

Concrete Intentions: Recognizing the Unique Characteristics of Brutalist Architecture at UMass

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Objectives:

Understand the intentions of architect(s) in design for Brutalist structures on both the UMass Amherst and UMass Dartmouth campuses

Understand the unique concrete characteristics and aesthetic design associated with these Brutalist structures and how this affects their thoughtful conservation

Understand advocacy efforts in place and the importance of these buildings to both campuses

Background Context:

UMass Amherst Master Plan designed by Hideo Sasaki -1962

UMass Dartmouth (originally Southeastern Massachusetts Technological Institute) Master Plan designed by Paul Rudolph - 1963



Lincoln Campus Center, UMass Amherst

Origin of style:

Béton Brut = Raw Concrete Term used by Le Corbusier, Swiss-French Architect

New Brutalism first emerged in the United Kingdom with architects Alison and Peter Smithson. It was given the name by critic Reyner Banham

Over the years, the harsh and "brutal" aesthetic of the style has become associated with the name Brutalism



Carpenter Center, Harvard University



Boston City Hall

UMass Amherst



Lederle Graduate Research Center Campbell, Aldrich & Nulty, 1966



Whitmore Administration Building Campbell & Alrich, 1967



Herter Hall Coletti Brothers, 1969



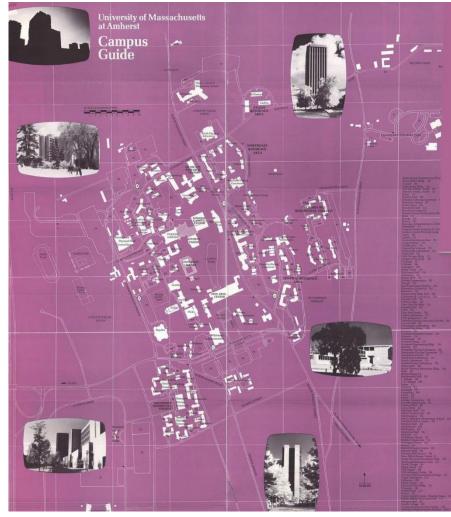
Tobin Hall Coletti Brothers, 1972



Lincoln Campus Center & Parking Garage Marcel Breuer and Associates, 1970



Fine Arts Center Kevin Roche John Dinkeloo and Associates, 1974









MacLean Campus Center (MCC)

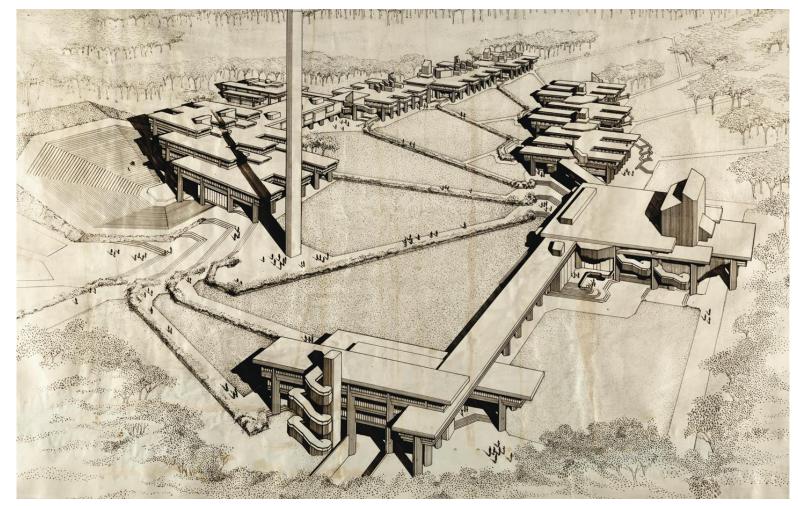
College of Visual and Performing Arts (CVPA)



Claire T. Carney Library and Campanile



Liberal Arts (LARTS)



Source: UMass Dartmouth Archives and Special Collections, Rudolph Drawings Collection



















