

Adopted: May 29, 2001

**ACADEMIC SENATE
of
CALIFORNIA POLYTECHNIC STATE UNIVERSITY
San Luis Obispo, California**

AS-570-01/ML

**RESOLUTION ON ENERGY EFFICIENCY AND SUSTAINABLE
DESIGN AND CONSTRUCTION PRINCIPLES FOR CAL POLY BUILDINGS, LANDSCAPE,
AND INFRASTRUCTURE**

- 1 WHEREAS, The recently completed master plan for the campus provides an opportunity for
2 improving and sustaining long term campus environmental quality, but was
3 concluded prior to the current understanding of the changing context of energy
4 generation, transmission, and escalating costs of consumption within California;
5 and
6
- 7 WHEREAS, The University has tentatively budgeted for over a 75% increase in the next
8 academic year for electricity costs; and
9
- 10 WHEREAS, Current code required standards for building construction are unlikely to
11 adequately address these concerns in a timely fashion as they are trailing
12 indicators of larger social conditions and reactions to markets; and
13
- 14 WHEREAS, Industry and government have referenced sustainable design standards which
15 identify achievable design strategies and techniques to address environmental
16 impacts of buildings, including: Governor Davis' Executive Order D-16-00, U.S.
17 Green Building Council's Leadership in Energy and Environmental Design
18 (LEEDs) Green Building Certification System; and
19
- 20 WHEREAS, Current passive and active architectural design and systems technology has been
21 amply demonstrated as providing off grid, low energy and zero energy designs for
22 heating, cooling, and lighting alternatives, especially when taking into account
23 longer pay-back or life-cycle costing; and
24
- 25 WHEREAS, Current construction guidelines as approved by the California Department of
26 Finance limit the campuses ability to apply life cycle cost practices in weighing

27 design alternatives; and
28
29 WHEREAS, Budgets for capital improvements are separate from operation budgets that cover
30 utility and maintenance costs; and
31 WHEREAS, The next series of proposed structures on campus, including teaching facilities for
32 the Colleges of Engineering, Science and Mathematics, and Architecture and
33 Environmental Design can demonstrate the core of knowledge and understanding
34 as to the nature of energy, energy efficient design, our interaction with the
35 environment and our construction and environmental control techniques; and
36
37 WHEREAS, The University budget must cover maintenance and operating costs as well as the
38 costs of academic programs, these proposed new structures will have immediate
39 and long term impact on financial resources over a time of mandated University
40 growth; and
41
42 WHEREAS, The environments created by a building have pedagogical implications in terms of
43 available technologies, comfort, and social interaction, and
44
45 WHEREAS, The demonstrated expertise for excellence in these design techniques and services
46 is specialized and goes beyond current standard architectural practice; therefore be
47 it
48
49 RESOLVED: That the Administration consider implementing and expanding energy design
50 standards and criteria for natural light and ventilation, passive (non-
51 motorized/mechanical) heating and cooling techniques, and water utilization
52 techniques beyond those in place as default minimums from Federal, State, and/or
53 Local mandates; and be it further
54
55 RESOLVED: That the Administration consult with on-campus faculty and staff expertise in
56 identifying these techniques and criteria for the definition of these design
57 thresholds, and be it further
58
59 RESOLVED: That the Administration initiate life cycle costing evaluations of all new building
60 systems at a minimum of 40 years; and be it further
61
62 RESOLVED: That the Administration seek and obtain the services of design professionals with
63 peer recognized and demonstrated excellence and expertise in these design
64 techniques for energy conservation, sustainable architecture and building systems
65 and in architectural design in general; and be it further
66
67 RESOLVED: That the Administration work with the Chancellor's Office to change State
68 regulations on construction cost guidelines to include lifecycles cost practices and
69 funding.

Proposed by: Michael Lucas, CAED Caucus Chair
Date: May 14, 2001
Revised: May 24, 2001

Margaret

CAL POLY

SAN LUIS OBISPO
CA 93407

State of California
Memorandum

Senate Office
file

To: Unny Menon
Chair, Academic Senate

Date: August 30, 2001

RECEIVED

From: Warren J. Baker
President

SEP 13 2001

ACADEMIC SENATE
Copies: Paul Zingg
Frank Lebens

Subject: Response to Academic Senate Resolution AS-570-01/ML – Resolution on Energy Efficiency and Sustainable Design and Construction Principles for Cal Poly Buildings, Landscape, and Infrastructure

and

Response to Academic Senate Resolution AS-572-01/AGW – Resolution on the Environment

I am hereby acknowledging receipt of the above-referenced Academic Senate resolutions. I want to express my appreciation to the Academic Senate for the work that went into the development of these resolutions, and I can assure you that the campus will take these resolutions into consideration particularly in the implementation of the Cal Poly Master Plan, future campus construction and in the acquisition of goods and services.