Environmental Design & Economic Development
“Shaping Spaces Making Places”

architecture      interior      planning

College of Marin Academic Center
Community Forum (03-30-2010)
New Academic Center
The Arcadian Arboretum

DESIGN CHARETTE - **PROBLEM SOLVING TOGETHER**

- Our team comes to your site
- We design on the spot
- You look over our shoulders
- Client & Architects collaborate & prioritize
- We can be more *creative* working uninterrupted
- It is a real *brainstorming* session
- You are in on every idea & decision
- We are a *total team*
- The final design is a *synthesis*, not a compromise

Shared Governance - Inclusive Participatory Process
Acclaimed Sustainable Strategies

Selected ED2 Projects

Harter Veterinary Medical Center, San Diego Wild Animal Park, Escondido, CA - AAZV Feature Project, 2001

CCGA - Center of Contemporary Graphic Art
Fukushima, Japan

Museum of the Year, Japan – 1995

MITI - Fourth Global Environmental Award

ARS-USDA San Joaquin Valley Agricultural Science Center
Parlier (Fresno County), CA

Energy Conservation by Design Traveling Exhibition, 2000
Recognized North Bay Designs

Selected ED2 Projects

Sonoma State Schulz Information Center
Rohnert Park, CA - WCCC, 6th Annual Design Award,

Marin YMCA, San Rafael, CA –

Dominican University of California
Conlan Recreation Center
San Rafael, CA

San Domenico Hall of the Arts -San Anselmo, CA
Recognized North Bay Designs

Selected ED2 Projects

Marin Catholic St. Francis Chapel, Monardo Bell Tower & New Pope John Paul II Student Center - Kentfield, CA

Kentfield & Marin County Water Conservation Award
Select College & University Campuses:

- California State University System (2 Campuses)
- Dominican University of Calif., San Rafael, CA
- Iowa State University, Ames, IA
- Kansas State University, Manhattan, KS
- Louisiana State University, Baton Rouge, LA
- Michigan State University, East Lansing, MI
- Mississippi State University, Starkville, MS
- Montana State University, Bozeman, MT
- Nippon Veterinary College, Tokyo, Japan
- Obirin University, Tokyo, Japan
- Pennsylvania State, University Park, PA
- Purdue University, West Lafayette, IN
- South Dakota State University, Brookings, SD
- Stanford University, Palo Alto, CA
- Texas A&M University System, Stephenville, TX
- The University of Chicago, IL
- University of California System (4 campuses)
- University of Minnesota, St. Paul
- University of Montreal, Quebec, Canada
- University of Nebraska, Lincoln, NE
- University of Nevada, Reno, NV
- University of Pennsylvania, Kennett Square, PA
- University of Wisconsin, Madison, WI
- University of Wyoming, Laramie, WY
- Western University of Health Sciences, Pomona, CA

Select Community College Campuses:

- City College of San Francisco, SF, CA
- College of Marin, Kentfield, CA
- Chaminade College, Honolulu, HI
- Holyoke Community College, Holyoke, MA
- Mission College, Santa Clara, CA
- North Lake Community College, Irving, TX
Valencia Street Elevation between 22nd & 23rd Street

Schematic Design Sketches

Best of 2008 Northern California
City College of San Francisco Mission Campus
Higher Education Winner

West Gateway Entrance
New Academic Center
The Arcadian Arboretum

Courtyards with Bridges to Renovated Downtown High School Building

Rooftop Library Terrace

Urban Campus with 3 Courtyards
New Mission Campus – Mission Street Site
City College of San Francisco, CA
Local Community Colleges

> Investigate & Test Options – Mission Street Site

A

B

C

D

E

Academic Wings

Oval Plaza

Transverse Courtyard

Galleria / Indoor Street

Linear Atrium
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
Science/Math/Central Plant Complex

Contextually in Scale with our Surroundings

Site Section A-A
Science/Math/Central Plant Complex

Orbit Plaza Upper Level Main Entrance
Community Town Meetings & Design Workshops

In-depth Discussions / Questions & Answers

Laurel Avenue Neighborhood Involvement

Responsive Listening/Translate Inputs into Physical Form
User Participatory Process
Design Workshops / Site Visits to Peer Institutions
New Academic Center
The Arcadian Arboretum