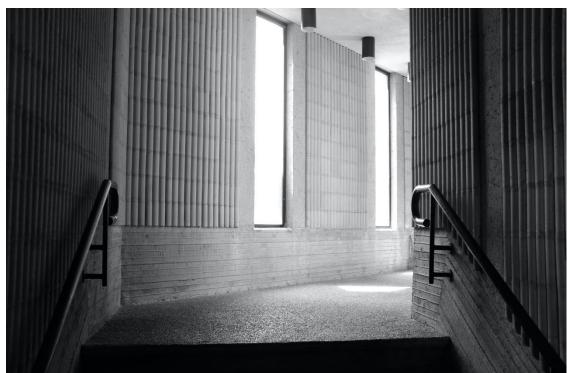
Source: UMass Dartmouth Archives and Special Collections, Rudolph Drawings Collection

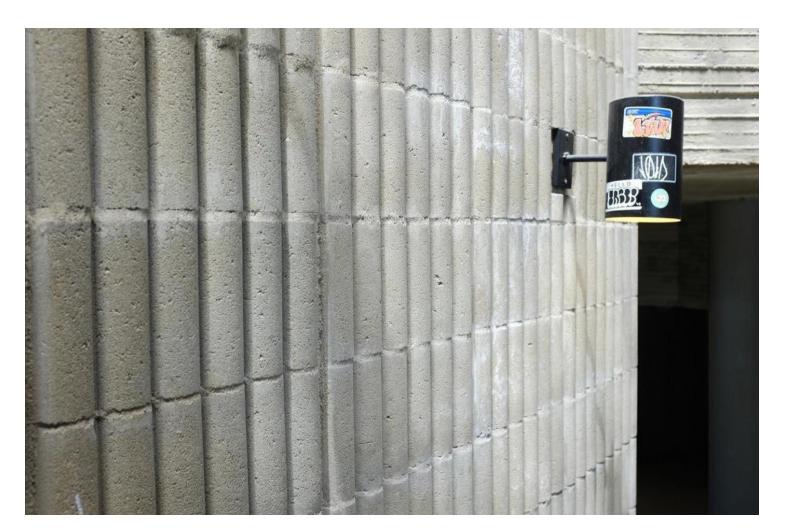














"implement" Mr. Architect?

Webster defines it: "im'ple-ment (im'ple-ment), v.t; to carry out: FULFILL: esp. to give practical effect to and ensure of actual fulfillment by concrete measure."



This fluted block shape is but one of more than 40

different shapes and sizes available for other mod-

ular design possibilities. Call or write us today.

A coincidence, yes; however, a "concrete measure" was an effective medium in fulfilling this remarkable design.

Selected to complement the poured-in-place exterior is Plasticrete's fluted pattern concrete block, designed by Architect Paul Rudolph, who was a consultant on this project for Desmond & Lord, Architects.

