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Architecture Student Design Competition 2016 Final Report

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ARCHITECTURE STUDENT DESIGN COMPETITION

2016 Final Report

Dry Stack Design

BGSU DEPARTMENT OF ARCHITECTURE AND ENVIRONMENTAL DESIGN
BOWLING GREEN STATE UNIVERSITY

National Concrete Masonry Association FOUNDATION
Ohio Masonry Association

COMPETITION OVERVIEW

- Summary
- Guidelines
- Marketing poster
- Participants registration

DESIGN PHASE

- 5 Submissions
- Initial judges' scores

BUILD PHASE

- 3 Submissions
- Final judges' scores

ASSESSEMENT

- Survey analysis
- Student responses

2016 Participants in the Architecture Student Design Competition sponsored by the National Concrete Masonry Association Foundation.

Competition

In the months of September through November of 2016, the BGSU Architecture Program held its eighth annual Architecture Student Design Competition. Five teams of students explored the theme “Dry Stack Design.“ The competition challenged students to submit designs for an experimental construction in the context of an outdoor site on the grounds of the main campus, and to explore a variety of issues related to the use of dry-set CMU in design and construction. This year’s students also considered concepts that govern architecture within a tectonic tradition of craft, construction, detail and assembly as exemplified by America artist Robert Irwin’s work for the Chinati Foundation, a contemporary art museum in Marfa, Texas. Mr. Irwin designed a C-shaped building made with CMU’s and no artificial light except what comes in through the large, regularly spaced windows; walls of translucent scrim bisecting the interior, making views inside dissolve into a kind of vapor; and a courtyard. With that in mind, the teams were asked to investigate the interrelationship of geometry, form, tectonics, and materiality as it relates to overarching organizational systems, structural logic, and physical setting. The goal of this year's competition was to inspire we, as designers, to explore the endless possibilities of the CMU’s composition using concrete masonry units and segmental retaining walls (SRW) or articulating concrete block (ACB) units traditionally produced by Ohio NCMA Producer Members.

Judging and Awards

This year's competition produced unusually strong entries. Judges were asked to consider the following criteria, balanced by their personal preferences: innovative use of material, physical design, and adaptive construction technique. The final jury, which took place on Monday, November 14th, 2016, awarded one First Prize, one Second Prize and one Third Prize, with judges unanimous in their praise for the winning projects, their important contribution to design/build culture, and the creation of the winning designs' inventive stacking patterns and textural quality of joining concrete masonry units.

Cash Prizes

Cash prizes of $1,000, $500, and $250 went to the first, second and third place teams. Prize money was donated through a grant from the National Concrete Masonry Association Education and Research Foundation.

Competition Objectives

- Bridge a relationship between architectural representation and physical buildings
- Emphasize the interrelation of design and construction

- Encourage students to work as part of collaborative teams, resolving conflicts, and managing communication
- Further the understanding of CMU's as one of the world's most durable, economical and functional building material
- Encourage innovative solutions to the challenge posed by designing with CMU's
- Highlight CMU's as GREEN building materials and their contribution towards LEED building points
- Connect students with individuals from concrete masonry industries
- Promote exemplary designs of future designers by displaying them prominently on campus
- Utilize CMU's as a guideline for building design and performance
- Recognize and award students for creative and innovative use of CMU's

Feedback

In written responses to a post-competition questionnaire, the students strongly agreed that the competition was a rewarding experience in allowing them to develop critical insights about a unique building material: the CMU. Students also enjoyed the hands-on aspect of the challenge: out of the studio, into the field, where they had to reconcile their drawings with real structures they could build; the students reported an enhanced quality of learning that led to fresh perspectives on the nature of sites, structures, materials, and other real-world considerations.

Acknowledgements

We gratefully acknowledge the generous contributions of our sponsors, especially the National Concrete Masonry Association Education and Research Foundation (NCMAF) and the Ohio Masonry Association (OMA) whose ongoing support and interest has been crucial to the success of the competition. Grant money from the Foundation has made the competition possible for eighth consecutive years, including 2016.

Special Thanks

Jeremy Adams, Designer, the jdi group, Maumee, Ohio
Erin Curley, Architect, AIA, RCM Architects, Findlay, Ohio
Darryl Molzon, M.Arch. Student, BGSU, Ohio
Josh Naragon, Executive Director OMA, Bellefontaine, Ohio
Kristin Peiffer, Project Manager, Office Design & Construction, BGSU, Ohio
Lubomir Popov, Ph.D., Associate Professor of Interior Design, BGSU, Bowling Green, Ohio
Craig Schriner, Engineering Projects Manager, National Concrete Masonry Association, Herndon, Virginia
Jason Thompson, VP Engineering, National Concrete Masonry Association, Herndon, Virginia

ARCHITECTURE STUDENT DESIGN COMPETITION BRIEF

National Concrete Masonry Association FOUNDATION

Solidifying The Future THE NCMA FOUNDATION

Ohio Masonry Association

BGSU DEPARTMENT OF ARCHITECTURE AND ENVIRONMENTAL DESIGN
BOWLING GREEN STATE UNIVERSITY

PART ONE

1.1 Competition Overview

This year's Architectural Materials and Systems class will participate in a design/build competition sponsored by the National Concrete Masonry Association Foundation. 15 students, working in teams of three, five teams total, will design a structure to be built entirely out of concrete masonry units (CMU). Each team will put together a design presentation that will be evaluated by a jury of professional architects and construction and design experts. The presentations will include exploratory drawings, a brief essay explaining the conceptual and pragmatic aspects of the design, and both a digital and conceptual model.

The first jury will select three projects out of five submissions to be built full-scale. Outdoor construction of the chosen designs will be carried out with the support and cooperation of everyone in the class. All construction will be completed within approximately four class periods.

A second jury will then judge the three entries for recognition and rank them according to first, second, and third place. Design quality and masonry construction techniques will be the basis of the evaluation.

1.2 Registration & Eligibility

This design/build competition is open to all registered BGSU Juniors majoring in architecture, including students in the Architectural Materials & Systems (ARCH 3360) class with the exception of any person whose relationship to a juror might affect the juror's impartiality in carrying out his or her responsibilities.

Students enrolled in ARCH 3360: Architectural Materials and Systems are required to participate in groups of three. Each group will select a member to act as the project manager and design representative at the juried presentation. In addition, each team must have at least one junior majoring in architecture.

Each submission must include a separate entry form, and each entry form must list all group members.

