2015 SGH / Dri-Design Scholarship

Fall 2015
ARCH 410 'integrate' design studio
University of Nebraska-Lincoln
College of Architecture

The mission for the Architecture program is to provide the educational foundation for articulate, intellectually aware, self-realizing architecture professionals capable of performing effectively in evolving design disciplines.

2015
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Scholarship

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University of Nebraska-Lincoln
College of Architecture
232 Architecture Hall
Lincoln, NE 68588-0107
(402) 472-7943

http://architecture.unl.edu

Fall 2015
Arch 410 Architectural Design: Tectonics
Fundamentals of architectural design. Continuation of problems concerned with human needs. Intermediate projects that emphasize technological considerations as form determinants. Structure, material, equipment, and construction.

The College of Architecture at the University of Nebraska-Lincoln, in partnership with SGH Inc. and Dri-Design, has established a student scholarship competition for the fourth-year, undergraduate, architectural design studios. The scholarship recognizes student projects exemplifying outstanding design investigation, resolution, and significance.

This opportunity brings together aspiring architects and industry leaders to advance disciplinary knowledge of design, materiality, and innovation.

Following the end-of-semester review, one project from each studio is selected to compete for the SGH Inc./Dri-Design Scholarship. These projects are presented to an external jury who are all established practitioners in their fields. A finalist is chosen for producing and communicating a comprehensive architectural project that is a result of design decisions at different scales. To be successful, students demonstrate a high degree of professional dedication, rigor, open-mindedness, and resourcefulness. Projects are rigorously developed and clearly communicate the breadth and depth of investigation.

We thank our sponsors SGH, Inc., a leading distributor and installer of customized building products, and Dri-Design, a producer of advanced and sophisticated metal wall panel systems.

Fall 2015 - Architecture Design Studio Faculty
Mark Bacon, Adjunct Professor of Architecture
David Karle, Assistant Professor of Architecture
Joyce Raybuck, Adjunct Professor of Architecture

SPONSORS

SGH, ARCHITECTURAL PRODUCTS
SGH, Inc. is a leading distributor and installer of customized building products primarily used for the exterior of commercial buildings. Unlike other providers, SGH, Inc. supplies only the highest quality products and expert installation services. From the initial idea to the final details, SGH, Inc. has the resources to successfully execute projects of any size from concept to completion.

Since we also source the materials we install, our employees have an intricate knowledge of how the products work, the best way to install them and pass that expertise on to our customers. Our professional team works closely with owners, architects and contractors to ensure that the product looks stunning both on paper and in use.

We would especially like to thank Troy Burkey for helping establish this program.

DRI-DESIGN
Founded in Holland, Michigan in 1995, under the leadership of President Brad Zeeff, dri-design has turned the Metal Panel Industry on its ear. With dri-design, Zeeff set out to solve what he viewed as the significant shortfalls of traditional metal panel systems: delamination, staining due to the effects of weather on joints and gaskets, a lack of color and texture options, the rising cost of production and inefficient installation practices.

The result of dri-design's meticulous engineering, is a 100% recyclable, pressure equalized rain-screen, architectural metal wall panel system that attaches to nearly any substrate without the use of clips or extrusions. The pressure equalized rain-screen design can be installed simply over commercial grade Tyvek onto plywood, or as the most sophisticated outboard insulation pressure equalized rain-screen you can design.

We would especially like to thank Jason Zeeff for partnering with SGH.

KATIE NEWELL

Catie Newell is the founding principal of the architecture and art practice *Alibi Studio, Detroit. Newell's creative practice has been widely recognized for exploring design construction and materiality in relationship to location and geography, and cultural contingencies. Her work and research captures spaces and material effects through manufactured environments that deploy textures, volumes and the effects of light and darkness. Newell is an Assistant Professor of Architecture at the University of Michigan. Newell won the 2011 ArtPrize Best Use of Urban Space Juried Award and the 2011 Architectural League Prize for Young Architects and Designers. Newell exhibited at the 2012 Architecture Venice Biennale, and the 2015 Lille3000 Triennial. Catie won the 2013-2014 Cynthia Hazen Polsky and Leon Polsky Rome Prize in Architecture and she is a Fellow of the American Academy in Rome.

DOUG STOCKMAN

Doug is an architect and a founding partner of el dorado inc, a cross-disciplinary design studio founded in 1996 in Kansas City, Missouri, that specializes in architecture, public art, urban planning, and infrastructural enhancements. Doug focuses on large-scale mixed-use projects, specifically on the adaptive re-use of historical buildings that represent revitalization within urban cores. Based on this approach, Doug has been a part of the significant urban revitalization throughout the Midwest, including projects such as The LUX and The Finn Lofts in Wichita, Kansas, and Park Central Apartments and W Lofts in Kansas City, Missouri. The work of el dorado inc has been recognized for design excellence with more than 30 AIA regional design awards and has been published nationally and internationally. Under the leadership of Doug and his partners, the New York Architectural League named el dorado an Emerging Voice in 2008, identifying the firm as one of eight top emerging practices in North America.

BRAD TOMECEK

The founder of Tomecek Studio Architecture, Brad graduated from the University of Florida with a Bachelor of Design and Masters of Architecture. He worked in smaller award winning firms in Colorado and Florida before launching the studio. His work has been featured in Architectural Record, Architect, Builder Magazine, international books and local magazines.

Brad is actively involved with the local AIA and has served on the AIA Denver Board of Directors. His outreach takes the form of speaking nationally on methods and manifestation of meaningful projects. Currently Brad combines practice with intermittent teaching at the University of Colorado. His explorations blur the boundaries between poetic solutions and innovative building systems. He has been presented with over 40 AIA awards including the AIA National Young Architect Award and was recently awarded the AIA Denver Medal of Achievement and AIA Colorado Innovative Practice award.

