The New Land Port of Entry in Calais, Maine  
L. Robert Siegel Architects of New York, NY,

Planned Lecture Guests:
Ross Hummel, Paul Burgin Jim Jennings Architecture
Steve Huegli Jensen Architects’s Design
Marc L'Italien, EHDD
Anne Fougeron, Anne Fougeron Architecture
Zac Rocket Aidlin Darling Design
Steve Walker, Principal Architect at Holt Hinshaw Architects
Stanley Saitowitz Alan Tse Stanley Saitowitz
Douglas Burnham, Envelope A+D
David Maynard Elizabeth Ranieri, Kuth Rainier Architects
Margaret Ikeda founded ASSEMBLY, a Berkeley-based architecture office, with Evan Jones in 1994.
Stan and Jess Field, Field Architecture
Benjamin Corotis EndresWare Architects and Engineers
Zach de Vito Architects
Zoë Prillinger and Luke Ogrydziak
Marsha Maytum, FAIA Aaron Brumo Leddy Maytum Stacey
This seminar will reevaluate the material nature of buildings by studying and understanding construction details and the new technologies that are revolutionizing design construction and labor relations in architecture.

Nowhere in architecture is bodily contact felt more readily than in realm of detail. Small when compared to a building’s overall mass, details should be considered the building’s basic genetic in-print determining not just the architecture’s appearance but also its performance. Each detail contributes to the meaning of the whole and simultaneously represents a microcosm of the larger entity. For Le Corbusier this idea could be traced back to nature where the smallest cell determines the validity of the whole.

Through dedicated research, analysis, and interpretation of case studies and self generated design investigations we will explore and understand formal and material innovation and the increasingly global nature of architectural practice; consultants, suppliers, and fabricators as well as the understanding of the critical role of computers in architecture. Finally we will also discuss the ethical dimension of detailing as the choice of materials and their combination has a potential impact on world resources, environments, and economy.

Structure
The course is structured in four parts: first a series of guest lectures aiming at understanding approaches of current practices to detailing, readings exploring the historical, cultural and technological context of Modern Architectural construction; a series of in depth case-studies of significant buildings from the last 30 years focusing on construction technique, materials and the architect and the design and making of 1:1 details intended to develop and advance your own design work.

Notes on Reading
1) Unless otherwise noted, all books are on reserve in the Environmental Design Library, 210 Wurster Hall.
2) Reserve listings and call numbers are available through Oskicat

TASKS
1) Leading the Reading Discussion
In order to lead the discussion, you will need to:
   a) Prepare three questions to help focus discussion in your session, and bring them to class,
   b) Prepare an opening statement, with some critical observations to begin your session. Your goal should be to create an interesting and provocative context for discussion of the questions you have identified. Your opening presentation should be analytical and critical, and assume that everyone has completed the readings.
   c) You may include power-point slides or other material to accompany discussion of your questions and or may choose to examine one of the buildings mentioned in the readings in more detail; you may also choose to introduce an example that is not included in the readings, but is a particularly appropriate illustration of the question being addressed.
   d) You will lead a seminar. Two weeks prior to your presentation you are required to meet with me briefly after class to discuss your session.

Weekly reading response Attendance and Participation in Discussions
You are required to prepare a brief response of three critical questions to all of the assigned readings of no more than 150 words, which you may be asked to read aloud at the start of the class discussions each week. Your response should not be a summary; rather it should present critical issues/questions the reading has raised for you. You may also use it to suggest connections/conflicts with previous readings, or perhaps establish a link with work you are doing in other courses. A copy of your response must be submitted at the beginning of each class. These will form an integral part of the final grade you receive for class participation. Attendance is mandatory. Regular, enthusiastic and informed participation in class discussions is an important part of your contribution to the class.

2) CASE Studies Leading to two details:
Choose two buildings case studies that are of interest to you. One should be preferably chosen from a building on campus. Focus on the different assemblies/materials
   a) Give us a general context, site and climatic context
b) General architectural context of the architect work. Illustrate the building identify the detail’s location/s

c) Present the details in 11X14” sheets of paper (as many as necessary) presented horizontally. Include a graphic scale.

d) Prepare an opening statement, with some critical observations to begin your session. Your goal should be to create an interesting and provocative context for discussion of the questions you have identified in relation to the detail. Your opening presentation should be analytical and critical, and assume that everyone is not familiar with the detail.

e) You may include power-point slides or other material to accompany discussion of your details. and or may choose to examine one of the buildings mentioned in the readings in more detail; you may also choose to introduce an example that is not included in the readings, but is a particularly appropriate illustration of the question being addressed.

f) Choose the case studies with some thesis or subject in mind; for example staging of parts, de-mountability, ergonomics, accessibility, economy, durability or serial applicability. Please study the alternatives so that you can determine why one solution might be better than another.

g) Two weeks prior to your presentation, you are required to meet with me briefly after class to discuss your session.