1.3 Tentative Schedule

Phase one:

Tuesday September 27:	Competition registration opens
Date TBA:	Field Trip to Wayne Builders Supply
Thursday September 29:	Registration deadline
Monday October 3:	Notify NCMA of Marketing Effort
Tuesday October 4:	Dry run of the submissions
Wed October 5:	Notify NCMA of names of the entrants
Thursday October 06:	Entries must be received by 6:00pm to be juried. First round of jury deliberations and public announcement of the three selected design projects

Phase two:

Tuesday October 11:	Fall Break!
Thursday October 13:	1st Session of design/build
Tuesday October 18:	2nd Session of design/build
Thursday October 20:	3rd Session of design/build
Tuesday October 25:	4th Session of design/build
Thursday October 27:	Alternative session due to weather
Tuesday November 1:	Final jury deliberation and public announcement and reception for the winning projects

PART TWO

2.1 Project Description

This project is designed to focus attention on the physical properties of materials and the logic of construction techniques. First-hand knowledge of materials - not only what they look like, but their texture, their heft, their pliability and their particular joining requirements- expand a designer's conceptual range and design intelligence. Actual experience handling materials and meeting the demands of construction techniques provides an understanding that cannot be duplicated in any other format. Materials and construction are fundamental to design and not merely functional or technical concerns to be worked out later. Materials and construction techniques can be appreciated as aesthetic contributions, not just as the physical.

a) Aesthetic Concept
b) Innovative Use of Concrete Masonry Materials
c) Functional Use of Concrete Masonry Materials
d) Constructability
e) SRW or ACB Hardscape Design

2.2 Glossary

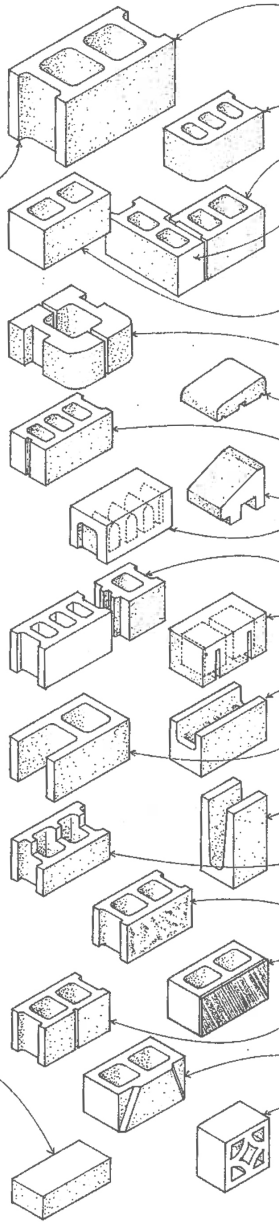
Concrete Masonry
Concrete masonry units (CMU) are precast of portland cement, fine aggregate, and water, molded into various shapes to satisfy various construction conditions. The availability of these types varies with locality and manufacturer.

- Concrete block, often incorrectly referred to as cement block, is a hollow concrete masonry unit having a compressive strength from 600 to 1500 psi (4137 to 10,342 kPa).
- Normal-weight block is made from concrete weighing more than 125 pcf (2000 kg/m^3).
- Medium-weight block is made from concrete weighing from 105 to 125 pcf (1680 to 2000 kg/m^3).
- Lightweight block is made from concrete weighing 105 pcf (1680 kg/m^3) or less.

CMU Grades
- Grade N is a loadbearing concrete masonry unit suitable for use both above and below grade in walls exposed to moisture or weather; grade N units have a compressive strength from 800 to 1500 psi (5516 to 10,342 kPa).
- Grade S is a loadbearing concrete masonry unit limited to use above grade, in exterior walls with weather-protective coatings, or in walls not exposed to moisture or weather; grade S units have a compressive strength from 600 to 1000 psi (4137 to 6895 kPa).

CMU Types
- Type I is a concrete masonry unit manufactured to a specified limit of moisture content in order to minimize the drying shrinkage that can cause cracking.
- Type II is a concrete masonry unit not manufactured to a specified limit moisture content.

- Concrete brick is a solid rectangular concrete masonry unit usually identical in size to a modular clay brick but also available in 12" (305) lengths; concrete brick units have a compressive strength from 2000 to 3000 psi (13,790 to 20,685 kPa).



Stretcher blocks have two or three cores and nominal dimensions of 8" x 8" x 16" (205 x 205 x 405); 4", 6", 10" and 12" (100, 150, 255 and 305) wide units are also available.
Bullnose blocks have one or more rounded exterior corners.
Corner blocks have a solid end face for use in constructing the end or corner of a wall.
Corner-return blocks are used at the corners of 6", 10", and 12" (150, 255, and 305) walls to maintain horizontal coursing with the appearance of full- and half-length units.
Double-corner blocks have solid faces at both ends and are used in constructing a masonry pier.
Pilaster blocks are used in constructing a plain or reinforced masonry pilaster.
Coping blocks are used in constructing the top or finishing course of a masonry wall.
Sash or jamb blocks have an end slot or rabbet to receive the jamb of a door or window frame.
Sill blocks have a wash to shed rainwater from a sill.
Cap blocks have a solid top for use as a bearing surface in the finishing course of a foundation wall.
Control-joint blocks are used in constructing a vertical control joint.
Sound-absorbing masonry units have a solid top and a slotted face shell, and sometimes a fibrous filler, for increased sound absorption.
Bond-beam blocks have a depressed section in which reinforcing steel can be placed for embedment in grout.
Open-end blocks have one end open in which vertical steel reinforcement can be placed for embedment in grout.
Lintel blocks have a U-shaped section in which reinforcing steel can be placed for embedment in grout.
Header blocks have a portion of one face shell removed to receive headers in a bonded masonry wall.
Split-face blocks are split lengthwise by a machine after curing to produce a rough, fractured face texture.
Faced blocks have a special ceramic, glazed, or polished face.
Scored blocks have one or more vertical grooves that simulate raked joints.
Shadow blocks have a face shell with a pattern of beveled recesses.
Screen blocks, used especially in tropical architecture, have a decorative pattern of transverse openings for admitting air and excluding sunlight.

2.3 Program

This year's theme "Dry Stack Design" explores the considerations and concepts that govern architecture within a tectonic tradition of craft, construction, detail, and assembly as exemplified by Robert Irwin's work for the Chinati Foundation, a contemporary art museum in Marfa, Texas founded by Donald Judd to reconfigure an existing U-shaped army hospital compound into a site-specific sculpture. The 10,000-square-foot project was just recently opened in July.

As a starting point, you will be asked to investigate the interrelationship of geometry, form, tectonics, and materiality as it relates to overarching organizational systems, structural logics and physical setting. The goal of this year's competition is to inspire you, as a designer, to explore the endless possibilities of CMU's as composition: using concrete masonry units and segmental retaining walls (SRW) or articulating concrete block (ACB) units traditionally produced by Ohio NCMA Producer Members.

Specifically, you are encouraged and expected to exploit the endless possibilities of expression through the intuitive, rational and innovative integrations of CMU's. Besides the possible combinations of placing concrete blocks adjacent to another material, the visual ecology of the site creates an interesting challenge to find a meaningful and poetic interpretation. But equally important: How can CMUs influence form, affect space, challenge perception and elicit experience that supports and contributes to an architectural scheme?

It is up to you to re-design one of the four existing structures (retaining wall, encircled fire pit, linear-shaped element and curvilinear wall) and go beyond the traditional boundaries of closed architectural spaces by re-integrating the surrounding landscape and environment in new additive and subtractive compositions that showcase CMU's as a building material.

Each re-design folly must specifically address conditions and reference as follows:

1) Chose one site out of the four and explain why: retaining wall, encircled fire pit, linear shape of element or curvilinear wall
2) Site analysis (reconfigure the ground plot, circa 8 ’x 8’)
3) Develop a narrative to include adding at least two more differences in heights to the existing structures and a panoramic opening that frames the surroundings like in a painting
4) Research, as a reference, American artist Robert Irwin and his work at the Chinati Foundation, https://chinati.org/robertirwin/robertirwin.php

2.4 Site

The three selected designs emphasizing “Dry Stack Design” will be built next to Parking Lot 19 on Poe Street across from the Wood County Airport. The parking lot and its contents, the trees, the small man-made hill and the airport hangar should all be considered as elements of your design.

