Science / Math / Central Plant Complex

Environmental Design & Economic Development

architecture                  interior                  planning

Shaping Spaces Making Places
Science / Math / Central Plant Complex

ED2 International
Architects / Planners

Frank S. Fung
Sr. Principal-in-Charge
Project Manager

Danny Young, AIA
Senior Associate / Project Architect

Peter W. T. Wong, SCUP
Senior Principal for Programming & Design
Lead Designer / Lab Planner

Stephen R. Chong, RIBA
Senior Interior Architect / Project Designer

KPFF
Structural Engineers

ALFATECH CAMBRIDGE
M/EP/T Engineers

CSW [St]²
Civil Engineers

RHAA
Landscape Architects

Davis Langdon
Cost Planners

Papadimos Group
Acoustics & Vibration

Project Team

College of Marin
Kentfield, CA
Community Participation

User Participatory Process

Community Participation
- Inclusive Outreach
- Collaborative Workshops
- Town Hall Meetings

Stakeholders Involvement
- Consensus
- Dissensus
- Differences
- Indifferences

Vision Casting / Buy-In
- Win-Win-Win Team Bldg.
- Earn Trust & Respect
Current Site Development

- Front-of-House vs. Back-of-House?
- Service & Deliveries?
- Accessible on-grade (2 Floors) Barrier-Free Design
- Corte Madera Creek – 100 Yr. Flood Plain
- Noise Attenuation & Landscape Buffer of Cooling Tower & Mechanical Equipment with Adjoining Residential Community
- Native American Midden as Archeological Resource
- Fire Lane along Creek with underground utilities
DRAIN AT PLANTING AREA
CURB WALL

CREEK PROMENADE 20'-0" (ASPHALT)
D5 SHOULDER
PLANTING AREA
PLANTING AREA
COTE MADERA CREEK

SECTION AT CREEK PROMENADE
COLLEGE OF MARIN - KENTFIELD CAMPUS

SCALE 1/4" = 1'-0"
- Separate Lab & Non-Laboratory Structures
  - 4-Story Non-Lab Building Aligned with New Fine Arts Building with True North / South Orientation
  - 2-Story L-Shaped Lab Building Aligned Setbacks with Existing Buildings
  - 1-Story Green Roof Central Plant near Corte Madera Creek
  - Geothermal Field Parking Lot & New Bridge Approach to Campus
Science / Math / Central Plant Complex

Previous Concept

Study Physical Model – Detailed Project Program
SITE STRATEGIES DIAGRAM
COLLEGE OF MARIN - KENTFIELD CAMPUS - SCIENCE, MATH, AND CENTRAL PLANT COMPLEX

1. CREATE CONNECTION TO CAMPUS FRONT DOOR
2. CREATE CONNECTION TO HARLAN
3. CREATE CONNECTION TO L.R.C.
4. CREATE CONNECTION TO STUDENT UNION
5. CREATE CONNECTION TO NEW GATEWAY BRIDGE SOUTHWEST CAMPUS
6. CREATE CONNECTION TO FUSSELMAN HALL
7. CREATE CONNECTION TO FINE ARTS & PERFORMING ARTS

STEPPED BLDG. PRESENTS SOFT FACE TO LOW DENSITY NEIGHBORHOOD

STRONG TERMINATION TO REDWOOD QUAD ANCHORS SOUTHWEST CAMPUS

BLDG. SITING IS PURPOSEFUL
- MEDIATES 15’ GRADE CHANGE
- UTILIZES FOOTPRINTS OF DEMOLISHED STRUCTURES
- BRINGS SCIENCE INTO THE HEART OF CAMPUS

RESPECT CORTE MADERA CREEK RIPARIAN ENVIRONMENT

BLDG. SITING MAXIMIZES VIEWS OF MT. TAMALPAIS
Key Planning Concepts

- **T-Shaped Plan**
  - Dialogue with Fine Arts
  - Offices & Classrooms w/ North-South Orientation
  - Setback Alignments
  - Landscape Buffering & Contextual Siting

