

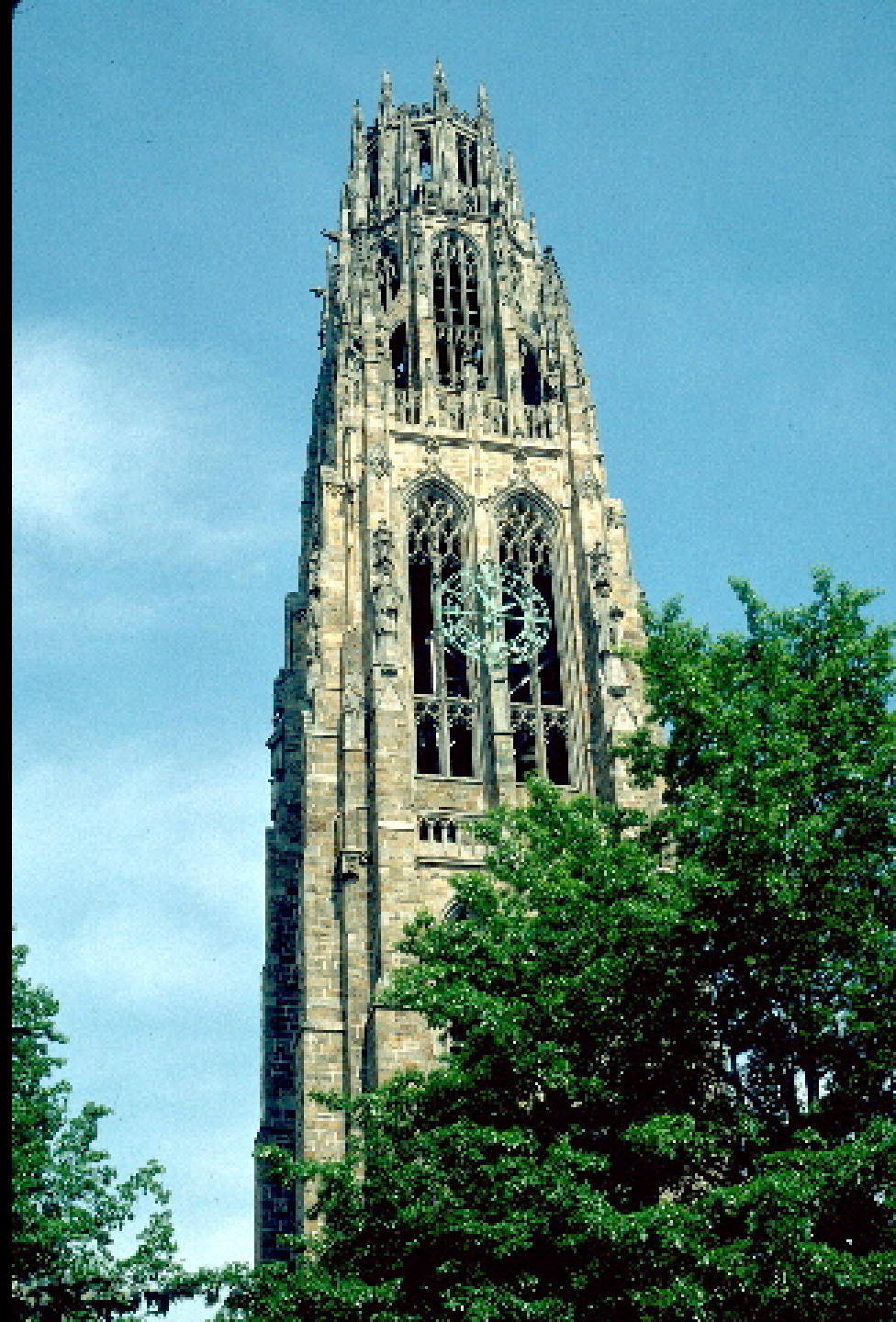


# The Present

And a bit of “personal” history



**From Yale...**











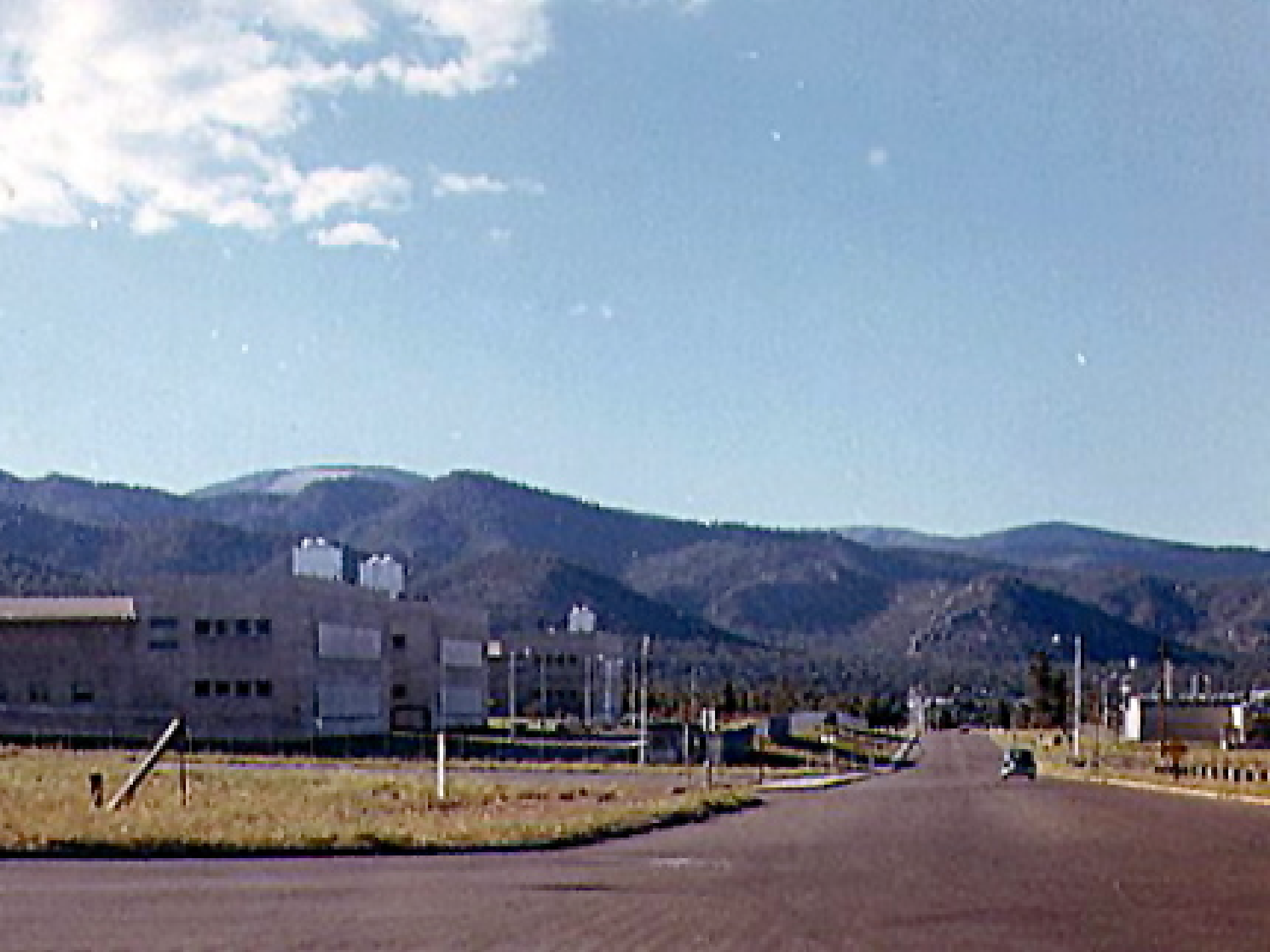
**To Los Alamos ...**







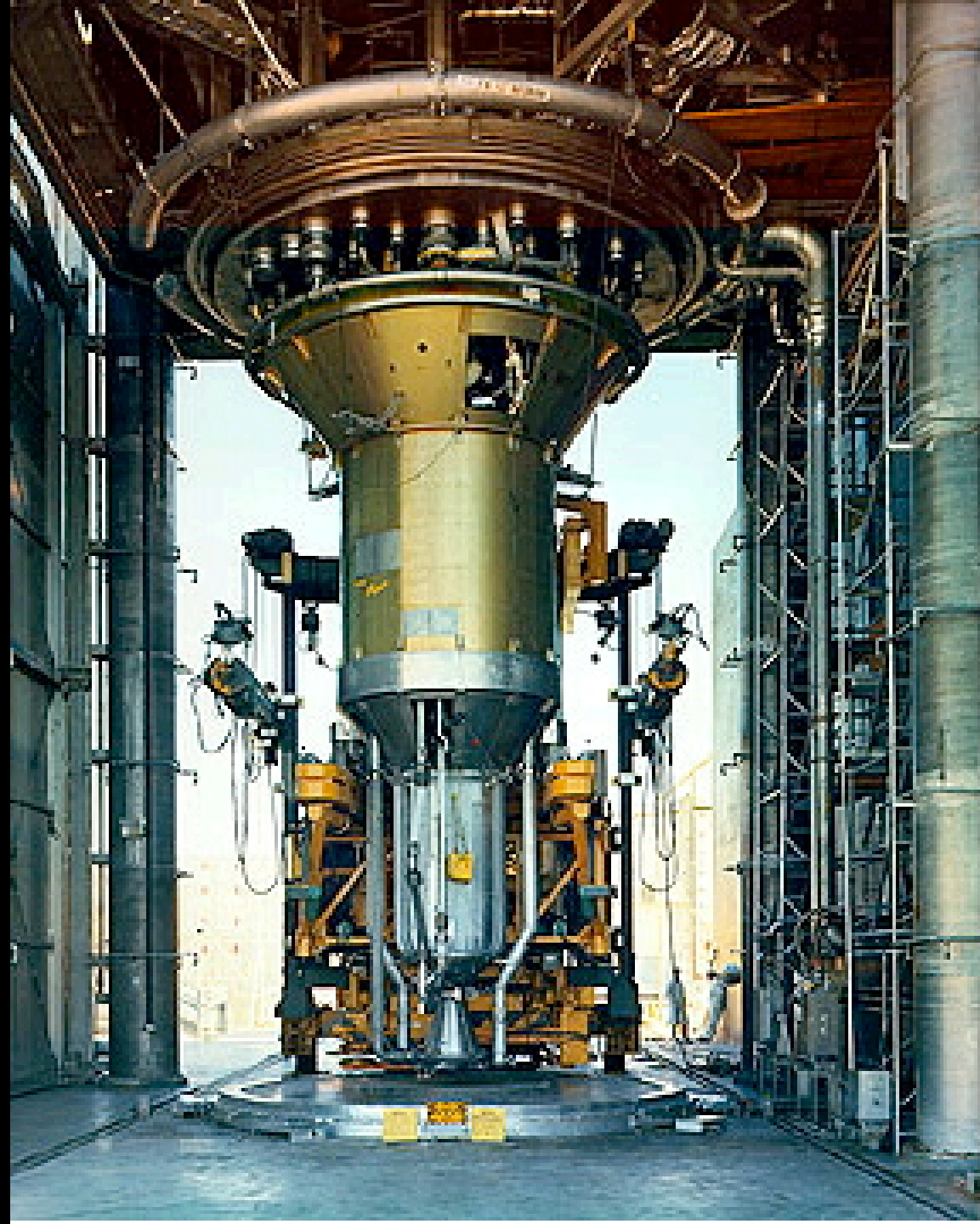














**To Caltech ...**









FRANKLIN THOMAS  
LABORATORY OF ENGINEERING







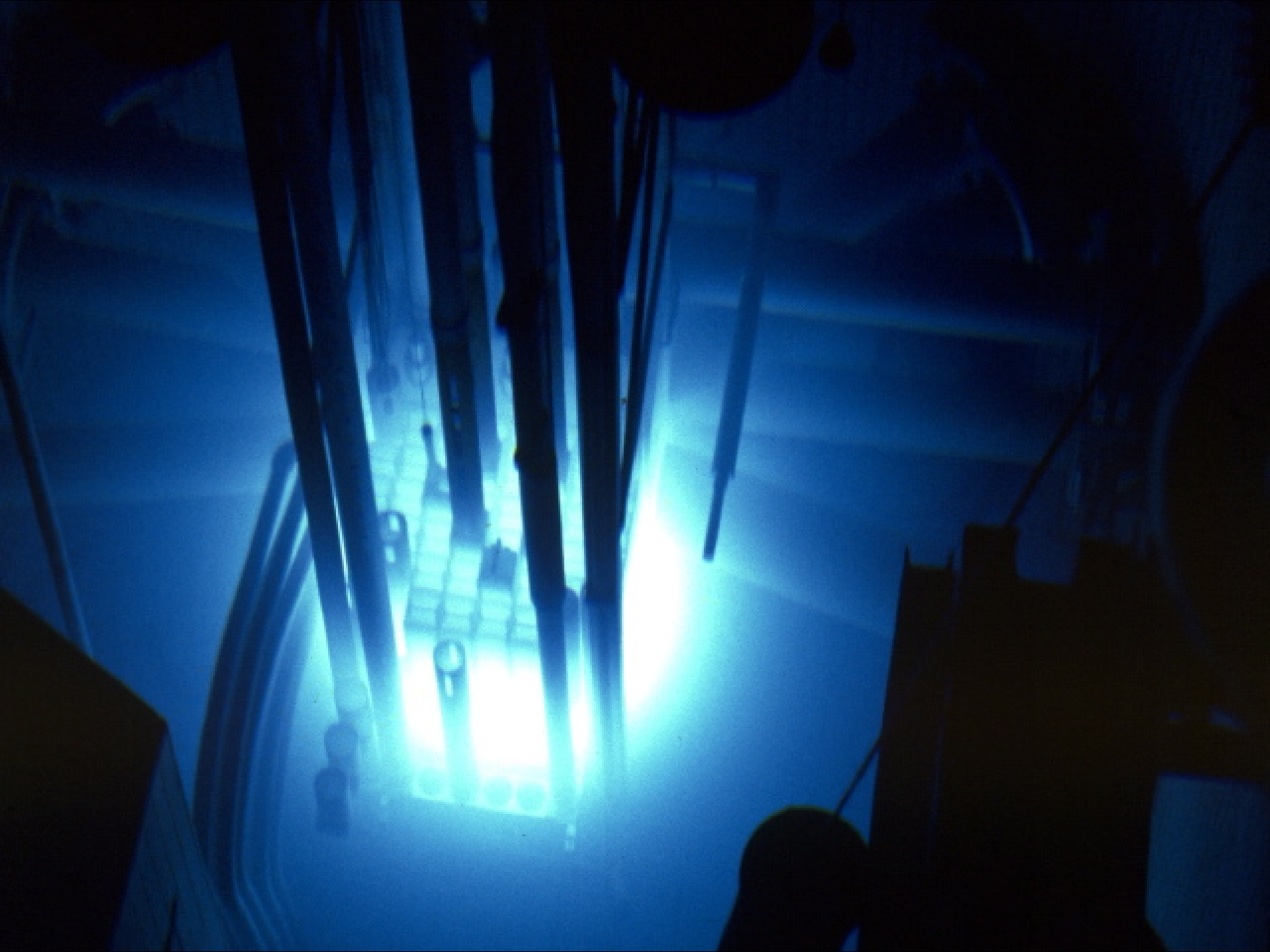


**To Michigan ...**

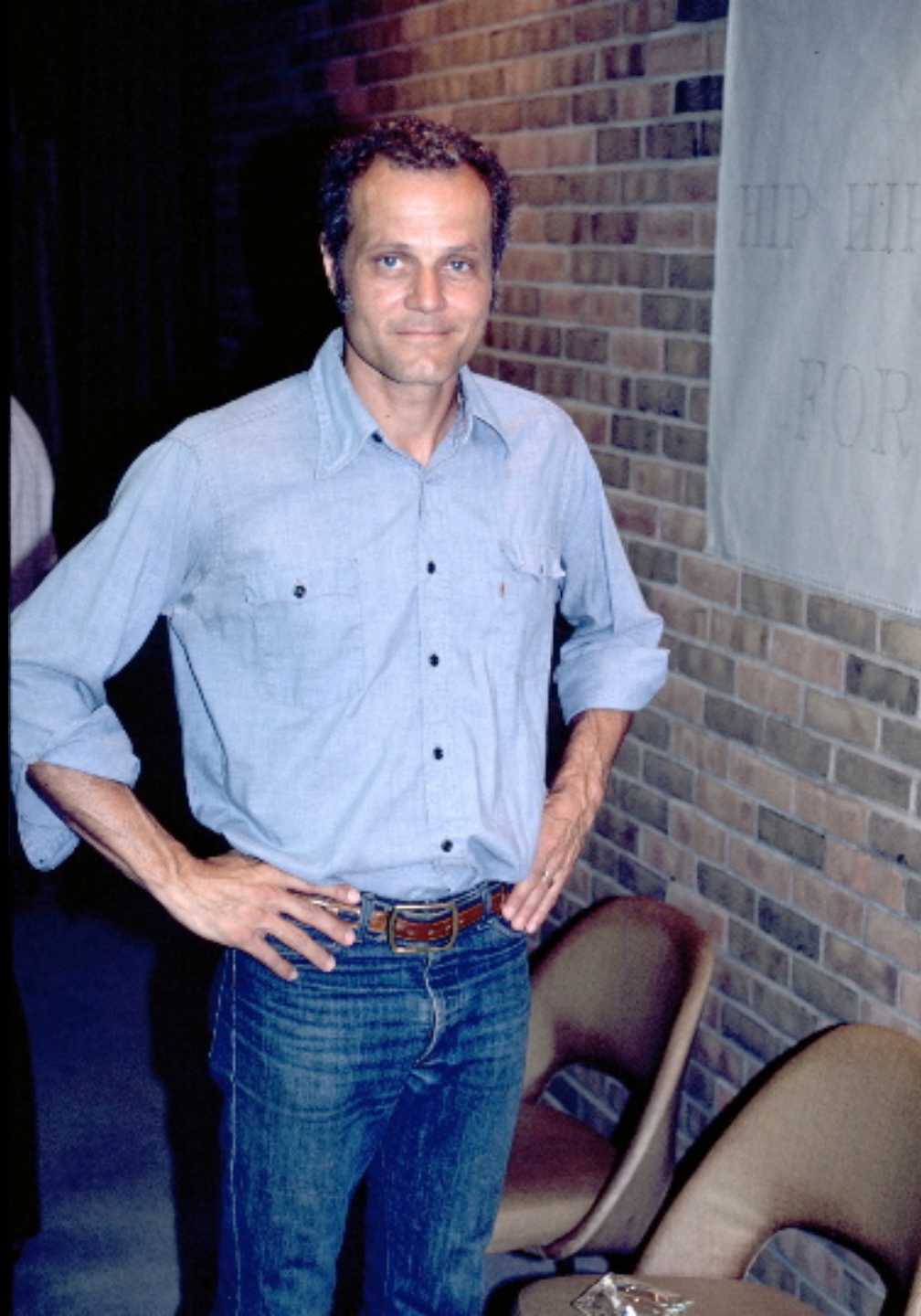




























**From Teaching ...**



Hydrodynamic Turbulence:

D. Montgomery, *Prog Fl. LB*, 803 (1975); *Progress* 826, (1111) (1976)

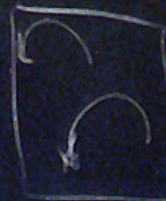
T.H. Dupree, *Phys Fl.* II, 100 (1974)

J. McLaughlin & P.C. Martin, *Phys Rev A* 12, 186 (1975)

Vol I - Feynman Lectures on Physics

where is found over:  $(\frac{\partial}{\partial t} + \mathbf{u} \cdot \nabla) \mathbf{u} = -\nabla p + \nu \nabla^2 \mathbf{u} + \mathbf{F}$

$$\nabla \cdot \mathbf{u} = 0$$

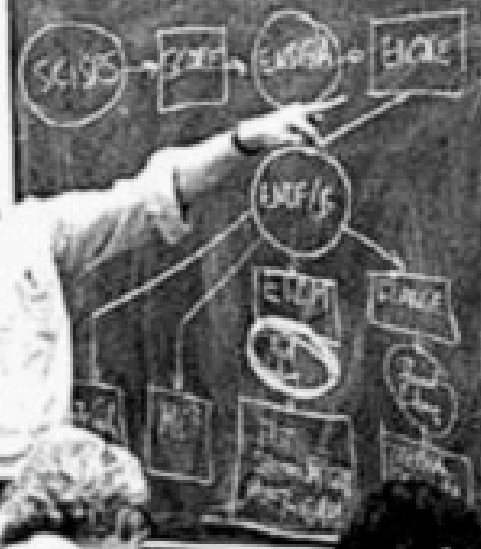
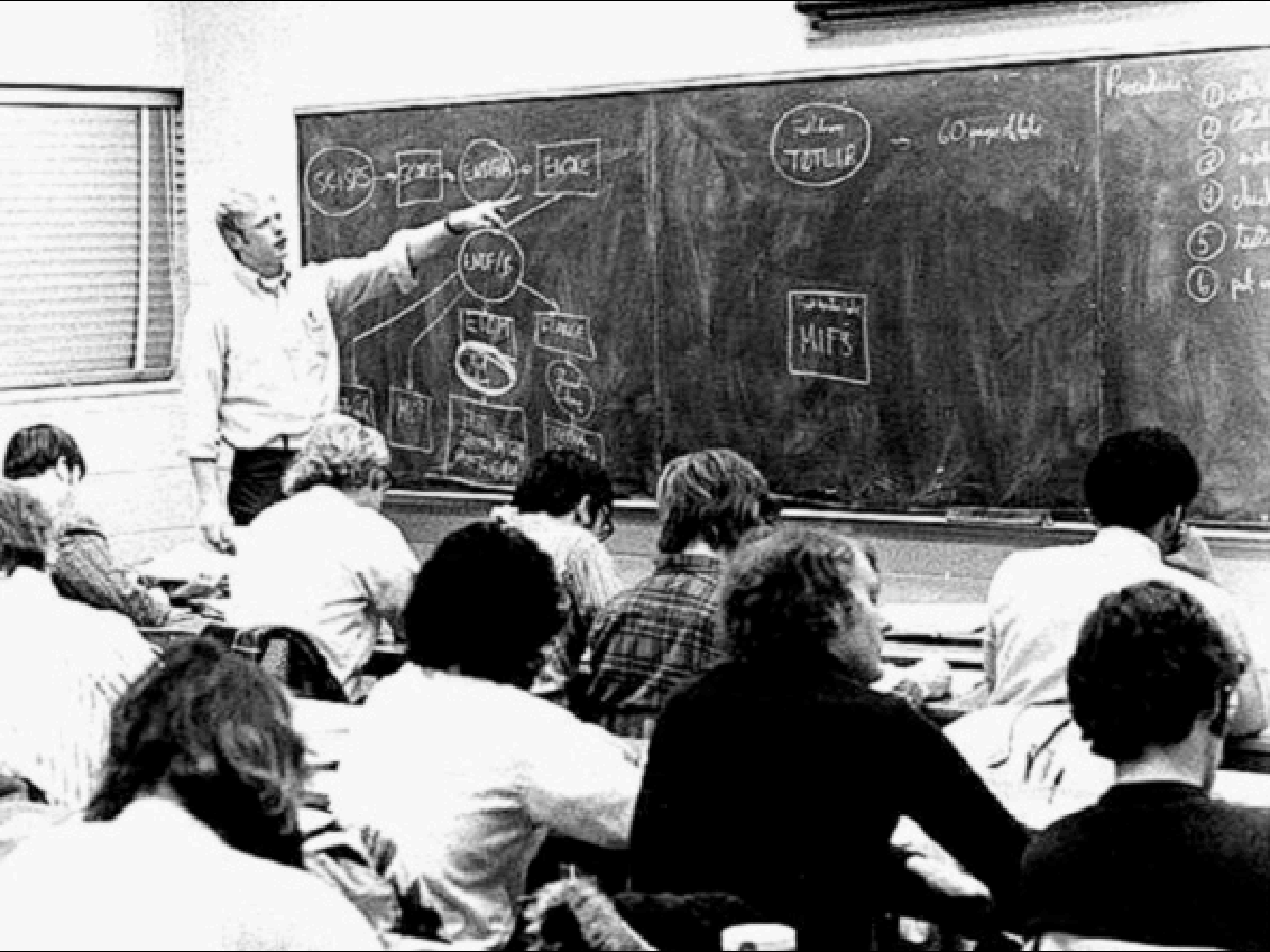


(1972-7)   
 (Continuum between fluid & particle)

(1) hydrodynamic is kind theory   
  $u(r,t) \approx f(r,t)$

(2) hydrodynamic is kind theory   
 hold time longer wavelength

plane ...   
 ...   
 ...



TOTLIE

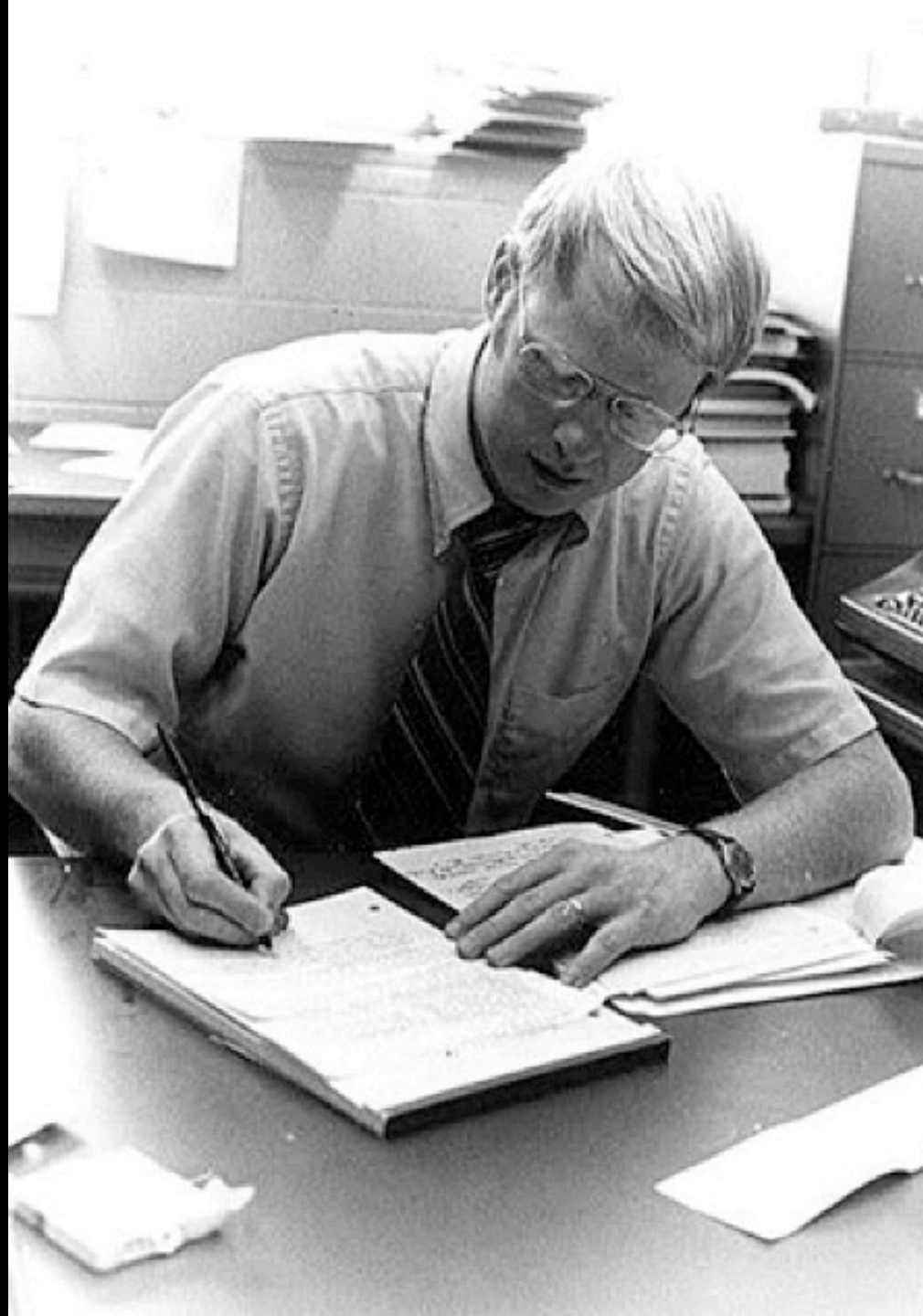
60 pages of the

MIF'S

- Procedure:
1. ...
  2. ...
  3. ...
  4. ...
  5. ...
  6. ...



**To research ...**



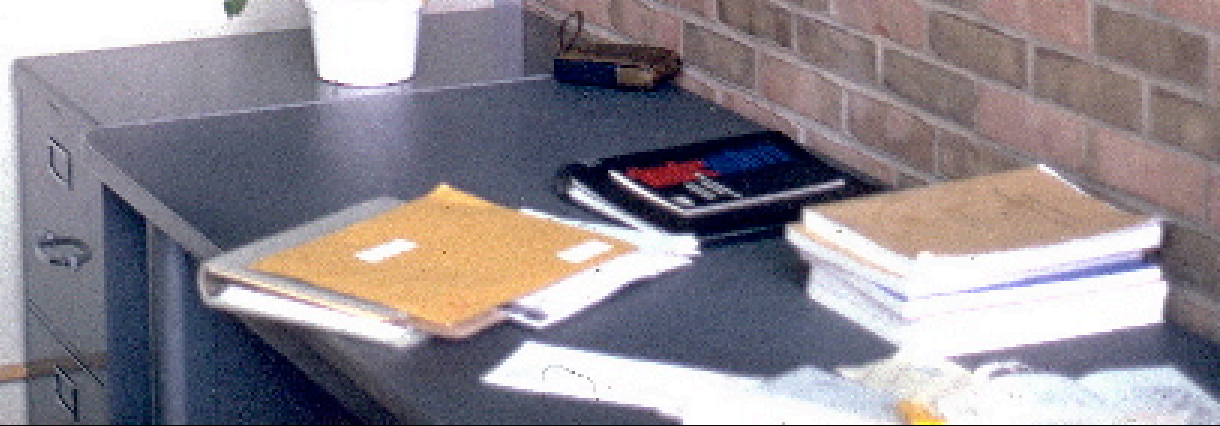
$$T_0(l, r) = T_0^{-1} \{ a_j + b_j r_j + g_j r_j^2 \}$$

$$e^{-1/\tau^2} \left( \frac{\Delta T}{T} \right) = \frac{\Delta T}{T} \left( 1 - \frac{1}{\tau^2} \right)$$

$$T_0^{-1} = \left[ \begin{matrix} a_j + b_j r_j + g_j r_j^2 \\ \dots \end{matrix} \right]^{-1}$$

$$T = \left[ \begin{matrix} a_j + b_j r_j + g_j r_j^2 \\ \dots \end{matrix} \right]^{-1}$$

Diagrams on the left side of the chalkboard show a coordinate system with axes labeled  $r_1$  and  $r_2$ . There are several circles and lines drawn, some with arrows indicating directions or relationships. One circle is labeled with  $r_1$  and  $r_2$  inside it. Another circle is labeled with  $r_1$  and  $r_2$  outside it. There are also some handwritten notes and symbols scattered around the diagrams.







**To writing ...**



TURBINES  
MARINE GAS TURBINES  
NUCLEAR POWER  
TRANSPORT THEORY  
ANDERSON  
AN INTERACTIVE TRAINING PROGRAM

Writing Themes About Literature  
THE SOVIET UNION TODAY  
English Grammar and Composition  
ANTHROPOLOGY  
The Exploration of Human Diversity  
Psychology  
USED

JAMES J. DUDERSTADT  
& LOUIS J. HAMILTON

# Nuclear Reactor Analysis



# **TRANSPORT THEORY**

*James J. Duderstadt  
William R. Martin*



# NUCLEAR POWER

Technology  
on Trial

James J. Duderstadt  
Chihiro Kikuchi

**INERTIAL  
CONFINEMENT  
FUSION**

**James J. Duderstadt  
and  
Gregory A. Moses**

ENERGY, POWER, AND ENVIRONMENT/3

# NUCLEAR POWER



**JAMES J. DUDERSTADT**

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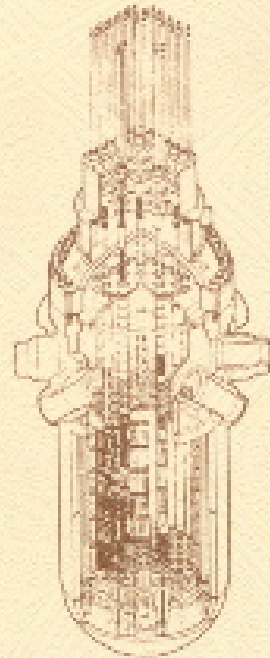
J.J.ドウデルスタット L.J.ハミルトン

# 原子炉の理論と解析

成田正邦 藤田文行 共訳

---

(下巻)



現代工学社





James J. Ludersdorf

Glenn F. Knoll

George B. Springer

# PRINCIPLES OF ENGINEERING



A UNIVERSITY  
FOR THE  
21st CENTURY

JAMES J. DUDERSTADT

# Intercollegiate Athletics and the American University

A UNIVERSITY PRESIDENT'S PERSPECTIVE

JAMES J. DUDERSTADT





AMERICAN COUNCIL ON EDUCATION

# HIGHER EDUCATION IN THE DIGITAL AGE

TECHNOLOGY ISSUES  
AND STRATEGIES FOR AMERICAN  
COLLEGES AND UNIVERSITIES

JAMES J. DUDERSTADT  
DANIEL E. ATKINS • DOUGLAS VAN HOUWELING

ACE/PRAEGER SERIES ON HIGHER EDUCATION



A Growing Season

A Report from the President  
The University of Michigan  
1986-1996



THE FUTURE OF THE  
PUBLIC UNIVERSITY  
IN AMERICA

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BEYOND THE  
CROSSROADS

---

JAMES J. DUDERSTADT

---

FARRIS W. WOMACK

---

The image features a hand holding a wireframe globe. A bright, glowing point of contact is visible where the hand meets the globe, with light rays emanating from it. The background is a grid pattern with a warm, orange-gold color palette.