2.5 Field Trip
A field trip is planned to Wayne Builders Supply manufacturing plant in Greenville, Ohio.
When:
Date TBA: Wayne Builders Supply Tour @2:30PM

Where:
Wayne Builders Supply, 5410 St. Rt. 49, Greenville Ohio 45331 (circa 126 mi; about 2 hours 10 minutes from BGSU, Leaving @12:15PM)
Contact: Mike Homan, mike@waynebuilderssupply.com, (937) 417-2599

Directions:
> Get on I-75 S from E Poe Rd and 95/N Mercer Rd
> Follow I-75 S to US-36 W/E Ash St in Piqua.
> Take exit 82 from I-75 S
> Continue on US-36 W. Drive to OH-49 N in Greenville
> The destination will be on the left of OH-49 ca. 24 miles from exit 82

Of course, some of you may know a better route, which is fine as long as you get there on time!

PART THREE
3.1 Submission Requirement
All entries must be submitted without identifying marks (logos, text, insignia, or images) on any presentation component. Any submission that contains written or graphic material that in any way identifies the student authors will be disqualified.

Teams must upload an electronic copy of the completed registration form into Share One or Canvas compiled as a single PDF file of the presentation boards (images at a minimum 300dpi, as a tiff or jpg image).

No visible sign of the submission's authors (students) in any way, shape or form on any presentation components.

Submission for phase one
Board Size
Two (2) 20”x 20” boards to be presented together as a single 40”x 20” landscape formatted presentation. Each board must be mounted separately on 1/4” white foam board. Each board must include the group’s registration number in the lower right-hand corner of the board using a 48-point font.

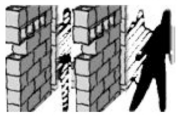
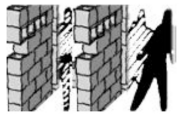
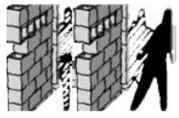
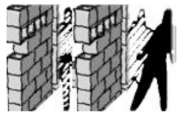
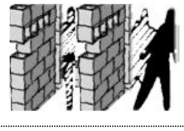
Required drawings:
Board One (left board in overall presentation):
Precedent study, process sketch(es), analytic diagram(s), proposal rendering (digital modeling)

Board Two (right board in overall presentation):
Technical documentation (plan, section, elevation, details, etc.)

Text:
Required brief design statement

Submission for Phase Two
Execution of design at 1:1 scale

3.2 Group Registration

	Team Members 5	1. Devon Parker 2. Jasmine Jones 3. Johnny (Guangyu) Chen
	Team Members 8	1. Thomas Templin 2. Haley Evans 3. Benjamin Cook
	Team Members 10	1. Bayleigh Hetrick 2. Joel Dennis 3. Joshua Linhardt
	Team Members 12	1. Grayson Schoenbine 2. Fadl Ageel 3. Mike Haynes
	Team Members 14	1. Savannah Cook 2. Josh Hall 3. Juhisha Ray

3.3 Jury and Award

Final Jury

BGSU Architecture and Environmental Design Department Representative:
Jim Turissini, AIA, Adjunct Faculty

BGSU Capital Planning Representative:
Fritz Roberson, AIA

Local Architect:
Erin Curley, AIA, RCM Architects, Findlay, Ohio

OMA State:
Josh Naragon, Ohio Masonry Association, Executive Director

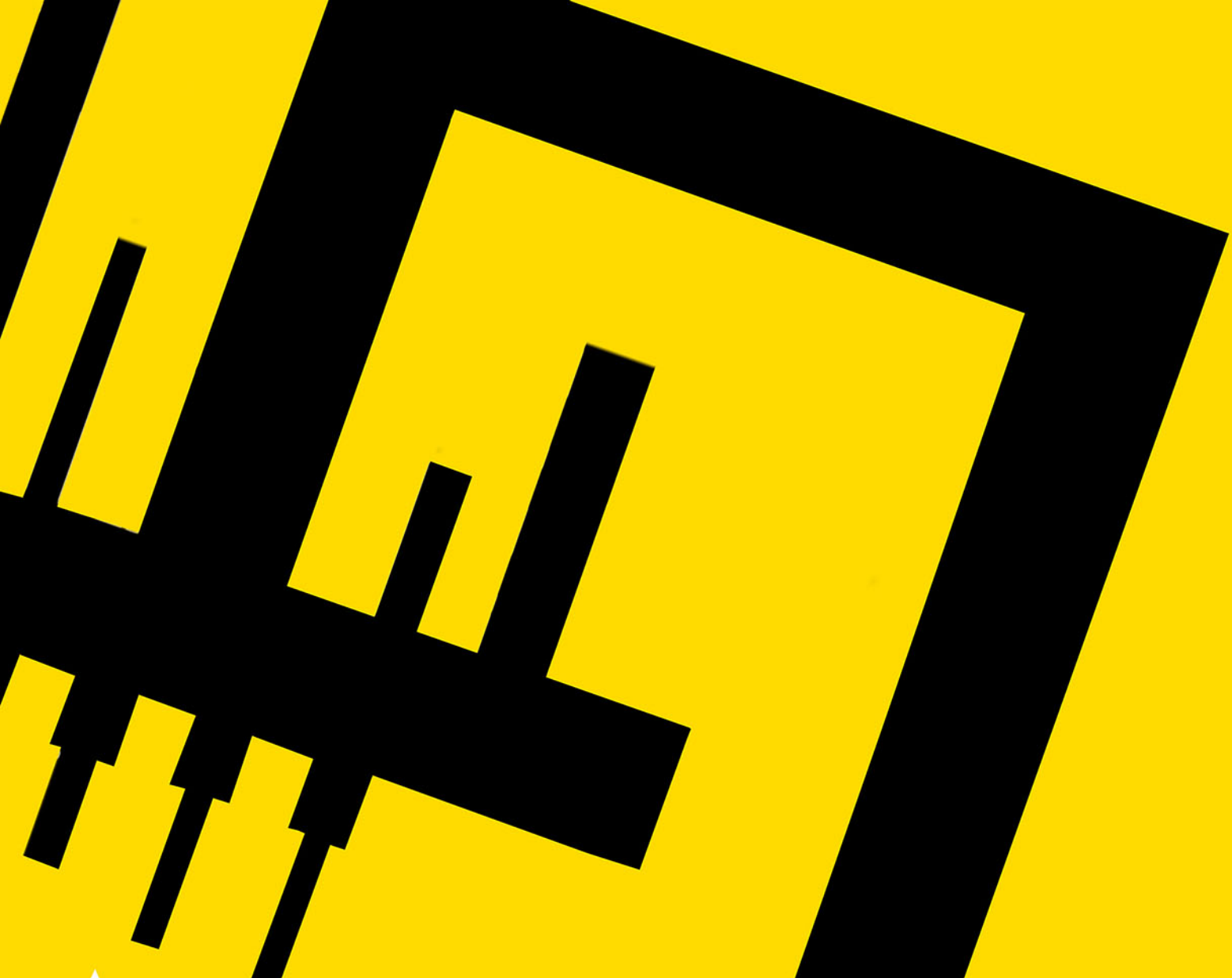
Alternative:
Lubomir Popov, Ph.D., Professor, BGSU Interior Design Program

