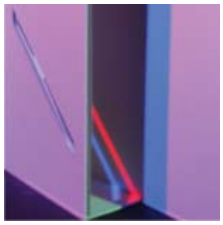
2201 studio | 3620 studio

design studio 3 & lighting design 1

Jan Jennings | E.D. Intemann ■ Cornell University

light cavity |

a collaborative interdisciplinary design project




"Because lighting controls so many aspects of a space, you cannot design that space properly without designing the lighting for it, too."
William Dombrosk


"The film of evening light made the red earth lucent, so that its dimensions were deepened, so that a stone, a post, a building had greater depth and more solidity than in the daytime light; and these objects were curiously more individual."
John Steinbeck

project outcomes

- ☐ engage in a critical discourse with another design discipline about dramatic lighting in an architectural space
- ☐ explore color and lighting as formal mediums in interior space.
- ☐ expand upon a designer's knowledge and ability to design with color and light

project description

- ☐ All class sessions meet in Schwartz Center, Room 120, Theatre Lighting Lab from 2:30-4:30.
- ☐ Interdisciplinary teams will be formed by the instructors.
- ☐ Three types of lighting conditions will be produced by interdisciplinary groups in the theatre lighting lab using selected models [½ inch =1-foot] from DEA 2201's Cavity project.
- ☐ The Light Cavity project examines various relationships between color and artificial light in spaces that are white, as well as spaces that have color. Student groups learn to use color and artificial light as spatial elements to create dramatic or optical effects of the Cavity model.
- ☐ Each group will develop a prime impulse (inspiration ideas) from which all decisions will be formed.
- ☐ The three-dimensional space of the Cavity model can be overlaid, broken up, or complemented by the spatial effects of color and light.
- ☐ Each group will revise their work to form a single schema

conditions

- ☐ **white light on the whole model (white on white)**
- ☐ **colored light mixed to white light on the white model (color on white)**
- ☐ **colored light mixed to white on model with color wall (color on color)**

study

http://sandstone5.cit.cornell.edu/Requester/r/roomMain/lightpoetry

Click the Enter Cybertower button, than go to Study Rooms. At the bottom of the second column, you will find *Poetry of Light*.

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Documentation

- ☐ Documentation is an integral part of the project.
- ☐ Each group will record the project in detail, taking digital photographs that provide a sequence of experiments.
- ☐ Groups are required to document each lighting condition, technical detail and intention and also record the evaluation of results that comprised each experiment.
- ☐ Photographs for documentation will not be taken during class in the Lighting Lab. Class time will be spent on analysis and criticism of lighting.
- ☐ **For each condition and schema, prepare a series of color photographs of the Cavity model shot from various angles. Each schema will contain descriptions of the lighting intention and an evaluation. These will be organized on 81/2 x 11 sheets with a notation column on the right, and a photograph on the left.**

Evaluation

- ☐ At the conclusion of the project, each student will evaluate each of the group's members in terms of collaboration, participation and engagement of the subject material. Each student will describe the decision-making process and assess the learning experience in working with new disciplines.
- ☐ The DEA 2201 Teaching Assistant will meet at least once with each group and submit evaluations of each student's contribution to the group.

Day 1—Light as Architecture

- ☐ Lecture by E.D. Intemann
- ☐ Introduction of the project
- ☐ Break into groups and begin discussion of concept (or prime impulse) and assignment for Monday

Day 2—Presentations | Groups 1, 2, 3, 4

- ☐ Using 2-4 fixtures, light the model in such a way as to communicate the prime impulse/concept.
- ☐ Each group presents two schemas for each model with a progression of the three (3) lighting conditions outlined below.
- ☐ The set up for fixtures will be the same for both schemas in all three conditions.
- ☐ The Cavity model will also remain in one location on the pedestal for lighting all three conditions.

Progression of Lighting Conditions for each of your 2 Schemas:

- ☐ Condition 1—Light the model using no gels (white light on the white model).
- ☐ Condition 2—Add gels mixing colored light to white light (color mixing to white light on white model) in exploration of the relative nature and definition of white light—again communicating the prime impulse/concept.
- ☐ Condition 3—Insert the opaque color "wall" in the Cavity model. Using the same colored light mixing to white you developed in the condition number 2, light the model (color mixing to white on color). Make sure that a substantial portion of the white light is apparent on the color wall. Note the effect of differing white light on our perception of local color.

Day 3—Presentations | Groups 5, 6, 7

- ☐ Using 2-4 fixtures, light the model in such a way as to communicate the prime impulse/concept.
- ☐ Each group presents two schemas for each model with a progression of the three (3) lighting conditions outlined below.
- ☐ The set up for fixtures will be the same for both schemas in all three conditions.
- ☐ The Cavity model will also remain in one location on the pedestal for lighting all three conditions.

Progression of Lighting Conditions for each of your 2 Schemas:

- ☐ Condition 1—Light the model using no gels (white light on the white model).
- ☐ Condition 2—Add gels mixing colored light to white light (color mixing to white light on white model) in exploration of the relative nature and definition of white light—again communicating the prime impulse/concept.
- ☐ Condition 3—Insert the opaque color “wall” in the Cavity model. Using the same colored light mixing to white you developed in the condition number 2, light the model (color mixing to white on color). Make sure that a substantial portion of the white light is apparent on the color wall. Note the effect of differing white light on our perception of local color.

Day 4—Revision | All Groups

- ☐ Each group chooses only one model to be presented
- ☐ Present a single schema with progression of conditions taking into account the feedback from Monday’s or Wednesday’s presentations