuals could be accommodated for up to 90 days. The site is strategically located combining carefully identified affordable lots at an optimum walking distance to many urban assets and existing bus routes. The project employs prefabricated building modules, a growing strategic know-how in the region.

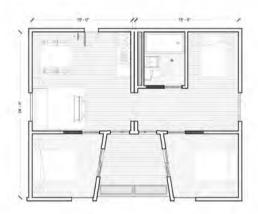


AERIAL VIEW

EAST SIDE COURTS



PLAN STRATEGY



LAYOUT

Commercial: 13,200 sq.ft

Store Restaurant Cultural Stores

Agricultural Farms (Green House) Retail

Residential: 40,000 sq.ft

100 Convertable Modular Units 300 sq.ft

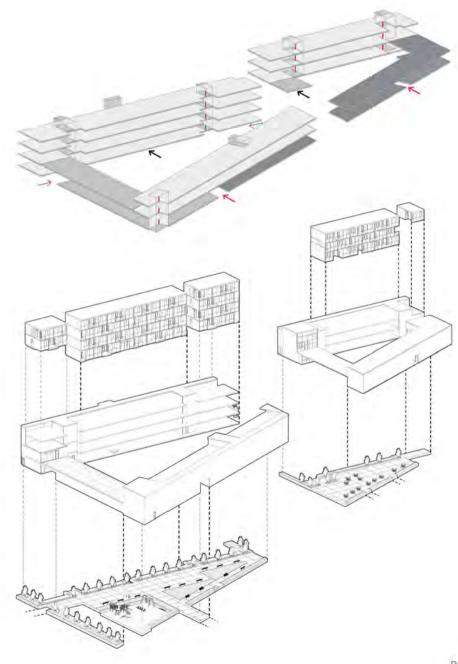
Public Services: 10,700 sq.ft

English Class
Job Training
Indoor Playgrounds
Child Care
Second Hand Clothing Room
Classrooms
Offices
Green House

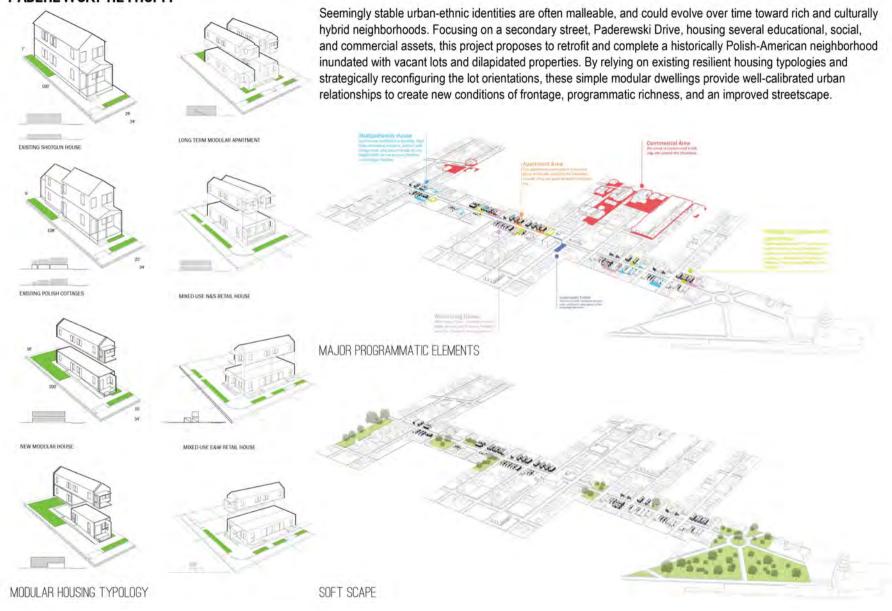
Clinic Gym

PROGRAM





PADEREWSKI RETROFIT



"MARKET" HOUSING

Based on the observation that air travel costs incurred by a refugee family is often higher than the average property values in East Buffalo, this project proposed a wealth building network through home ownership and business incubation. Starting with a careful survey of the district for vacant, foreclosed, and dilapidated properties, the project cataloged cost-effective renovation methods using cooperative networks. Building on an existing urban farming program and successful schemes, resettled and low-income families would become stakeholders in several urban farms while rejuvenating an existing but underused wholesale market building as a major community asset.