Judging Criteria

a) Aesthetic Concept (the visual appeal of the design, including: overall appearance; the use of color, shape, and texture; and integration with the surrounding landscape)
b) Innovative Use of Concrete Masonry Materials (novel use of standard concrete masonry products)
c) Functional Use of Concrete Masonry Materials (how well the design utilizes the various capabilities of traditional concrete masonry units as building material)
d) Constructability (how well the design takes into consideration its ability to be actually built)
e) SRW or ACB Hardscape Design (aesthetic appeal and function of complementary concrete masonry hardscaping materials, applicable for the design part of the competition)

Award

1.	Best Design/Build	First Place	$1,000
2.	Best Design/Build	Second Place	$ 500
3.	Best Design/Build	Third Place	$ 250



ARCH

2016 STUDENT DESIGN COMPETITION

Competition Registration: September 27
Field Trip CMU Factory: October TBA
Part One Design: September 27 - October 6
Eliminate Jury: October 6
Part Two Build: October 11-27
Final Jury: November 1

DEPARTMENT of ARCHITECTURE
and Environmental Design
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contact: aluesch@bgsu.edu
419 372 ARCH (2274)

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ohio Masonry Association

BGSU Bowling Green State University

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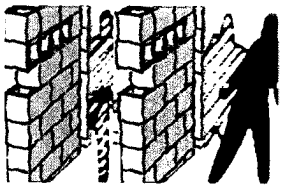
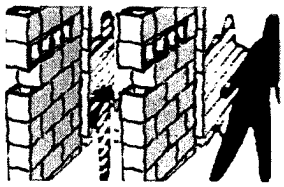
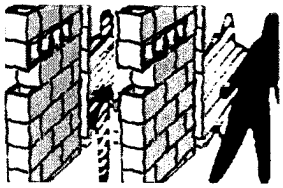
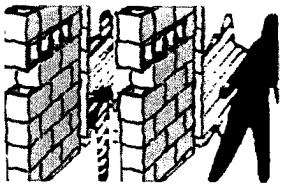
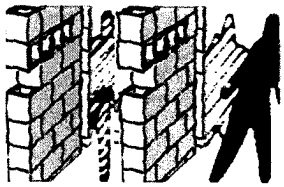
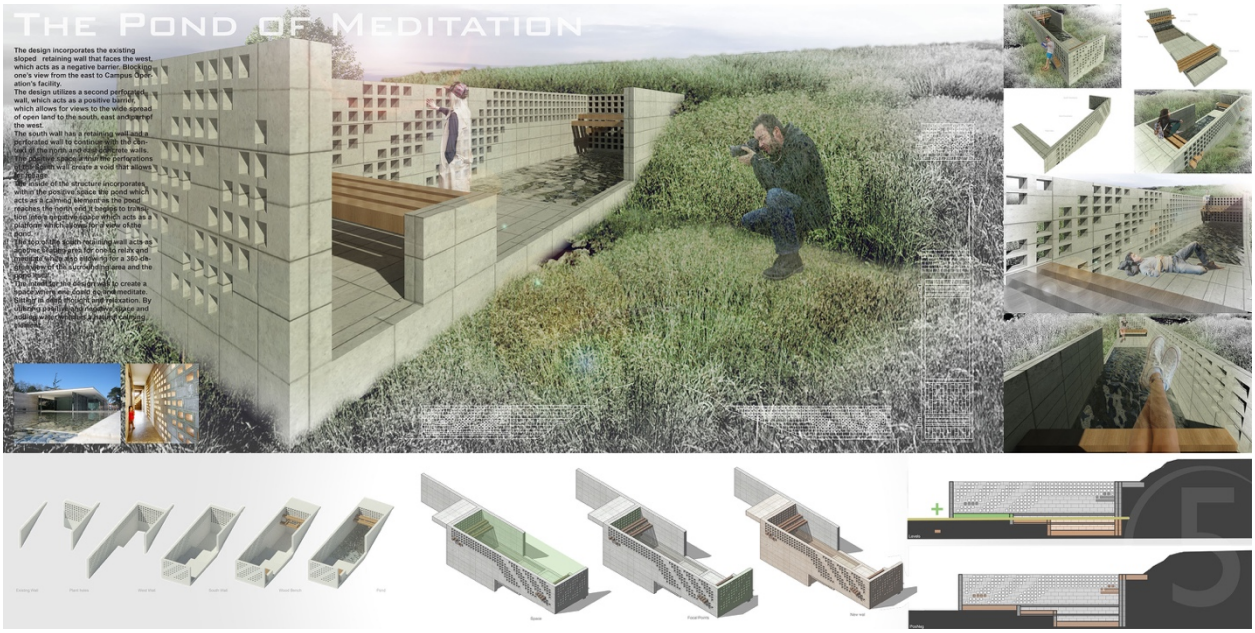
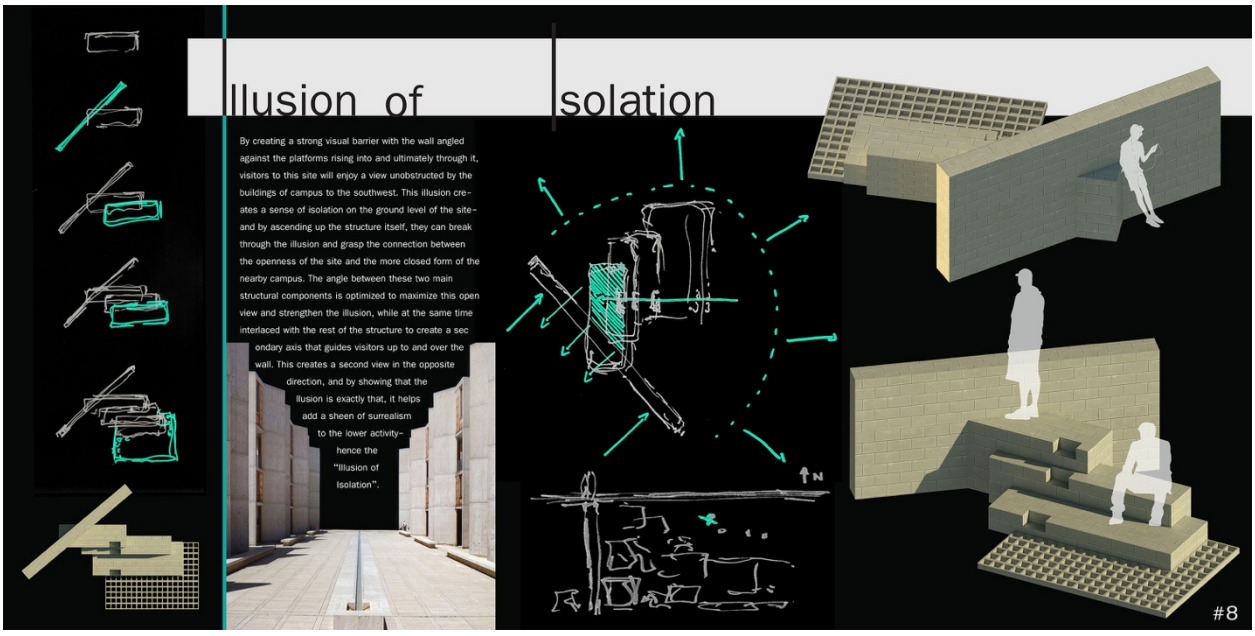
2016 Registration Form