PRE-DELIBERATION


THE NEW BURLINGTON
HOTEL AND MUSEUM
HEMERALITY

DELIBERATION


THE NEW BURLINGTON
HOTEL AND MUSEUM

ANNOUNCEMENT

Honor Award

Sacred Architecture: searching for the ineffable

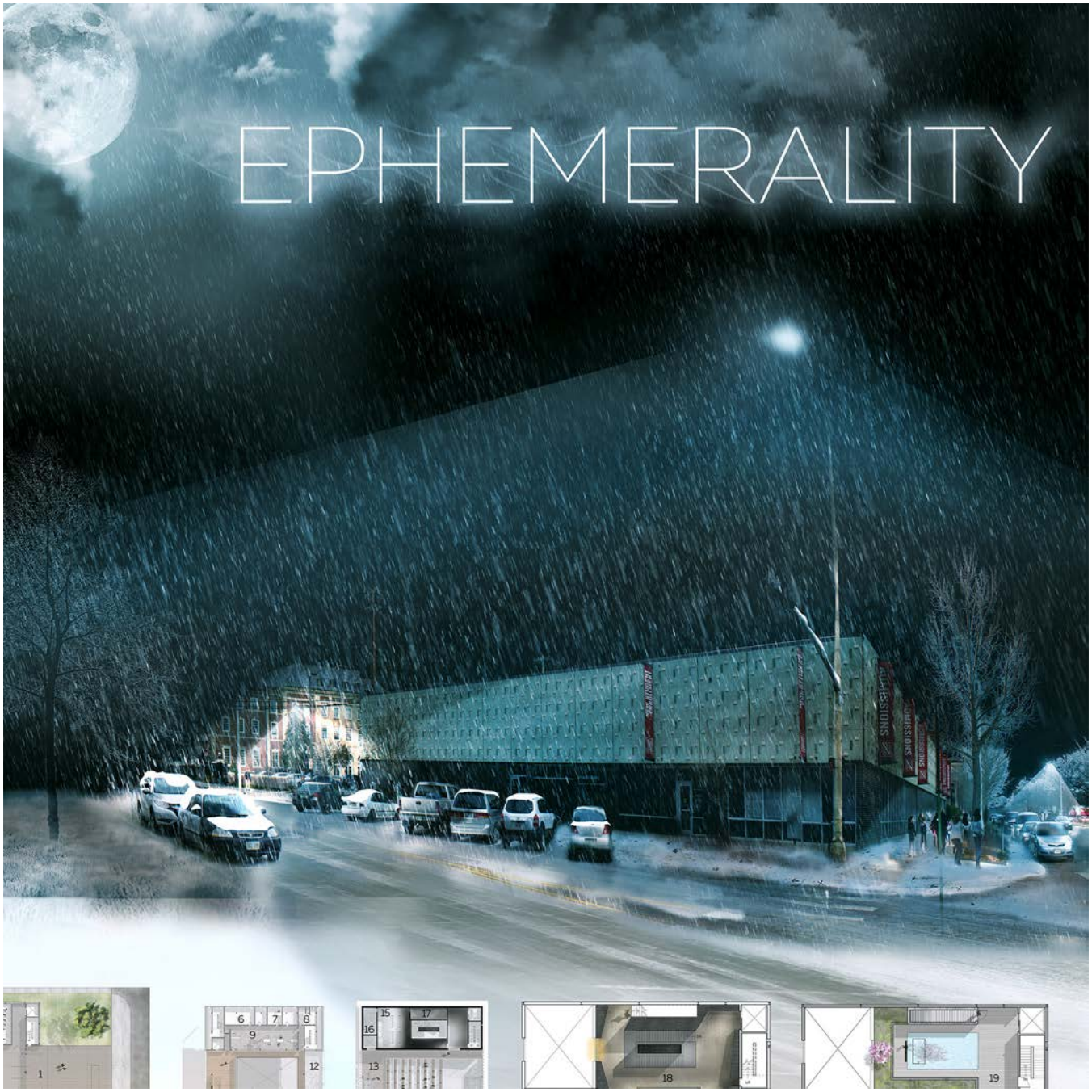
David Alcala, Josh Puppe
Faculty Mentor: Mark Bacon

Located on the threshold between The University of Nebraska – Lincoln and Downtown, St. Joseph's Catholic Church looks to serve not only the campus population but that of the city as well. The church would serve these communities by facilitating an understanding of human life and death by creating a dynamic relationship between traditional chapel programming, juxtaposed with an elevated columbarium (a room for urns to be stored). Thus presenting inhabitants with a traditional space of worship and hope, and one of contemplation and remembrance. This dynamic relationship is strengthened through the employment of light, material logic, and the concept of ascension through architecture. These project goals are achieved by designing spaces around light such as the main chapel and others around darkness, such as the private chapel to reflect the program of the room through the atmosphere being created. A material logic was employed to further this relationship between lightness and darkness, manifesting itself as a contrast between black granite, which houses the columbarium, and an aluminum perforated system with an interior wooden scrim, which houses the main chapel spaces. Through the concept of ascension the building was laid out in such a way that the user begins in public spaces on the first and second floors, and as they continue vertically, reach more intimate spaces to promote a sense of contemplation and reflection within the architecture. As the user finishes their journey at the rooftop garden, they are reminded of the hope that remains in life and death.