**PREPARING FOR THE  
REVOLUTION**

**Information Technology  
and the Future of the  
Research University**

**NATIONAL RESEARCH COUNCIL  
OF THE NATIONAL ACADEMIES**



**OBSERVATIONS ON THE  
PRESIDENT'S FISCAL YEAR 2003**

**FEDERAL SCIENCE  
AND TECHNOLOGY  
BUDGET**

NATIONAL ACADEMY OF SCIENCES  
NATIONAL ACADEMY OF ENGINEERING  
INSTITUTE OF MEDICINE  
OF THE NATIONAL ACADEMIES





**To deaning ...**







# The Team





















# **The Challenge**

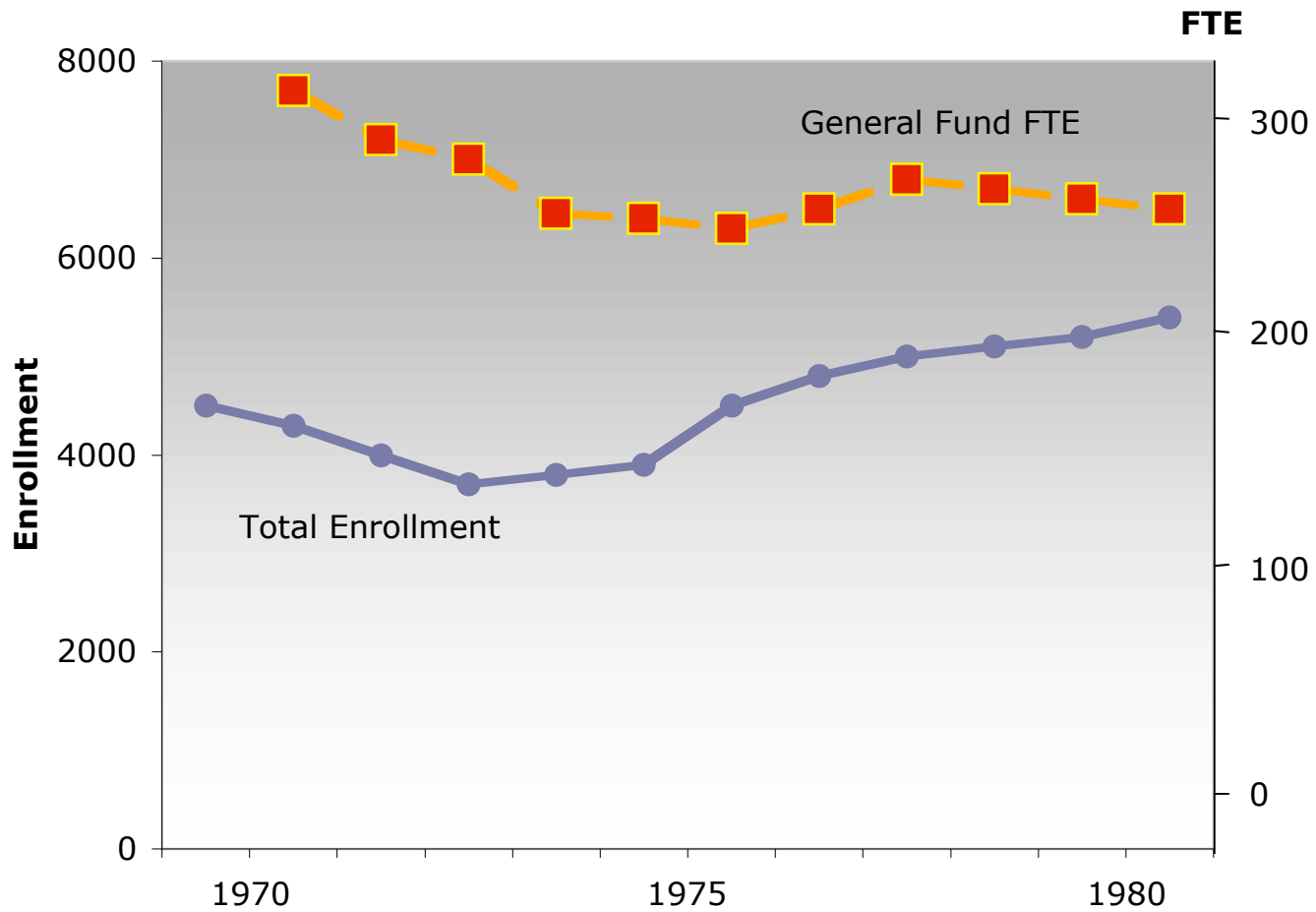
(Father, THE CRISIS!!!)



# Trauma of the 1970s

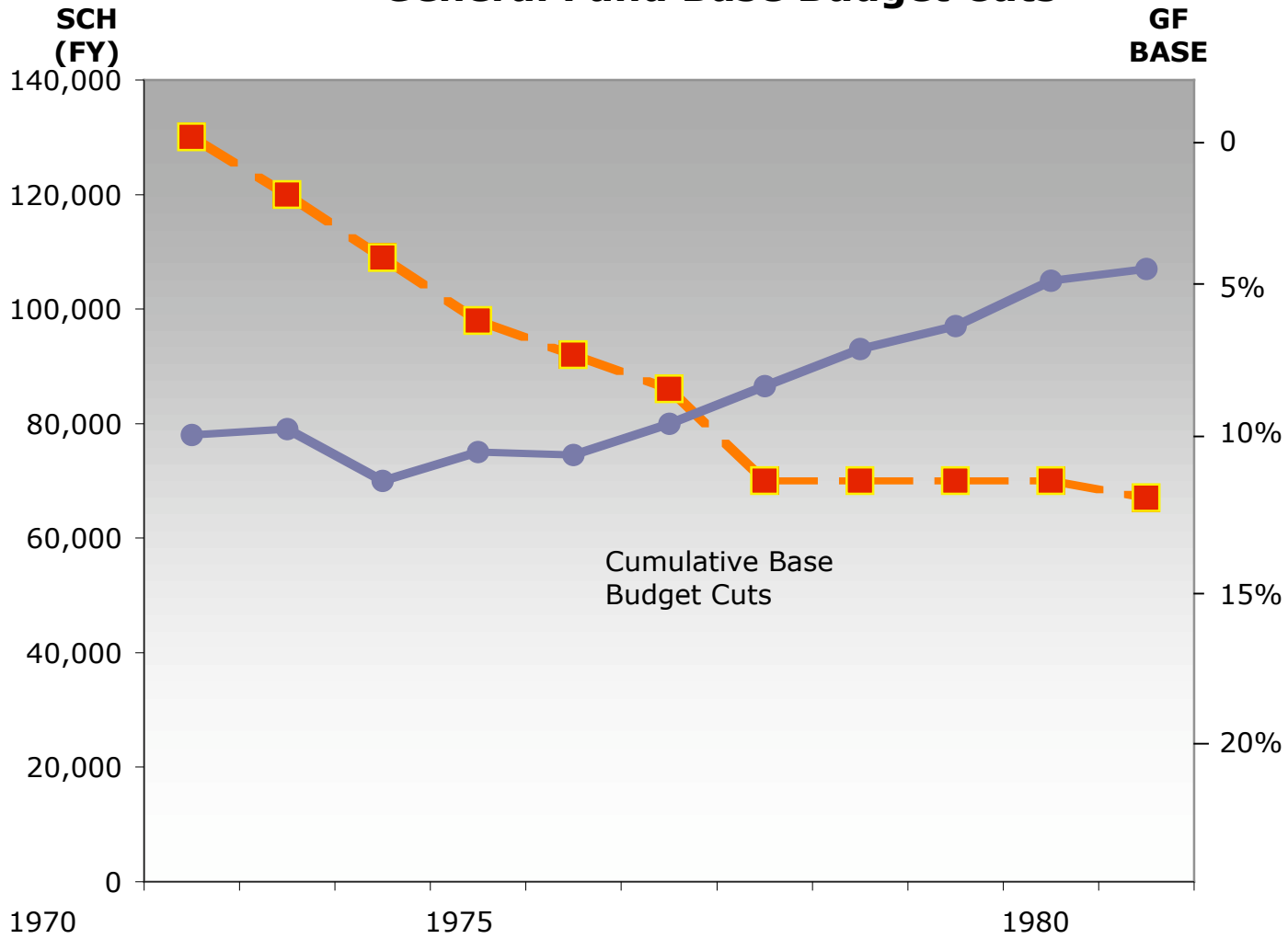
- Growth of College General Fund Budget was 1% per year compared to 7% per year for rest of University (1970-71 to 1980-81)
- College Instructional Staff declined 12% from 302 to 268.
- College Support Staff declined 9% from 152 to 138
- College Enrollment increased by 44%
- College SCH increased by 35%
- College SCH/FTE increased by 45%

# General Fund / Enrollment

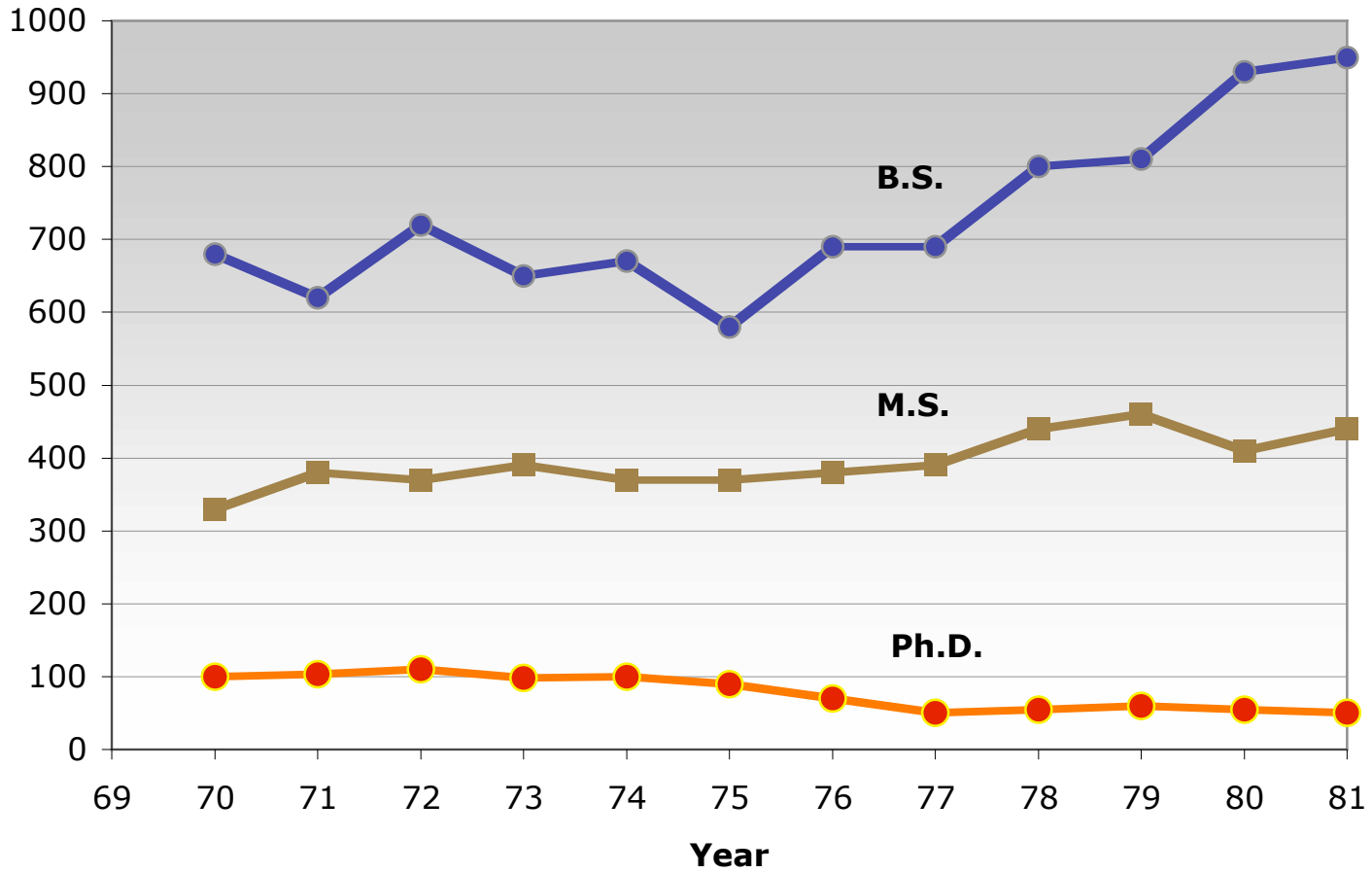


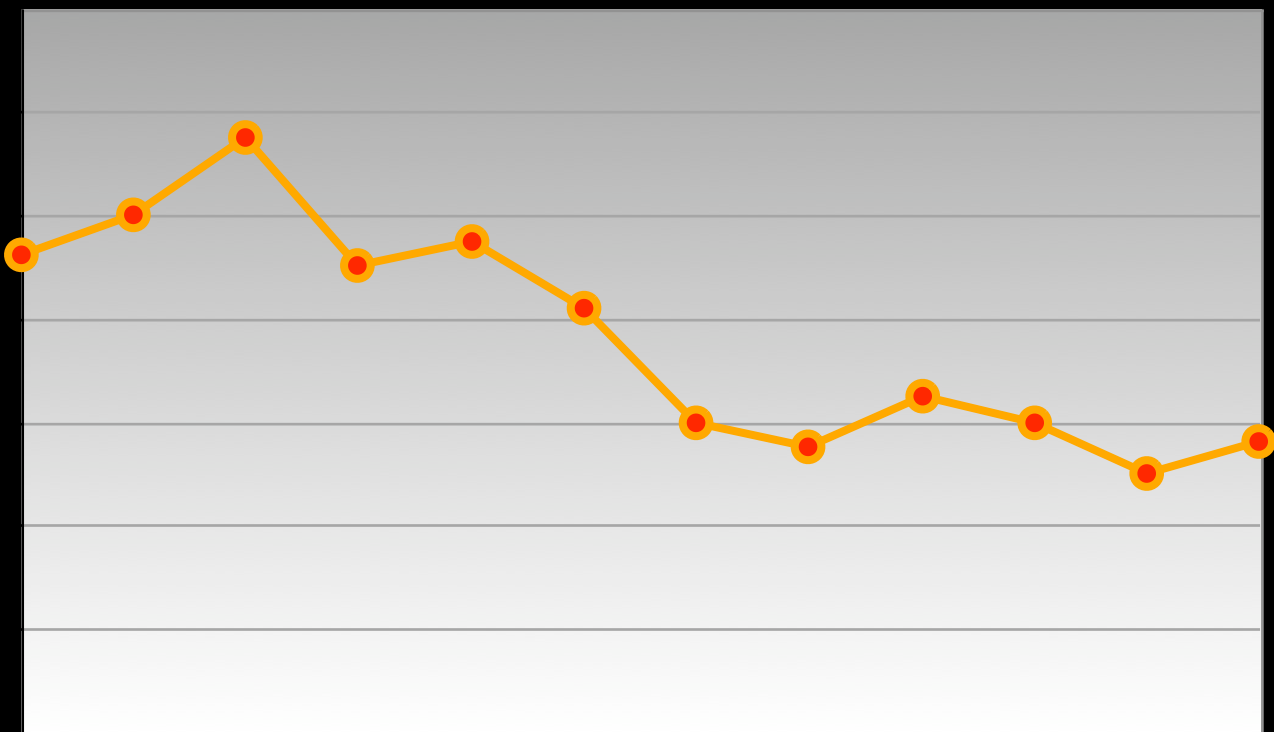


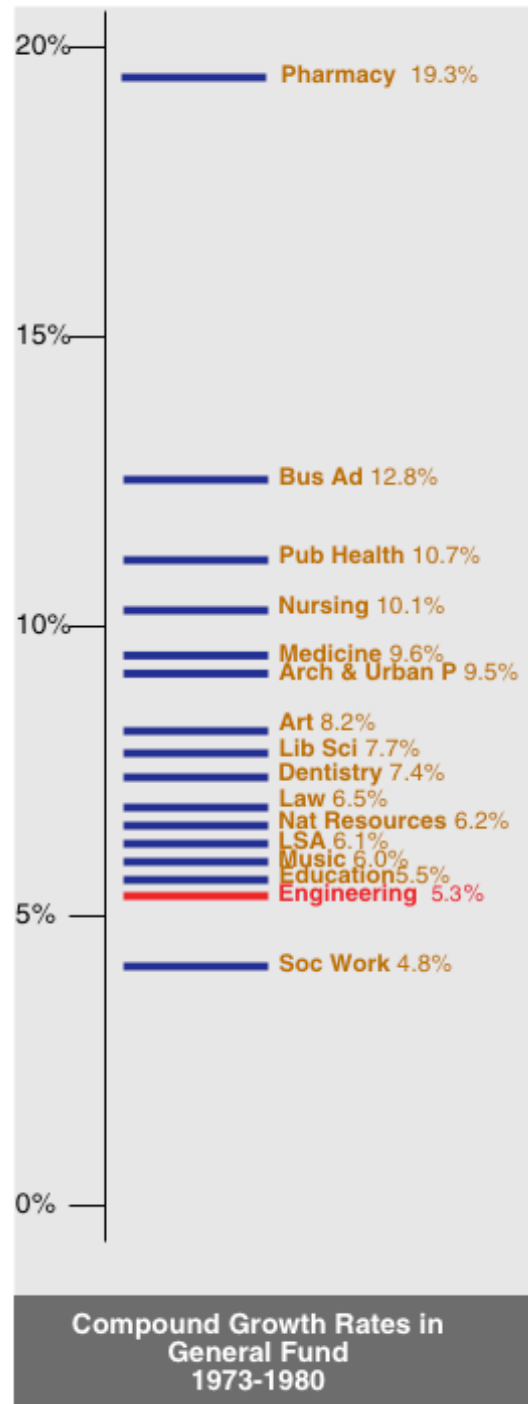
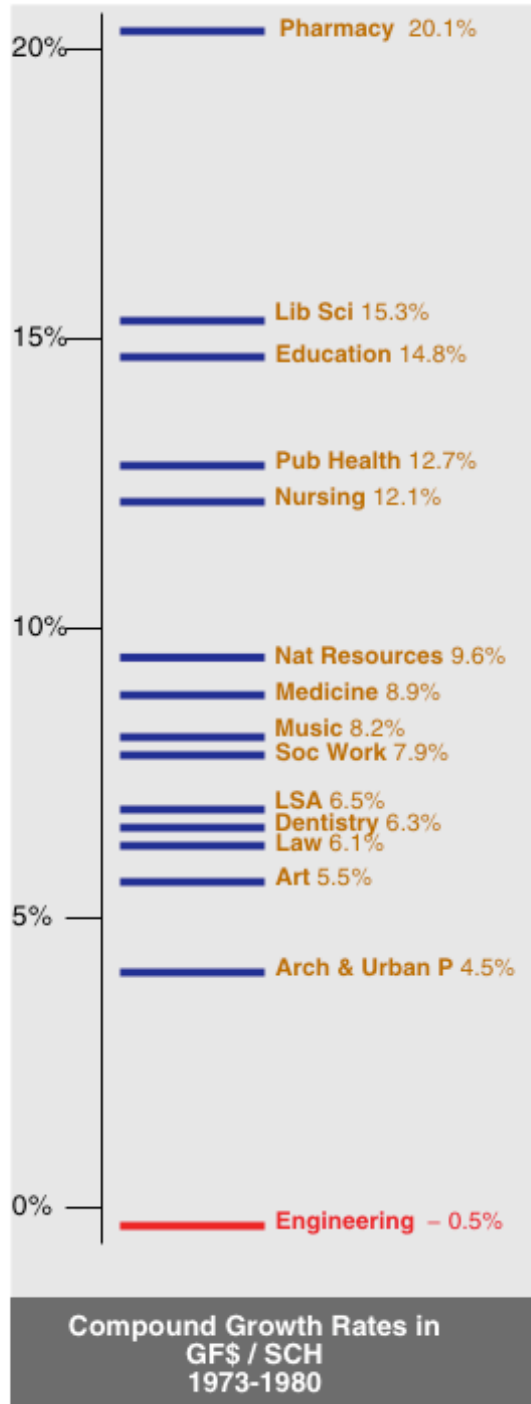
# General Fund Base Budget Cuts