	**5**	Team Members	1. Deon Parker DRP 2. Jasmine Jones JSJ 3. Johnny (Guangyu) Chen JC
	**8**	Team Members	1. Thomas Templin TT 2. Haley Evans HE 3. Benjamin Cook BC
	**10**	Team Members	1. Bayleigh Hetrick BH 2. Joel Dennis JD 3. Joshua Linhardt JL
	**12**	Team Members	1. Grayson Schoenbine GS 2. Fadl Ageel F. A 3. Mike Haynes MH
	**14**	Team Members	1. Savannah Cook S.C. 2. Josh Hall JH 3. Juhisha Ray JH

Dry Stack Design
Fall 2016

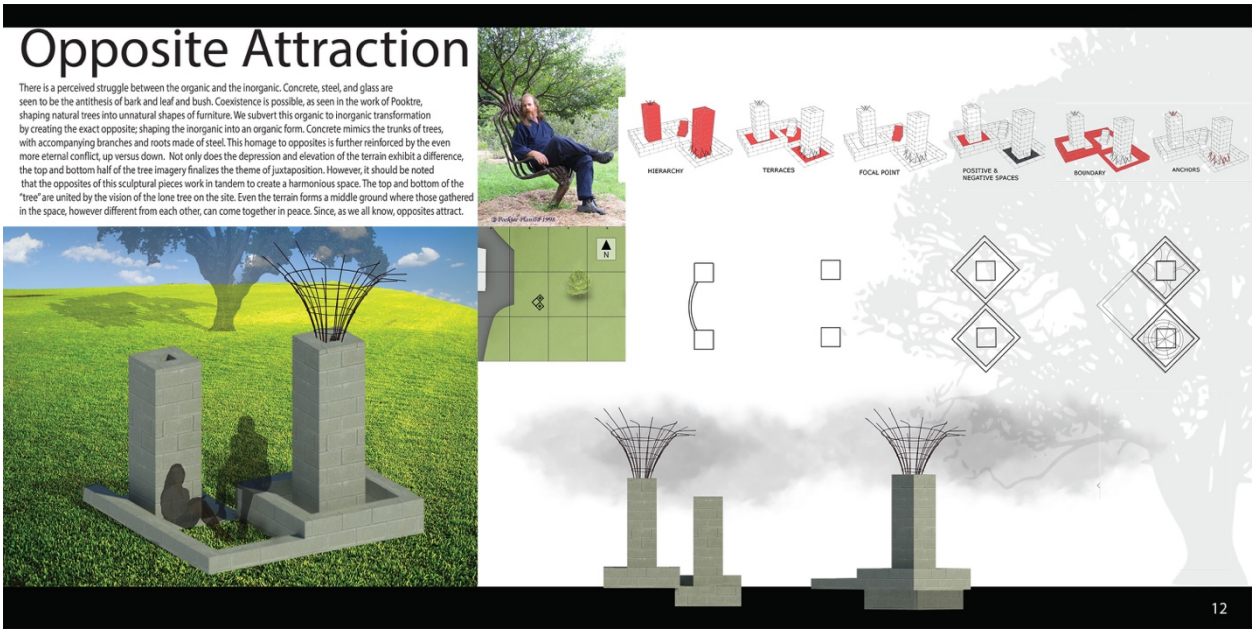


Team#5: Deon Parker, Jasmine Jones and Guangyu Chen received a score of 63 out of 75 points on their submission.

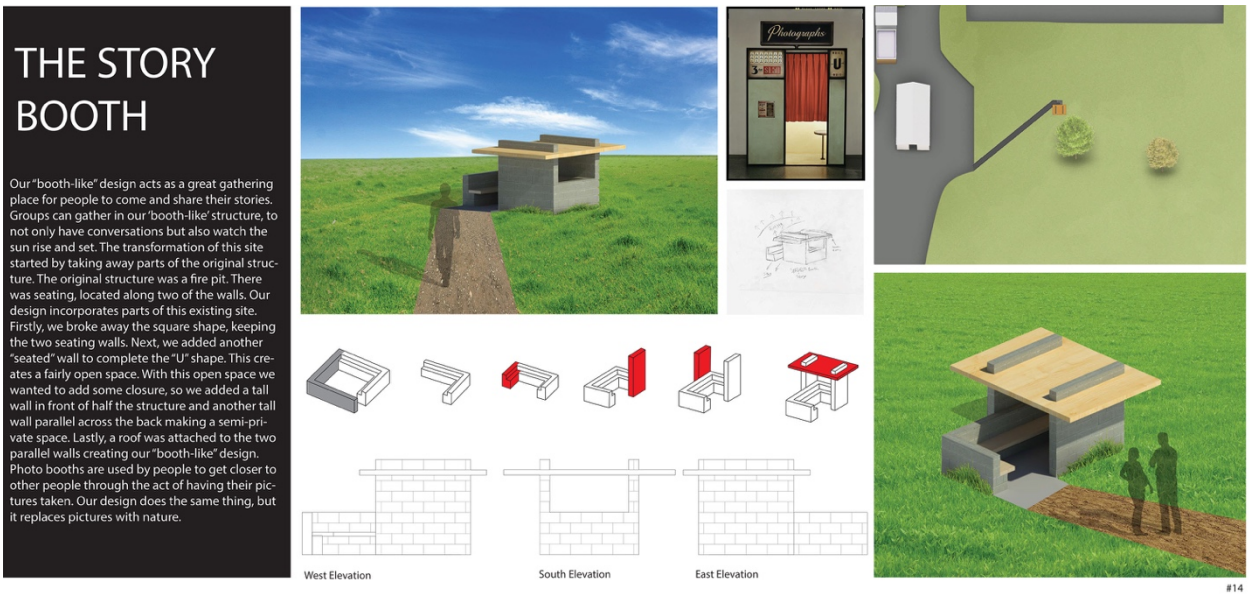


Team#8: Thomas Templin, Haley Evans and Benjamin Cook received a score of 53 out of 75 points on their submission.

Team#10: Bayleigh Hetrick, Joel Dennis and Joshua Linhardt received of score 70 out of 75 points on their submission.



Team#12: Grayson Schoenbine, Fadl Ageel and Michael Haynes received a score of 58 out of 75 points their submission.



Team#14: Savannah Cook, Josh Hall and Juhisha Ray received a score of 38 out of 75 points on their submission.

National Concrete Masonry Association FOUNDATION

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2016 Frist Jury Summary (Scores)

	Judges / Teams	Judge I	Judge II	Judge III	Judge IV	Cumulative Points Comments	
2	Team 5	22	22	19			63
	Team 8	18	19	16			53
1	Team 10	25	24	21		GREAT CONCEPT. CONSTRUCTIBLE & FUNCTIONAL	70 ✓
3	Team 12	20	21	17		NICE IDEA! RELAX THE NATURE ASPECT. MORE REBAR.	58
	Team 14	16	10	12			38

Dry Stack Design
Fall 2016

National Concrete Masonry Association FOUNDATION

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2016 Frist Individual Jury Score

Criteria / Teams	Aesthetic Concept	Innovative Use CMU	Functional Use CMU	Constructability of Design Plans	Hardscape Design (if applicable)	Cumulative Points Comments
Pond of Meditation — Team 5	4	~~4~~ 4	5	5	3	~~2~~ 2
~~Story Booth~~ Illusion of Isolation — Team 8	3	3	5	5	~~4~~ 3	19
Diverging Lessons — Team 10	5	~~4~~ 5	5	5	~~4~~ 3	~~24~~
Opposite Attraction — Team 12	~~4~~ 3	3	5	5	5	21
Story Booth — ~~Team 14~~	2	2	3	2	1	10

Scale 1 low - 5 high

Team 5: TOO OPEN.. DOESN'T FEEL SOLITUDE ENOUGH. MODEL FEELS BETTER. DON'T NEED EXTRA SEAT ABOVE POND

TEAM 8: TOO HEAVY AND BOXY

TEAM 10: FANTASTIC. WAY TO THINK OUT OF THE BOX!

