

CAED College of Architecture & Environmental Design

CAED Visual Collective

CAL POLY
SAN LUIS OBISPO

CAED Visual Collective

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CAED Architecture Department's Students Work Archive

The Architecture Department at California Polytechnic State University, San Luis Obispo boasts a growing collection of student work that reflects our department's unique approach to the education of an architect. Core to this success are the polytechnic principles that seek to advance the cause of architecture through a balanced approach between art and science, and a curriculum that furthers the acquisition of knowledge through a learn-by-doing philosophy.



Aug 5 2011

ARTICLE 5

This is the text for Article 5.

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CAL POLY

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College of Architecture & Environmental Design
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NRC Phone: 805-756-2165

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Thomas Fowler IV, Professor and Director of Architecture Graduate Program

The CAED Visual Collective



Presentation Outline:

[Thomas]

- Mission & Aim
- Visual Literacy
- Time Line
- Challenges

[Vickie]

- Overview
- Input / Maintenance
- Challenges
- Live Demo

CAED College of Architecture & Environmental Design

The CAED's Visual Collective

- The CAED Student Work Archive
- CAED Architecture History Database:
Ancient, Medieval-Renaissance & Modern Architecture
- CAED Material Sample Collection Database

The CAED Architecture Student Work Archive

The Mission: The Architecture Department (plus other department's as determined) needs to create a freely available digital repository of important student work in the CAED, by offering high-quality digital images, full-text searching, deep indexing of contents, and detailed descriptive abstracts.

The Aim: The CAED Student Work Archive aims to visually inform perspective and current students, faculty in addition to the World about CAED students' work.

Visual Literacy

LEFT BRAIN **RIGHT BRAIN** by Dan Eden

LEFT BRAIN FUNCTIONS

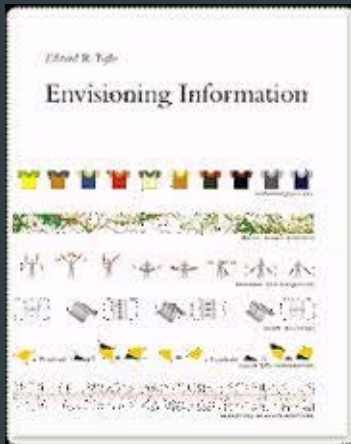
uses logic
detail oriented
facts rule
words and
language
present and past
math and science
can comprehend
knowing
acknowledges
order/pattern
perception
knows object name
reality based
forms strategies
practical

RIGHT BRAIN FUNCTIONS

uses feeling
"big picture"
oriented
imagination rules
symbols and
images
present and future
philosophy &
religion
can "get it" (i.e.
meaning)
believes
appreciates
spatial perception
knows object
function

Visual Literacy

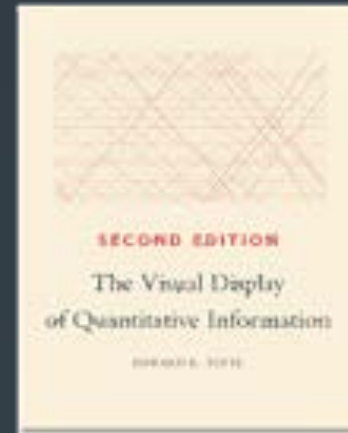
Beautiful Evidence is about the theory and practice of analytical design.
— Edward Tufte