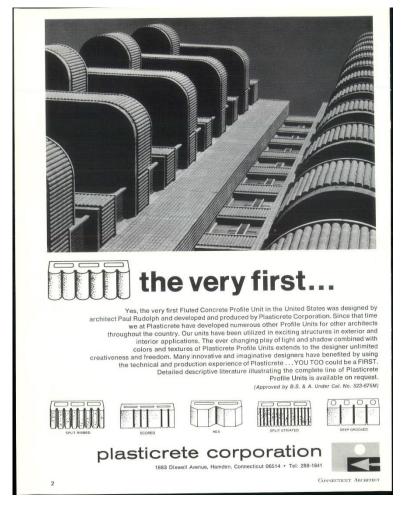
THE PLASTICRETE

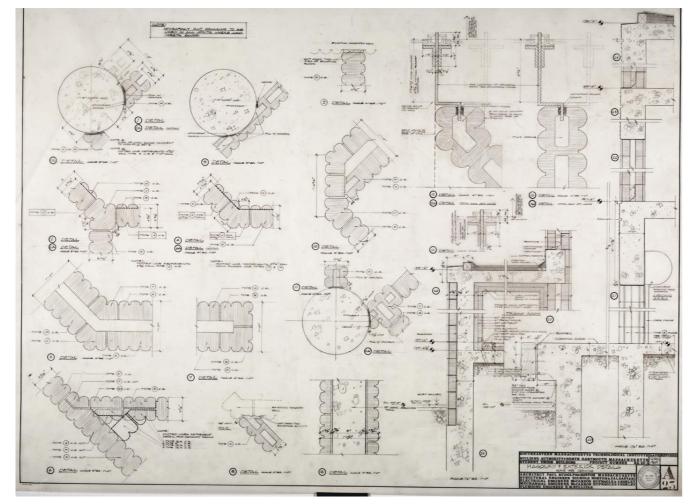
HAMDEN - HARTFORD - NORTH HAVEN - WATERBURY - DANBURY, CONN. - ALSO

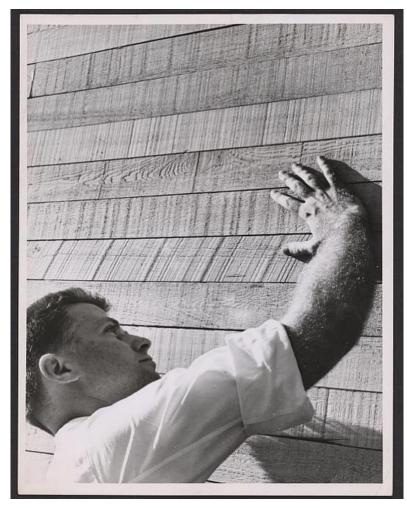
CORPORATION
PLANTS IN ACTON - AND MEDFORD, MASS.

Connecticut Architect









UMass Amherst



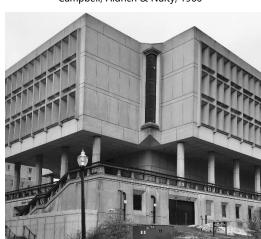
Lederle Graduate Research Center Campbell, Aldrich & Nulty, 1966



Whitmore Administration Building Campbell & Alrich, 1967



Herter Hall Coletti Brothers, 1969



Tobin Hall Coletti Brothers, 1972



Lincoln Campus Center Marcel Breuer and Associates, 1970



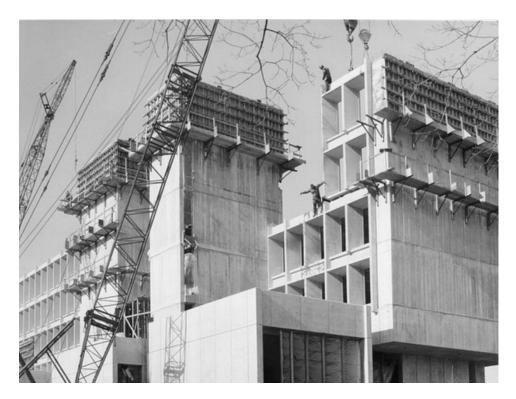
Fine Arts Center Roche Dinkeloo and Associates, 1974