## Engineering Degrees Conferred









# The Plan

The College of Engineering:  
Status and Future

-- A presentation for the  
Executive Officers

November 4, 1981

The Culture of Excellence  
"Status and Future"

---

UNIVERSITY OF MICHIGAN  
FY 85-86 STATE  
BUDGET REQUEST

---

INTELLECTUAL  
INVENTORY

---

**CONFIDENTIAL**

---

EXECUTIVE COMMITTEE RETREAT


---

Supporting Materials

---

A UNIQUE OPPORTUNITY  
FOR MICHIGAN'S FUTURE:  
AN INVESTMENT IN  
ENGINEERING EXCELLENCE  
Rationale and Plan  
February 1985

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COLLEGE OF ENGINEERING  
THE UNIVERSITY OF MICHIGAN  
ANN ARBOR, MICHIGAN

The College of Engineering,  
Status and Future

---

THE CRISIS FACING  
ENGINEERING EDUCATION  
IN MICHIGAN  
A Call for Action  
January 19, 1985

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STATE OF THE UM


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A PROPOSAL TO THE  
LOCKHEED CORPORATION  
TO SUPPORT THE  
COMPUTER-AIDED  
ENGINEERING NETWORK  
MAY 1984

---

A UNIQUE OPPORTUNITY  
FOR MICHIGAN'S FUTURE:  
AN INVESTMENT IN  
ENGINEERING EXCELLENCE  
Rationale and Plan  
October 1984

---



COLLEGE OF ENGINEERING  
THE UNIVERSITY OF MICHIGAN  
ANN ARBOR, MICHIGAN

A PROPOSAL TO THE  
MICHIGAN RESEARCH  
EXCELLENCE FUND  
TO ESTABLISH A  
CENTER OF SCHOLARLY  
EXCELLENCE IN  
COMPLEX MANUFACTURING  
TECHNOLOGY

---

A PROPOSAL TO THE  
MICHIGAN RESEARCH  
EXCELLENCE FUND  
TO ESTABLISH A  
CENTER OF SCHOLARLY  
EXCELLENCE IN  
MACHINE INTELLIGENCE  
TECHNOLOGY  
March 1985

---

A PROPOSAL TO THE  
MICHIGAN RESEARCH  
EXCELLENCE FUND  
TO ESTABLISH A  
CENTER OF SCHOLARLY  
EXCELLENCE IN  
COMPLEX MANUFACTURING  
TECHNOLOGY


---

COLLEGE OF  
ENGINEERING  
BRIEFING

---

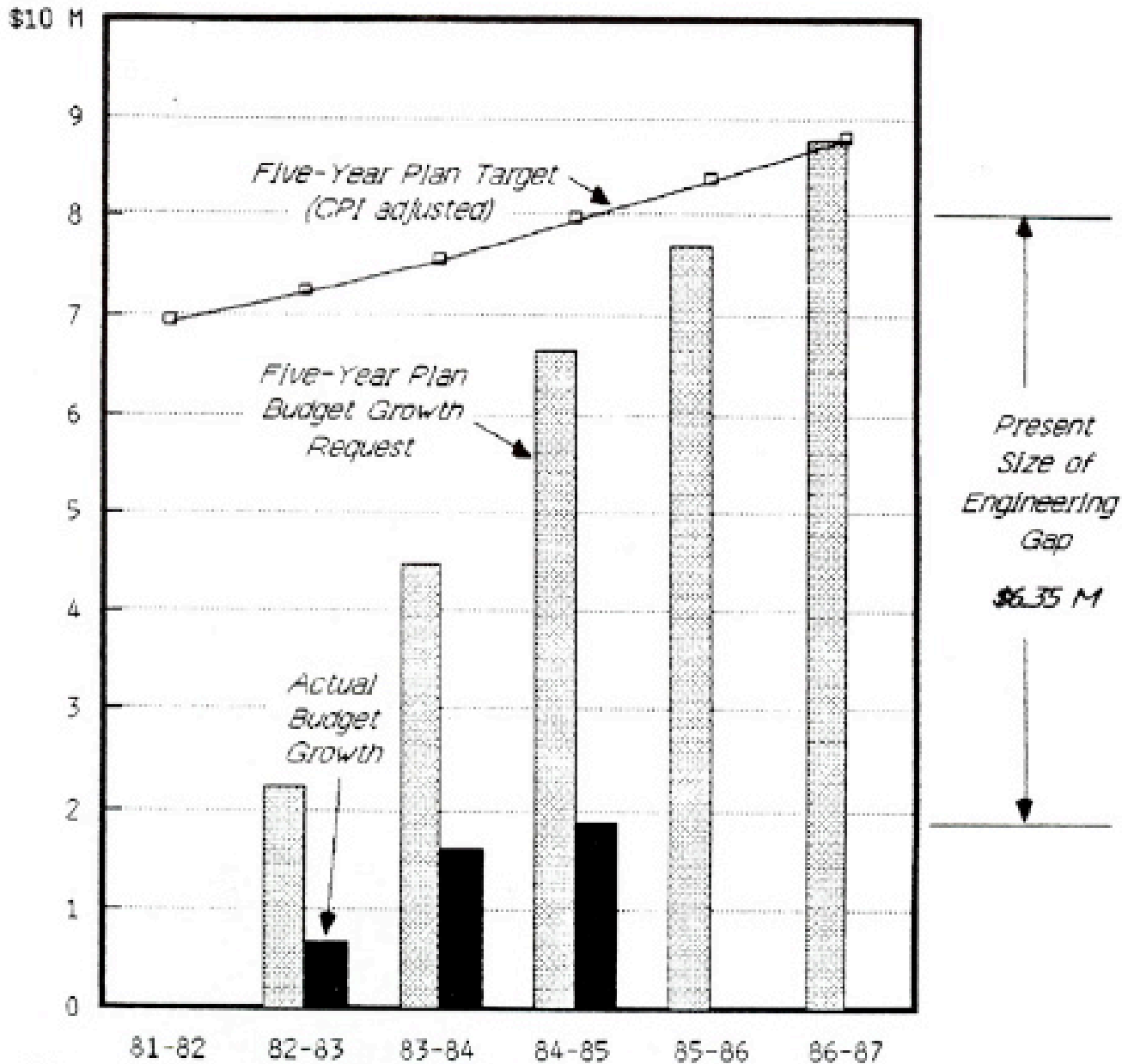
COLLEGE OF  
ENGINEERING  
BUDGET PLANNING  
CONFERENCE  
December 1, 1984

---



COLLEGE OF ENGINEERING  
THE UNIVERSITY OF MICHIGAN  
ANN ARBOR, MICHIGAN

# College of Engineering Five-Year Plan





The University of Michigan  
ANYTHING GOES FUND

PAY TO College of Engineering \$ \_\_\_\_\_

\_\_\_\_\_ DOLLARS

B. E. FRYE AND CO.  
ANN ARBOR, MICHIGAN

B. E. Frye



# **The Move**





**Jump-starting ...**























# Lobbying ...











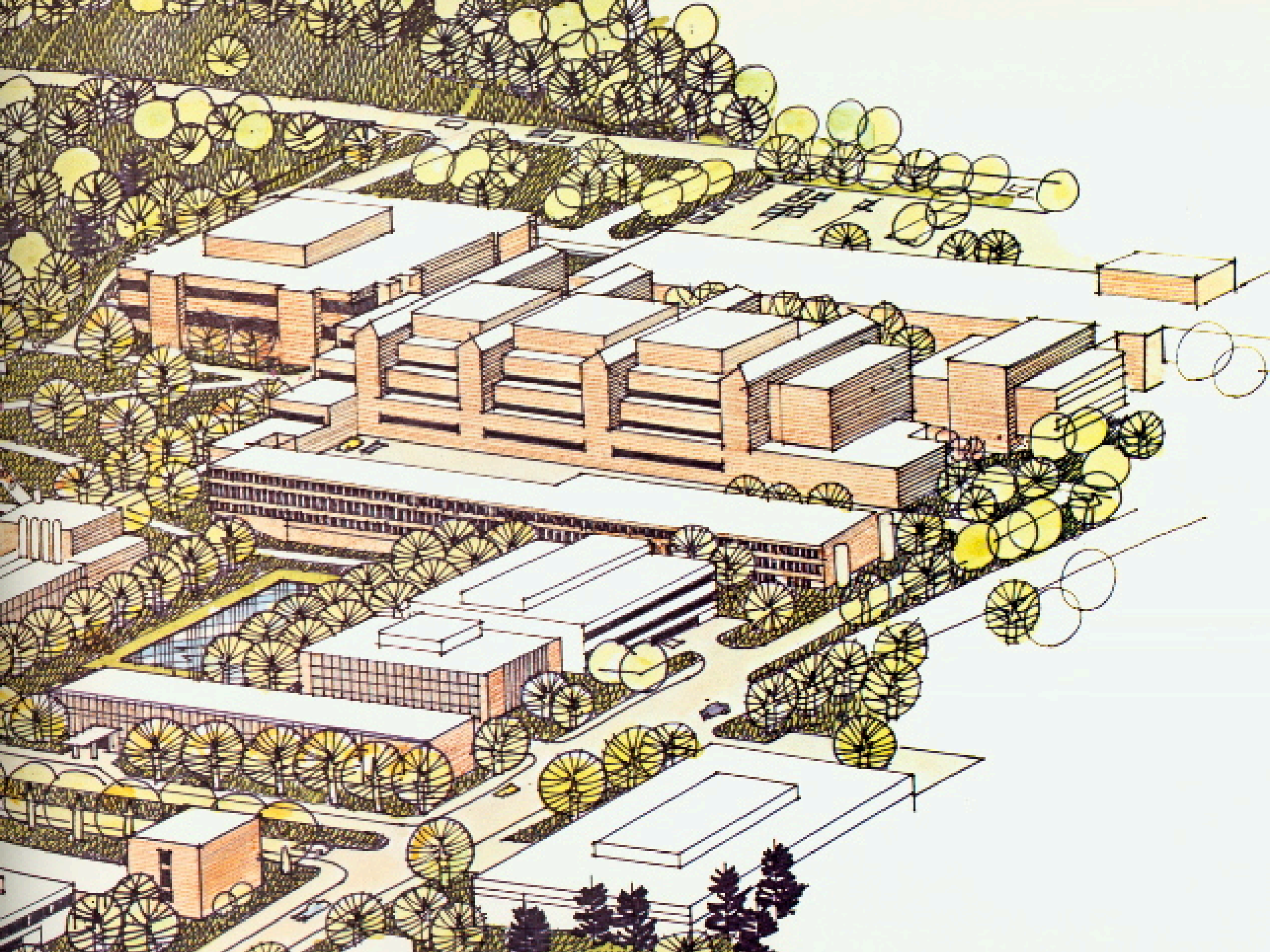






**Building ...**





























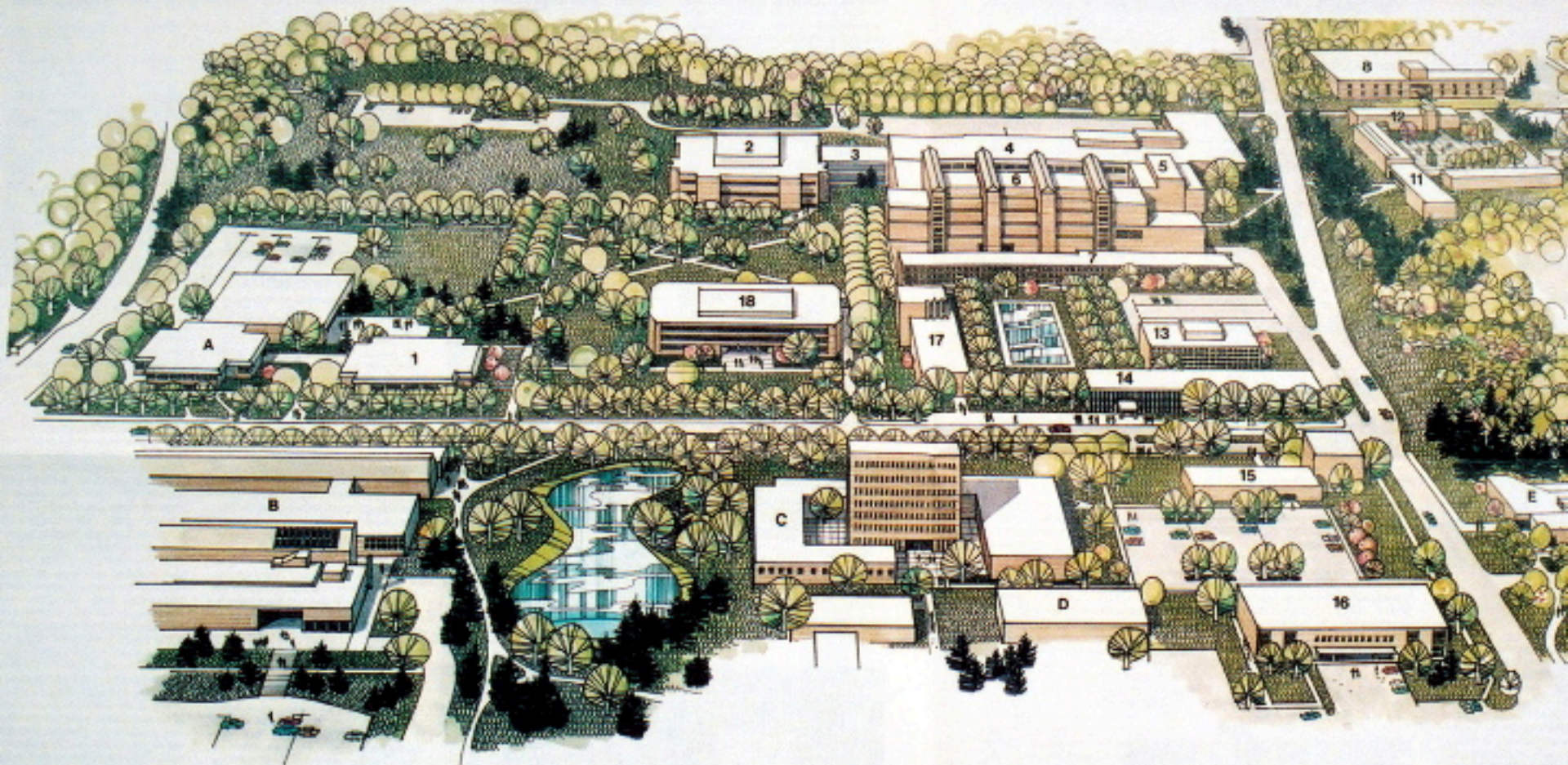


*Association France-Tour-Ski*

For the last 10 years, the Association France-Tour-Ski has been working to promote the French Alps as a winter sports destination. The organization has provided financial support for projects such as ski resorts, ski schools, and ski lifts. The association also organizes events and activities for tourists and locals alike.