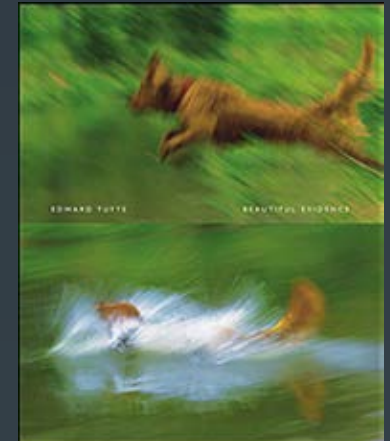
Envisioning Info



Visual Explanations



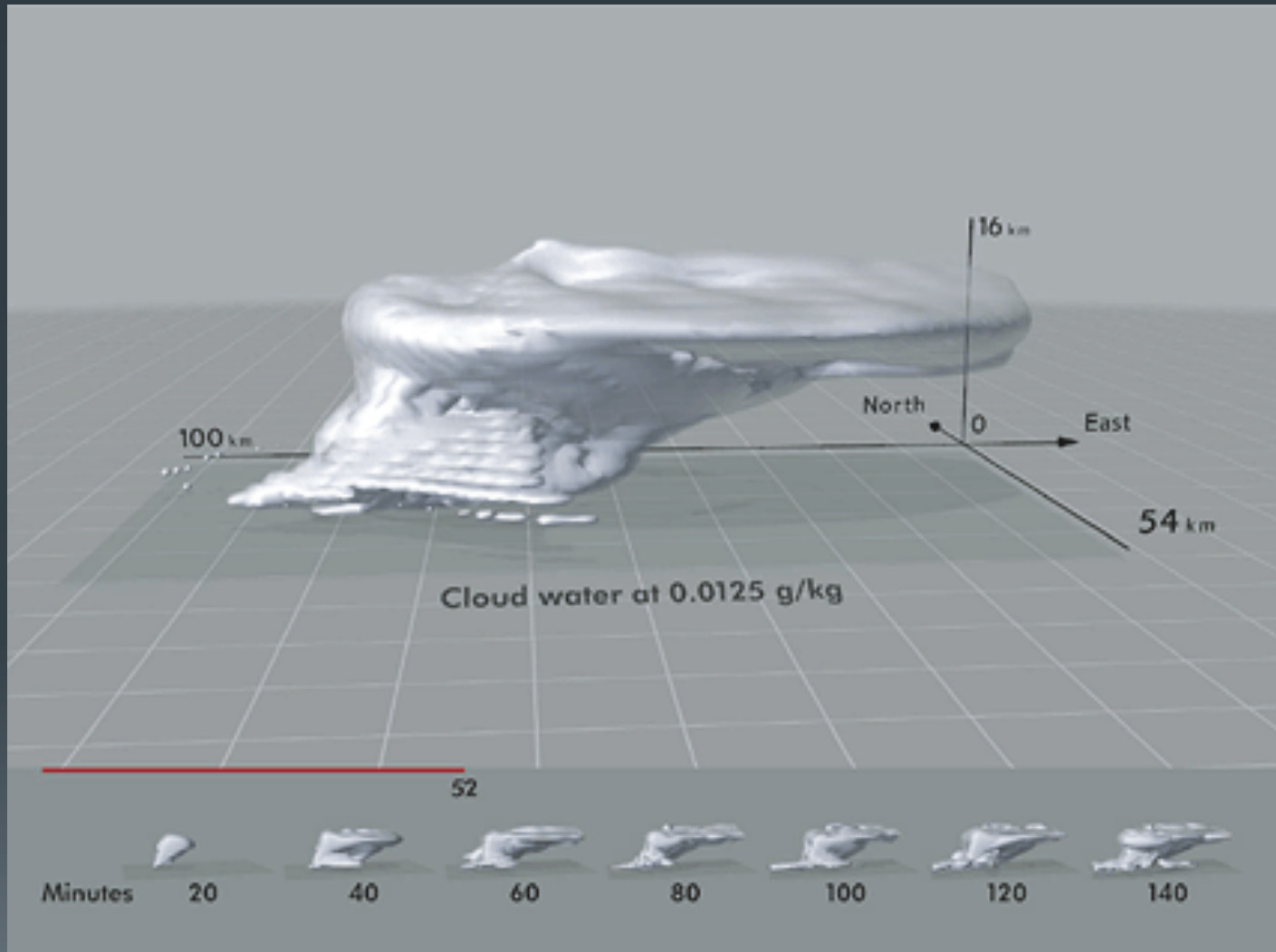
Visual Display
Of Quantitative
Info



Beautiful Evidence

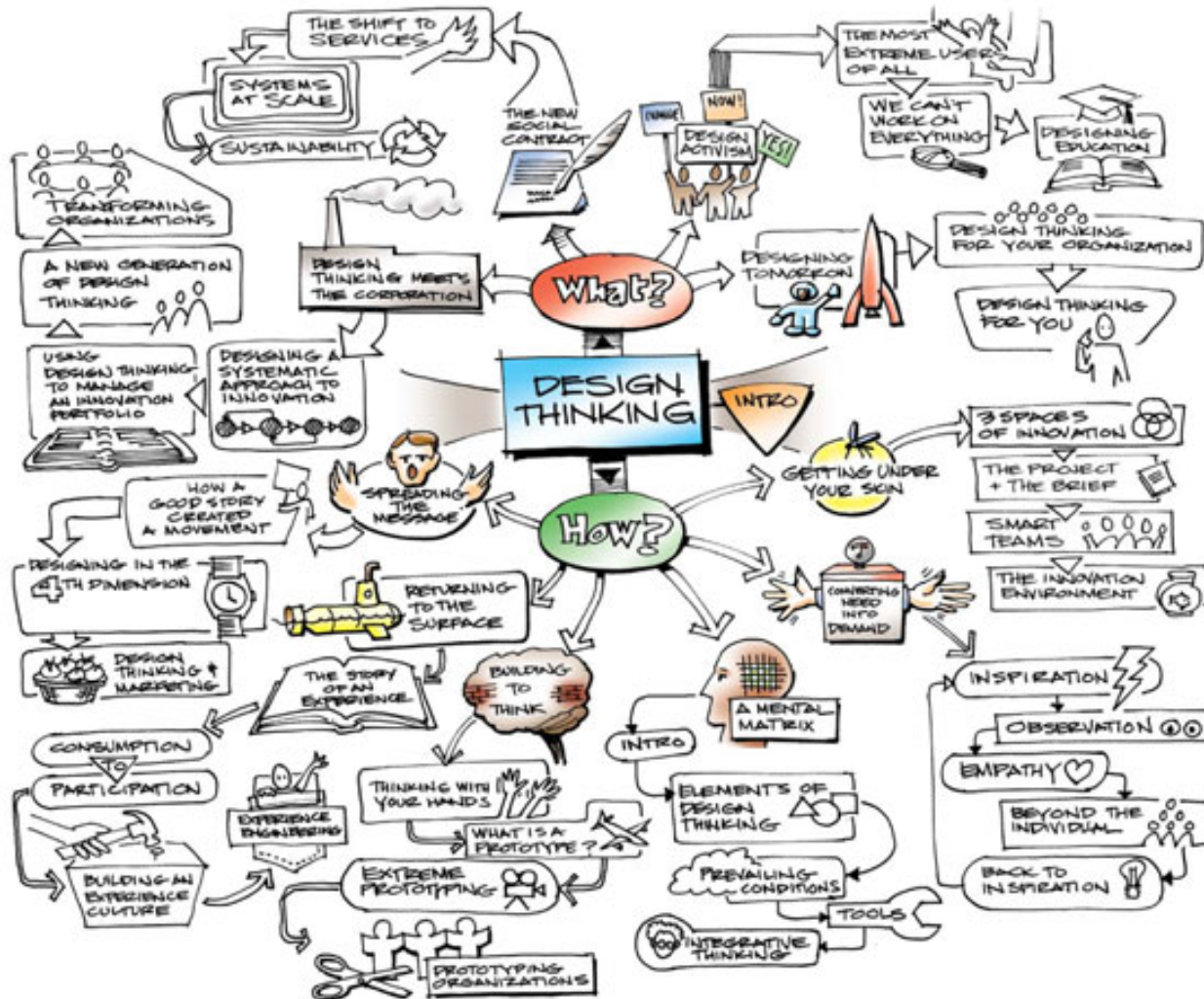
Edward Tufte —
Professor Emeritus (Yale) of political science, statistics, computer science, and sculptor.

Visual Literacy



Edward Tufte's graphic image for the formation of a cloud (From Visual Explanations)

Visual Literacy [Behind the Graphic or Image]



Tim Brown's (CEO of IDEO) Design Thinking Diagram

The Need for Visual Access to Students' Work

As a Teaching Tool —

For Students' learning:

- Awareness of prior story telling through the range of drawings, models and media use strategies / skills.

For Faculty:

- Demonstration of students' work.

As an Assessment Tool —

For Department:

- Collective evaluation of student work evidence

As an Promotional Tool —

For The Dean and Department Heads to be able to give visual presentations of the student work to:

- Alumni, Prospective students and faculty
- Fund raising events

Time Line

- Database Started 10 years ago



Hannah @ 2 Years



Hannah @ 12 Years

Time Line



- Database Points of Contact



Robert E. Kennedy Library

Information Services

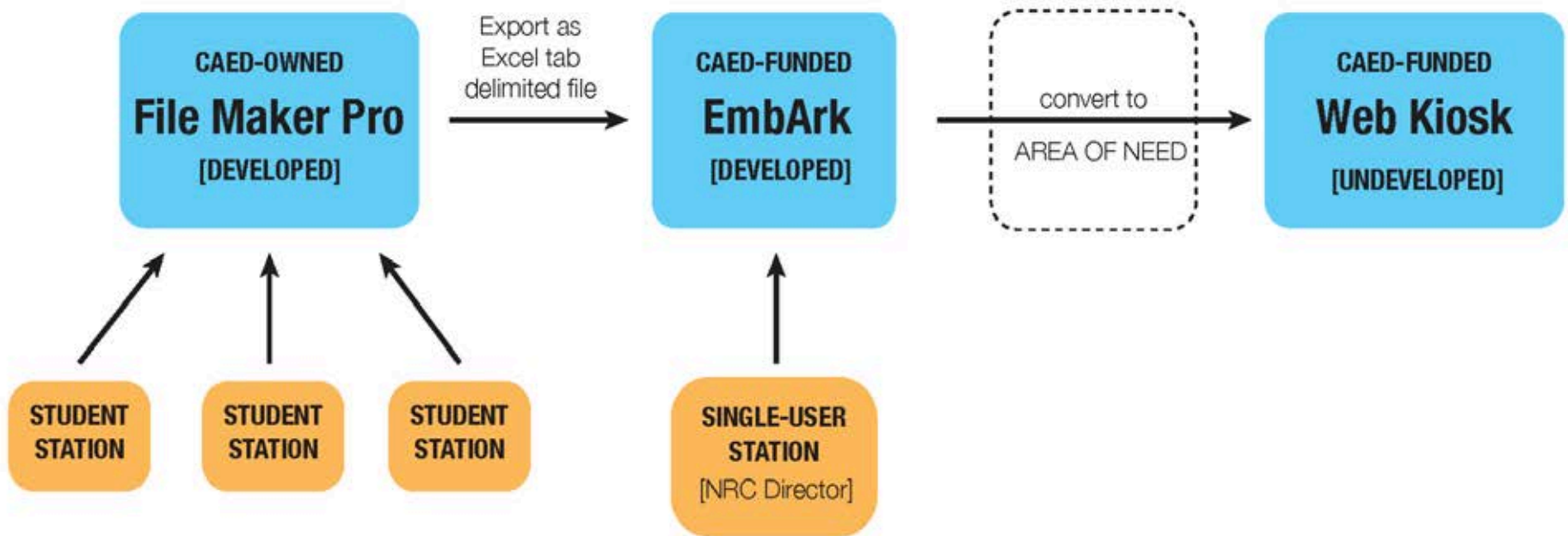
- Web Accessibility Group
- ARCH Dept. Head
- CAED Network Support
- CAED Dean & Assoc. Dean
- 10 Years worth of student helpers

Challenges



- Work collection
- Quality & resolution of images
- Project prep time for database (not plug and play)
- Educating students on copyright issues & packaging work to tell complete story of project outcome and design process

Database Overview




Logistics of implementing image databases

1. CAED Students' Works Archive

2. All three CAED Visual Collective databases

- photoshop editing digital files submitted by students-many hours & specific skills (between 20-30 hours per project)
- customizing desk top software (EmbARK) to conform to file and field names for architecture & student works
- importing desk top version of EmbARK into WebKiosk (web version).
- conforming WebKiosk version with Drupal and Cal Poly's Web Accessibility Guidelines.

Gallery Systems: EmbARK Cataloguer & WebKiosk


GallerySystems
 Collect. Manage. Share.

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EmbARK

What is EmbARK?

EmbARK is a user-friendly suite of software tools designed to catalog and manage collections. Whether you use Cataloguer or Collections Manager, you'll find that EmbARK's solutions are the optimal way to document your collection. And with [Web Kiosk](#) and the [Authoring Tool](#), the virtual world can enjoy your collection too.

EmbARK operates natively on both Windows and Macintosh workstations and/or servers. It can operate as a stand-alone desktop application or provide access to multiple concurrent users with a client/server implementation.

EmbARK Cataloguer

Educational organizations, visual resource libraries and private collectors across the globe use Cataloguer to effectively manage images, and record scholarly and technical information about objects. Cataloguer supports multiple digital media files per record and automatically generates reference thumbnails. Group records into thematic portfolios, or locate them through comprehensive search options. Import/export tools allow you to easily migrate data in or out of Cataloguer, and the report writer lets you design elegant reports and labels.