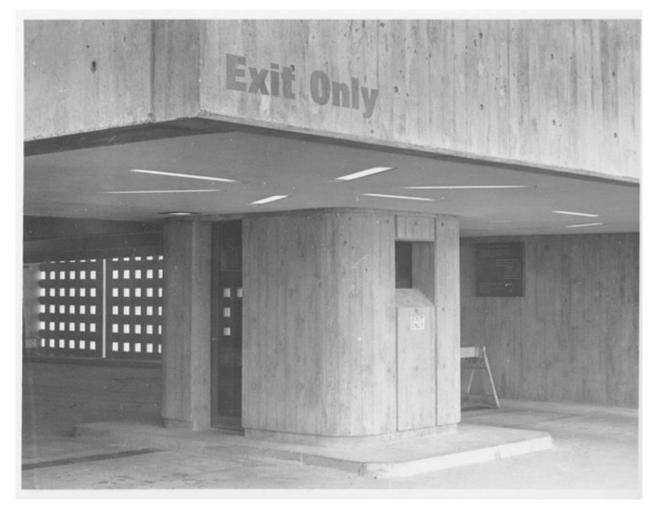






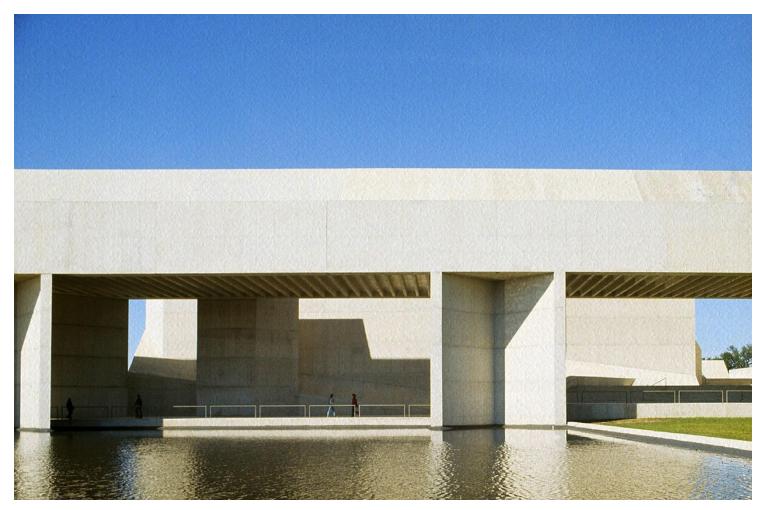








Source: UMass Amherst University Archives and Special Collections



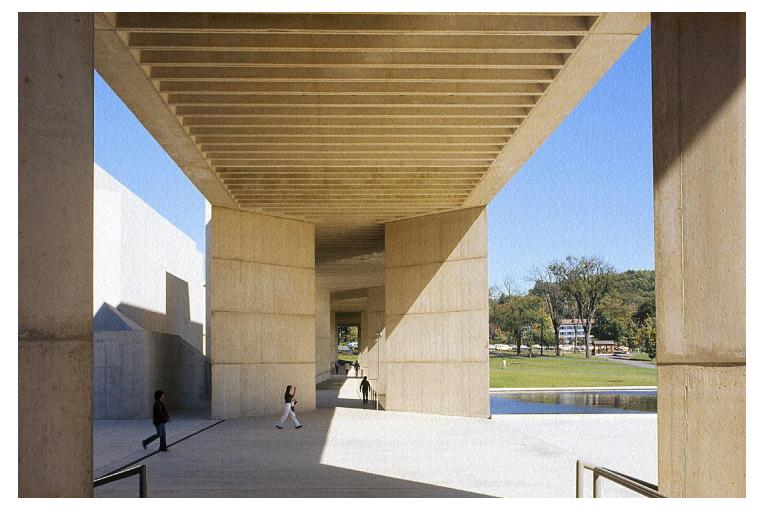




Source: UMass Amherst University Archives and Special Collections



Source: Kevin Roche John Dinkeloo Associates





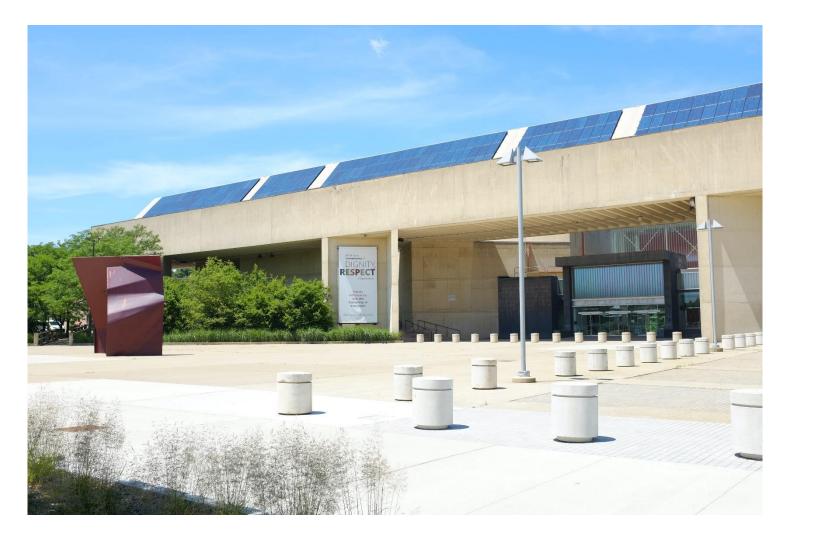


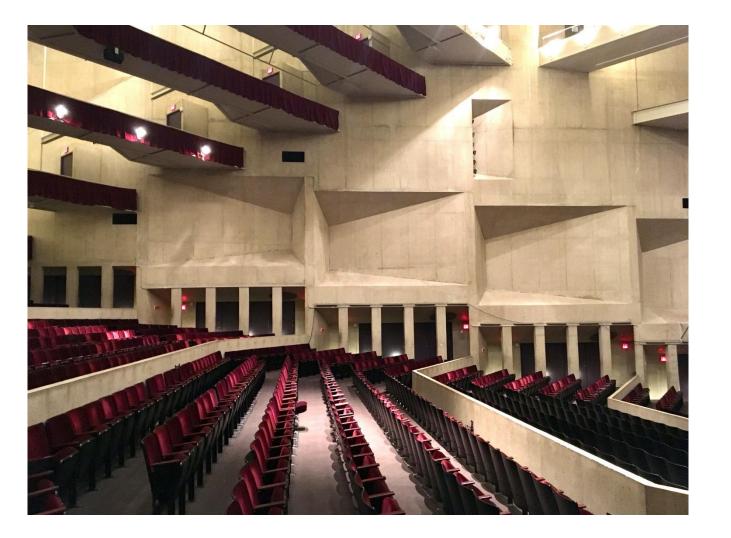
3-04. MATERIALS

- .1 CEMENT SHALL
- (A) BE AN AMERICAN-MADE PORTLAND CEMENT MEETING ALL THE REQUIREMENTS OF ASTM C 150, WITHOUT INTEGRAL AIR-ENTRAINMENT.
- AA. USE A WARM BUFF COLOR CEMENT FOR ALL CONCRETE WHICH HAS AN EXPOSED FACE IN THE FINISHED WORK; PENN-DIXIE NAZARETH, PA. OR HOWE'S CAVE, N. Y. PLANTS OR COPLAY SAYLOR'S LIGHT OR ANOTHER OF SAME COLOR.
- BB. USE A MATCHING COLOR SHRINKAGE COMPENSATING CEMENT IN CONCRETE FOR EXPOSED WORK SCHEDULED IN TABLE "A", AND AS MANUFACTURED BY A LICENSEE OF CHEMICALLY PRESTRESSED CONCRETE CORP.; CHEMICALLY OR EQUAL.
