GREEN ARCHITECTURE SEMINAR:
   Designing for Environmental Sustainability and Human Health

INTRODUCTION
Tuesday, Jan. 27

VIDEO: Trade Secrets: A Bill Moyers Report
Defining green architecture

READING:

EBN


Defining Green Architecture packet


INDOOR ENVIRONMENTAL QUALITY
Tuesday, Feb. 3

VIDEO: Blue Vinyl (view before class. Typical)
Guest Lecture- Mark Meiling, Foresight Home Inspection.
Healthy Housing: Moisture Control and Radon Mitigation

READING

EBN

Mold in Buildings: What it is and How to Keep it Out. Vol. 10 no. 6. Feature Article

Healthy Housing packet
Lstiburek, Joseph. EEBA Buildier’s Guide: Cold Climates:
   Introduction
Ch. 1: The House System
Appendix I: Rain and Drainage Planes
Appendix II: Air Flow Retarders
Appendix III: Insulations, Sheathings and Vapor Diffusion Retarders
Healthy Housing: Ventilation and Combustion Safety

READING

EBN

“Ventilation” packet
Tuesday, February 10

VIDEO: Your House, Your Health

Special Announcement: FAL Lecture Friday, Feb. 13 by Pliny Fisk, CMPBS, Austin, TX.

Healthy Housing: Housing for the Chemically Sensitive

READING
Introduction to IAQ/MCS packet
Wasley, “Homes for People with Multiple Chemical Sensitivities” Encyclopedia of Life Support Systems. (Draft)
Rousseau and Wasley. “Ch. 6: Site Selection, Planning and Architectural Design” Healthy By Design: Building and Remodeling Solutions for Creating Healthy Homes.

Tuesday, February 17

DUE: Term Project Ideas: 10 source Bibliographies for three different possible topics.

VIDEO: Treated Lumber Newsclips

Healthy Housing: Materials Selection

READING
EBN
Pressure-Treated Wood: How bad is it and what are the alternatives? vol. 2 no.1 January/February 1993 Feature Article
Formaldehyde-free Interior Grade MDF. Vol. 1 no. 1. July/August 1992. p.10

Healthy Housing: Pest Control

READING
EBN
Safer Pest Control: Management of wood-Destroying Insects. Vol. 9 no. 9. Feature Article
Pesticide Elimination packet
SPCB- Using IPM to Combat Household Pests. www.spceb.state.tx.us/consumer.ipm/english.htm
IEQ in larger buildings

ACTIVITY
Tuesday, February 24
DUE:

VIDEO: Pennsylvania’s First Green Building

Healthy offices: issues of HVAC design.
READING
EBN
Building Commissioning: The Key to Buildings that Work. Vol. 9 no. 2. Feature Article
Construction IAQ Management: Job Site Strategies for Ensuring a Healthy Building. Vol. 11 no. 5. Feature Article
“IEQ in larger buildings” packet

Healthy offices: issues of materials selection and design
READING
EBN
“IAQ and Materials Specifications” packet

Tuesday, March 2
DUE:

VIDEO: Saviors of the Forest

Resource Conservation: the example of wood
READING
Natural Capitalism, Chapters 1-5
EBN
Wood Issues packet (web search)

Resource Efficient Design
READING
Natural Capitalism.
EBN
Resource Efficient Design packet
ACTIVITY
Assign Materials Selection Matrix materials (ERG handouts)
Light framing
Insulation
Cladding
Wall finishes
Resilient flooring
Architectural coatings
Glazing
Carpeting
Structural framing
Metal and plastic plumbing pipe
Fabric and paper wall cover

Tuesday, March 9
DUE:

VIDEO: Green Plans

Accounting for the Commons: byproducts and embodied energy
READING
Natural Capitalism, Chapters 6-10
EBN
Steel or Wood Framing: Which Way Should We Go? Vol. 3 no.4 July/ August 1994. Feature Article.
Should We Phase Out PVC? vol. 3 no.1 January/ February, 1994. Feature Article.
Accounting for the Commons Packet

Life Cycle Assessment
READING
EBN
Life-Cycle Assessment for Buildings: Seeking the Holy Grail. Vol. 11. no. 3 Feature Article.

Industrial Ecosystems
READING
“Industrial Ecosystems” packet
Frosch, Robert and Nicholas Gallopoulos. “Strategies for Manufacturing” Scientific American. September, 1898. pp. 144-152.

ACTIVITY
Materials Selection Matrix
AIA Environmental Resource Guide (class handout)
BEES
Handbook of Sustainable Building
EBN Index lists at least 12 individual material references under ‘Embodied Energy.’

**Tuesday, March 16** CLASS CANCELLED (JW at ACSA Technology Conference)

**Tuesday, March 23** SPRING BREAK

**Tuesday, March 30**
DUE:

VIDEO: Audubon House, The Making of the Energy Resource Center

**Waste Reduction and Construction Site Recycling**

**READING**
Natural Capitalism, Chapters 11-15
EBN
Deconstruction: Back to the Future for Buildings? Vol. 9 no.5 Feature Article.
Waste Reduction and Recycling Packet

Designing for the Long View: Flexibility, Adaptability, Durability and Deconstruction

**READING**
EBN

Stewart Brand. *How Buildings Learn* (group. 12 chapters, Appendix. Everyone read Ch. 12: Built for Change)

**ACTIVITY**
WasteSpec

**Tuesday, April 6**
DUE:

**VIDEO:**

Term Paper/ Project Progress Presentations

**TOOLS FOR INTEGRATIVE DESIGN**

**Tuesday, April 13**
DUE:

**VIDEO:** The Natural Step
Special Guest: Anthony Bernheim, SMWM San Francisco
Special Announcement: UW System Green Campus Symposium, April 14, 15. Madison, WI.

Green Specifications

READING
EBN
Green Specifications Packet

Rating Systems

READING
EBN
LEED: A Look at the Rating System that’s Changing the Way America Builds. Vol. 9 no. 6. Feature Article
Rating Systems Packet
WGBH (previously handed out)
LEED 2.1 (available at http://www.usgbc.org/programs/index.htm)

ACTIVITY
Green Spec/ EcoMaster Specifications reconciliation

Tuesday, April 20

DUE:

VIDEO: Building Sustainability with the Natural Step: UT-Houston’s Journey

The Environmentally Oriented Practice

READING
EBN
Performance Based Compensation: Getting Paid for Good Design. vol. 4 no.2 March/ April 1995 Feature Article.
Sustainability and Building Codes. Vol. 10 no.9. Feature Article.
The Environmentally Oriented Practice packet
The Market’s Buying Green. Architectural Record
Green Ethics/ Aesthetics

READING
Green Ethics/ Aesthetics packet
Braham, “Eyes That Do Not See? The Practice of Sustainable Architecture”
Green Design Checklists (Todd, Van der Ryn, Berry…)

Bioregionalism Packet

"There's no place like home: bioregionalism and the politics of place" Utne Reader February/ March 1986. pp.22-23.

Kirkpatrick Sale "Dwellers in the Land: the bioregional vision" as reprinted in the Utne Reader February/ March 1986. pp.24-34.


"Where are you at?" from Coevolution Quarterly Winter 1981 as reprinted in the Utne Reader February/ March 1986. p36.


ACTIVITY

Tuesday, April 27

TBA

Tuesday, May 4

TBA

Tuesday, May 11 (final review week- CLASS CANCELLED)

____________ FINAL EXAM PERIOD

Final Project Presentations