A. GOLDEN RATIO - NAUTILUS
New Academic Center
The Arcadian Arboretum

B. OVALS
New Academic Center
The Arcadian Arboretum

C. RADIAL
New Academic Center
The Arcadian Arboretum

D. SPIRAL / PINWHEEL
New Academic Center
The Arcadian Arboretum

E. WAVES
New Academic Center
The Arcadian Arboretum
New Academic Center
The Arcadian Arboretum

F1. REVISED SEGMENTED ARCS
F2. INITIAL ARCADIUS ARBORETUM
The Arcadian Arboretum

College of Marin – Steinberg Illustrative Master Plan

Modernist Vocabulary

Revised Illustrative Site Plan
GUIDING PRINCIPLES OF MASTER PLAN MAINTAINED
The Arcadian Arboretum is inspired by, and follows, the principles that were developed by the COM Design Guidelines SubCommittee to achieve a human scale, friendly, and sustainable campus.

1. Recognize & Accentuate Sense of Place
   - Preserve and enhance significant views into, within, and from campus.

2. Promote a Cohesive Campus Image
   - Design buildings with small footprints that engage the surrounding environment and landscapes that guide unity buildings and create outdoor rooms.

3. Foster Creative Human Interaction
   - Provide a variety of outdoor rooms at multiple scales that allow for an array of experiences.

4. Create an Intuitive Pedestrian Network
   - Design a distinct pedestrian-oriented, universally accessible path of travel that connects the college with the community of Marin.

5. Steward Natural Resources
   - Preserve as Many Trees as Possible

6. Embody Sustainability
   - Achieve LEED Platinum Certified Development

7. Promote Innovation & Continuous Improvement
   - Design Durable, Flexible & Adaptable Spaces over Time.

COM – Academic Center Boards 1
New Academic Center
The Arcadian Arboretum

1. Heart of the Campus Visible from Sir Francis Drake Boulevard & College Avenue
2. Historic Administration Arcade & Heritage Trees are Links to the Past & Future
3. Auditorium Placed at Circulation Core & Campus Crossroads
4. Central Arboretum Expanded & Activated by Auditorium Classroom
5. Clear Distinct Front Gate at Circle Drive
6. Shared Mt. Tam Views
7. LEED Platinum Building – Campus Core Values for Sustainability
8. Shared Amphitheater Under Ancient Oak Trees Becomes Heart of Campus
The Arcadian Arboretum

Poetic Place-making Opportunities

1. Circle Drive Entry Gate
   - Statue under Avenue Oaks: the amphitheater brings campus community together
   - Stepped terraces: respect existing grades & allow for seating of 200 people
   - Muriel Adams Arcade provides backdrop for stage and social gathering space

2. Redwood Wing
   - Plaza and Living Learning Dome are at the heart of COPM circulation
   - Magnolia classrooms and plastered walls provide opportunities for visual and auditory learning
   - Central atrium becomes campus hub for convivial social interactions

3. Sun-Water Plaza
   - Living Dome is aesthetic center for campus wide learning
   - Green roofs and planters that create new landmarks
   - Linking COPM to Mt. Tam.

4. Oak Wing
   - Classroom on green roof provides flexible programmable space
   - Visual impact sensitively framed with the winds of the LLD
   - Visual impact sensitively framed by green of LLD
   - Modern glass at entrance maximized by replicating Spanish Mission & Big Leaf Maples

5. Nautilus Amphitheater
   - Building integrates existing Redwood Grove and provides ADA access
   - Green roof is used for small meals for students, faculty, and faculty gatherings
   - Drop off at Circle Drive allows for easy drop off and loading
   - Walk through Redwood Grove provides a poetic secondary entrance to the campus

6. Oak Arboretum
   - Oak Arboretum

7. Living Learning Dome (L.L.D.)
   - Green roof
   - Solar panel tower provides a college landmark from Sir Francis Drake
   - Water terrace garden holds rain water catchment basins for reuse

8. Central Arboretum
   - Central Arboretum

College of Marin – Academic Center Design Competition Boards 2

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College of Marin – Academic Center Design Competition Boards 2
New Academic Center
The Arcadian Arboretum