# The University of Michigan North Campus



## COLLEGE OF ENGINEERING FACILITIES

- 1 Chrysler Center
- 2 Herbert H. Dow Building
- 3 Dow Connector (under construction)
- 4 George G. Brown Building
- 5 Engineering I/A Building
- 6 Electrical Engineering and Computer Science Building
- 7 Walter E. Lav Automotive Laboratory
- 8 Space Research Building
- 9 Naval Architecture and Marine Engineering Building
- 10 Aerospace Engineering Building
- 11 AEROSPACE CLASSROOMS AND RESEARCH LABORATORIES\*
- 12 Research Activities Building
- 13 Industrial and Operations Engineering
- 14 Mortimer S. Cooley Building
- 15 Technical Communications Building
- 16 Center for Research on Integrated Manufacturing Building
- 17 Phoenix Memorial Laboratory and Ford Research
- 18 NORTH CAMPUS LIBRARY\*  
(\*In Planning)

FUNDING	YEAR
Gifts	1966
Gifts	1983
Gifts & Univ	---
Federal	1957 (1964 Addition)
State	1975
State	1986
State & Gifts	1995
Federal & Univ	1985 (1988 Addition)
Federal & Gifts	1977 (1978 Addition)
Federal & Univ	1955 (1972 Addition)
Federal	1960
Univ	1983 (Assigned to College)
State	1953
Univ	1983 (Assigned to College)
Univ	To be occupied in 1987
Gifts	1965
---	---

## OTHER UM FACILITIES

- A North Campus Commons (addition under construction)
- B Art and Architecture Building
- C Institute of Science and Technology Buildings
- D Computing Center
- E Bentley Historical Library



# **The Creation of CAEN**

(The Computer Aided  
Engineering Network ...  
Dan Atkins and Dick Phillips)







NO SMOKING OR  
CIGARETTE SALES

MICHIGAN







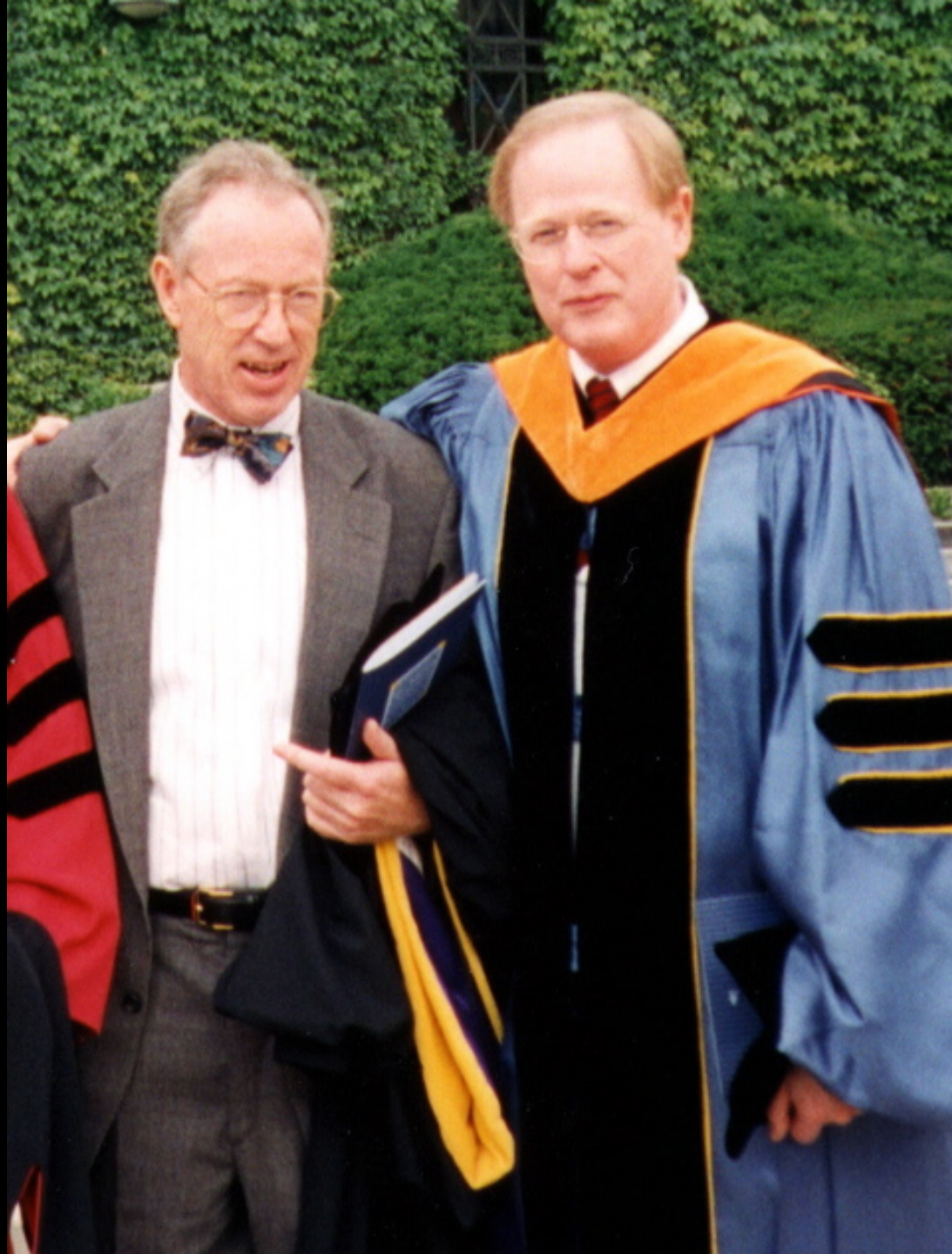









**From deaning ...  
to provosting ...**





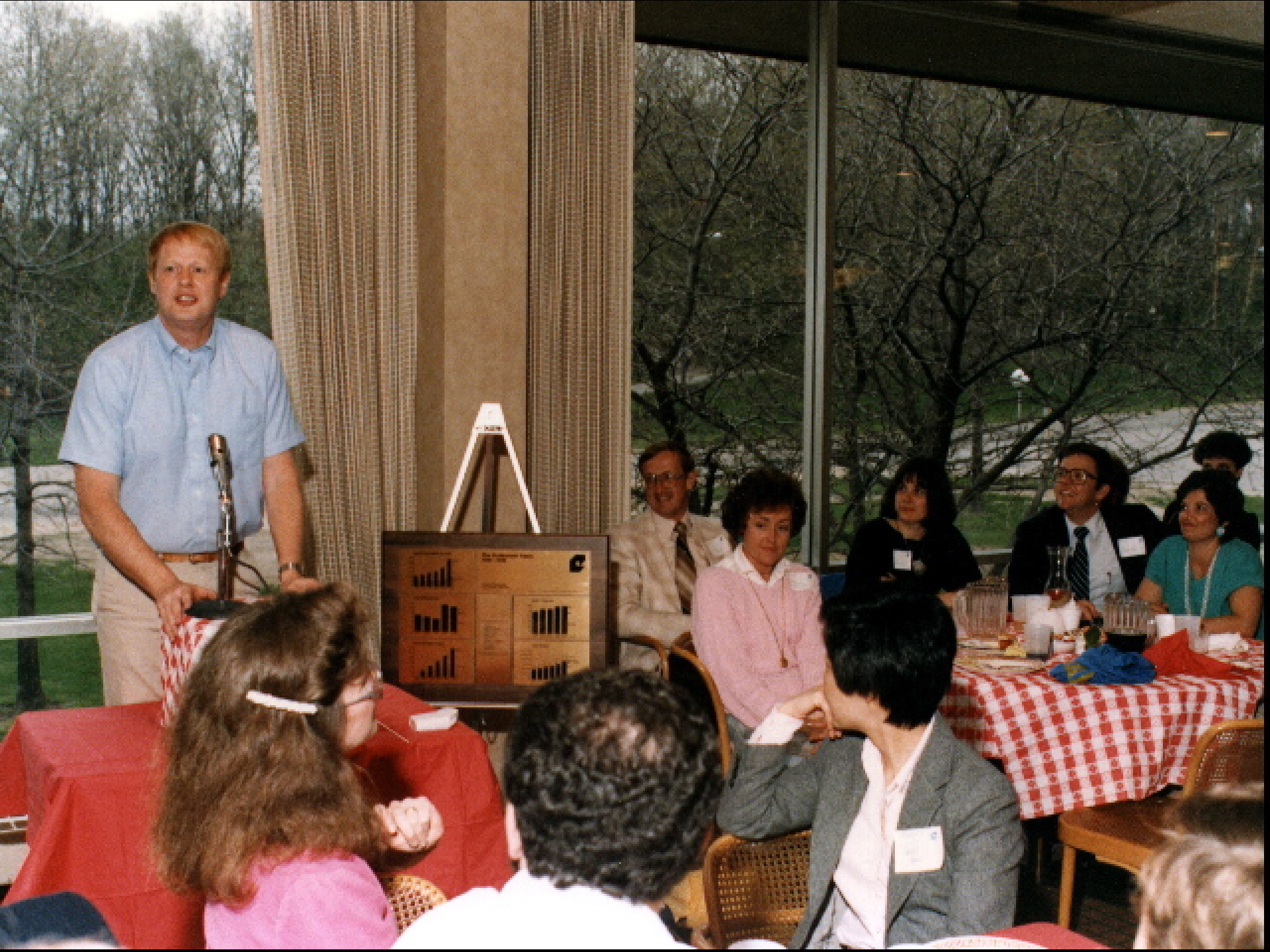
**A**n unusual stir of excitement and concern greeted the appointment last April of U-M Engineering dean Jim Duderstadt as the University of Michigan's new provost and vice president for academic affairs—the U-M's second in command. Replacing the mild-mannered, popular Billy Frye (now dean of the graduate school and vice president for research at Emory University), the forty-three-year-old Duderstadt is the first engineer to hold the key job.



Jim  
Duderstadt's  
Picnic At  
North Campus  
Commons





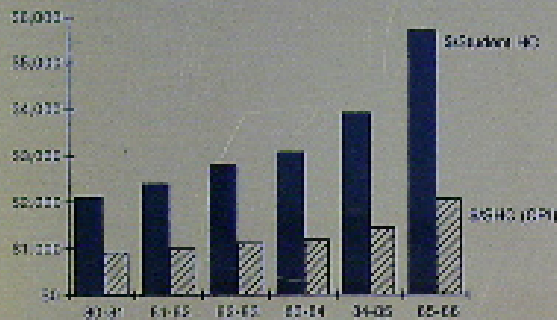


VICE PRESIDENT  
AND  
PROVOST

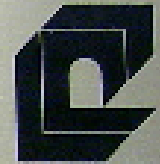
PROVOSTESS



General Fund Support per FYES

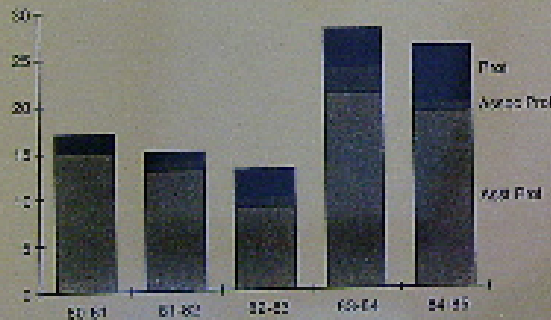


# The Duderstadt Years 1981-1986

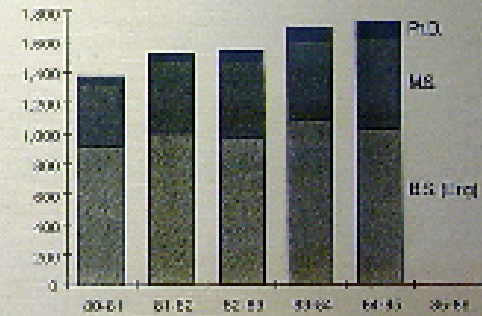


College of Engineering  
The University of Michigan

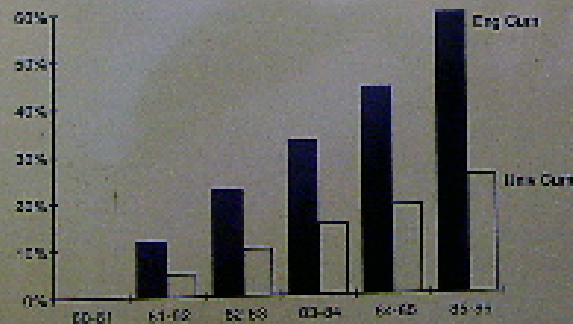
Faculty Hiring Activity



Degree Production

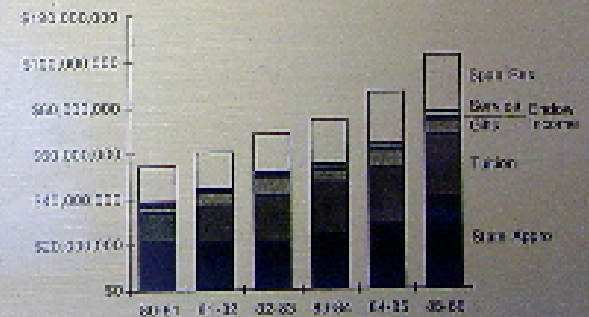


Cumulative Salary Program



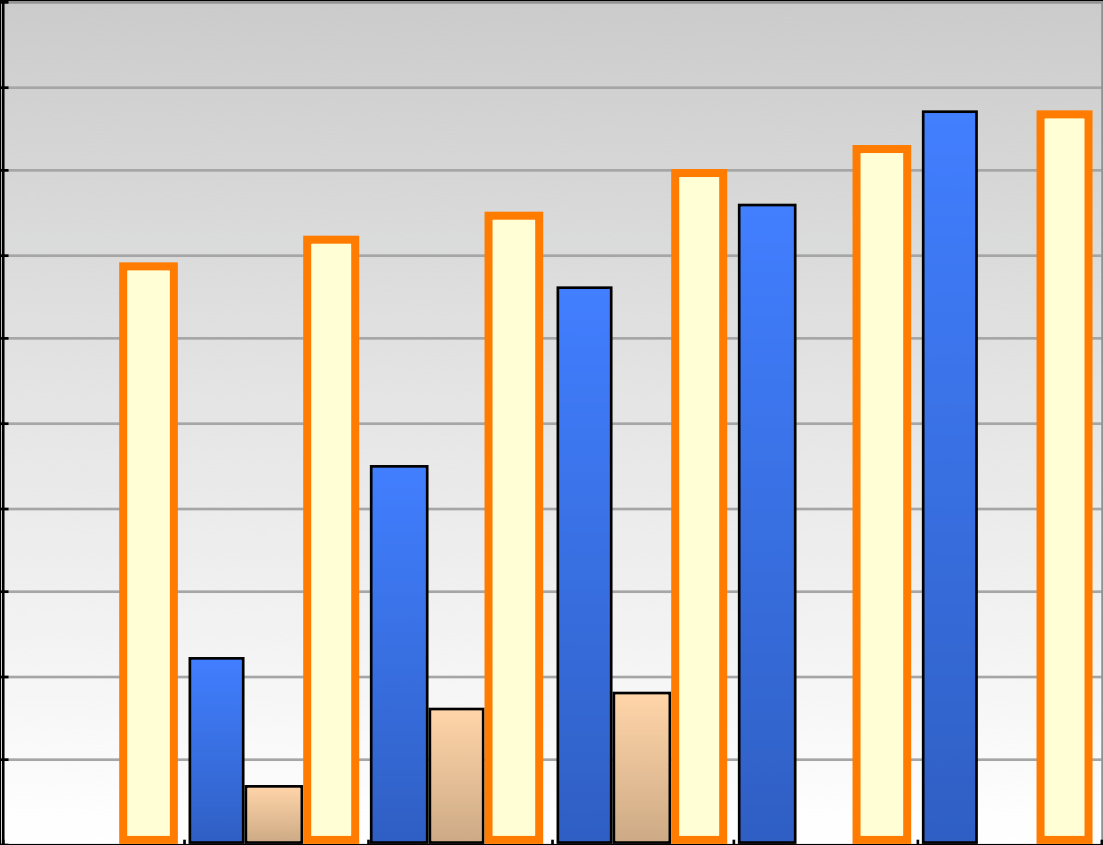
Presented to  
James J. Duderstadt  
on the 80th day  
of April, 1986  
on behalf of the  
College of Engineering  
with a good wish  
for his future  
endeavors.

