

CLIMATE CHANGE AND ARCHITECTURAL RESPONSES

Learning Units: 3.5 hours HSW/SD (Health, Safety, Welfare, Sustainable)

Friday June 5, 2009

8:00 am - 12:00 pm

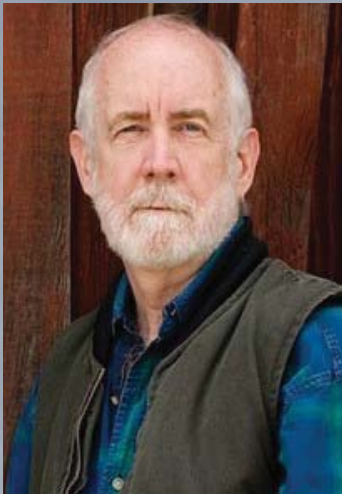
UO Downtown Baker Center

325 E. 10th Ave. Eugene OR 97401
Alaska Room 130

Refreshments: Pastries and coffee included

Learning Objectives:

1. Examine the current scientific evidence in the context of systems sciences to evaluate two theories of climate change and why abrupt and rapid climate changes may be imminent.
2. Identify specific climate changes that will challenge the design of buildings in the Pacific Northwest including heat waves, day to night heating differential cycles, disruption of water availability and distribution, disruption of ecosystems and raw material availability.
3. Address design issues related to site selection by evaluation of alternate transportation, year round solar access, and strategic shading.
4. Examine how future climate change will change the design priorities of 21st century buildings including the need for increased insulation, energy reduction, building adaptability, on-site energy and rainwater collection.



Alder Fuller, PhD

Founder of Euglena Academy
Instructor of Systems Sciences and Biology

Alder Fuller has studied and taught biology and mathematics at the college-level for 40 years. Born in Memphis, TN, his university degrees include a PhD in ecology & biological evolution (UNM, 1990), MS in probability theory & mathematical statistics, MS in biological systematics, and BS in biology. He taught college biology and mathematics as a full-time instructor at a community college (TVI) in Albuquerque, NM and at The Evergreen State College in Olympia, WA. In 2001, he established an independent college-level school, Euglena Academy, in Eugene, OR, where he has developed a scientifically-rigorous curriculum about systems sciences, nonlinear dynamics, non-equilibrium thermodynamics, biology and climate change. Euglena is the only institution in our region offering an integrated curriculum in these disciplines. Alder's program has focused increasingly on global heating and climate change, which promise to be the defining issues of the 21st century, and can only be fully understood within the context of systems sciences. He has offered public lectures about climate change to over 1500, including political leaders, and is recognized as an expert on "type II" (rapid and abrupt) climate change.



John S. Reynolds, F.A.I.A.

Professor of Architecture Emeritus, University of Oregon

For more than 40 years John Reynolds has been interested in how people use energy in buildings, and how buildings shape that energy usage. He has taught both architecture design and environmental control systems at the University of Oregon since 1967. He is co-author of "*Mechanical and Electrical Equipment for Buildings*," 6th through 10th editions, published by John Wiley & Sons. John received the American Solar Energy Society's Passive Pioneer Award in 1997, and was elected a Fellow in 2000. He now serves a Chair of the ASES Board. John was also named a Fellow of the American Institute of Architects in 2003. He was named Distinguished Professor by the Association of Collegiate Schools of Architecture in 1998 and is currently President of the Board of the non-profit Energy Trust of Oregon, based in Portland. John received a teaching Fulbright Grant to Argentina, 1988. This grant from the Graham Foundation for Advanced Studies in the Fine Arts, 1995-96 resulted in his book "*Courtyards: Aesthetic, Social, and Thermal Delight*" © 2002, John Wiley and Sons.

Registration: Fax this form to AIA Seminar Committee (541)345-4302

Or make checks payable to AIA-SWO & send to:
AIA Seminar, C/O Robertson/Sherwood Architects
132 E. Broadway #540 Eugene OR 97401

Cost:

\$35.00 for AIA associates, interns, students,
and Northwest EcoBuilding Guild members
\$50.00 for AIA members
\$75.00 for non-AIA member architects

Name: _____

Address: _____

Phone Number: _____

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Credit Card Payment Amount: _____

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Expiration Date: _____

Additional Info: Lana Sadler, AIA @ (541)342-8077