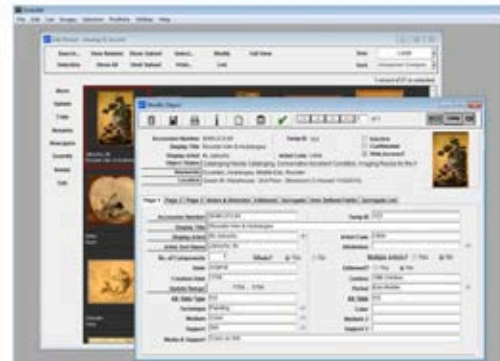
EmbARK Collections Manager


While incorporating the standard features of Cataloguer, Collections Manager also tracks all aspects of an object's history and use. Manage such activities as acquisitions, conservation, exhibitions, loans, shipping, valuations and more. Customize default EmbARK reports to create wall labels, incoming and outgoing receipts, checklists and letters.

If you start out with EmbARK Cataloguer, you can always upgrade to EmbARK Collections Manager in the future by simply paying the difference in price. We'll send a new serial numbers and you'll instantly have access to the additional functionality.

Features
System Requirements

Overview
 Authority Control
 Circulation Module
 Customization
 Data Entry
 Imaging
 Import/Export
 Reports & Labels
 Searching
 Security
 Thesaurus
 Exhibition Management
 Locations/Moves







GallerySystems
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Web Kiosk

Text List

[Features](#)
[Live Sites](#)
System Requirements

[Addison Gallery of American Art](#) CP
[Akron Art Museum](#)
[Arkansas Arts Center](#)
[Jack B. Blanton Museum of Art](#)
[Boeslin College Museum of Art](#)
[Colby College Museum of Art, Waterville, Maine](#)
[Contemporary Art Museum, University of South Florida](#)
[The Corner Museum of Art](#) CP
[Davison Art Center, Wesleyan University](#)
[Dickinson College, The Trout Gallery](#) CP
[Dumbarton Oaks Research Library and Collections](#)
[Film Victoria](#) CP
[Florence Griswold Museum](#)
[Jones Photo Collection](#)
[Long Beach Museum of Art](#)
[Maler Museum of Art at Randolph College](#) CP
[Mattatuck Museum](#)
[Memorial Art Gallery of the University of Rochester](#)
[Mills College Art Museum](#)
[MIT List Visual Arts Center](#)
[Montgomery Museum of Fine Arts](#)
[The College of New Jersey, Samoff Collection](#)
[University of Richmond Museums](#)
[California State University World Images Database](#) CP
[Scorpps College, Ruth Chandler Williamson Gallery](#)
[Joe Price's Shien'an'an Art Collection \(Hosted by Gallery Systems, default set of templates\)](#) CP
[Stanford University, Iris and B. Gerald Cantor Center for Visual Arts](#)
[TriArts \(Bryn Mawr College, Haverford College, and Swarthmore College\)](#)
[Tundra Times Photograph Project](#)
[University of Virginia Art Museum](#)
[Westmontland Museum of American Art](#)

CAED Architecture Department's Students Work Archive in *EmbARK* software.



EmbARK Version of Architecture Students Work Archive



John Vierra's Project_ Transformative Learning: An Elementary School for Seattle

Fill text search capability with EmbARK

Search:

1. Choose the kind of records you're looking for: Students Work

(File:Field	comparator	value)	conj.	
	Students Work:Students Full Na...	is equal to	John Vierra			

2. Choose file/field to search:

Students Work

Student's Last Name

» Student's Permanent Addr

Student's Phone

Student's Proj_Abstract

Student's Proj_Descripti

Student(s) Linked file

» Students Full Names

» Style

» Sub-Support

Subject

Suite Broken?

3. Choose an operator:

is equal to

is not equal to

is empty

is not empty

begins with

is greater than

is greater than or equal to

is less than

is less than or equal to

contains

does not contain

4. Enter a value to search for:

John Vierra

John Vierra

5. To add another line, choose a conjunction:

And

Except

Or

☐ Search only current data set

☐ Add to current data set

☐ Remove from current data set

☐ Include InActive

☐ Open New List Window

Current Search

Untitled

Delete

Load

Save

Records in data set:

85

Clear

Search

Revert

Cancel

Display

Edit



☐ InActive

Confidential

☒ Web Access?