ST. JOSEPHS CATHOLIC CHURCH

ST. JOSEPHS CATHOLIC CHURCH

Alcala + Puppe | Board 1



Alcala + Puppe | Board 2

Alcala + Puppe | Board 3

Alcala + Puppe | Board 4

Finalist

Air Rights Architecture

Kevin Baitey, Natalia Sabrina Ortiz
Faculty Mentor: David Karle

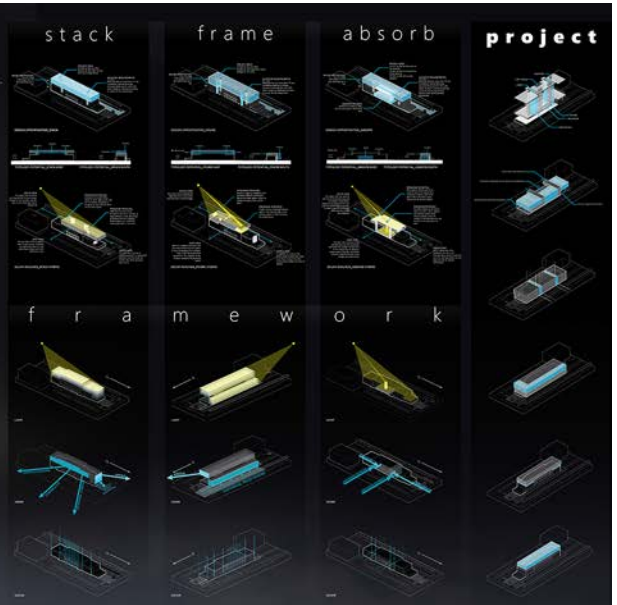
Air rights constitute the ownership of space at and above the top of a certain property. The potential benefits of developing air rights is most evident in cities like New York and Chicago where rising land values and the expansion of ground transportation create a desperate need for real estate development. However, the benefit of developing air right structures should not be limited to large cities. For some smaller cities, growth and expansion of modern facilities are beginning to overshadow historic buildings. As these cities expand, they must make compromises when it comes to real estate and often times the expensive-to-maintain historic buildings become targets for demolition. Protecting the landmarks in cities of all sizes allow them to celebrate the meaning of a building to the history and culture of the modernized city and it is only through the documenting and preserving of history that a city can trace its progress and quantify its success. By integrating an income-generating building, or simply renting out its air rights, we can provide a historic building with the necessary funding and pragmatic reasons to remain standing. Therefore, the development of this boutique hotel will not only serve to provide a gallery and hotel to Lincoln, but it will also add a historic layer to the cultural fabric of the Haymarket District by projecting, protecting, and celebrating the symbol that is the Lincoln Train Station to the aspirations of the city.

THE NEW BURLINGTON

HOTEL AND MUSEUM

stack frame absorb **project**

f r a m e w o r k



HISTORY

When the Union Pacific Railroad started to built across Nebraska in 1865, it became the dominant force in shaping the state and thus the development of its capital in Lincoln. By the time Lincoln was established as the state capital in 1868, it was already a booming town. In 1870 the Burlington and Missouri River Railroad's first arrived in Lincoln and were followed shortly after by the Midland Pacific in 1871. The Union Pacific joined in 1877. By 1880, Lincoln was a rail center and one of the few cities serving as the gateway to the west. At the time of establishment of the railroads in 1870, population in the city was approximately 2,500. By 1880, population was 13,000 and by 1890, there were 55,000 residents. Today, the city has 280,000 people. The addition of the railroad allowed for Lincoln to grow and build recognition as a travel and trade zone. It also provided the city with the ability to grow in other aspects. The Lincoln Gas Light Company was organized in 1872, a Courthouse was built in 1874-1879 and the first department stores opened in 1880. Our site, the Lincoln Station was built in 1927 and was deemed one of the finest buildings owned by Burlington Railroad at the time. The most luxurious space was the waiting area of the station, which has since been converted to a banquet hall. This building became one of the most symbolic buildings for Lincoln as it was the welcoming sign for any new residents or visitors. Thus, the Lincoln Station currently serves as a bridge to the strong and ambitious roots of this growing city.

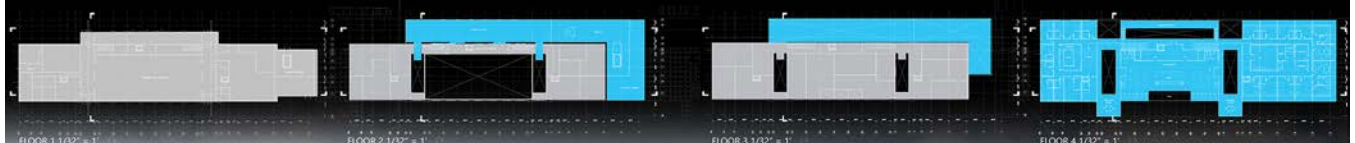
THESIS

Through the development of a boutique hotel on this site, we will aim to frame the ambitions of a past railroad hub with the aspiring future of a growing city through the celebration and projection of the beacon that the Train Station once was.

SITE PLAN 1"=128'

WEST SECTION 1/16" = 1'

EAST SECTION 1/16"=1'



FLOOR 1 1/32" = 1'

FLOOR 2 1/32" = 1'

FLOOR 3 1/32" = 1'

FLOOR 4 1/32" = 1'

WEST ELEVATION 1/32"=1'

NORTH ELEVATION 1/32"=1'

NORTH SECTION 1/32"=1'

SOUTH ELEVATION 1/32"=1'

EAST ELEVATION 1/32"=1'

