University of California, Santa Cruz

Growth and Stewardship

The Building of UC Santa Cruz

“...sensitive collaboration between the designer and this spectacular environment ....”
Forty years ago this month....

October 21, 1963

PRESIDENT CLARK KENT

I take pleasure in forwarding to you the Long Range Development Plan for the Santa Cruz campus. It is the product of more than eighteen months' work by the design team headed by John G. Manville, Master Planner, and John R. AuthenticationService, the Campus Planning Committee. As you can be grateful to the President, Kino H. Thompson, University Architect Robert W. Thompson, and the staff at the Office of the Chancellor, for their leadership, encouragement, and support during this critical period. The plan has been shaped by two major decisions. The first of these was the selection of the Cornell Ranch site. Although the site is one of extraordinary beauty, it presents some difficulties that are unique or unusual within the University. The distance from a large metropolitan area indicates co-campus housing of most students in the initial years. The rough topography means fewer good sites for buildings and roads, and also requires for fill and bridges. The larger size of the site requires longer utilitarian space. On the other hand, the forest cover should minimize landscaping costs and the 9000 acres provide ample room for growth and protest the campus against future expansion.

The Academic Plan presented the physical planners with the problem of arranging facilities in a way that would suit the educational community and still maintain a balance between learning and living. The plan, as outlined in the report of the university's central library, science laboratories, and cultural events. Since each college and academic core buildings are being built, one-by-one, initial experience will indicate which patterns and locations function best to serve the learning process. This long range Development Plan is a guide to future development. We have tried to plan ahead with as much precision as possible, but the future is always open to change. Changes made will be made as we learn. We think the plan has elements of flexibility that will make it possible to adapt to changed conditions and to further refinement of program as better methods of operating instruction are discovered.
The physical plan has been shaped by two major decisions. The first of these was the selection of the Cowell Ranch site. Although the site is one of extraordinary beauty, it presents some difficulties that are unique or unusual within the University. The distance from a large metropolitan area indicates...
The Academic Plan confronted the physical planners with the problem of arranging facilities in such a way that undergraduates will feel they belong to a small community that combines learning and living, yet have available the superior resources of a large university, such as a central library, science laboratories, and cultural events.

Since both college and academic core buildings are being built one-by-one, initial experience will indicate which patterns and locations function best to serve the learning process. The long-range development plan is a guide to further development. We have tried to plan ahead with no such precision as possible, but the future is dimly seen at best, and changes undoubtedly will be made from time to time. We think the plan has elements of flexibility that will make it possible to adapt to changed conditions and to further refinement of program as better methods of imparting instruction are discovered.

Dean R. McHenry
“At Santa Cruz the intent is to combine the advantages of a small college with the facilities of a great University.”

“This campus, because of its location, must provide more than the usual amount of residential space.”
“The University of California, Santa Cruz has created a unique environment of intensity and innovation where the synergy between research and teaching provides unparalleled opportunities for people who drive progress, intellectual, social, cultural and economic progress.”

October 2003
UC Santa Cruz

Architecture....

“... must grow out of the problems, restrictions, and potentialities of the site...”

“The general effect... must be one of sensitive collaboration between the designer and this spectacular environment....”

Stevenson College, 1966
Joseph Esherick and Associates

1963 LRDP
“... must grow out of the problems, restrictions, and potentialities of the site...”

“The general effect... must be one of sensitive collaboration between the designer and this spectacular environment...”

College Ten 2002
Esherick Homsey Dodge and Davis

1963 LRDP
"The site demands unique attention..."

Photographer Ansel Adams:

"... whatever is done to 'clear' the land should be done with the utmost restraint..."

The Ansel Adams photographs from 1962 through 1966 used in this presentation are housed in the Sweeney/Rubin Ansel Adams Fiat Lux Collection at the University of California, Riverside's California Museum of Photography and are used with their generous permission.
“The site demands unique attention…”

“…Everyone who saw it during the planning stage was awed and impressed by the need to keep it as unspoiled as possible.”
Geographical Setting

University of California
South Central Coast Campus Site Selection Study
1959
Geographical Setting

UC Santa Cruz
Geographical Setting

- Henry Cowell Redwoods State Park
- Wilder Ranch State Park
- UCSC Pogonip (City Park)
- City of Santa Cruz
- Monterey Bay National Marine Sanctuary
Geographical Setting

- marine terraces
Vegetation Zones

meadow • forest edge • forest • ravine
Vegetation Zones

meadow • forest edge • forest • ravine
Vegetation Zones

meadow • forest edge • forest • ravine
Vegetation Zones

- meadow
- forest edge
- forest
- ravine
Karst Geology

Sinkhole formation

- schist
- soil
- cave
- fractured marble

Marginal Region Karst Sinkhole Hydrology

- Perched Lake in Sink
- Dry Drainage Sink
- Tertiary Limestones
- Sink Exposing Aquifer

UC SANTA CRUZ
Karst Geology
Karst Geology
The Cowell Ranch -
the California Lime Industry
Species Diversity

Ohlone tiger beetle

California red-legged frog
Species Diversity

- yampah
- pseudo-scorpion
- burrowing owl
- cave spider
The University Arrives...
“Begin as you mean to continue…”:
1963 LRDP’s Long-Lasting Decisions

- main campus at center of site
- preservation of meadows
- campus core surrounded by residential colleges
- individually sited buildings & complexes
Central Campus - 1963 LRDP

Planned Enrollment: 27,500
Residential Colleges - Places for Student Life

• academic communities with distinct identities
• architectural variety
• a series of informal clusters
Residential Colleges -
Places for Student Life