Site Sections
COLLEGE AVENUE AND SIR FRANCIS DRAKE CORNER VIEW - SUN WATER PLAZA

SIR FRANCIS DRAKE BOULEVARD - CIRCLE DRIVE FRONT GATE

WEST VIEW OF ADMIN ARBOR & LIVING LEARNING DOME

NORTH VIEW OF NAUTILUS AMPHITHEATER

EAST VIEW OF OAK ARBORETUM, SOLAR SPIRAL & MT. TAM

PERSPECTIVE RENDERINGS + SECTION B
THE ARCADIAN ARBORETUM

3-D PERSPECTIVE RENDERINGS
THE ARCADIAN ARBORETUM

College of Marin – Academic Center Design Competition Boards 5 & 6
Harlan Hall
Completed in 1929 for $53,600, designed by A.A. Cantin and built by Younger & Horstmeyer in 65 days, Harlan Hall served as the second permanent building on the Marin Junior College campus. First named the Administration Building, it was renamed in 1938 after George H. Harlan, the first president of the Board of Trustees. The charm of the old Spanish architecture was lost when the building was razed in November of 1969.
New Academic Center
The Arcadian Arboretum

Regus Crest Grand Country Club
Hiroshima, Japan

Regus Crest Royal Country Club
Hiroshima, Japan

ED2’s Symbolic Tower
Case Study

Towa Grand Hotel
Tochigi Prefecture, Japan

Nasu Highland Golf Club
Nasu, Japan
“The ED2 group has a more airy feeling with the space and does not seem to be alien to the nature around. By using terracing and more open facades the trees seem to be more integral to the process. This design is more accessible, less domineering. It’s more whimsical and less angular. I like a tower feature and curved staircase.”
New Academic Center
The Arcadian Arboretum

Garden-like Design Elements
- Arbors
- Breezeways
- Covered Arcades
- Gazebo
- Horizontal Lath-house Elements
- Lattices
- Knee-braced Sunscreens
- Portals
- Trellises

College Avenue – Welcoming, Open, Inviting & Friendly Entrance
New Academic Center
The Arcadian Arboretum

Sun Water Plaza

- Rain Water Harvesting Below
- Native American Chevron Wave Recycled Stone Pavers
- Covered Breezeway Portal
- Dual Directional Arrow Head Pattern

College Avenue - Welcoming, Open, Inviting & Friendly Entrance
New Academic Center
The Arcadian Arboretum

Exterior Terra Cotta Colored
Rain Screen Panels
New Academic Center
The Arcadian Arboretum

College Avenue – Street View of Terraced Oak Wing & Mount Tam
New Academic Center
The Arcadian Arboretum

College of Marin – Academic Center Design Competition Walk-Thru

College Avenue – SE Transit Gate, Solar Spiral & Sir Francis Drake
The ED2 design seems to make more use of the outdoors, which would make it better for California... Seems to make better use of the terrain, and is more pleasing.” - Mike Williamson
"ED2: Arcadian Arboretum Best by far."
"ED2: Prefer this design – especially the amphitheater & arboretum."

New Academic Center
The Arcadian Arboretum

College of Marin – Academic Center Design Competition Renderings
North View – LLD, Oak Arboretum & Nautilus Amphitheater
Kentfield, CA

New Academic Center
The Arcadian Arboretum

“I prefer the ED2. Keep it small so it fits into a small town feel! No big corner structure…”

“ED2 design only!!! – Donna Reeve  -  9 Maple, Kentfield, CA 94904

College of Marin – Academic Center Design Competition Renderings

South View – Solar Spiral, Mount Tam & Living Learning Dome
New Academic Center
The Arcadian Arboretum

No Solar Spiral Option - Mission Style Referencing & Contextual Designs
New Academic Center
The Arcadian Arboretum

Clark Kerr Campus, UC Berkeley

ED2 International – Mission Style Referencing & Contextual Designs
New Academic Center
The Arcadian Arboretum

- Move elevator & engage east Oak Wing stair
- Provide Enclosed Lobby on Ground Floor along College Avenue Street Arcade
- Introduce 3-stepped Landscape Terraces Transitioning Community Welcoming Plaza with Sun-Water Plaza

Revised Floor Plans

No Solar Spiral Option - Mission Style Referencing & Contextual Designs
“Remove the Solar Spiral and try a lighter color palette.”