LOBBY

CORRIDOR

CORRIDOR

GUEST ROOM

THE NEW BURLINGTON

HOTEL AND MUSEUM

HISTORY

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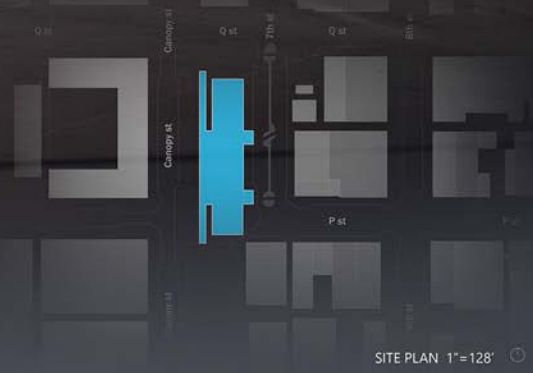


SITE PLAN 1"=128'

Baitey + Ortiz | Board 1

Baitey + Ortiz | Board 2

Baitey + Ortiz | Board 3

Baitey + Ortiz | Board 4

Finalist

KCAI Department of Architecture

Adam Heier, Jon Magruder
Faculty mentor: Joyce Raybuck

Human interaction is a vital portion of our day-to-day lifestyle and an innate need of our own humanity. In an increasingly technological world, it becomes critical that we not only maintain face-to-face communication, but also to help foster it and use it as a tool to further our understanding and solve some of the largest problems that our world faces. We believe that all disciplines, regardless of background, can use their own humanity and communication skills to advance solutions to issues not yet found or realized. Our proposal for Department of Architecture at the Kansas City Art Institute is centered on human interaction through the lens of collaboration and how architecture can enhance this interaction to help solve problems, both architectural and not.

However, to accomplish a human-centered architectural space and make it effective, a wide variety of spaces must be incorporated to address the plethora of problems the users of these spaces might be solving. Incorporating characteristics of highly collaborative spaces is crucial to how each space functions and how people use it. Part of this, as an educational building, is to educate the people using these collaborative areas, and the students in this department on what makes architecture collaborative and human-centered.

Architecture is one discipline that has a large impact on how people interact and use space. Our goal is to maintain our humanity in a technologically-driven world to help address some of today's largest issues through architectural spatial occupation.

KANSAS CITY ART INSTITUTE
DEPARTMENT OF ARCHITECTURE

ADAM HEIER AND JON MADRIGUER

DEPARTMENT MISSION:

The Department of Architecture at the Kansas City Art Institute seeks to provide an education CENTERED ON THE HUMAN, COLLABORATION, COMMUNITY SERVICE, AND A PROACTIVE DESIGN CULTURE. Our goal is to cultivate well rounded, locally and globally-minded professionals that CREATIVELY PROCESS IDEAS through design.

RESEARCH MISSION:

The future of sustainability lies in well-designed, HEALING ENTIRELY ARCHITECTURAL SPACE. The KCAI Architectural Research Center sets out to ADDRESS SPATIAL DISCONNECTION through the lens of HUMAN SCALE INTERACTION. To create holistic and effective investigations, forward thinking students from diverse backgrounds will COLLABORATE to drive innovation and creativity.

SCOPE OF INTERACTION:

FACULTY DEPARTMENTS STUDENTS

KANSAS CITY ART INSTITUTE

COMMUNITY & PROFESSIONALS

NEIGHBORHOOD KANSAS CITY UNITED STATES GLOBE

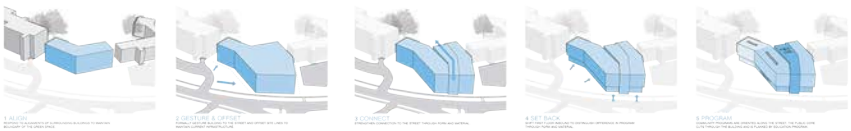
VIEW FROM GREENSPACE

ATRIUM

CIRCULATION PATH

NATURE OF COLLABORATION:

FORM GENERATION:



COLLABORATIVE EXCHANGES:

COLLABORATIVE SPACES:

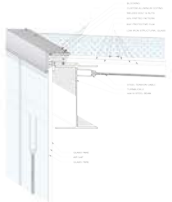
STUDIO

MEETING SPACE

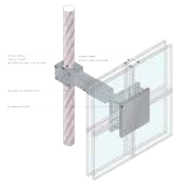
CRITIQUE / CLASSROOM

LIBRARY

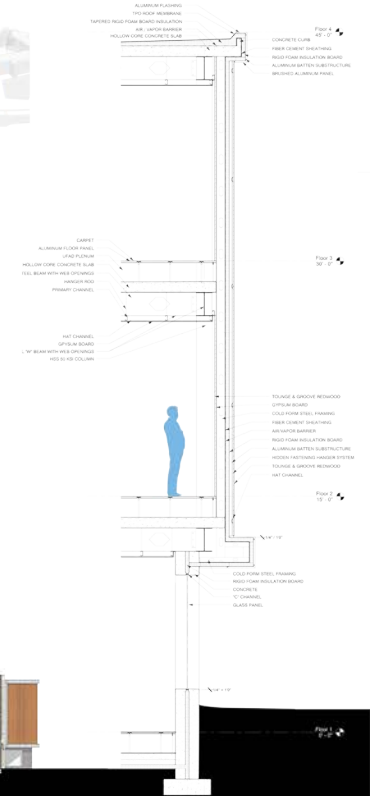
SITE PLAN



CABLE NET GLASS CORNER



CABLE NET GLASS CLAMP



REDWOOD WALL SECTION

WEST ELEVATION

LONGITUDINAL SECTION

KANSAS CITY ART INSTITUTE
DEPARTMENT OF ARCHITECTURE

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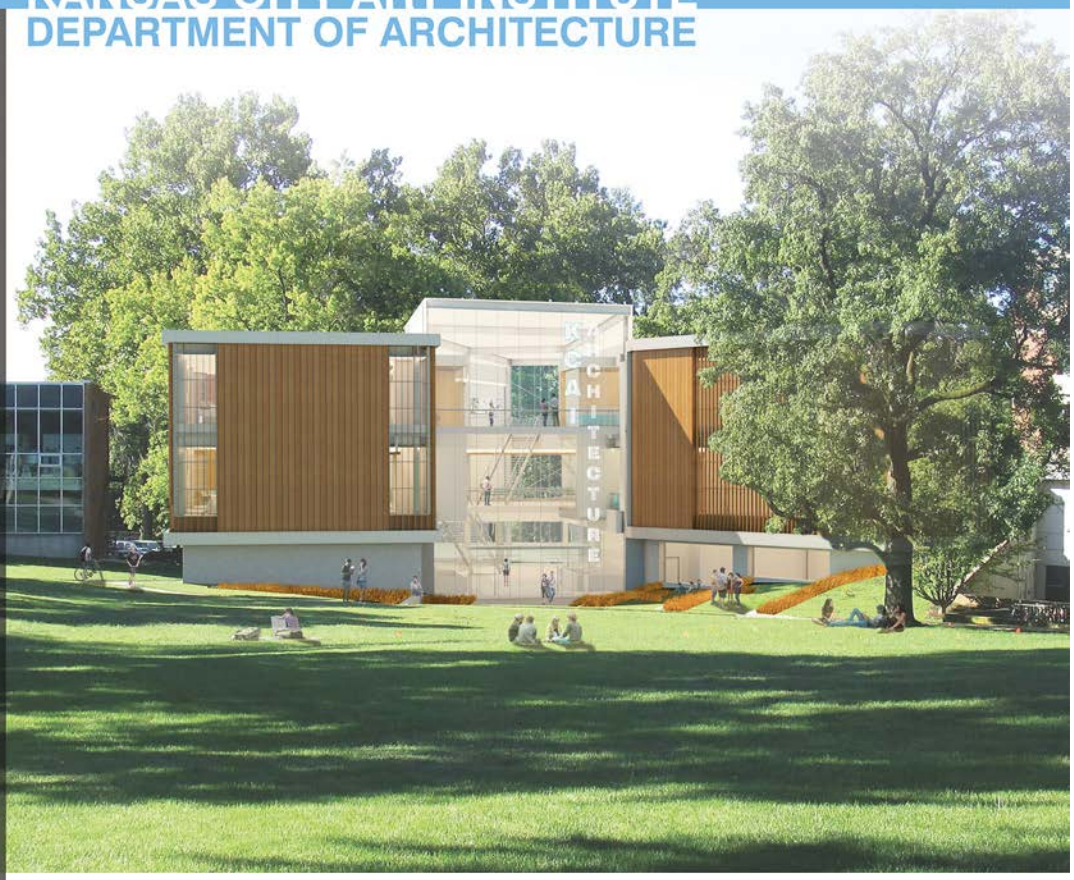
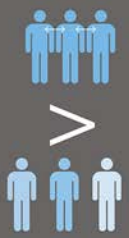
The future of sustainability lies in well-designed, HUMAN-CENTERED ARCHITECTURAL SPACE. The KCAI Architectural Research Center sets out to REDEFINE SPATIAL OCCUPATION through the lens of HUMAN SOCIAL INTERACTION. To create holistic and effective investigations, forward-thinking experts from diverse backgrounds will COLLABORATE to drive innovation and creativity.

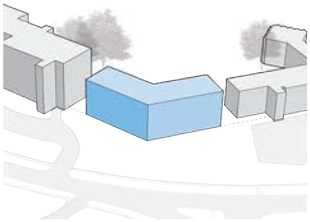


SCOPE OF INTERACTION:

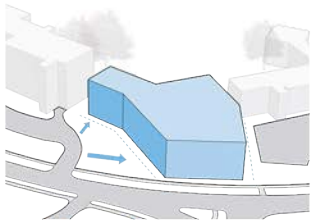
NATURE OF COLLABORATION:



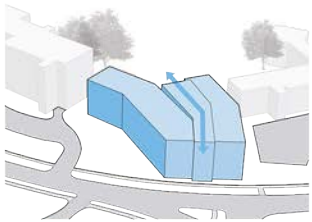
FORM GENERATION:



1 ALIGN
RESPOND TO ALIGNMENTS OF SURROUNDING BUILDINGS TO MAINTAIN BOUNDARY OF THE GREEN SPACE.



2 GESTURE & OFFSET
FORMALLY GESTURE BUILDING TO THE STREET AND OFFSET SITE LINES TO MAINTAIN CURRENT INFRASTRUCTURE.

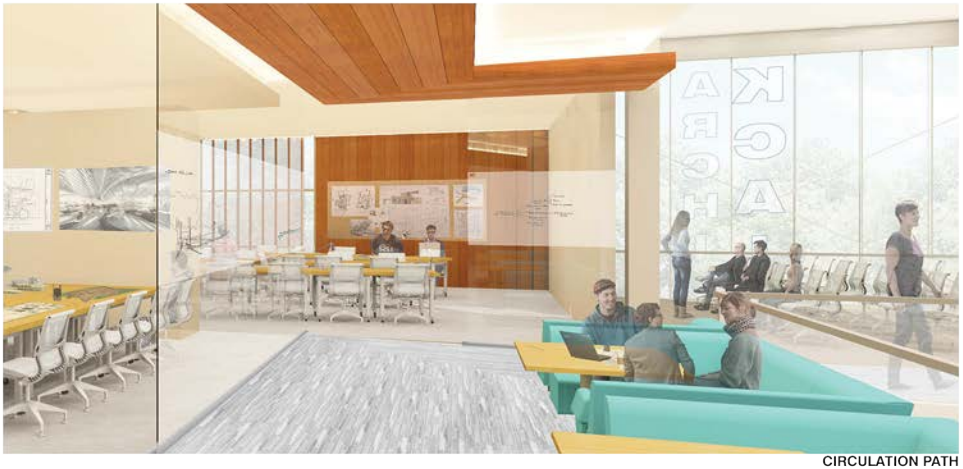


3 CONNECT
STRENGTHEN CONNECTION TO THE STREET THROUGH FORM AND MATERIAL.

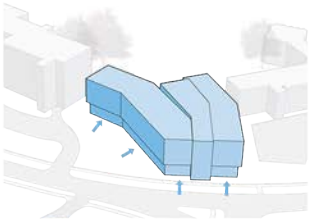
Heier + Magruder | Board 1

VIEW FROM GREENSPACE

ATRIUM

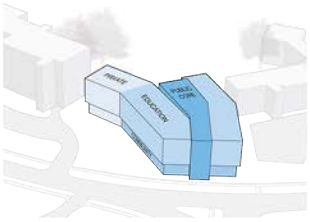


CIRCULATION PATH



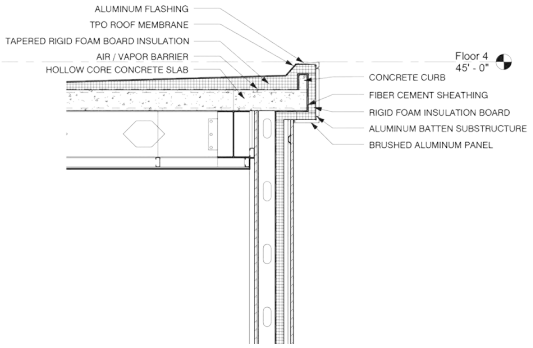
4 SET BACK

SHIFT FIRST FLOOR INBOUND TO DISTINGUISH DIFFERENCE IN PROGRAM THROUGH FORM AND MATERIAL.

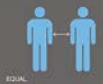


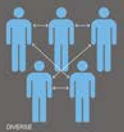
5 PROGRAM

COMMUNITY PROGRAMS ARE ORIENTED ALONG THE STREET. THE PUBLIC CORE CUTS THROUGH THE BUILDING AND IS FLANKED BY EDUCATION PROGRAM.



COLLABORATIVE EXCHANGES:





COLLABORATIVE SPACES:

STUDIO

MEETING SPACE

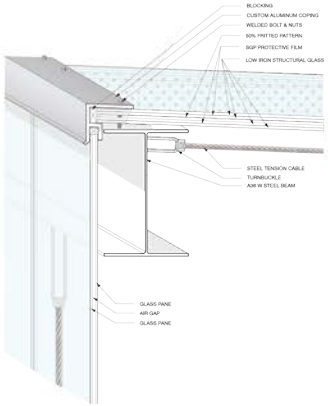
CRITIQUE / CLASSROOM

LIBRARY

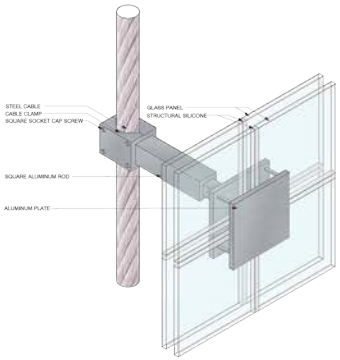
SITE PLAN

WEST ELEVATION

Heier + Magruder | Board 3

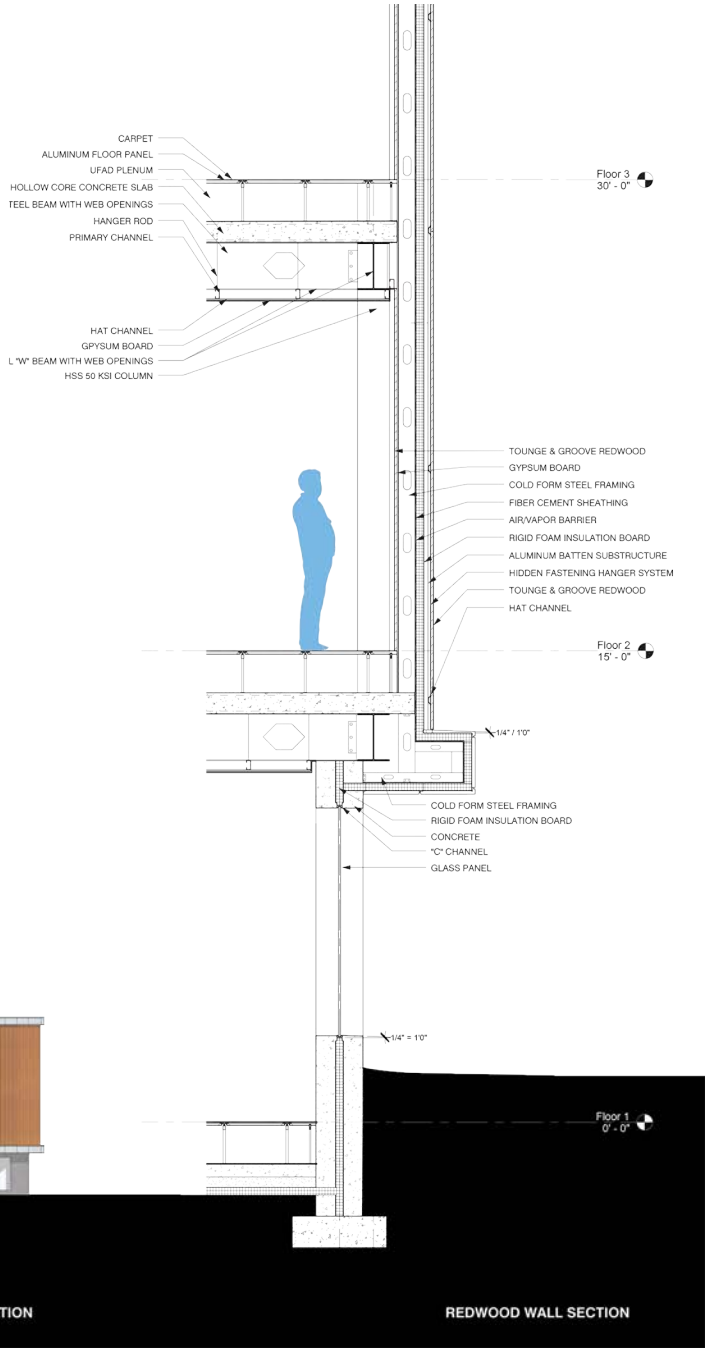


CABLE NET GLASS CORNER



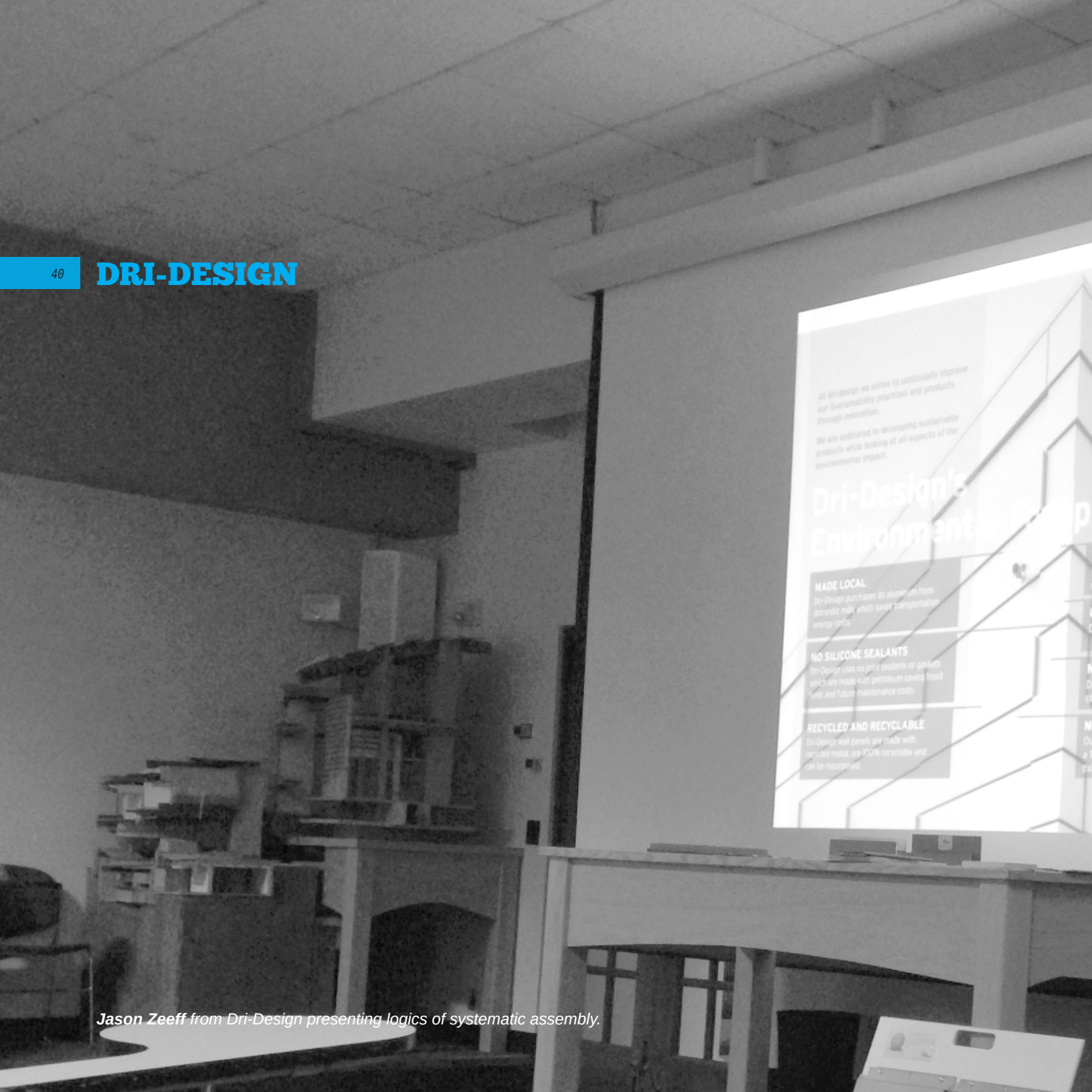
CABLE NET GLASS CLAMP

LONGITUDINAL SECTION



REDWOOD WALL SECTION

DRI-DESIGN



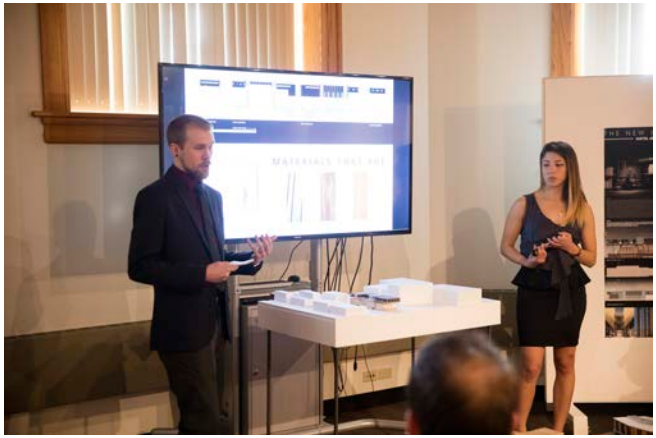
***Jason Zeeff** from Dri-Design presenting logics of systematic assembly.*