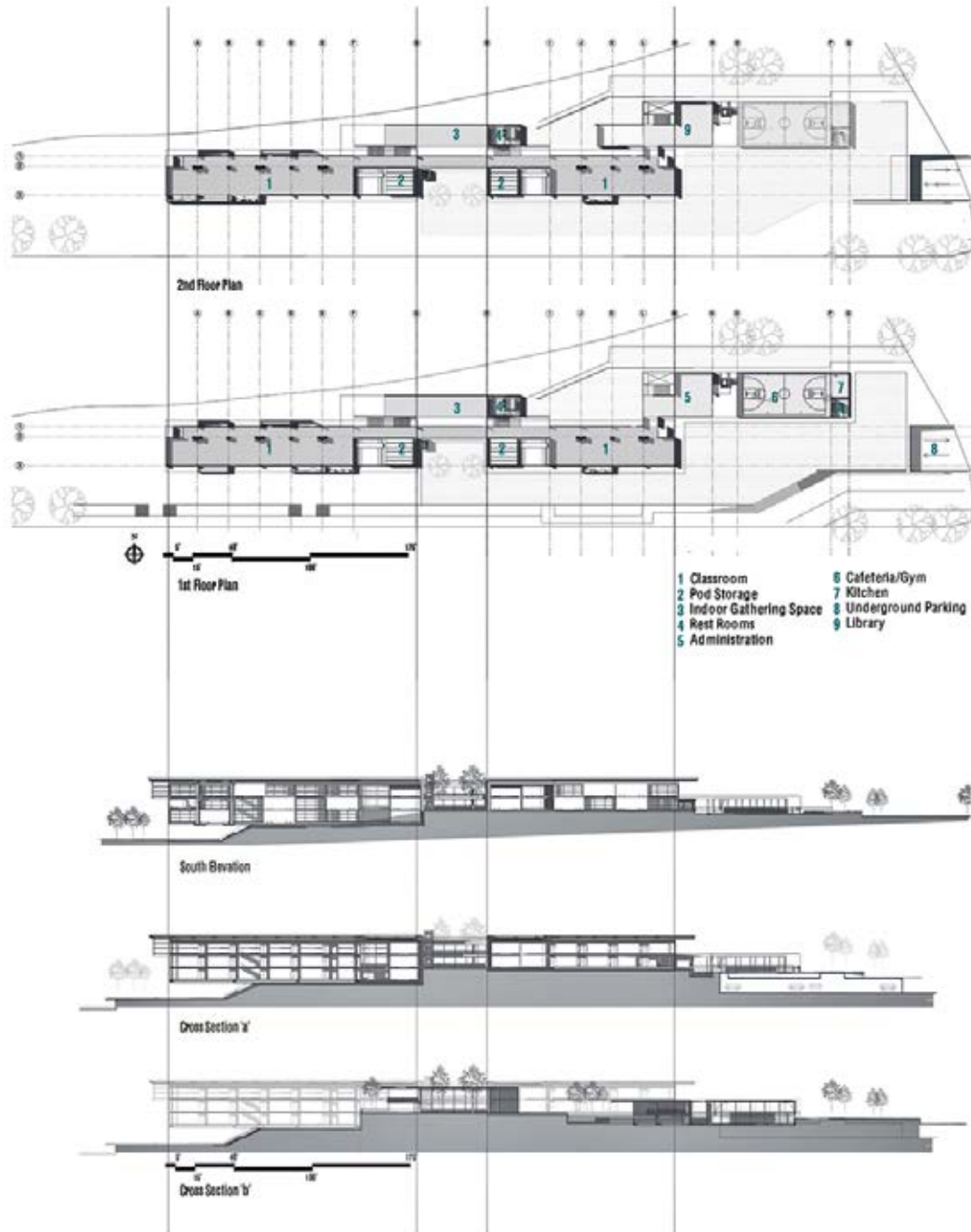
Keywords



View: Student Wor...

Surrogate List

Engagement and awareness of our surroundings is a deeply significant artifact of human interaction. It is present in every facet of human communication and drives many of our interactions. However, these two aspects are becoming less and less practiced today. Within architecture, countless of these interactions are shifted to the background making us complacent and uncritical of our engagement with our built and natural environment. The effect leads us feeling alienated and disengaged from the world around us. This thesis explores how to foreground and heighten ones cognitive phenomenological experience through a sensorial, changing and interactive environment. This paper is broken into three separate yet complimentary components. The first component will discuss the issues of globalization and how Kenneth Frampton's critical regionalism and Christian Schulz's ideas on phenomenology try to discover ways we can create meaning and foreground the architectural experience with relation to place. Second, it explores ways architecture can become an active participation to our everyday lives through sensorial, changing and interactive environments. And lastly, it will move into investigating how architecture can become a heighten experience allowing users to become engaged by exploring skin, light, views and circulation.