- (B) BE THE SAME BRAND THROUGHOUT THE ENTIRE WORK, UNLESS OTHERWISE APPROVED IN WRITING BY THE ARCHITECT.
- (C) BE STORED IN A WEATHERTIGHT STRUCTURE WITH THE FLOOR RAISED NOT LESS THAN 1 FOOT FROM THE GROUND AND IN SUCH A MANNER AS TO PERMIT EASY ACCESS FOR PROPER INSPECTION AND IDENTIFICATION OF EACH SHIPMENT. CEMENT THAT HAS HARDENED OR PARTIALLY SET SHALL BE REMOVED FROM THE SITE AND NOT USED.
- .2 ADMIXTURES SHALL CONFORM TO THE FOLLOWING:
- (A) THE USE OF CHLORIDE SALTS IN ANY FORM IS PROHIBITED.
- (B) AIR-ENTRAINING AGENT SHALL BE NEUTRALIZED VINSOL RESINS WITHOUT CHLORIDES, OTHERWISE THEY SHALL CONFORM TO ASTM C 260.











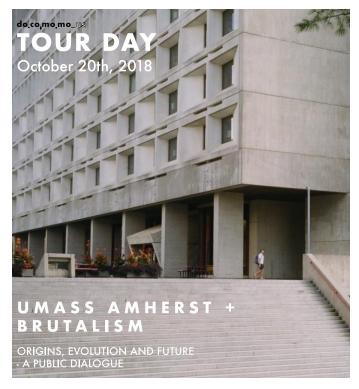












Join Docomomo US/New England and the UMass Amherst

Historic Preservation Program for a tour of a commonly overlooked Post-War campus featuring prominent Modern architecture designs by Kevin Roche, Marcel Breuer, among others.