EFFICIENT MANUFACTURING
QUICK INSTALL
O PLASTICS
O VOCs

Troy Burkey *from SGH presenting material and spatial properties.*


brit
University Police
402-472-2222
Facilities Help
Call 472-1550
Multi-Media Help
Call 472-5511


SGH + DRI-DESIGN



DESIGN STUDIOS

Mark Bacon
Adjunct Professor of Architecture

*David Alcala + Josh Puppe
Kalee Boehler + Brittany Coudriet
Ethan Hale + Greg Preston
Scott Kenny + Nate Sandercock
Katelynn Larsen + Ryan Wichtendahl
Megan Michalski + Julie Reynolds
Allen Phengmarath + Carlos Servan-Alvarez
Zenan Shen + Evan Wermers

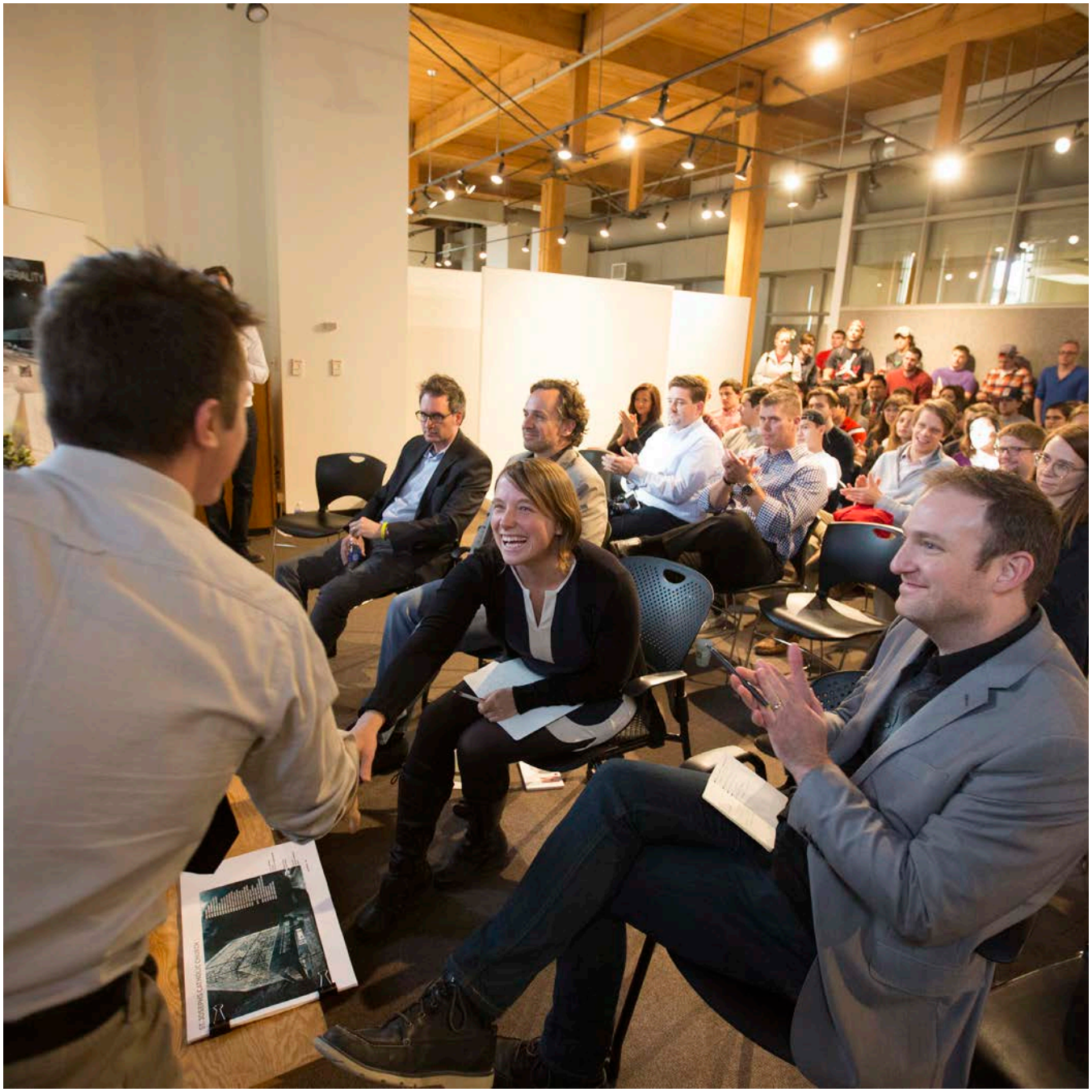
David Karle
Assistant Professor of Architecture

*Kevin Baitey + Natalia Sabrina Ortiz
Dayna Bartels + Aubrey Workman
Joseph Croghan + Jose De Arcos
Brian Duncan + Benjamin Ludeman
Madeline Kenny + Skyler Kruse-Asmussen
Kurt Lawler + William Pokojski
Tyler Louis + Benjamin Macke
Sarah Schlegelmilch + Pierce Tallichet

Joyce Raybuck
Adjunct Professor of Architecture

*Adam Heier + Jonathan Magruder
Lenora Allen + Anne McManis + Hilary Wiese
Gavin Friehauf + Alex Moore
Lucas Hayden + Davielle Phillips
Jinhui He + Julio Munos
Jeremy Kubitz + Darian Scott
Wenting Li
Charles Weak + Adam Wiese

*** Studio Finalist**



2015
SGH / Dri-Design
Scholarship

Fall 2015
ARCH 410 ‘integrate’ design studio
University of Nebraska-Lincoln
College of Architecture

HAPPYDEATH