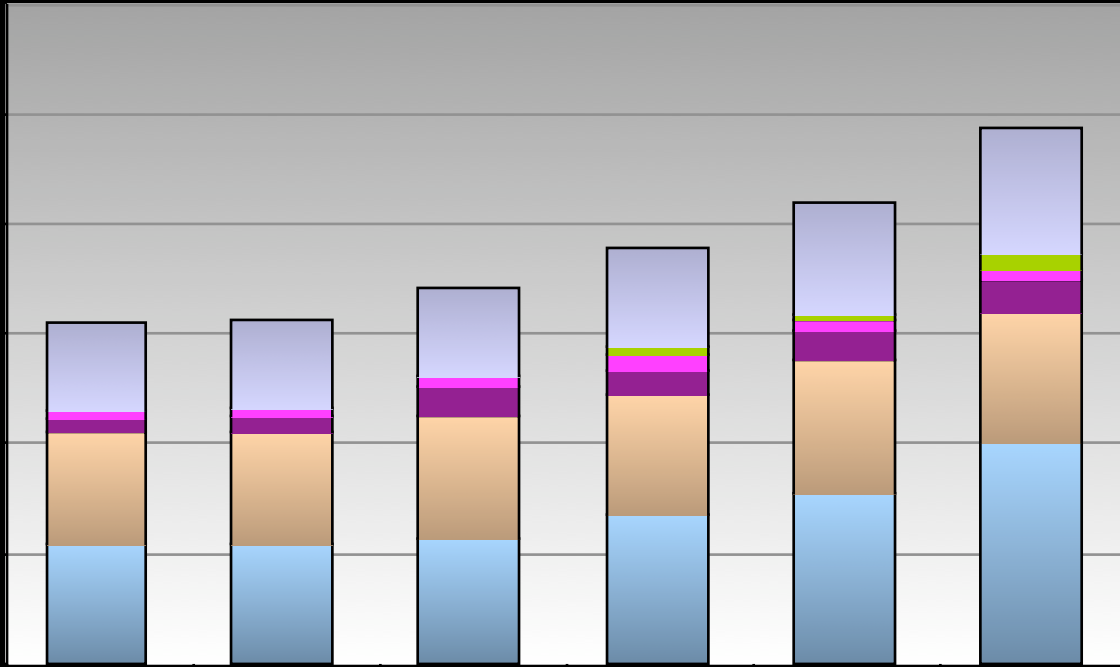
Total Revenue



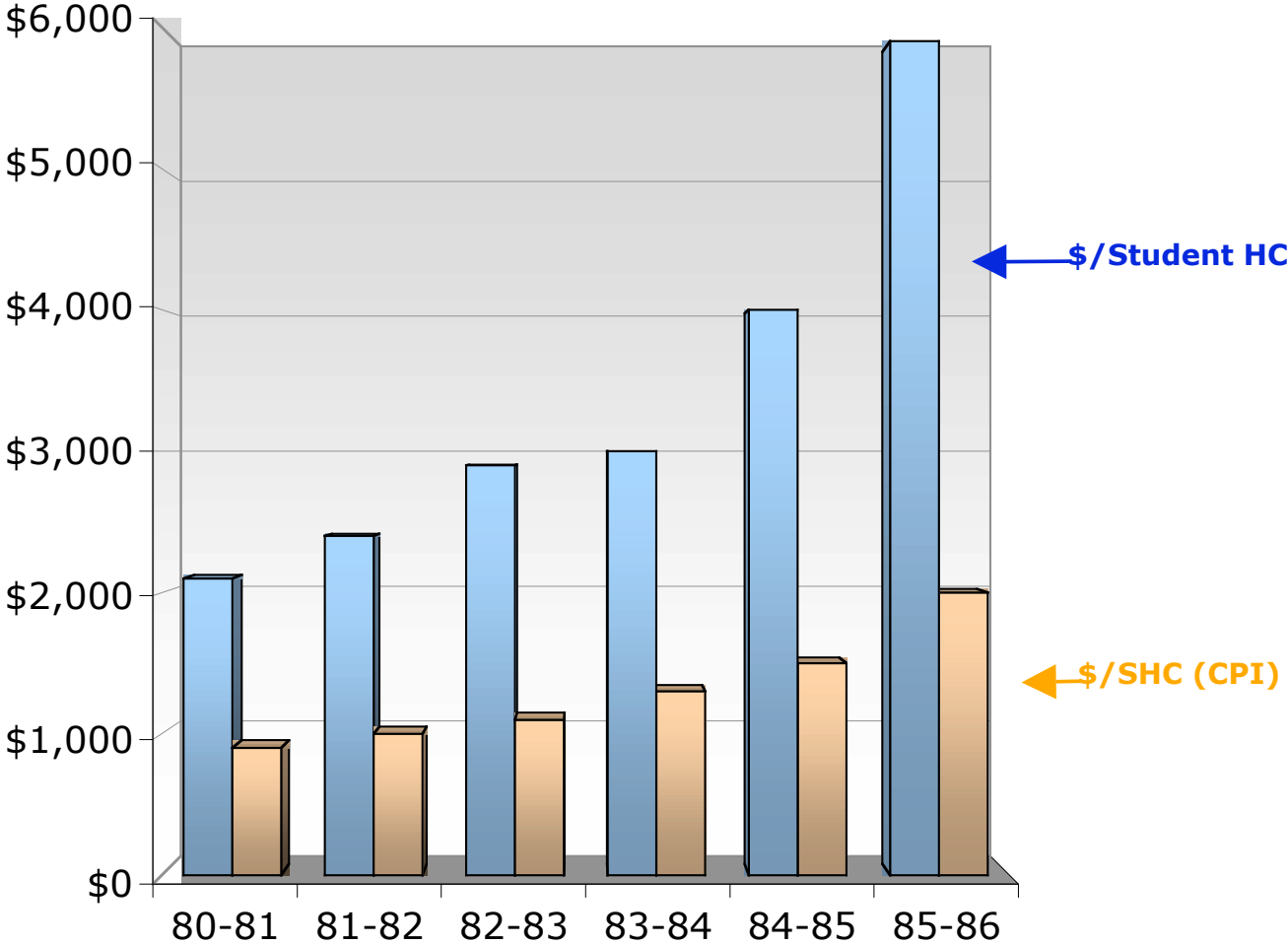


# The Charts

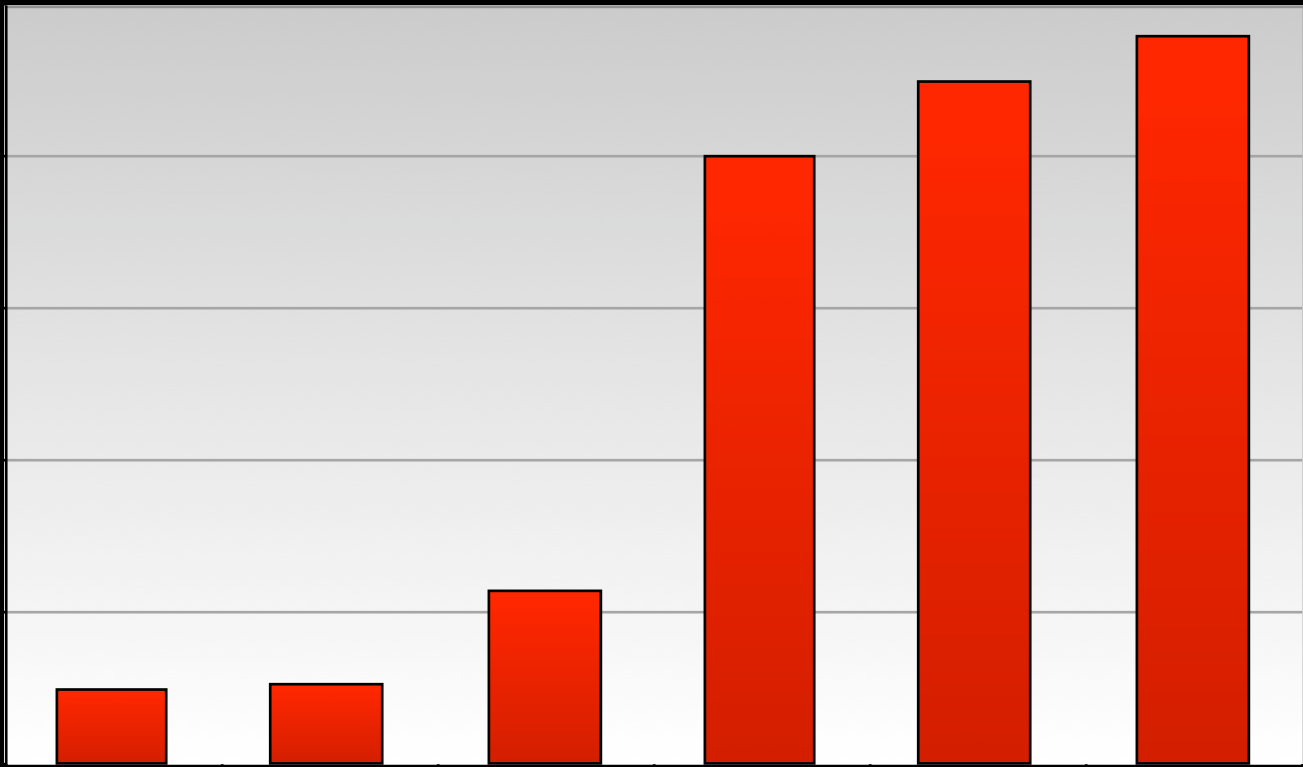


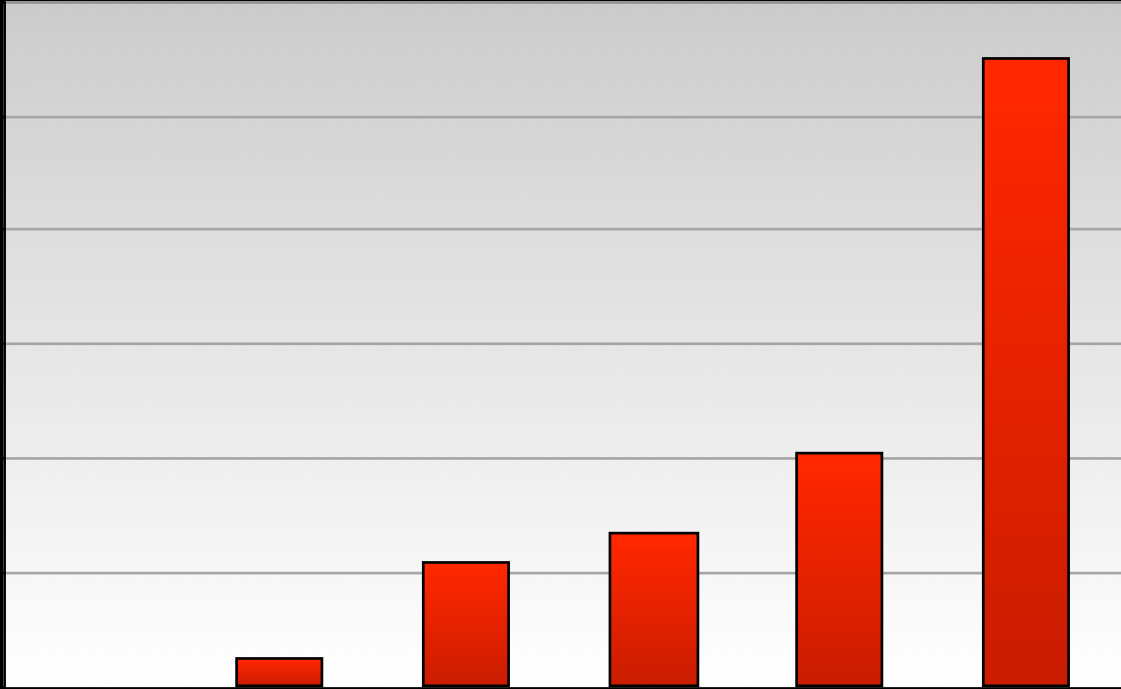


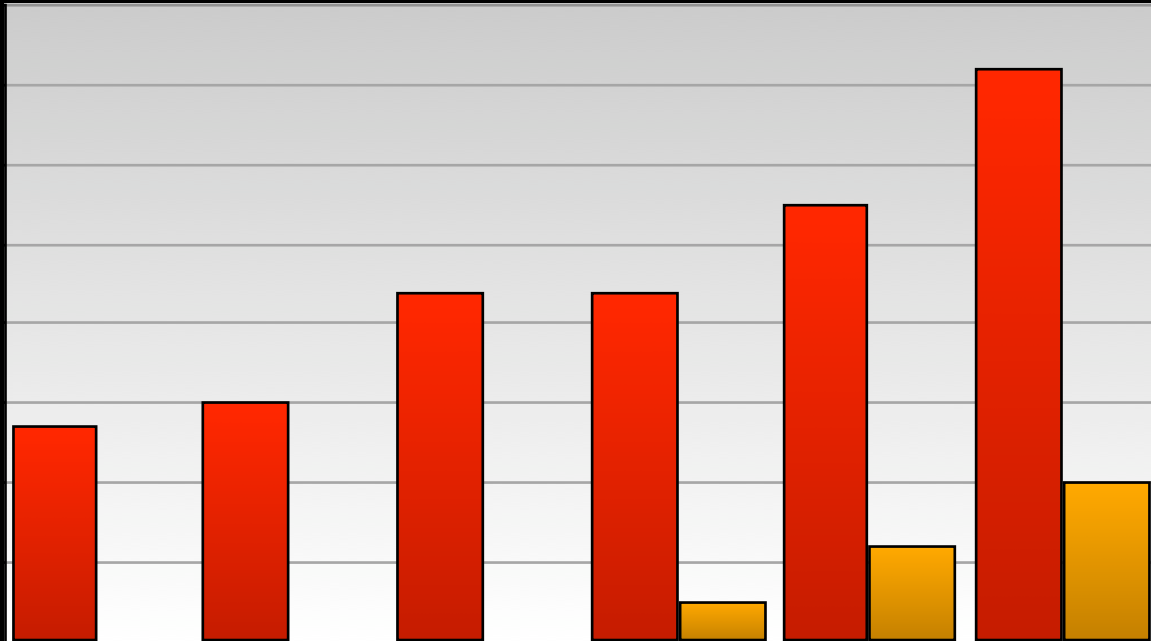
# General Fund Support per FYES

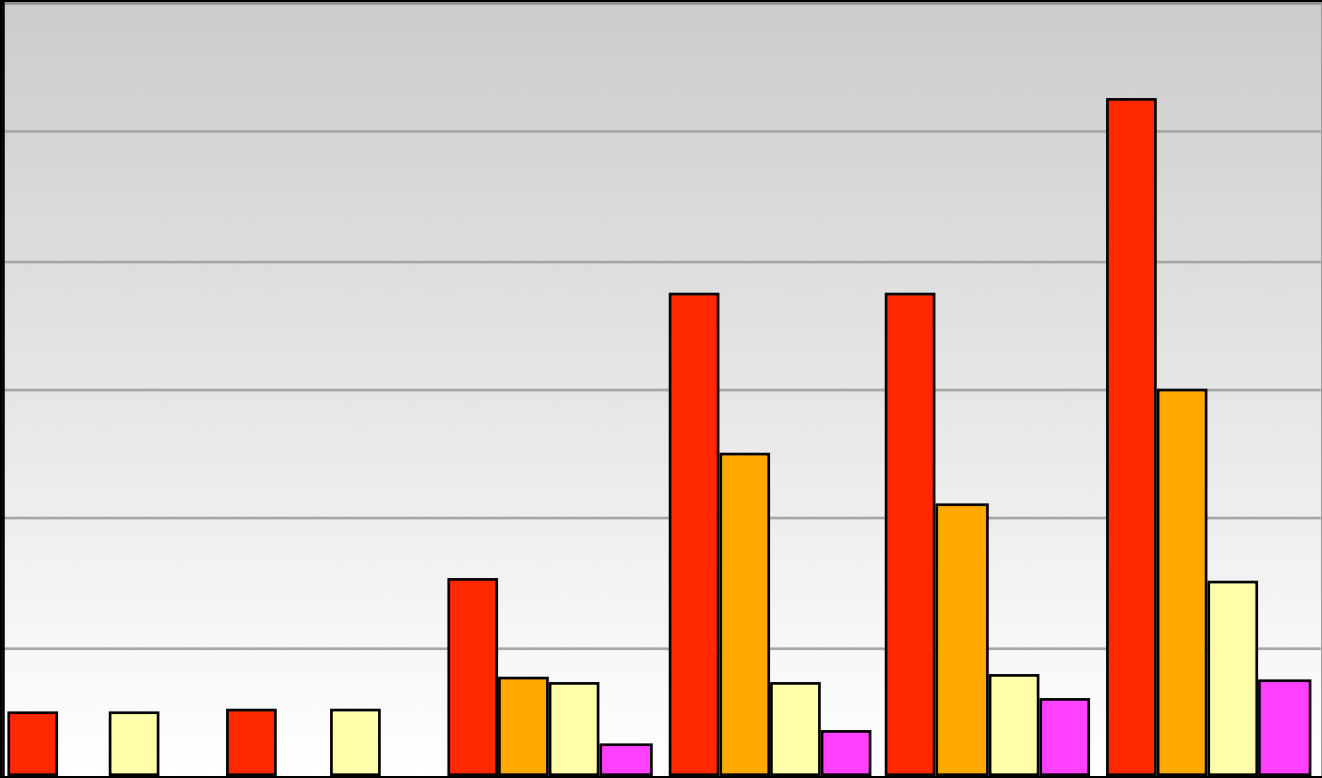




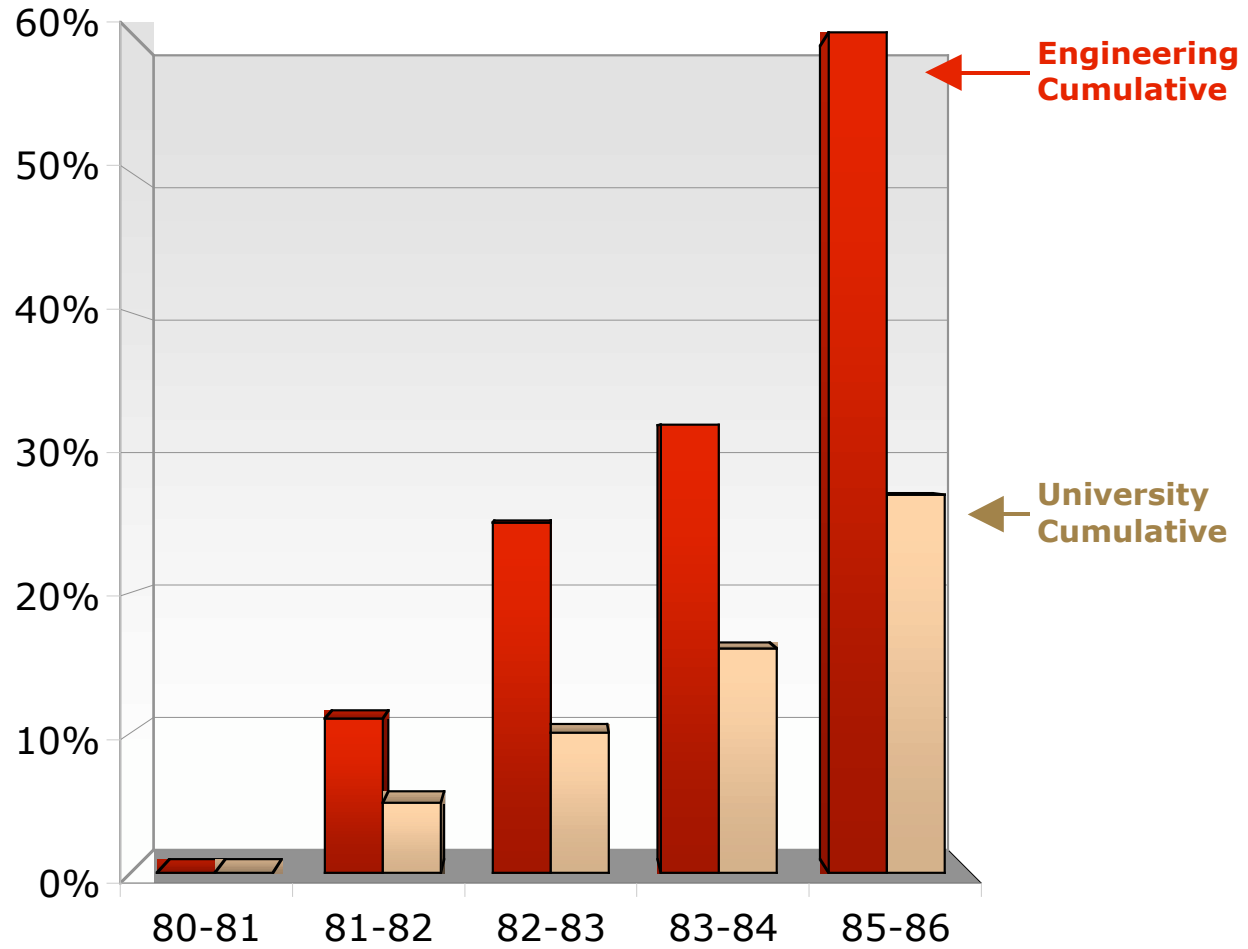




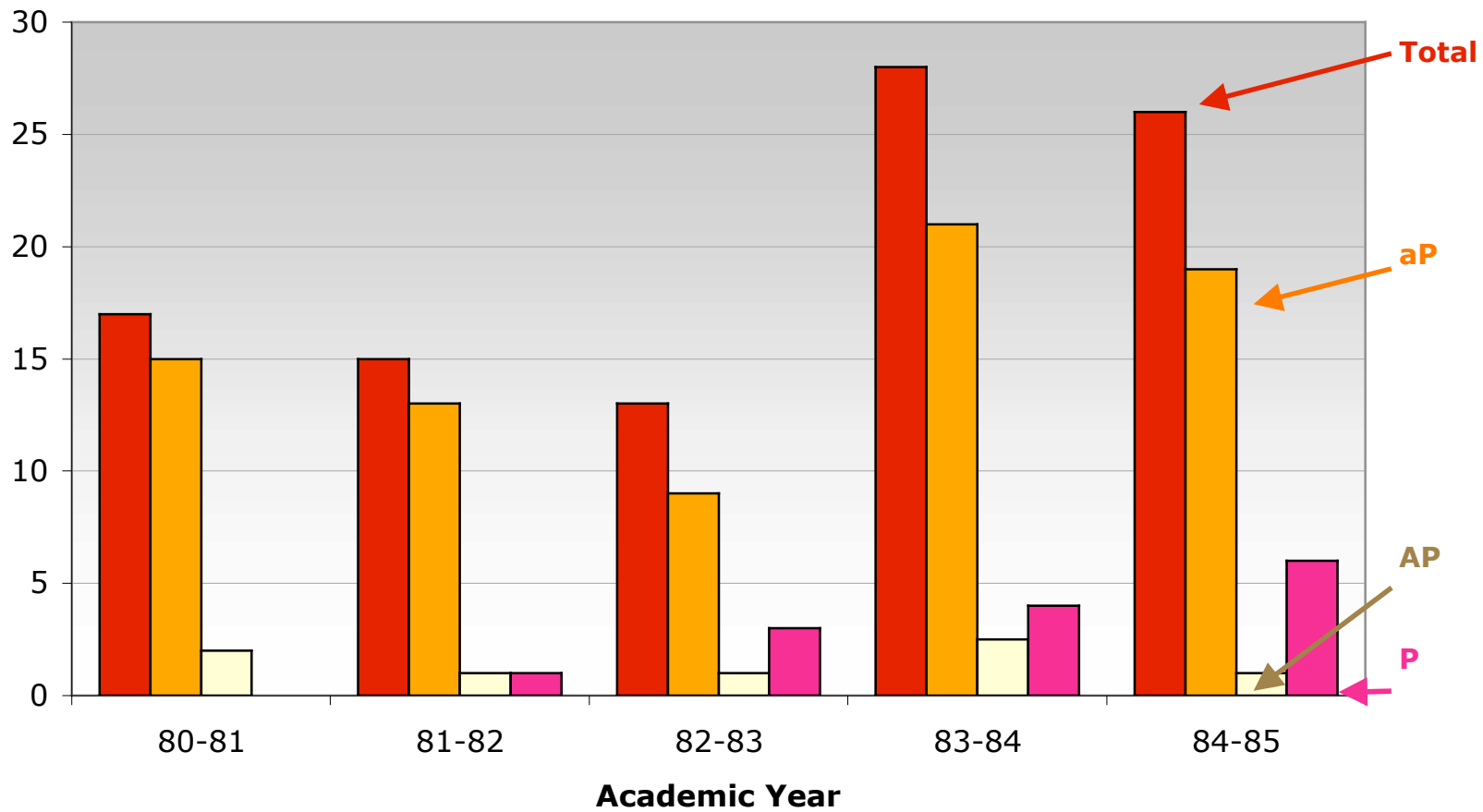




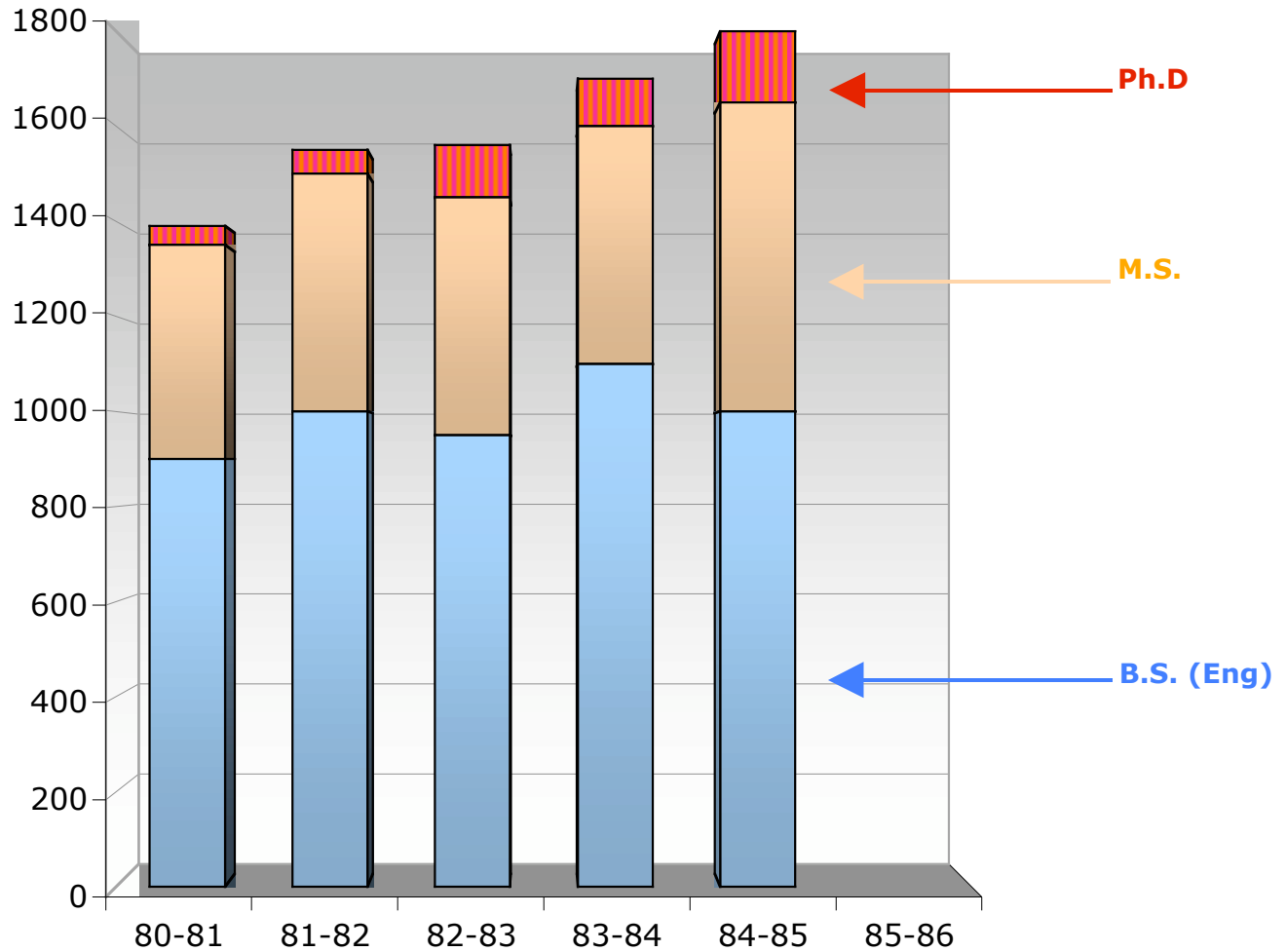
## Cumulative Salary Program

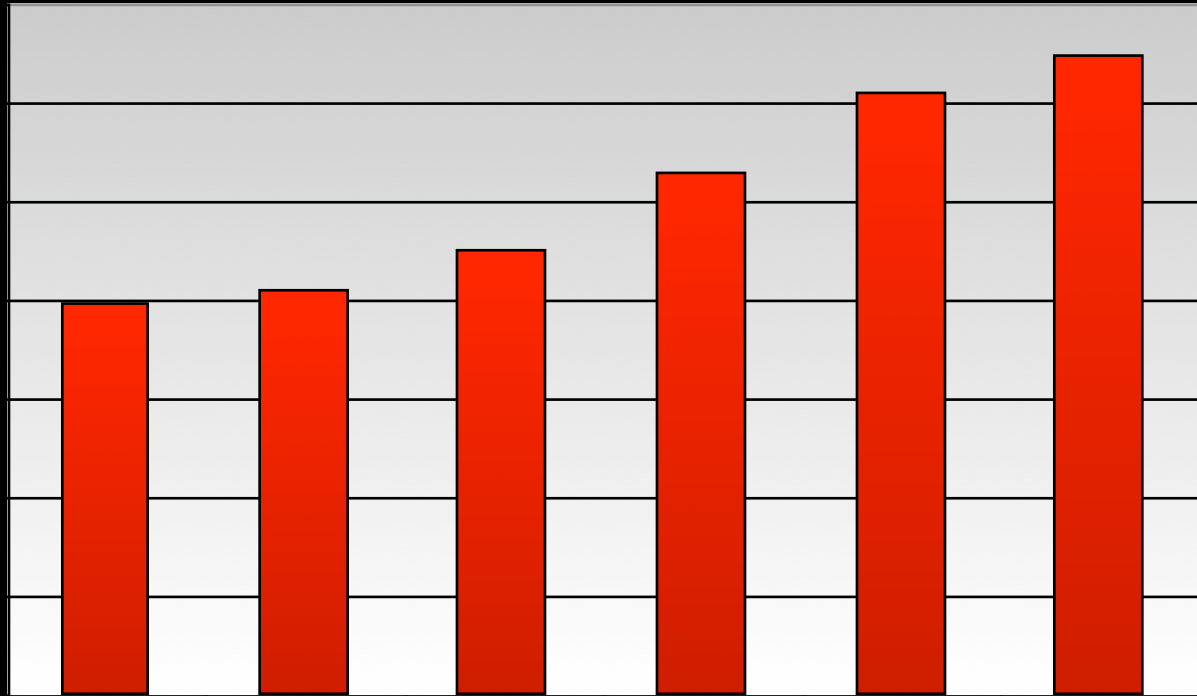


# Engineering New Faculty Hires

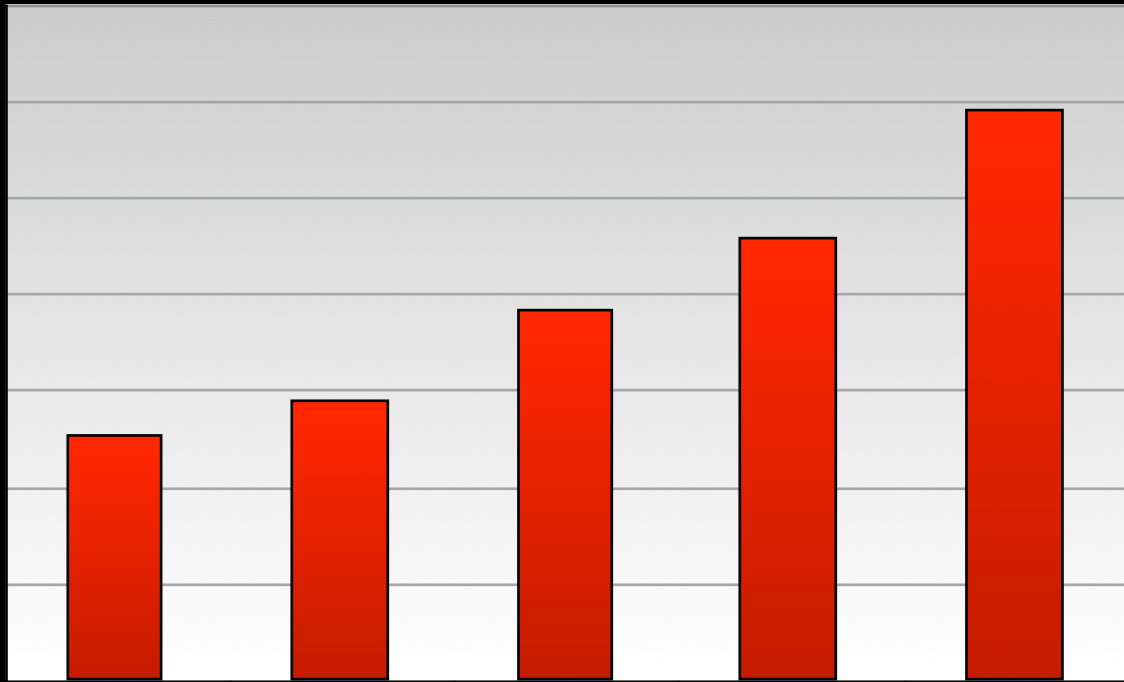