No Solar Spiral Option: Lighter Warm/Neutral Color & Contextual Designs
New Academic Center
The Arcadian Arboretum

Previous Sun-Water Plaza
“Consider other color schemes other than Terra Cotta.”
“Like Harvesting of Rainwater.”

Introduce Lighter Warm / Neutral Earhtone Colors & Gazebo as Transition Hub for Covered Arcades Connection Both Wings

No Solar Spiral Option - Mission Style Referencing & Contextual Designs
“Current Spanish Colonial, Old California Theme which gives great charm to the campus has been ignored and obliterated. . . Please look to the original building . . . , our history, for inspiration.”

- Charlotte Kissling

Sloped Salvaged Spanish Roof Tiles Recalls Mt. Tam on Oak Wing & Slope toward Trees at Redwood Wing

View at Corner of College Avenue & Sir Francis Drake Boulevard

No Solar Spiral Option - Mission Style Referencing & Contextual Designs
New Academic Center
The Arcadian Arboretum

Sloped Salvaged Spanish Roof Tiles Recalls Mt. Tam on Oak Wing & Slope toward Trees at Redwood Wing

View at Corner of College Avenue & Sir Francis Drake Boulevard

No Solar Spiral Option - Mission Style Referencing & Contextual Designs
Kentfield, CA
New Academic Center
The Arcadian Arboretum

“Really like the organic nature of ED2’s Design – please get rid of the tower. . . Like the smaller footprint and how the buildings relate to each other. Like the corner design with the existing Redwood trees. If you can get rid of the tower – this design would be great.”

“Get rid of that tower . . . My preference leans toward the ED2 design. The spread out openness displays for me a better general design. I like the central large auditorium. It would be good if some of our original architecture (Spanish from 1926 – 1935) could be incorporated into the final designs.”

- Murray Peterson, COM Graduate, Alumnus, COM Retired Faculty, Concerned Citizen

Southeast Transit Gateway on College Ave. & Sir Francis Drake Boulevard
No Solar Spiral Option - Mission Style Referencing & Contextual Designs
No Solar Spiral Option - Mission Style Referencing & Contextual Designs
New Academic Center
The Arcadian Arboretum

Oak Arboretum /
Nautilus Amphitheater & Admin. Arbor

Oak Wing
Faculty Offices over Classrooms

Stepped Backs
along
College Avenue

Perspective Section through Terraced Oak Wing with Covered Arcades

No Solar Spiral Option - Mission Style Referencing & Contextual Designs
New Academic Center
The Arcadian Arboretum

Ecological Responsible/Economically Sustainable Strategies

Achieving a healthy & mutually enhancing balance for the future preservation of 3 interdependent areas:

- **Equity** (Community) = Socially Empowering
- Economy = Economically Profitable
- Ecology = Ecologically Regenerative

the Triple Bottom Line

- Planet - Natural Capital
- People - Human Capital
- Profit - Economic Capital
## Ecological Responsible/Economically Sustainable Strategies

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### Sustainability Goals & LEED Certification

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<th>BUILDING OPERATIONS</th>
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# Sustainability Strategies / LEED AP

## EarthSmart & Eco-Imaginative Programs

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<th>Quality Indoor Environment</th>
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<td>• Whole Building Energy Analysis</td>
<td>• Low-toxicity Building Products</td>
<td>• Indoor Water Efficiency</td>
<td>• Recycled Content Building Products</td>
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<tr>
<td>• Specific Requirements for Building Envelope, HVAC and Lighting System</td>
<td>• Fresh Air Ventilation</td>
<td>• Environmentally Appropriate Landscaping</td>
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<tr>
<td>• Building Commissioning</td>
<td>• Natural Daylighting</td>
<td>• Interior Recycling Storage Area</td>
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<td>• Integrated Design Process</td>
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New Academic Center
The Arcadian Arboretum

Kentfield, CA
New Academic Center
The Arcadian Arboretum

Sustainable Materials + Systems

Low Toxicity Building Products
- Paints, Primers, Stains & Adhesives
- Laminates / Phenolic Resin Paneling
- Sealants & Caulking

Low Maintenance Building Products
- Concrete with Fly Ash
- Ceramic Tiles
- Linoleum & Rubber Flooring
- Concrete Pavers, Metals, etc.