TEAM 12: FEELS TOO HEAVY AT THE ~~Exposed~~ BRANCHES Rebar... WANT TO SEE MORE

TEAM 14: NOT PLANNED WELL AESTHETICALLY, LACKS VIEW, LACKS CONSTRUCTIBILITY THOUGHT

Dry Stack Design
Fall 2016

National Concrete Masonry Association FOUNDATION

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2016 Frist Individual Jury Score

Criteria / Teams	Aesthetic Concept	Innovative Use CMU	Functional Use CMU	Constructability of Design Plans	Hardscape Design (if applicable)	Cumulative Points Comments
✓ Team 5	4	4	4	4	3	19
Team 8	4	3	4	4	1	16
✓ Team 10	5	5	4	5	2	21
✓ Team 12	3	3	4	5	2	17
Team 14	2	3	3	3	1	12

Scale 1 low - 5 high

Dry Stack Design
Fall 2016

Energy

National Concrete Masonry Association FOUNDATION

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2016 Frist Individual Jury Score

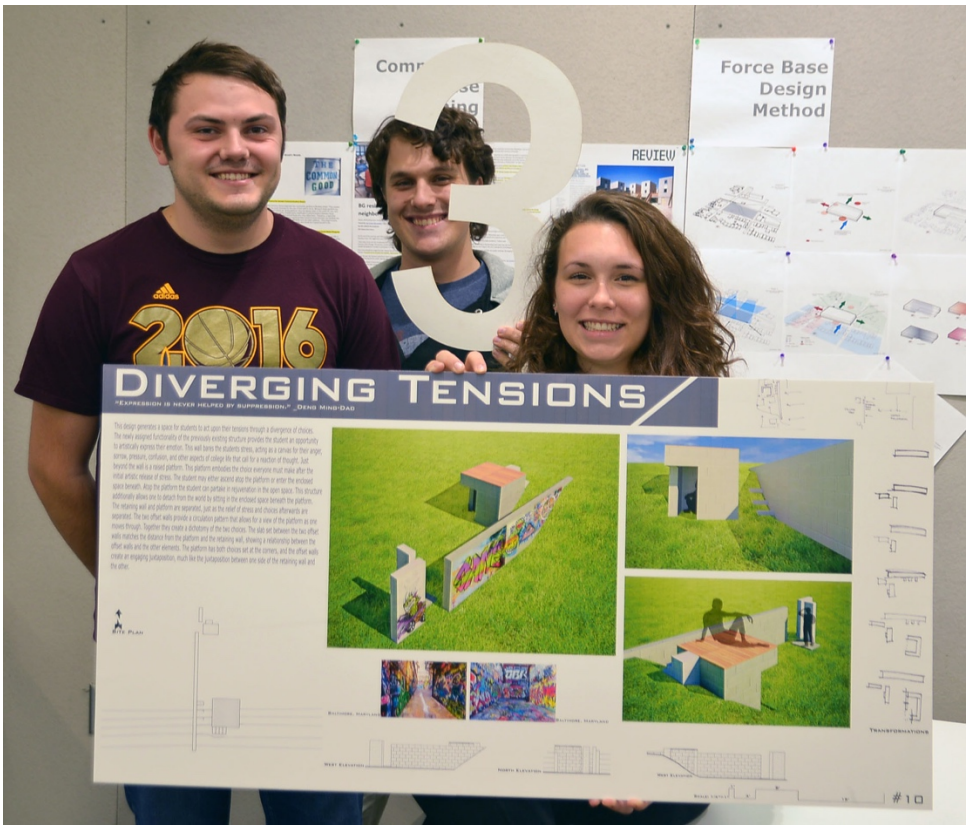
Criteria / Teams	Aesthetic Concept	Innovative Use CMU	Functional Use CMU	Constructability of Design Plans	Hardscape Design (if applicable)	Cumulative Points Comments
Team 5	4	5	5	5	3	22
Team 8	4	3	4	4	3	18
Team 10	5	5	5	5	5	25
Team 12	4	4	4	5	3	20
Team 14	4	3	3	3	3	16

Scale 1 low - 5 high

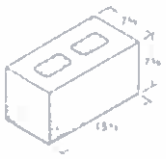
Dry Stack Design
Fall 2016

Team#5: Deon Parker, Jasmine Jones and Guangyu Chen received a score of 73 out of 75 points on their structure.

Team#12: Grayson Schoenbine, Fadl Ageel and Michael Haynes received a score of 72 out of 75 points their structure.



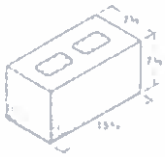
Team#10: Bayleigh Hetrick, Joel Dennis and Joshua Linhardt received of score 63 out of 75 points on their structure.



BGSU. FOUNDATION National Concrete Masonry Association Ohio

2016 Final Jury Summary/Scores

Judges Teams	Judge I	Judge II	Judge III	Judge IV	Cumulative Points	Comments
team **5**	21	16	19	17	73	1
team **10**	19	15	17	13	64	3
team **12**	20	14	22	16	72	2



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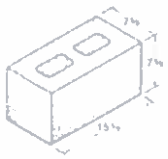
2016 Final Individual Jury Score

Criteria / Teams	Aesthetic Concept	Innovative Use CMU	Functional Use CMU	Constructability of Design Plans	Hardscape Design (if applicable)	Cumulative Points Comments
team **5**	4	4	5	4		21
team **10**	3	3	5	4	4	19
team **12**	5	4	5	5	13	20

Scale 1 low - 5 high



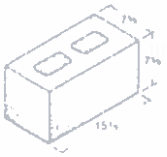
BGSU FOUNDATION Ohio

2016 Final Individual Jury Score

Criteria / Teams	Aesthetic Concept	Innovative Use CMU	Functional Use CMU	Constructability of Design Plans	Hardscape Design (if applicable)	Cumulative Points Comments
team 5	3	4	4	3	2	16
team 10	4	3	4	4	0	15
team 12	2	2	4	4	2	14

Scale 1 low - 5 high

Dry Stack Design
Fall 2016



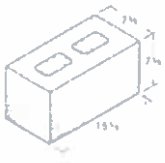
BGSU. FOUNDATION National Concrete Masonry Association Ohio

2016 Final Individual Jury Score

Criteria / Teams	Aesthetic Concept	Innovative Use CMU	Functional Use CMU	Constructability of Design Plans	Hardscape Design (if applicable)	Cumulative Points Comments
team **5**	5	2	5	5	2	19
team **10**	2	4	4	5	2	17
team **12**	3	5	5	4	5	22

Scale 1 low - 5 high

Dry Stack Design
Fall 2016



BGSU FOUNDATION

2016 Final Individual Jury Score

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team **5**	4	4	3	3	3	17
team **10**	3	2	2	3	3	13
team **12**	3	3	3	3	4	16

Scale 1 low - 5 high

Dry Stack Design
Fall 2016

1. CMU lectures as introduction:	Excellent (5)	Very Good (4)	Good (3)	Fair (2)	Poor (1)
a. knowledge gained about CMU's as a product	8 (students)	3	3		
b. understanding of a variety of CMU applications	6	6	2		
c. understanding of the CMU techniques	6	7	1		
d. lectures as a motivator	3	9	2		

In summary, most students agreed that they learned the most about their understanding of the masonry techniques.