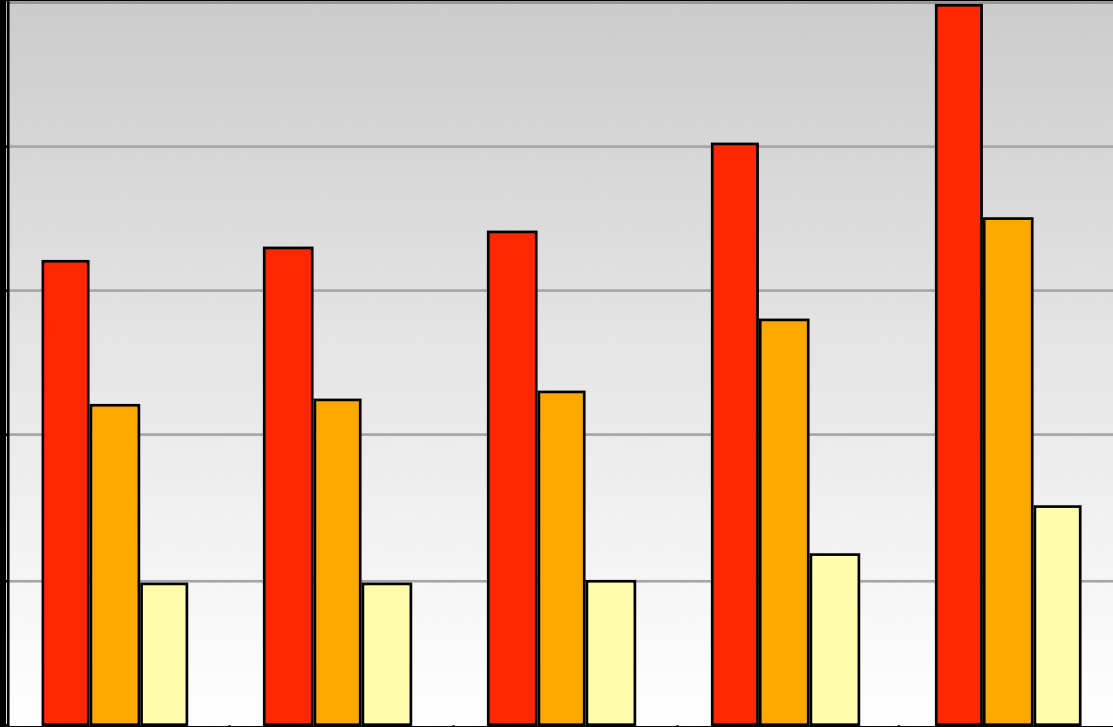
## Degree Production











# 1981-1986 Progress

- The North Campus move of the College was finally completed.
- The General Fund budget of the College was tripled (from \$13 M/y to \$36 M/y) (including the Research Excellence Fund)
- The salaries of assistant and associate professors were doubled (with corresponding increases for selected full professors).
- 120 new faculty were hired.
- The Computer Aided Engineering Network (CAEN) was created.
- PhD production was doubled.
- Sponsored research support was doubled.