Long Life Recycled Products
- Concrete
- FSC Wood Products
- Glass
- Metals

Building System Efficiency
- Structural Special Moment Frames
- MEP/T Energy Smart Systems
- Low- Emissivity Dual Glazing
- Impact & Vandal Resistant
- Moisture Resistant & Durable Finishes
Usable Green Roofs
New Academic Center
The Arcadian Arboretum

GREEN ROOF INSTALLATION STEPS

1. Roof Building with Board, Shingles, or Metal
2. Drainage Layer
3. Insulation
4. Protection Mat
5. Lightweight soil
6. Plants

Ornamental Sedum Build-Up

Infill with expanded shale and cover with filter sheet

Installation of Protection Mat

60mm Drainage Composite

Inspection chamber above roof drain element

Computer Controlled Leak Monitoring

Gasket

Sub-Surface Capillary System Applications
- Sports Fields
- Golf Courses
- Turf Farms
- Parks
- Roof Gardens
- Annuals
- Shrubs
- Trees
- Ground Covers
- Succulents
- Wet Land

LEED™ CERTIFICATION

Green roofs can earn credits under the following:
- Reduced Site Disturbance: protect or restore open space
- Landscape Design that reduces Urban Heat Islands
- Storm Water Management: Treatment/Rate and Quantity
- Water Efficient Landscaping - reduction by 50%
- Innovation in Design
- Optimize Energy Performance
- Resource Re-use
- Rapidly Renewable Materials

RESICON USA, INC.
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resiconusa@resiconusa.com

Kentfield, CA
Usable Green Roofs
New Academic Center
The Arcadian Arboretum

ED2 international

www.greenroofs.org

Kentfield, CA
Usable Green Roofs
New Academic Center
The Arcadian Arboretum

www.greenroofs.org
New Academic Center
The Arcadian Arboretum

Passive Solar/ Natural Daylighting
New Academic Center
The Arcadian Arboretum

Vertical Geothermal Borings
Geothermal Cooling (Summer)

SUMMER - When building is being cooled

CONSTANT EARTH TEMPERATURE + 81° F
GEOTHERMAL FIELD

HEAT PUMP

+ 71° F

PUMP

Air
Water
New Academic Center
The Arcadian Arboretum

Geothermal Heating (Winter)

WINTER - When building is being heated

CONSTANT EARTH TEMPERATURE + 61° F
GEOTHERMAL FIELD

Air
Water
Enthalpy Wheel

Green Educational Displays
Supply & Return Water Temperature

Supply Temp
61°

Return Temp
69.5°
Enthalpy Wheel – Graphics

54º F
Outside Air

68º F
Supply Air

58º F
Exhaust Air

70º F
Return Air
Achieving a Platinum LEED Rating

The Passive and Active Energy Saving Features of The COM Arcadian Arboretum Complex shall resulted in:

• Major Reduction in Purchased Power/Yr
• Carbon Emissions Reduced by Several Hundred Tons/Yr = 1 Million Miles not driven or enough electricity to supply 123 homes for a year
• 300% More Fresh Air Introduced into the Complex
• Excellent Indoor Air Quality
• Faculty & students shall enjoy a “Great Learning Environment”!
## Achieving a Platinum LEED Rating

### Sustainable Sites (26 Points)
- **Prereg. 1:** Construction Activity Pollution Prevention
- **Prereg. 1:** Site Selection
- **Credit 1:** Brownfield Redevelopment
- **Credit 2:** Development Density & Community Connectivity
- **Credit 3:** Alternative Transportation, Public Transportation Access
- **Credit 4:** Alternative Transportation, Bicycle Storage & Changing Rooms
- **Credit 5:** Alternative Transportation, Low Emission/Pollutant Emissions Vehicles
- **Credit 6:** Alternative Transportation, Parking Capacity
- **Credit 7:** Biotic Development, Protect or Restore Habitat
- **Credit 8:** Water Quality, Water Efficiency
- **Credit 9:** Stormwater Design, Quantity Control
- **Credit 10:** Stormwater Design, Quality Control
- **Credit 11:** Heat Island Effect, Non-Roof
- **Credit 12:** Heat Island Effect, Roof
- **Credit 13:** Light Pollution Reduction