2. Competition Brief:	Excellent (5)	Very Good (4)	Good (3)	Fair (2)	Poor (1)
a. organization of information	4 (students)	8	2		
b. clarity of information	9	3			1
c. adequacy of information	7	5	1	1	
d. relevance/practicality of information	9	3	1		1

In summary, most students agreed that they learned the most about both the organization of information and relevance as well as practicality of information.

3. Design Program:	Excellent (5)	Very Good (4)	Good (3)	Fair (2)	Poor (1)
a. pace of the process	4 (students)	8	2		
b. aims and goals of the design challenge	9	4			1
c. suitability of site	7	5	1	1	
d. input/support from faculty	9	3	1		1

In summary, most students agreed that they received more input/support from faculty.

4. Judging:	Excellent (5)	Very Good (4)	Good (3)	Fair (2)	Poor (1)
a. jurors as a group	4 (students)	8		2	
b. jury feedback	5	4	2	2	1
c. evaluation criteria	6	4	2	1	1
d. effectiveness of anonymous judging	5	2	5	1	

In summary, most students agreed that the jury as a group was the most effective way of judging.

Team working on the structure titled "Opposite Attraction"

-Negative*

- Need more group to compete
- That not all the group got to build their own designs
- Timing, judging, quality of blocks, quality of judgment
- I don't feel like the judging made sense or was really fair
- Spectacle winning over design is fine but shouldn't count toward judging decision unless it is paramount
- Design process could have been pushed quicker
- The cold weather
- The judging and the time needed to complete the design
- The site/CMU material was not in best condition that granted we are reusing materials
- Judges easily swayed by spectacle
- Lack of reasons given for scores
- I wish that we would have a little more time to complete the build
- Wish there were more groups
- Initial pitch of the project as "poetic design" did not match the oversimplified application it turned into. Emphasis was rarely clear and jurors judged on a variety of qualifications unrelated to design or presentation

*Actual comments from the students

+Positive*

- How people try to work together
- Building site
- Actually, building some of our designs
- Working as a team/ the develop a design/ build was fun/interesting
- Designing the structure
- It helped with team building, responsibility, and design build process
- The design process being restricted by materials, non-hypothetical
- Work part of a group and the challenges
- Getting way from normal class and being able to build a design
- Hands on application of knowledge, tangible results
- I loved the overall process from start to actually build our design and getting that hands on experienced while also getting a better understanding of what construction consists of
- It helps to understand the variety of CMU application
- The opportunity to get out and bring our design to life
- The groups were the perfect size
- Opportunity to focus on CMU as a material with its own techniques and applications

ARCHITECTURE STUDENT DESIGN COMPETITION

Dry Stack Design Fall 2016

We would appreciate a few minutes of your time in completing the following evaluation. Your comments and suggestions will provide useful information to assist us in future planning. Please circle the number that best reflects your rating.

		Excellent				Poor
1.	CMU lectures as introduction:					
	a. knowledge gained about CMU's as a product	(5)	4	3	2	1
	b. understanding of a variety of CMU applications	(5)	4	3	2	1
	c. understanding of the CMU techniques	(5)	4	3	2	1
	d. lectures as a motivator	5	(4)	3	2	1
2.	Competition Brief:	Excellent				Poor
	a. organization of information	(5)	4	3	2	1
	b. clarity of information	(5)	4	3	2	1
	c. adequacy of information	(5)	4	3	2	1
	d. relevance/practicality of information	(5)	4	3	2	1
3.	Design Program:	Excellent				Poor
	a. pace of the process	5	(4)	3	2	1
	b. aims and goals of the design challenge	(5)	4	3	2	1
	c. suitability of site	5	(4)	3	2	1
	d. input/support from faculty	(5)	4	3	2	1
4.	Judging:	Excellent				Poor
	a. jurors as a group	5	(4)	3	2	1
	b. jury feedback	(5)	4	3	2	1
	c. evaluation criteria	(5)	4	3	2	1
	d. effectiveness of anonymous judging	(5)	4	3	2	1

5. What did you like most about this architecture student design competition?

How People try to work together for building site

6. What did you dislike most about this architecture student design competition?

Need more group to compete

Student evaluation

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ARCHITECTURE STUDENT DESIGN COMPETITION

Dry Stack Design Fall 2016

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	c. understanding of the CMU techniques	(5)	4	3	2	1
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2.	Competition Brief:	Excellent				Poor
	a. organization of information	(5)	4	3	2	1
	b. clarity of information	(5)	4	3	2	1
	c. adequacy of information	(5)	4	3	2	1
	d. relevance/practicality of information	(5)	4	3	2	1
3.	Design Program:	Excellent				Poor
	a. pace of the process	5	(4)	3	2	1
	b. aims and goals of the design challenge	(5)	4	3	2	1
	c. suitability of site	(5)	4	3	2	1
	d. input/support from faculty	(5)	4	3	2	1
4.	Judging:	Excellent				Poor
	a. jurors as a group	(5)	4	3	2	1
	b. jury feedback	(5)	4	3	2	1
	c. evaluation criteria	(5)	4	3	2	1
	d. effectiveness of anonymous judging	(5)	4	3	2	1

5. What did you like most about this architecture student design competition?

actually building some of our designs.

6. What did you dislike most about this architecture student design competition?

That not all the groups got to build their own designs

Student evaluation

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ARCHITECTURE STUDENT DESIGN COMPETITION

Dry Stack Design Fall 2016

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	c. adequacy of information	5	4	3	2	1
	d. relevance/practicality of information	5	4	3	2	1
3.	Design Program:	Excellent				Poor
	a. pace of the process	5	4	3	2	1
	b. aims and goals of the design challenge	5	4	3	2	1
	c. suitability of site	5	4	3	2	1
	d. input/support from faculty	5	4	3	2	1
4.	Judging:	Excellent				Poor
	a. jurors as a group	5	4	3	2	1
	b. jury feedback	5	4	3	2	1
	c. evaluation criteria	5	4	3	2	1
	d. effectiveness of anonymous judging	5	4	3	2	1

5. What did you like most about this architecture student design competition?

working as a team to develop a design & build was fun/interesting

6. What did you dislike most about this architecture student design competition?

timing, judging, quality of blocks, quality of judgment

Student evaluation

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ARCHITECTURE STUDENT DESIGN COMPETITION

Dry Stack Design Fall 2016

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	b. understanding of a variety of CMU applications	5	4	(3)	2	1
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	b. clarity of information	5	(4)	3	2	1
	c. adequacy of information	(5)	4	3	2	1
	d. relevance/practicality of information	(5)	4	3	2	1
3.	Design Program:	Excellent				Poor
	a. pace of the process	5	(4)	3	2	1
	b. aims and goals of the design challenge	(5)	4	3	2	1
	c. suitability of site	5	(4)	3	2	1
	d. input/support from faculty	(5)	4	3	2	1
4.	Judging:	Excellent				Poor
	a. jurors as a group	5	4	3	(2)	1
	b. jury feedback	5	4	3	(2)	1
	c. evaluation criteria	5	4	(3)	2	1
	d. effectiveness of anonymous judging	5	4	3	(2)	1

5. What did you like most about this architecture student design competition?

Design the Structure.