- **On-grade Accessibility**
  - First & Second Floors
  - New Upper Redwood Quad Main Entry Shared with Fusselman Hall

- **Fire Lane Provisions**
  - Creekside Access & Upper Quad Turnaround

- **Minimize Site Impacts**
  - Arboretum Remediation
  - Bio-swale / Storm Drain / Green Roof Filtration
  - Heritage Trees Protection
  - Creek Preservation
Trees Preservation & Access
Express Spheres of Influence
- Arts/ Humanities/ Technology Connections
- Nature’s Overlapping Circles
  - South Oval Arrival Plaza
  - Molecule Entry Plaza
  - East Orbit Court
Sculpture Rain Gardens
Educational Opportunities
- Earthsmart / Eco-Literacy Themed Exhibits & Displays
  - Oval Arrival Plaza
  - Axiom Garden
  - Seed Garden
  - Elemental Court
  - Cellular Court
  - Usable Green Roofs
  - Rooftop Telescope Terrace
Outdoor Classrooms

Mathematics / History & Information Technology

Molecular Biology

Chemistry / Plants / Animals / Geology

Astronomy / Physical Sciences

Nursing & Life Sciences
Watercolor Rendering – Southwest View
- Terrace Massing
  - One-story Elements Sited Back from Laurel Avenue Nearest Residences
  - Stepping Offices & Classrooms with Landform
- Arrival Plaza & Gateway
  - To & From Geothermal Field Parking Lot 9 & New Bridge over Creek
- Sunlit Usable Open Spaces
  - Outdoor Interactive Spaces
  - Integrated Natural & Built Landscape & Hardscape
  - Green Roofs
- Modular / Flexible Lab Wings
  - Vertical Mech. Distribution
  - Sun Shades/Light Shelves
  - Sustainable Cladding
  - Low - Emissivity Glazing
  - Rooftop Sight Screening
Science / Math / Central Plant Complex

Laboratories
Lab Support
Classroom
Office / Office Support
Building Services
Indoor Circulation
Green Roofs

Organization & Stacking

By Function Use

1  2  3  4 / R
Science / Math / Central Plant Complex

Organization & Stacking
By Scientific Discipline

Physical Sciences
Life & Earth Sciences
Non-Department
Central Plant
Info. Tech. Center
Mathematics
Indoor Circulation
Nursing
Organization & Stacking

Program Components:
- Physical Sciences
- Life & Earth Sciences
- Non-Department
- Central Plant
- Data Center
- Mathematics
- Indoor Circulation

Labs & Service Support
- NW Central Utility Plant
- West Info. Tech. Center
- Center Wing – EW Axis
  Math / Museum Service Core
- North Lab Wing – NS Axis
- South Lab Wing – NS Axis
- South Dual Tower Gateway
Program Components:
- Physical Sciences
- Life & Earth Sciences
- Non-Dept Classrooms
- Nursing
- Green Roofs
- Indoor Circulation

Labs & Classrooms:
- West & North Green Roofs
- East 2nd Floor Main Entrance
- Central Classroom Wing & Utility/Service Core
- North Nursing Wing
- South Anatomy & Chemistry Lab Wing
Program-Appropriate

Program Components:

- Non-Dept. Offices
- Green Roofs
- Indoor Circulation

Office Floor:

- South & West Facing Green Roofs
- East Office Suite
- Open Office Landscape
- North & South Exterior Full-Time Faculty Offices
- Conference & Staff Room with Mt. Tam Views
- Equipment Sight Screens
Program Components:
- Non-Dept. Offices
- Green Roofs
- Indoor Circulation

Telescope Terrace
- Astronomy East Platform
- Telescope Storage
- Elevator
- Access Stairs
- Equipment Sight Screens
Shaping Spaces Making Places

Environmental Design & Economic Development

architecture       interior       planning