Notes on graphic work:
All sheets for this class will be on 11X14” sheets presented horizontally using Helvetica letter point 12”

3) Design of two details.
The details you select to develop may be related to a current project being developed in studio, a previous project developed in Berkeley or a fictional case of general interest to you.
- One detail that deals with changing climatic conditions
- One detail that deals with human touch or the body
You will produce a model for one of the details.

All details will have to be modeled digitally and physically at 1:1; 1/2 or 1; ¼” scale but alternatives may be discussed.

Assignments and Grading:
The total grade for this course will be based on attendance, 2 detail designs /models assignments, and three case study assignments:
10% Attendance, 30% Reading responses and discussion lead, 30% Case Study presentations, 30% Detail model making and study and final review presentation, 3) Design of two details.

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Kate Simonen, Simonen Design.com
Benjamin Corotis EndresWare Architects and Engineers
Zach de Vito Architects
Zoë Prillinger and Luke Ogrydziak
Marsha Maytum, FAIA Aaron Brumo Leddy Maytum Stacey
Anne Fougeron , Anne Fougeron Architecture
Field Architecture, Jeff and Stan Field
READINGS:

**Week 1 Introduction**


**Week 2: Theorizing on Construction and Detailing**


**Week 3: Defining Detail**


**Week 4: Detail and Craft**


**Week 5: Detail and the Body**


**Week 6: Architects Details**

Michael Cadwell and Nader Tehrani Strange Details (Writing Architecture NA680 .C25 2007

**Week 7: The Culture of Building**


**Week 8: Detail and New Modes of Practice**


**Week 9: Detail and Labor**

Kenneth Frampton "Intention, Craft, and Rationality" in Phillip Bernstein (Editor), Peggy Deamer (Editor) 028 in Building
Week 10: Material Expression


Week 11: Building Economics


Week 12: Tectonics as reflection of a Vision

Week 13: On Detailing and Sustainability

“Sustainable Architecture in the US An Interview with Kieran Timberlake” in *Detail Green* 01/09 NA2542.36 .D483


http://inhabitat.com/2010/05/11/frank-gehry-calls-sustainable-design-political/

Building Science Insights
Joseph Lstiburek “Prioritizing Green—It's the Energy Stupid”


Week 14: Detail and Standardization


Week 15: Building Details and Time.

Reference:

Reference Material Manifestoes
SCHEDULE

For the most part the seminar will be organized in three segments:

1 hr visiting Architect
1 hr case study or detail development presentation
1 hr discussion of weekly reading

W1 Aug.  Thu. 26
W2 Sept.  Mon. 30  Instruction begins.
W3 Mon. 06
W4 Mon. 13
W5 Mon. 20
W6 Mon. 27
W7 Mon. 04
W8 Mon. 11
W9 Mon. 18
W10 Mon. 25
W11 Nov Mon. 01
W12 Mon. 08
W13 Mon. 15
W14 Mon. 22
W15 Mon. 29
W16 Dec Mon. 06

Consultation/Book/Manuals
The following are reference books and documents useful for the students in this course. Students may also find other information and Internet resources.

Architects Details CASE Studies Presentations /Steven Huegli
The Culture of Building DEVELOPMENT Presentations
Detail and New Modes of Practice DEVELOPMENT Pres.
Detail and Labor INFORMAL detail DEVELOPMENT Presentations
Material Expression DETAIL MODEL Presentations
Building Economics DETAIL MODEL Presentations
Tectonics as reflection of a Vision DETAIL MODEL Pres.
FINAL REVIEW


*Japanese craft + Construction: Student essays 2003 + 2005*.


Oliver Herwig Featherweights: Light, Mobile and Floating Architecture (Architecture in Focus) NA4160 .H47 2003

Victoria Ballard Bell *Materials for Design by Transmaterial 3: A Catalog of Materials that Redefine our Physical Environment [Paperback]*


Phillip Bernstein (Editor), Peggy Deamer (Editor) NA1995 .B85 2010

Five Houses, by Edward R. Ford Ten Details (Writing Matters) NA2840 .F68 2009


Jessie Scanlon” Frank Gehry for the Rest of Us “ in Wired . Issue 12.11 - November 2004

**Magazines**

Detail Magazine
Architect’s Journal TH153 .A171 c.2
Architecture Magazine
The Plan, Architecture and Technologies in Detail( Bologna)