Classroom Section Rendering
SOUTH FACADE



Future Developments

- CAED Architecture & Landscape History Image Database_
24,000 images
- CAED Material Samples Database
6,500 images
- CAED College History and Events Database- in development

Architecture History Image Database *in EmbARK software*



Buildings Thumbnails - viewing 59 records

Search...

View Related

Show Subset

Select...

Modify

Full View

Selection

Show All

Omit Subset

Print...

List

Size: Large

Sort: Architect Sort

No records are selected

Move

Update

Copy


Rename

Reacquire


Zoomify

Rotate


Edit




Villa Mairea facade




Villa Mairea facade




Villa Mairea garden and sauna




Villa Mairea garden facade




Villa Mairea garden facade




Villa Mairea facade




Villa Mairea facade




Villa Mairea entrance facade




Villa Mairea window (t)




Villa Mairea winter garden room




Villa Mairea winter garden room




Villa Mairea winter garden room




Villa Mairea entrance hallway




Villa Mairea entrance hallway




Villa Mairea living room




Villa Mairea living room




Villa Mairea living room




Villa Mairea living room




Villa Mairea living room




Villa Mairea dining room




Villa Mairea dining room




Villa Mairea stairs




Villa Mairea living room




Villa Mairea stairs




Villa Mairea studio




Villa Mairea studio




Villa Mairea Marie Gullichsen's studio first floor



Villa Mairea Marie Gullichsen's studio first floor



Villa Mairea Marie Gullichsen's studio first floor



Villa Mairea master bedroom

☐ InActive

☐ Confidential

Artist Code

☒ Web Access?

Keywords houses, country houses, villas



View: Architects M...

Architects Modern co

Notes & Histories

Surrogate List

(Alpha 255) A time-related category with a readily acceptable chronological meaning, e.g., "Ancient," "medieval," "Hellenistic," "Middle Kingdom," "Mannerist," "Louis XIV-XVI."

Temp ID	1437
Accession Number	1437.jpg
Architect	Alvar Aalto
Architect - Sort Name	Aalto, Alvar
Multiple Architects ?	No
Title	Villa Mairea
Title Variant	
View	exterior detail
Building Type	house
Building Component	window(s)
Date	1937-1938
Additional Dates	
Century	20th century
Period_Style	Modernist
Country	Finland
State-Province	Länsi-Suomen Lään
City	Noormarkku
Comments	-
Bibliographic Source	bgiberti@calpoly.edu
Writer	vaubourg@calpoly.edu
CSU Campus Collection	Cal Poly State University. College of Architecture & ...
Copyright Holder	© Bruno Giberti
Copyright License Type	Some Rights Reserved
Rights Usage	Permission granted for educational use only.
Digital Image URL	http://architecture.calpoly.edu/content/people/giberti

- Igbo
- Imperial
- Inca
- Indian
- Indian
- Indus Valley
- Industrial Revolution
- International Gothic
- International Style
- Inuit
- Ionic
- Ipiutak
- Iron Age
- Iroquois
- Islamic
- Japanese
- Javanese
- Jomon
- Kamakura
- Kamarese ware
- Kassite
- Kofun
- Kongo
- Kuba
- Kwakiutl
- Late Byzantine
- Late Classical
- Late Gothic
- Late Period (Egyptian)
- Liang
- Lombard
- Mali Kingdom
- Mamiuk
- Mandan
- Marine Style
- Mathura
- Maurya
- Maya
- Mende
- Merovingian
- Mesolithic
- Metropolitan Museum

FileMaker Pro database CAED Materials Library








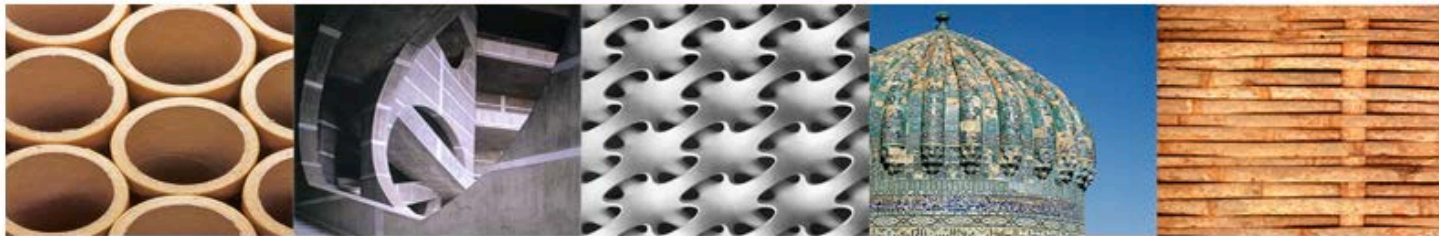
FileMaker Worldwide Sites

Home **Products** Solutions Support Community Company Purchase

FileMaker Pro Overview What's New Features Pro Advanced Demos Tech Specs Try Pricing