Participants are encouraged to express their thoughts on the evolution of the Brutalist structures on campus in an open discussion following the tour. Following the discussion, there will be a public showing of the movie Kevin Roche: The Quiet Architect

Speakers will include Professor Timothy Rohan, Professor Carl Fiocchi, Professor Margaret Vickery, and Docomomo US/New England Go-President David Fixler FAIA FAPT LEED

The tour portion of this event will include 2 LU \parallel HSW credits and the film portion of the event will include a bonus 1.5 LU credits

The event is free to students, UMass faculty and staff General Admission Tickets for the event will be available for \$25. All interested are encouraged to attend! Schedule of Events:

campus tour 1:00 - 3:00 pm 3:00 - 3:30 pm discussion 3:30 - 4:30 pm 4:30 - 6:00 pm

Start of tour, break/refreshments, discussion, and film showing will all take place in the John W. Olver Design Building

Register at:

https://www.docomomo-us.org/event/umass-amherst-brutalism-origins-evolution-and-future-engaging-public-dialogue







UMassAmherst



OF A MILE SW UNIVERSITY OF MASSACHUSETTS

BRUTALISM AND UMASS AMHERST

The bold and impressive Brutalist monuments on the University of Massachusetts Amherst campus represent the culmination of achievements in the fields of design and engineering, coupled with the progressive ideals and ambitious political programs of Kennedy's New Frontier and Johnson's Great Society that were energizing public universities in the United States.

"Index Sasaki's new campus plan of the early 1960s. UMass - Relluschi, hired some of the most

CAMPUS GUIDE RKUIALISI

THE BRUTALIST ARCHITECTS University of Massachusetts Amherst

It is no exaggeration to say that the designers behind the Brutatist archi-It is no exaggeration to say that the designers behind the Brutatist archi-tecture of the University of Massachusetts Amherst are among the most famous and decorated architects of the twentieth century. This elite group handles and decorated attention or one overheeth century, this time group consistently designed bold, dynamic, and avant-garde buildings which con-tinue to be revered 50 years later.

MARCEL BREUER (1902-1981)

AIA Gold Medal Winner, 1968

Today, Marcel Breuer is widely regarded as one of the founders of Modernism. After working with Walter Groupius at the Bauhaus, the two reunited at Harvard and mentored a generation of United States architects. Breuer is known not only for his sculptural buildings, such the Whitney Museum (1966) and Pirelli Tire Building (1970), but also his iconic Wasily and Cesca chairs.

KEVIN ROCHE (1922-2019)

Pritzker Architecture Prize Laureate, 1982 AIA Gold Medal Winner, 1993

After immigrating from Ireland in the 1940s. Roche became Eero Saaranen's head designer at a young became Eero Saaranen's head designer at a young age. Roche went on to oversee construction of the St. Louis Gateway Arch (1967) before completing his own masterpieco. New York's Ford Foundation Building, in 1967 with his partner, John Dinkeloo.

HIDEO SASAKI (1919-2000)

Inaugural American Society of Landscape Architects Medal Winner, 1971

Born in California, Sasaki was interned by the United States government during the Second World War due to his Japanese heritage. After his release. Sasaki would become the Chair of the Department of Landscape Architecture at Harvard's Design School, and one of the most lauded landscape ar-chitects in United States history.

EDWARD DURELL STONE (1902-1978)

During the 20th century. Stone was one of the most famous architects in the U.S., even appearing on the cover of Time Magazine in 1958. Stone began the cover of time Magazine in 1938. Stone began his career designing iconic New York buildings, such as Radio City Music Hall (1932) and the Mu-seum of Modern Art (1939). Known for his stately and Modernist buildings. Stone went on to design the U.S. Embassy in New Dehli (1959) and Washing-Ion D.C.'s Kennedy Center for the Performing Arts

GH STUBBINS, JR. (1912-2006)

AMPUS GUIDE

vins was educated at Harvard under architec-Iminaries Walter Gropius and Marcel Breuer or himself became the chair of Harvard's School of Design. In his prolific career. designed famous national landmarks. (ladelphia's Veterans Stadium (1971), the nter in New York (1977), and Ronald Reinitial Library in Simi Valley, California

1. JOHN W. LEDERLE GRADUATE RESEARCH CENTER (1966)

Campbell and Aldrich, Architects, Boston, MA

Consisting of a low rise building with adjoining three high rises, the John W. Lederle Graduate Research Center houses vital laboratory and office spaces Leave to changing repeated to be the control to be the control of designed as (imestone, has since been sealed and painted.