6. What did you dislike most about this architecture student design competition?

I don't feel like the judging and score or was really fair.

Student evaluation

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ARCHITECTURE STUDENT DESIGN COMPETITION

Dry Stack Design Fall 2016

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	c. adequacy of information	(5)	4	3	2	1
	d. relevance/practicality of information	(5)	4	3	2	1
3.	Design Program:	Excellent				Poor
	a. pace of the process	(5)	4	3	2	1
	b. aims and goals of the design challenge	(5)	4	3	2	1
	c. suitability of site	(5)	4	3	2	1
	d. input/support from faculty	(5)	4	3	2	1
4.	Judging:	Excellent				Poor
	a. jurors as a group	5	(4)	3	2	1
	b. jury feedback	5	(4)	3	2	1
	c. evaluation criteria	(5)	4	3	2	1
	d. effectiveness of anonymous judging	(5)	4	3	2	1

5. What did you like most about this architecture student design competition?

It helped with team building, responsibility, and design build process

6. What did you dislike most about this architecture student design competition?

Spectical winning over design. A fine shouldn't count toward a finess decision unless it is permanent.

Student evaluation

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ARCHITECTURE STUDENT DESIGN COMPETITION

Dry Stack Design Fall 2016

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	a. pace of the process	5	4	(3)	2	1
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	b. jury feedback	(5)	4	3	2	1
	c. evaluation criteria	5	(4)	3	2	1
	d. effectiveness of anonymous judging	5	4	(3)	2	1

5. What did you like most about this architecture student design competition?

THE DESIGN PROCESS BEING RESTRICTED BY MATERIALS, NON-HYPOTHETICAL.

6. What did you dislike most about this architecture student design competition?

DESIGN PROCESS COULD'VE BEEN PUSHED QUICKER.

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ARCHITECTURE STUDENT DESIGN COMPETITION

Dry Stack Design Fall 2016

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3.	Design Program:	Excellent				Poor
	a. pace of the process	(5)	4	(3)	2	1
	b. aims and goals of the design challenge	(5)	(4)	(3)	2	1
	c. suitability of site	5	(4)	3	2	1
	d. input/support from faculty	(5)	4	3	2	1
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	b. jury feedback	5	4	(3)	(2)	1
	c. evaluation criteria	5	4	3	(2)	1
	d. effectiveness of anonymous judging	5	4	(3)	2	1

5. What did you like most about this architecture student design competition?

work part of a group the challenges

6. What did you dislike most about this architecture student design competition?

the cold weather

Student evaluation

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ARCHITECTURE STUDENT DESIGN COMPETITION

Dry Stack Design Fall 2016

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	d. input/support from faculty	5	4	(3)	2	1
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	b. jury feedback	5	(4)	3	2	1
	c. evaluation criteria	5	(4)	3	2	1
	d. effectiveness of anonymous judging	5	4	(3)	2	1

5. What did you like most about this architecture student design competition?

getting away from normal class and being able to build a design

6. What did you dislike most about this architecture student design competition?

THE judging and THE time needed to complete the design

Student evaluation

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ARCHITECTURE STUDENT DESIGN COMPETITION

Dry Stack Design Fall 2016

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	c. suitability of site	5	4	(3)	2	1
	d. input/support from faculty	5	(4)	3	2	1
4.	Judging:	Excellent				Poor
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	b. jury feedback	5	(4)	3	2	1
	c. evaluation criteria	(5)	4	3	2	1
	d. effectiveness of anonymous judging	5	4	(3)	2	1

5. What did you like most about this architecture student design competition?

Hands on application of knowledge, tangible results

6. What did you dislike most about this architecture student design competition?

granted we are re-using materials

The site / CMU material was not in best condition

Judges easily swayed by spectacle / Lack of reasons given for scores

Student evaluation

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ARCHITECTURE STUDENT DESIGN COMPETITION

Dry Stack Design Fall 2016

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5. What did you like most about this architecture student design competition?

I loved the overall process from start to actually build our design & getting that hands on experience. While also getting a better understanding of what construction consists of.

6. What did you dislike most about this architecture student design competition?

I wish that we would have a little more time to complete the build.

Student evaluation

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BGSU. Bowling Green State University

ARCHITECTURE STUDENT DESIGN COMPETITION

Dry Stack Design Fall 2016

We would appreciate a few minutes of your time in completing the following evaluation. Your comments and suggestions will provide useful information to assist us in future planning. Please circle the number that best reflects your rating.

		Excellent				Poor
1.	CMU lectures as introduction:					
	a. knowledge gained about CMU's as a product	5	4	(3)	2	1
	b. understanding of a variety of CMU applications	5	(4)	3	2	1
	c. understanding of the CMU techniques	5	4	(3)	2	1
	d. lectures as a motivator	5	4	3	2	1
2.	Competition Brief:	Excellent				Poor
	a. organization of information	5	4	(3)	2	1
	b. clarity of information	5	4	3	(2)	1
	c. adequacy of information	5	4	(3)	2	1
	d. relevance/practicality of information	5	4	3	(2)	1
3.	Design Program:	Excellent				Poor
	a. pace of the process	5	(4)	3	2	1
	b. aims and goals of the design challenge	5	4	3	2	(1)
	c. suitability of site	5	4	3	(2)	1
	d. input/support from faculty	5	4	3	2	(1)
4.	Judging:	Excellent				Poor
	a. jurors as a group	5	4	3	(2)	1
	b. jury feedback	5	4	3	2	(1)
	c. evaluation criteria	5	4	3	2	(1)
	d. effectiveness of anonymous judging	5	(4)	3	2	1

5. What did you like most about this architecture student design competition?

Opportunity to focus on CMU as a material with its own techniques and applications.

6. What did you dislike most about this architecture student design competition?

Initial pitch of the project as "poetic design" did not match the oversimplified application it turned into. Emphasis was rarely clear, and jurors judged on a variety of qualifications unrelated to design or presentation

Student evaluation

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3.	Design Program:	Excellent				Poor
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	b. aims and goals of the design challenge	(5)	4	3	2	1
	c. suitability of site	(5)	4	3	2	1
	d. input/support from faculty	(5)	4	3	2	1
4.	Judging:	Excellent				Poor
	a. jurors as a group	5	(4)	3	2	1
	b. jury feedback	5	4	(3)	2	1
	c. evaluation criteria	5	(4)	3	2	1
	d. effectiveness of anonymous judging	5	4	3	(2)	1

5. What did you like most about this architecture student design competition?

The opportunity to get out and bring our design to life!

6. What did you dislike most about this architecture student design competition?

N/A

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	b. jury feedback	5	(4)	3	2	1
	c. evaluation criteria	5	(4)	3	2	1
	d. effectiveness of anonymous judging	5	(4)	3	2	1

5. What did you like most about this architecture student design competition?

THE GROUPS WERE THE PERFECT SIZE

6. What did you dislike most about this architecture student design competition?

WISH THERE WERE MORE GROUPS

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	c. evaluation criteria	(5)	4	3	2	1
	d. effectiveness of anonymous judging	(5)	4	3	2	1

5. What did you like most about this architecture student design competition?

It helps to understand the variety of CMU Applications

6. What did you dislike most about this architecture student design competition?

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