rshunter **Neel Resource Center** **Materials Library**
College of Architecture & Environmental Design

Varia Ecoresin <input type="text"/> Manufacturer: <input type="text"/> CSI_Number: 066000 Barcode: 40000463 Product_Name Organics	<input type="button" value="View Details"/>		<input type="button" value="New Search"/>
Varia Ecoresin <input type="text"/> Manufacturer: <input type="text"/> CSI_Number: 066000 Barcode: 40000464 Product_Name Organics	<input type="button" value="View Details"/>		<input type="button" value="New Search"/>
Varia Ecoresin <input type="text"/> Manufacturer: <input type="text"/> CSI_Number: 066000 Barcode: 40000465 Product_Name Organics	<input type="button" value="View Details"/>		<input type="button" value="New Search"/>
Varia Ecoresin <input type="text"/> Manufacturer: <input type="text"/> CSI_Number: 066000 Barcode: 40000466 Product_Name Organics	<input type="button" value="View Details"/>		<input type="button" value="New Search"/>
Varia Ecoresin <input type="text"/> Manufacturer: <input type="text"/> CSI_Number: 066000 Barcode: 40000467 Product_Name Organics	<input type="button" value="View Details"/>		<input type="button" value="New Search"/>



Welcome!

This database documents the material samples contained in the CAED Materials Collection. There are several ways to use the database; see the descriptions below for details.

Browse Materials

Click on a button to view materials listed by major CSI category

CONCRETE

MASONRY

METALS

WOOD & PLASTICS

THERMAL & MOISTURE

DOORS & WINDOWS

FINISHES

SPECIALTIES

FURNISHINGS

SPECIAL CONSTRUCTION

Search Materials

Here you can enter keywords that don't necessarily match a CSI category. This box allows you to search for material types, specific product and manufacturer names, and CSI MasterFormat numbers

Run Search

Note: This project is still in "beta" - more materials and additional features still to come!
[Please contact us to provide your feedback on the project.](#)



Current Challenges with the Architecture Students' Work Archive Database Home Page

- Web Accessibility Issues: Skip to Content *not* working.
- Drupal's home page Rotator not functioning with WebKiosk image folder.
- Size of Drupal window not conducive for large detailed images and detailed drawings.
- Difficulties adjusting Drupal template to work with third party software like WebKiosk.

CAED College of Architecture & Environmental Design

CAED Visual Collective



The screenshot displays the CAED Visual Collective website. At the top, the header includes the Cal Poly San Luis Obispo logo and the title "CAED Visual Collective". Below the header is a navigation bar with links: Home, Browse the Collections, Collections, Custom Search, Log on, and Help. The main content area features the title "CAED Architecture Department's Students Work Archive" followed by a paragraph describing the department's unique approach to architecture education. A large 3D architectural rendering of a building structure is shown in the center. To the right of the rendering, the date "Aug 5 2011" and the title "ARTICLE 5" are displayed, along with the text "This is the text for Article 5." and a "Continue Reading >" link. The word "DEMO" is overlaid in large orange letters across the bottom of the screenshot. At the bottom of the page, there are social media links for Facebook, LinkedIn, and Twitter, and a footer containing copyright information and contact details for the College of Architecture & Environmental Design.

CAL POLY | CAED Visual Collective
SAN LUIS OBISPO

Home Browse the Collections Collections Custom Search Log on Help

CAED Architecture Department's Students Work Archive

The Architecture Department at California Polytechnic State University, San Luis Obispo boasts a growing collection of student work that reflects our department's unique approach to the education of an architect. Core to this success are the polytechnic principles that seek to advance the cause of architecture through a balanced approach between art and science, and a curriculum that furthers the acquisition of knowledge through a learn-by-doing philosophy.

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ARTICLE 5
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DEMO

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