### Water Efficiency (10 Points)
- **Prereg. 1:** Water Use Reduction, 20%
- **Credit 1:** Water Efficient Landscaping, Reduce by 50%
- **Credit 2:** Water Efficient Landscaping, No Potable Water/No Irrigation
- **Credit 3:** Innovative Wastewater Technologies
- **Credit 4:** Water Use Reduction, 1 pt = 35%, 2 pts = 35%, 3 pts = 40%

### Energy and Atmosphere (35 Points)
- **Prereg. 1:** Fundamental Commissioning of Building Energy Systems
- **Prereg. 1:** Minimum Energy Performance
- **Prereg. 1:** Fundamental Refrigerant Management
- **Credit 1:** Optimize Energy Performance, 1 pt = 12% to 20% Savings
- **Credit 2:** On-Site Renewable Energy, 1 pt = 1%, 2 pts = 13%
- **Credit 3:** Enhanced Commissioning
- **Credit 4:** Enhanced Refrigerant Management
- **Credit 5:** Measurement & Verification
- **Credit 6:** Green Power

### Materials & Resources (14 Points)
- **Prereg. 1:** Storage & Collection of Recyclables
- **Credit 1:** Building Reuse, Maintain 50% of Interior Elements
- **Credit 2:** Construction Waste Management, 1 pt = 50%, 2 pts = 75%

### LEED AC 2009 Point Scale
- Platinum: 80-100
- Gold: 60-79
- Silver: 50-59
- Certified: 40-49
- Minimum: 0-39
New Academic Center
The Arcadian Arboretum

Kentfield, CA

Interactive Spaces

COFFEE BAR WITH TABLES & CHAIRS
INFORMAL SEATING GROUPS AT EXTERIOR
2-STORY OPEN STAIR & LOUNGE
FOOD SERVICE / VENDING
END OF CORRIDOR WITH OUTSIDE WINDOW
New Gateway Complex
The Arcadian Arboretum

Open Flexible Modules

- Increases Flexibility
- Promotes & Fosters Collaboration
- Increases Productivity
- Provides Greater Safety

1, 1/2, 1/3, 2/3, 1/4 of a Module
New Academic Center
The Arcadian Arboretum

Flexibility / Modularity

- **FLEXIBILITY**
  (Building Expansion/ Growth)

- **ADAPTABILITY**
  (Building System Changes)

- **CONVERTIBILITY**
  (Changes within Rooms)

- **INTERCHANGEABILITY**
  (Furniture System Changes)

Flexible Modular Spaces
New Academic Center
The Arcadian Arboretum

Flexibility / Modularity

- **RELOCATABLE CABINETRY**
  - Floor Standing / Wall-Hung
  - Cantilevered C-Frames
  - Carts & Wall Lockers

- **NON-PROGRESSIVE DEMOUNTABLE PARTITIONS**

- **COMPACT MOBILE STORAGE SYSTEMS**
  - Manual
  - Mechanical Assisted
  - Electrified
  - ASRS Robotic System

Flexible Modular Labs
New Academic Center
The Arcadian Arboretum

Smart Classrooms / Seminars
Maximizing Flexibility and Efficiency...

1,200 SF Learning Environment

24 – 60 Stations
20 – 42 Square Feet per Station
New Academic Center
The Arcadian Arboretum

Programming Specifics: Functional Zoning

Circulation Linkage (Corridors vs. Breezeways)

Academic Pods

Interactive Clusters

Administrative Suite Placement
New Academic Center
The Arcadian Arboretum

Computer Labs

- Team-based Learning
- Open Space for General Student Use
- Off-hours Access
- Flexibility & Adaptability
New Academic Center
The Arcadian Arboretum

Computer Labs
**INTEGRATION – DESIGN PRINCIPLES**

*(Northeast Precinct)*

- **To Merge**
  - A Wrightian tribute to be contextual with the existing surroundings & natural landscape

- **To Enfront**
  - Open arms to the community with building setbacks & step-backs along College Avenue
  - Gentle cascading forms of structure with existing hilly terrain and topography to visually reduce mass of building along College Ave.