- academic communities with distinct identities
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Kresge College 1973
MLTW/Moore Turnbull
Residential Colleges -
Places for Student Life

• academic communities with distinct identities
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Colleges Nine and Ten 2002
Esherick Homsey Dodge and Davis
Residential Colleges Demonstrate Our Architectural Principles

- varied and imaginative architecture
- sunny and surprising places in the forest
- site specific designs
"a full respect for the site"

- Cowell College: at the forest edge

*Cowell College 1966*
Wurster, Bernardi, and Emmons
“a full respect for the site”

- Oakes College:
  on the meadow
“a full respect for the site”

- Kresge College: in the forest

Kresge College 1973
MLTW/Moore Turnbull
“a full respect for the site”

- Kresge College: in the forest
“a full respect for the site”

- College Nine and College Ten: in the forest

Colleges Nine and Ten 2002
Esherick Homsey Dodge and Davis
“a full respect for the site”

- College Nine and College Ten
  in the forest
Campus Core

- larger scale buildings
- more formal arrangement
Campus Core

- Larger scale buildings
- More formal arrangement
- “Full respect for the site”
Campus Core

- larger scale buildings
- more formal arrangement
- “full respect for the site”
- architectural diversity

McHenry Library, 1966 & 1976
John Carl Warnecke & Associates
Campus Core

- larger scale buildings
- more formal arrangement
- “full respect for the site”
- architectural diversity

Science and Engineering Library, 1991
Esherick Homsey Dodge and Davis
Campus Core

- larger scale buildings
- more formal arrangement
- “full respect for the site”
- architectural diversity

Earth & Marine Sciences, 1998
McLellan & Copenhagen
with Zimmer Gunsul Frasca
Campus Core

- larger scale buildings
- more formal arrangement
- “full respect for the site”
- architectural diversity

Physical Sciences Building, 2004
Anshen + Allen San Francisco
with Moore Ruble Yudell
Campus Core at the Forest Edge
Campus Core at the Forest Edge

Academic Resource Center, 1989
Fernau & Hartman
Campus Core at the Forest Edge

Baskin Visual Arts, 1985
Marquis & Associates
Campus Core at the Forest Edge

Music Center, 1996
Antoine Predock Architect
Campus Core at the Forest Edge

Arts Facilities, 1998
BOORA Architects
Continuing the Pattern:
Campus Core Capacity Studies
Continuing the Pattern:
Campus Core Capacity Studies
Continuing the Pattern:
Campus Core Capacity Studies
Design Principles:
Buildings Scaled to the Site
Design Principles: Careful Construction

- arborist consultation
- tree protection
- close inspection
Design Principles:
Design Response to Site Conditions

Core West Parking Structure, 2001
Watry Design Associates
with Esherick Homsey Dodge and Davis
Design Principles:
Design Response to Site Conditions
Design Principles:
Materials and Colors

- stone
- concrete
- masonry
- plaster
- wood
- metals
- glass
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Materials and Colors

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Materials and Colors

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- glass
Design Principles:
Materials and Colors

stone  concrete  masonry  plaster  wood  metals  glass

Engineering Building 2004
Anshen + Allen Los Angeles
Design Principles:
Materials and Colors

- stone
- concrete
- masonry
- plaster
- wood
- metals
- glass
Design Principles:
Materials and Colors

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- concrete
- masonry
- plaster
- wood
- metals
- glass
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Design Principles:
Materials and Colors

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Everywhere a sense of the surroundings
Everywhere a sense of the surroundings
Knitting the Parts Together: Circulation & Connections

buildings
major roads
service roads
paths & bridges
bicycle routes
Knitting the Parts Together: Circulation & Connections

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Knitting the Parts Together:

Circulation & Connections

The Challenge:

- moving many people across complex terrain
- enjoying the trip
Knitting the Parts Together:
Circulation & Connections

• Solutions:
  • integrated transportation modes
Knitting the Parts Together: Circulation & Connections

- Solutions:
  - integrated transportation modes
  - complete pedestrian network
Knitting the Parts Together: Circulation & Connections

- Solutions:
  - integrated transportation modes
  - complete pedestrian network
  - convenient bicycle access
Knitting the Parts Together:
Circulation & Connections

• Solutions:
  • integrated transportation modes
  • complete pedestrian network
  • convenient bicycle access
  • cars at the perimeter
Arriving at UC Santa Cruz:
Cowell Ranch Buildings
Cowell Ranch Buildings

Cook House (Admissions Office)
Cowell Ranch Buildings

Barn Theater
Cowell Ranch Buildings

Carriage House (University Relations)
Cowell Ranch Buildings
Campus Lands Managed as University Resource

- LRDP resource designation
  - Environmental Reserve - 393 acres
  - Protected Landscape - 312 acres
  - Site Specific Research - 152 acres
Campus Lands Managed as University Resource

- LRDP resource designation
  - Environmental Reserve
  - Protected Landscape
  - Site Specific Research

- Informed landscape management practices
Campus Lands Managed as University Resource

- LRDP resource designation
  - Environmental Reserve
  - Protected Landscape
  - Site Specific Research

- Informed landscape management practices

- Oak reforestation
Campus Lands Managed as University Resource

- LRDP resource designation
  - Environmental Reserve
  - Protected Landscape
  - Site Specific Research

- Informed landscape management practices

- Oak reforestation

- Grazing program
Our Next Steps:
The Vision Continues....

Long Range Development Plan
2005-2020

academic intentions and enrollment level coordination with City of Santa Cruz General Plan expansion and densification strategies integrated solutions
The Vision Continues....