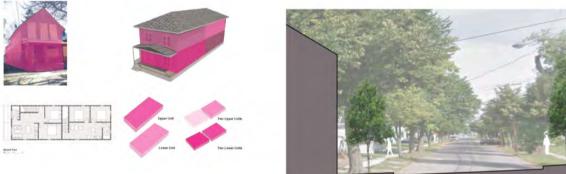


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"MARKET" HOUSING













HOUSING STUDY

SECTION



URBAN LIFE: SELF + SOCIETY

Last studio in the undergraduate curriculum, the housing studio brief asks the students to take on a wide set of multifaceted parameters from urban to tectonic scales. The work in my studio tends to be differentiated by deliberate formal research for complex configurations capable of addressing these diverse set of scales, while revealing, activating, and maximizing the latent potential of existing urban assets formally and programmatically. The students are asked to think about and anticipate the kinds of improved living habits their projects could foster at individual and collective levels.

ARC 403- UNDERGRADUATE DESIGN STUDIO



FALL 2015: UNDERGRADUATE SENIOR STUDIO: HOUSING FOR RESTAURANT WORKERS



FALL 2015: UNDERGRADUATE SENIOR STUDIO: HOUSING FOR LONG-TERM REHABILITATION PATIENTS



FALL 2015: UNDERGRADUATE SENIOR STUDIO: LIVE-WORK HOUSING



FALL 2014: UNDERGRADUATE SENIOR STUDIO: HOUSING WITH A SUSTAINABLE PUBLIC POOL



FALL 2014: UNDERGRADUATE SENIOR STUDIO: HOUSING FOR LARGE FAMILIES



HOUSING FOR RESTAURANT WORKERS





ELEVATION



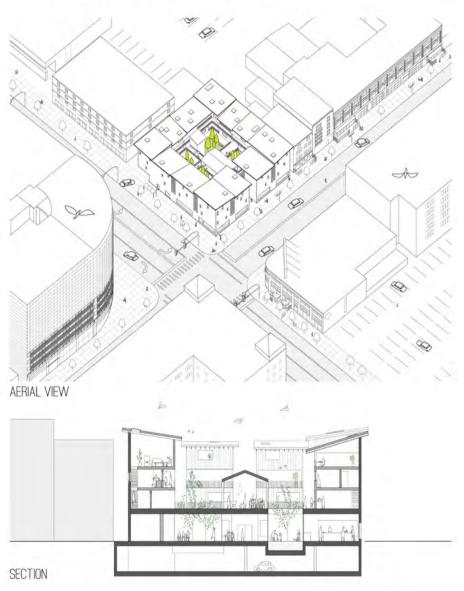


INTERIOR MODEL VIEWS



SECTION MODEL

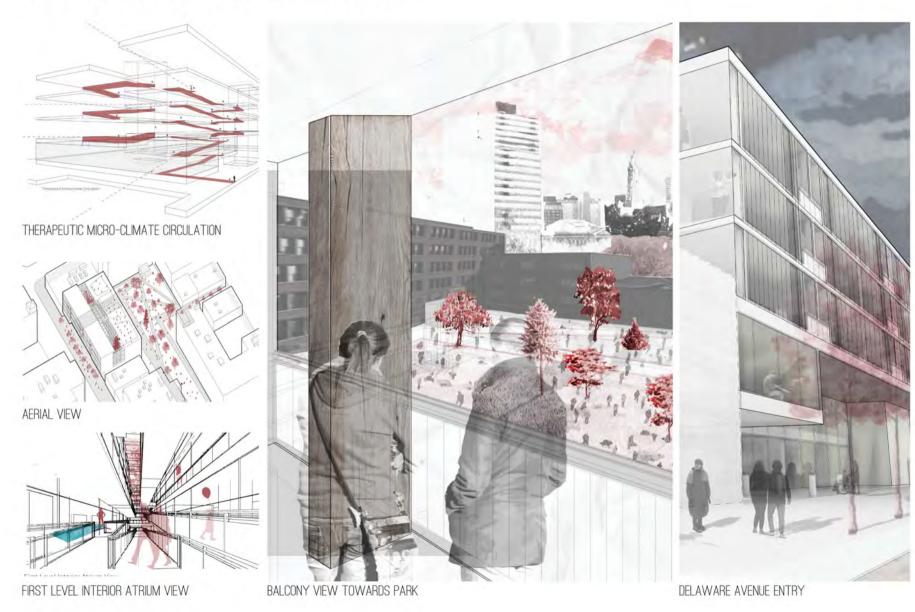
HOUSING FOR RESTAURANT WORKERS





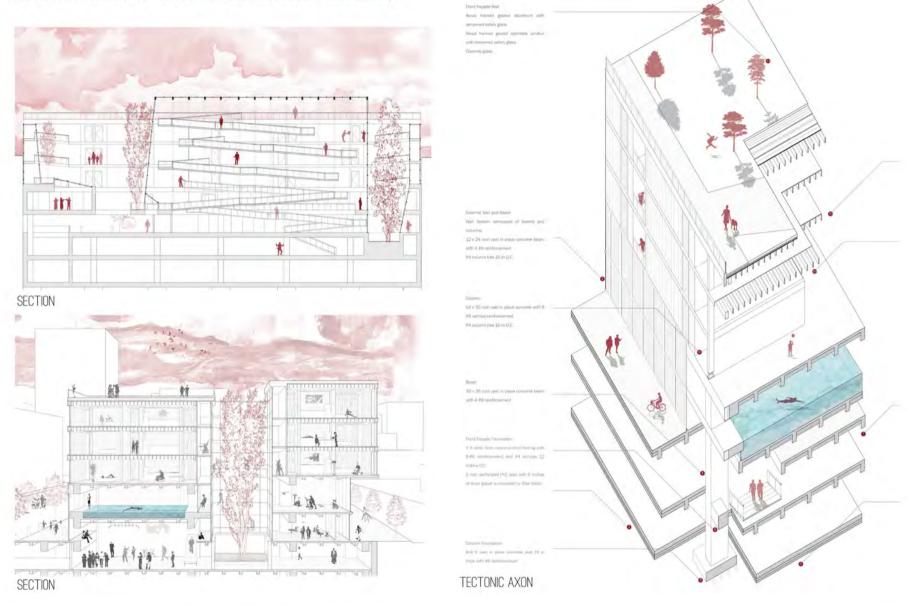


HOUSING FOR LONG-TERM REHABILITATION PATIENTS

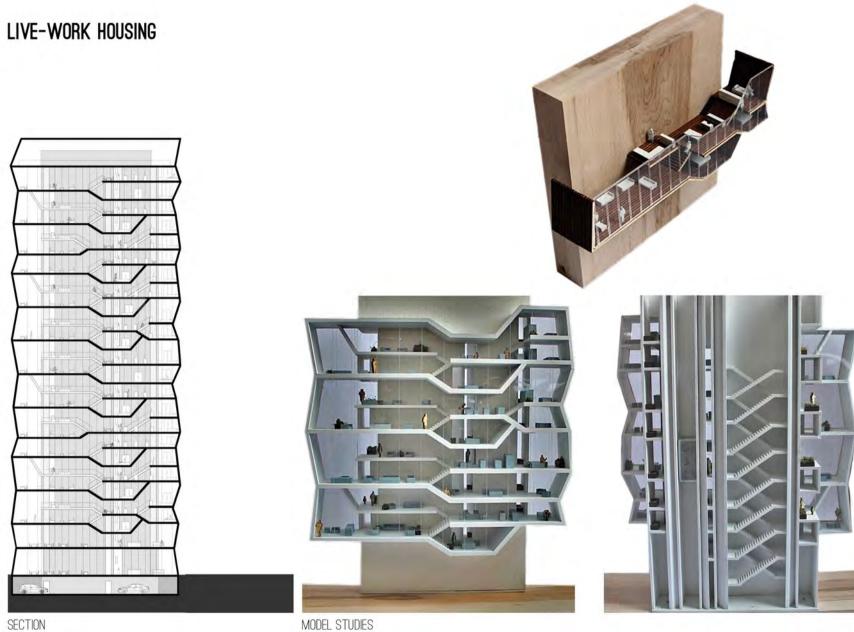




HOUSING FOR LONG-TERM REHABILITATION PATIENTS









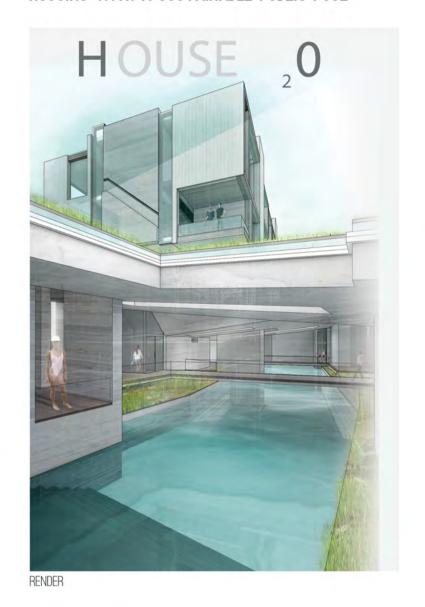
MODEL STUDIES



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HOUSING WITH A SUSTAINABLE PUBLIC POOL







HOUSING FOR LARGE FAMILIES



URBAN DIAGRAM