2. CAMPUS CENTER PARKING GARAGE (1970) Marcel Breuer and Associates, Architects, New York, NY

Also designed by Breuer, the Campus Center Garage's rectilinear plan is broken up by trapezoidal staircases at the corners. The wafite pattern on the proxen up by trapezoiosi staircases at the corners. The water pattern on the walls of the garage mirrors the sun breakers on the Campus Center where



3. MURRAY D. LINCOLN CAMPUS CENTER (1970) Marcel Breuer and Associates, Architects, New York, NY

The Campus Center's windows and highly sculptural façade reflect the unique functions of its different floors, including a hotel. The eleven-story unique anctions or its contrain those, including a novel, the elevery out y building's rectlinear sithouette is raised into the air on a colonnade and is enhanced with a trapezoidal entrance and stairwells



4. W.E.B. DuBOIS LIBRARY (1973) Edward Durell Stone and Associates, Architects, New York, NY

When the lower-library opened in the early 1970s, its 28 stories made if the tallest library in the world. While the original design was more it the taless tiorary in the world. While the original design was more horizontal, the final version closely resembles Stone's design of Chicago's Standard Oil Building (now AON Center) completed in 1974.



Skidmore, Owings and Merrill, Architects, Chicago, IL and New York, NY Sometimes credited to Gordon Bunshaft while he was at Skidmore, Sometimes credited to Gordon Bunshalt while he was at Skidmore. Ownings and Merrill, McQuirk Stadium is a sweeping parabolic structure with curves on all three axes. Underneath the stands are beautiful coffered spaces though which visitors originally entered.



8. RANDOLPH W. BROMERY CENTER FOR THE ARTS (1975)

Kevin Roche, John Dinkeloo and Associates, Architects, Hamden, CT Conceived as both an arts center and a gateway to the campus, this 220 Conceived as both an arts center and a gateway to the campus, this 220 square feet complex includes a gallery, a 2,000 seat concert half, theaters, and a recital half, as well as space for theater music and departments. A 624 foot long bridge connects the east and west campus.



6. TOBIN HALL (1972) Coletti Brothers, Architects, Boston, MA

Much like their design for Herter Hall design, the Coletti Brothers Much like their design for Herter Hall design, the Coletti Brothers explored the sculptural possibilities of the concrete medium with Tobin Hall. exported the acutatural possibilities of the concrete meaning with rubin hate.

A beautifully patterned yet muscular façade sits atop 26 octagonal columns. creating an elevated portico which encircles the first floor.



Coletti Brothers, Architects, Boston, MA

The south wing of the Herter Hall has artfully proportioned precast concrete The south wing of the Herter Hatl has artifully proportioned precast concrete façades that delineate classrooms on the lower two levets and offices for departments in the humanities, while the two-slory north annex has esperiments in the humanities. Write the WVC-Story not in senior, the sculpturally articulated auditoria, a gallery, and laboratories in the lower level.



Campbell and Aldrich, Architects, Boston, MA

Sitting atop a raised mound on the western side of Haigis Mall. Whitmore is siting atop a raised mound on the western side of Haigis Mail. Writimore is often compared to a fortness. A ramp projects from its northern side and the interior reveals a beautiful courtyard filled with lush greenery and plant life which stands in stark contrast to the raw concrete.



10 f. HAMPSHIRE DINING COMMONS (1966)

Hugh Stubbins and Associates, Architects, Boston, MA One of two dining halls that serve the Southwest Residential Area. Hampshire is an unapologetically Brutalist building which makes



The construction of the Southwest Residential Area in the mid too.



THANK YOU!

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