- **To Surround**
  - Open Arcade overseeing the new Oak Arboretum & shared views of Mt. Tam from the Oak Wing, Redwood Wing & Nautilus Amphitheater

- **To Claim**
  - Symbolic Place-making of three design Features (Living Learning Dome, Administration Arbor & Renewable Technology)

- **To Transition**
  - Four gateways as creative circulation network & clear wayfinding
Shared Community & Campus
Core Values & Goals

1. Preserving the Past & Connecting to the Future
   - Retaining existing heritage trees
   - Saving & adaptive re-use of historical Admin. Arbor & Mission Tile Roofs

2. Showcasing Sustainability & Illustrating Responsible Stewardship
   - Integrating natural resources, built landscape & flexible buildings
   - Achieving LEED Platinum Rating - connecting to geothermal field & central plant
   - Incorporating Photovoltaic & Solar Panels for domestic H₂O usage
   - Creating sustainable features as a teaching tool, that ties in with College curriculum goals
SHARING COMMUNITY & CAMPUS
CORE VALUES & GOALS

3. Setting a Clear & Viable Development Direction for the NE Precinct

- Balancing visual, functional & spiritual qualities of a place
- Enhancing identity, fostering diversity, promoting accessibility & offering flexibility for the future
- Projecting a timeless, contextual, understated & historical respectful image
- Reinforcing the historic “park-like” & “natural landscape” character of the campus
- Orienting, aligning, earth tone material palette compatible with other new & existing campus buildings
- Defining campus entrances from four directions with open & clear wayfinding gateways

College of Marin Academic Center
Community Input Incorporation
The Arcadian Arboretum
SHARING COMMUNITY & CAMPUS
CORE VALUES & GOALS

3. Setting a Clear & Viable Development
   Direction for the NE Precinct

- Getting Rid of the Solar Spiral & Reusing the existing Spanish Mission Roof Tiles.
- Incorporating contemporary garden-like motifs (Arbors, breezeways, covered arcades, gazebo, horizontal lath-house elements, lattices, knee-braced sunscreens, portals & trellises)
- Fostering welcoming human interactions in sun & shade
- Offering a variety of learning, socializing, seating, people watching, gathering & interactive spaces.
- Encouraging pedestrian activities with pleasant activity nodes & outdoor classrooms
The Arcadian Arboretum Green Team

ED2 International
Architects / Planners

Frank S. Fung
Sr. Principal in-Charge
Managing Sr. Principal

Peter W. T. Wong, SCUP
Senior Principal for
Planning & Design

Danny Young, AIA
Senior Associate / Project Architect

Lisa L. Boock, CSI
Senior Planner / Facilities Programmer

Ken Young, RA
Sr. Tech. Coord.

Branden Harrell
Arch. Designer

Haris Raftis
3D Simulation

Dennis O’Kelly
Project Designer

Julia Lin
CADD Mgr.

Keith Asada
Interior Designer

Philip J. Ong
Technical Coordinator

KPFF
Structural Engineers

ALFA TECH Engineers
M/EP/T Engineers

CSW [St]^2
Civil Engineers

RHAA
Landscape Architects

Davis Langdon
LEED & Cost Planners

Papadimos Group
Acoustics & Vibration
The ED2 International Green Team has . . .

**Collective Character & Chemistry** – “Not an Assemblage of Qualified Strangers”
- Highest Quality Services (*Award-Winning Team with Special Campus Knowledge*)
- Dedicated Assignment of Key Senior Staff (*Astute, Seasoned and Talented*)

**Caring & Contextual Place-making** – “Same COMSMCPC Team”
- Proven Platinum Rated Sustainable & Design Expertise (*World Class Facilities*)
- Tested Campus, Community & Jurisdictional Responsiveness (*Marin / DSA Familiarity & Extensive Energy Smart Office & Classroom Experience*)

**Community Commitment** – “Inclusive Shared Governance”
- Cost, Design, Environmental, Quality, Safety & Schedule Control (*Leadership*)
- Accurate Cost-Modeling Information (*Over 100 Projects with Davis Langdon*)

*To Meet & Exceed Campus Core Values & Community Goals To Showcase Sustainability & Illustrate Environmental Stewardship*

*Quality Design through Quality Relationships*
New Gateway Complex
The Arcadian Arboretum

Environmental Design & Economic Development

architecture                     interior                     planning

Shaping Spaces Making Places
Current ED2 Projects

- **Bayview Hunters Point YMCA, SF, CA**
- **College of Marin Science/Math/Central Plant Complex, Kentfield, CA**
- **Helen Woodward Animal Center, Rancho Santa Fe, CA**
- **Grace Fellowship Community Church, SF, CA**
- **Megan Furth Academy, San Francisco, CA**
- **Marin Catholic New Student Center, Kentfield, CA**
Davis Langdon Inc.
Cost Planning &
LEED Certifiers

2,750 Employees
80 Offices Worldwide
100+ Project History with ED2 International in past 25 yrs.

College of Marin
Science/ Math / Central Plant Complex
Kentfield, CA

UNL-VDC Lab
University of Nebraska
Lincoln, NE

Paul Harter Veterinary Medical Center
San Diego Wild Animal Park
Escondido, CA
New Academic Center
The Arcadian Arboretum

CSW [St]^2 - Civil & Infrastructure Design

Buck Center
for Age Research
Novato, CA

UC Davis Medical Center
Sacramento, CA

Dominican
University of California
San Rafael, CA

College of Marin &
Indian Valley Campuses
Kentfield & Novato, CA

Downtown Petaluma River
Enhancement, Petaluma, CA

CSU Sonoma
Environmental Tech. Ctr.
Rohnert Park, CA
Select Information Technology Facilities:

• CCSF New Mission Campus
  San Francisco, CA

• City of San Jose West Valley Library
  San Jose, CA

• Darwin Hall Renovations
  Sonoma State University, Rohnert Park, CA

• Elihu M. Harris State Office Building
  Oakland, CA

• Haas School of Business
  University of California, Berkeley, CA

• Hong Kong Science & Technology Park
  Hong Kong, Peoples Republic of China

• Linfield College
  McMinnville, OR

• LLNL Building 132 Office / Lab Complex
  Lawrence Livermore National Lab, Livermore, CA

• Monterey Peninsula Community College
  Monterey, CA

• Marin Catholic Student Center & St. Francis Chapel
  Kentfield, CA

• Performance Theater – Carol Franc Hall of the Arts
  San Domenico School, San Anselmo, CA

• UCSF Cancer Research Facility
  San Francisco, CA

• Valparaiso University Library Facility
  Valparaiso, IN

• Wright Hall
  University of Nevada Las Vegas, NV
New Academic Center
The Arcadian Arboretum

*Environmental Design & Economic Development*

“Shaping Spaces Making Places”

architecture  interior  planning

College of Marin Academic Center
Community Forum (03-30-2010) – Q & A Session
## New Academic Center
**The Arcadian Arboretum**

Kentfield, CA

### Selected Computer Center & Computer Lab Experience

- **Administration Bldg. / Computer Center**
  Obirin University, Tokyo, Japan

- **Academic Science Center**
  Tarleton State University, Texas A & M University System, Stephenville, TX

- **Bank of America Data & Technology Centers**
  Concord & San Francisco, CA

- **Citicorp Corporate Headquarters**
  San Francisco, CA

- **COM Science/Math/Central Plant Complex**
  College of Marin, Kentfield, CA

- **DNP Corporate Headquarters**
  Tokyo, Japan

- **Elihu M. Harris State Office Building**
  Dept. of General Services, Oakland, CA

- **Ground Transportation Center**
  San Bruno, CA

- **First Republic Bank Headquarters**
  San Francisco, CA

- **Hambrecht & Quist Teleconferencing Center**
  San Francisco, CA

- **Honeywell Corporate Offices**
  Hayward, CA

- **IBM Computer Centers & Usability Labs**
  West & Southwest Regions
  (14 Western States)

- **Jean & Charles Schulz Information Center**
  Sonoma State University, Rohnert Park, CA

- **John E. Moss Federal Building**
  Dept. of General Services, Sacramento, CA

- **Manufacturers Hanover Trust Headquarters**
  San Francisco, CA

- **Pacific Bell Headquarters**
  SF, CA

- **PG&E Learning Center**
  San Ramon, CA

- **Sanlian Group Corporate Headquarters**
  Jinan, Peoples Republic of China

- **Sanpao Group Corporate Headquarters**
  San Francisco, CA

- **Wells Fargo 401k Center**
  San Francisco, CA

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**ED2 International - 50+ Computer / Data Centers**