## Perhaps most important...

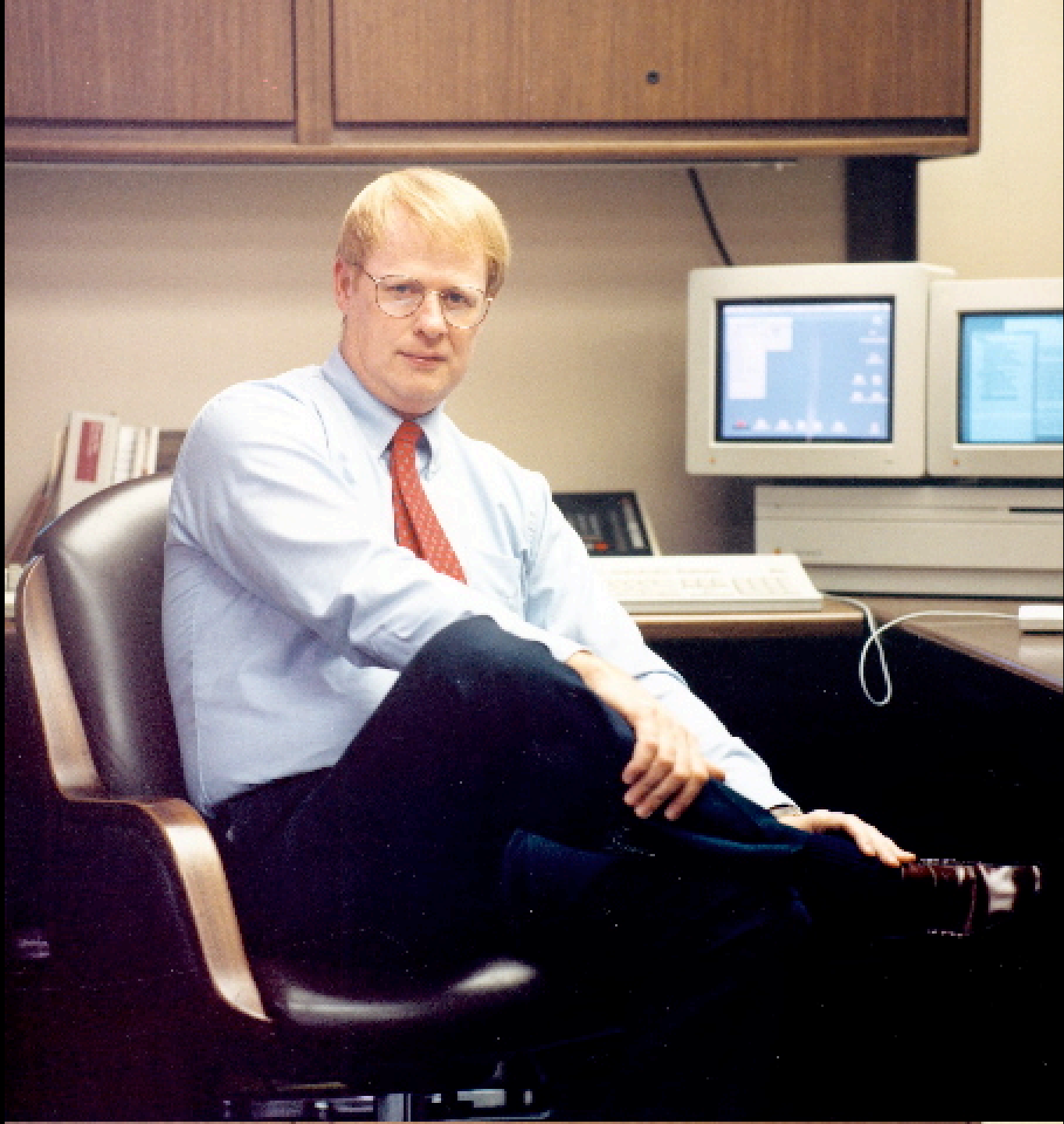
- Establishing the College of Engineering as a top priority of the University of Michigan and the State of Michigan.
- Transforming the culture of the College, by raising the bar for the achievement of excellence and building the confidence it could be achieved.
- Rebuilding the quality of the faculty of the College both through new hires and rewarding and retaining our top performers.



**From deaning ...  
to provosting ...**



















I'm  
Next!



**From provosting ...  
to presiding ...**



Dear Jim,

Someday even they have  
to make a decision! When they  
do:

1. Correct Decision: Open (A)

2. Bad Decision: Open (B)

Or else, throw up your  
hands and open both now.

- Chuck  
6-6-88









# M I C H I G A N



## Big Man on Campus

Jim Duderstadt wants to lead the U. of M. to the head of the parade. Will his school make the grade?



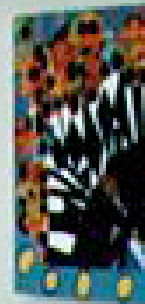
Handwritten notes on a grid paper, possibly a calendar or project schedule.

Handwritten notes on a large sheet of paper, including a list of items and some diagrams.

Handwritten notes on a large sheet of paper, featuring a diagram and several paragraphs of text.

- Handwritten list of items or tasks on a large sheet of paper.

Handwritten notes on a large sheet of paper, possibly a checklist or summary.







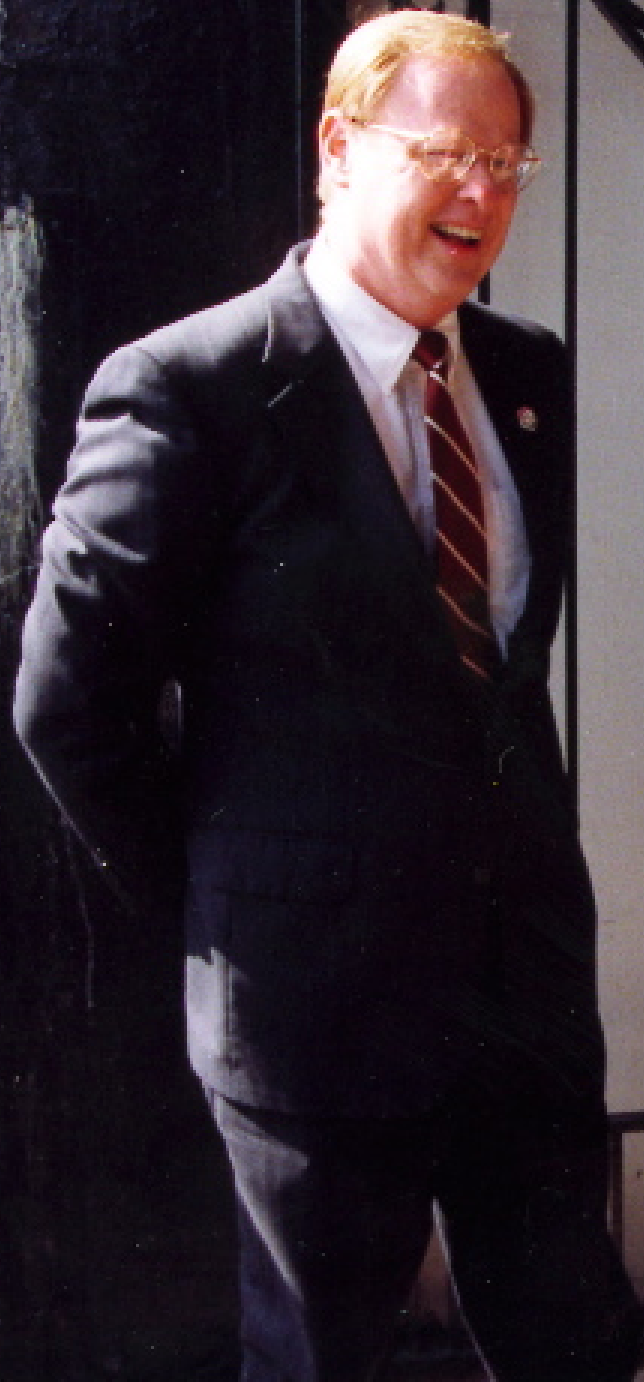
















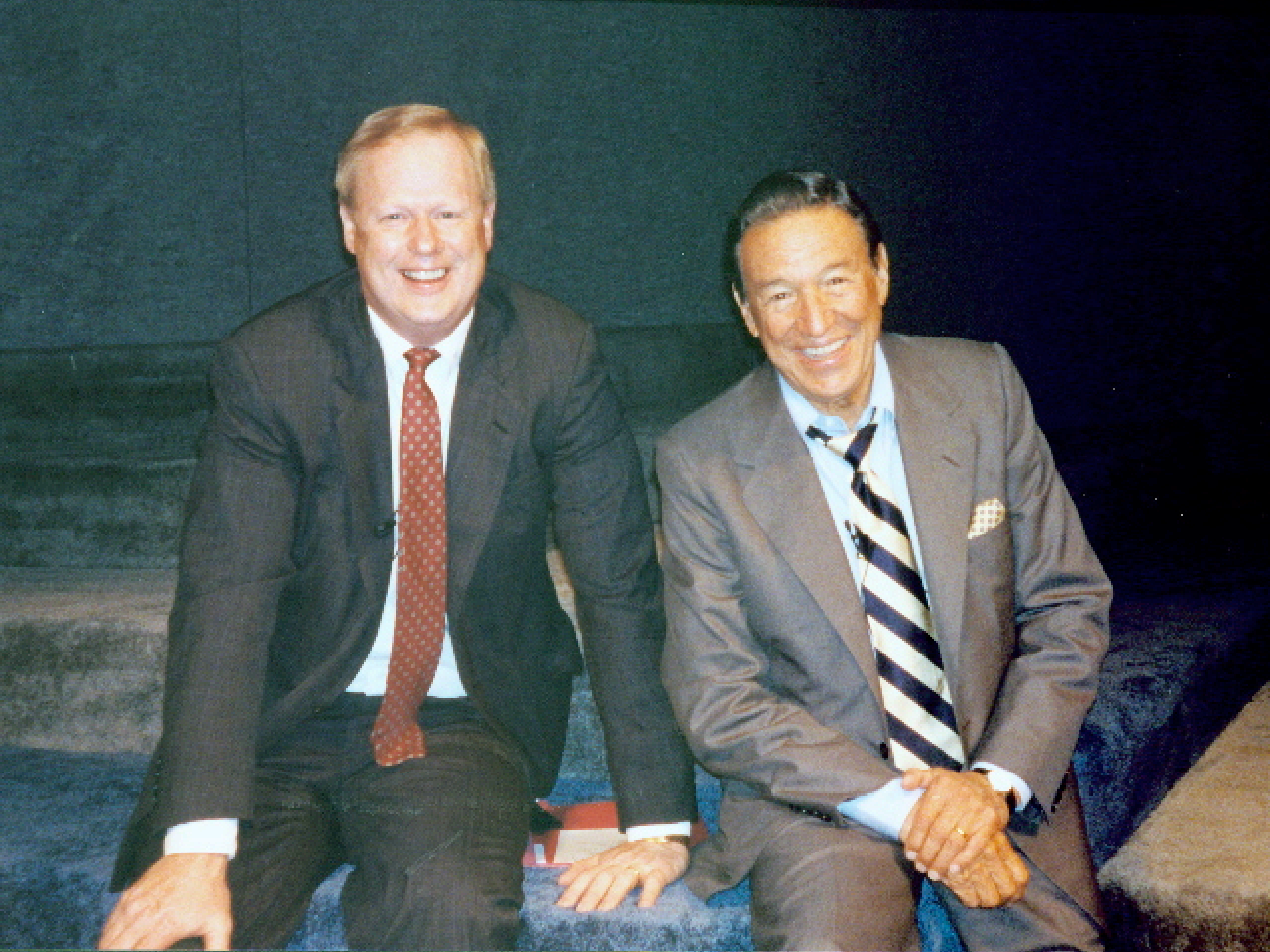


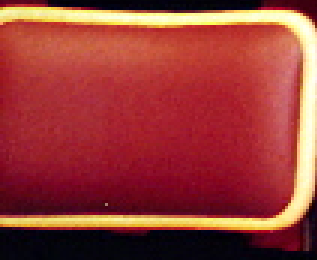
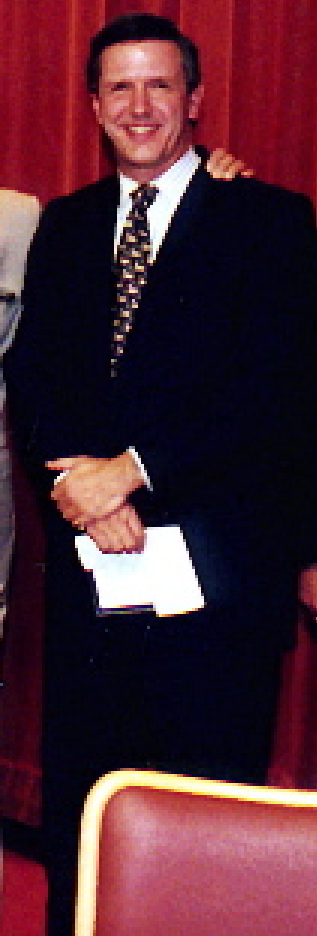
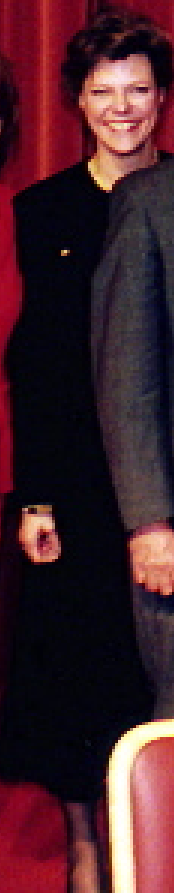
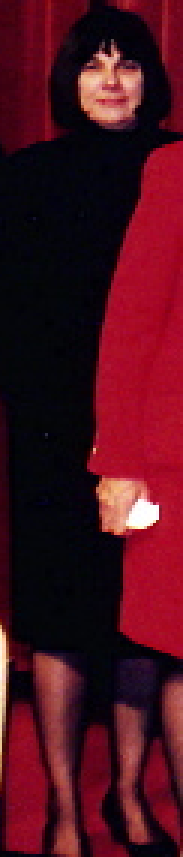
















































# **The guardian angel**



- Building private support to level 200
- state support
- New methods for resource allocation
- Asset management
- Development of human resources (
- Financing the University
- New market development
- ...

...creating a sense of adventure, risk  
...creating a sense of pride in,  
...  
...  
...  
...to the University of M

Tom Dyer



















*Friday June 21, 1996 at 11:30 am*

*Open house and tours*

*until 5:00 pm*

**P**lease join the  
*Michigan community  
for the dedication of the  
University of Michigan Media Union*















































MEDIA UNION

ATM  
↑

Carders and  
keys available  
for use in the  
Media Union

The Media  
Union is  
open 24 hours  
a day 7 days  
a week.

SUNY BOC  
State University of  
New York  
Borough of  
Brooklyn  
College of  
Community  
and Public  
Administration







coffee  
pastries  
soups  
snacks

Mujo

Menu board with text and images of food items.

Information board with text and graphics, including a logo and a small image of a person.













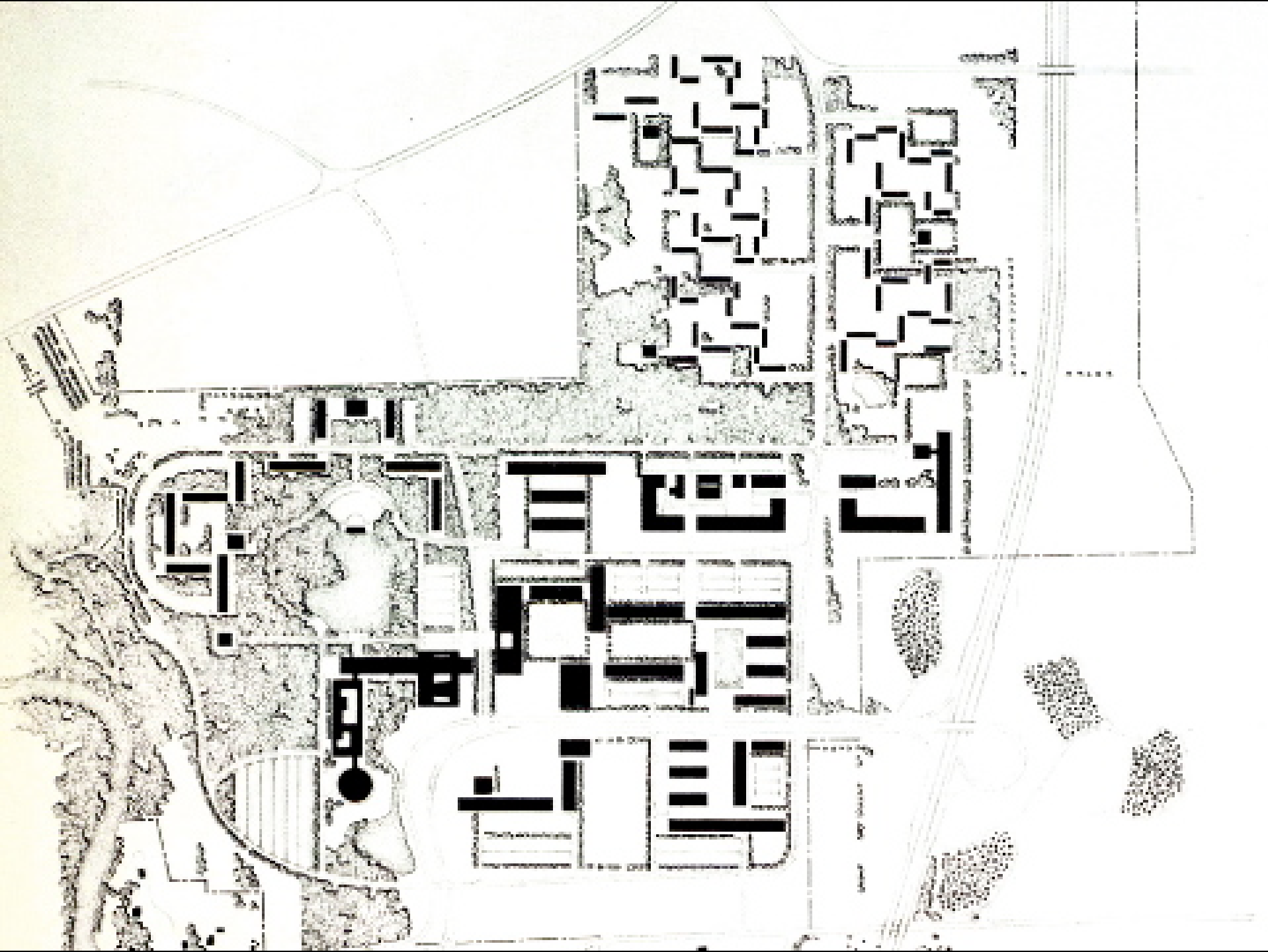


# **The Future of the North Campus**

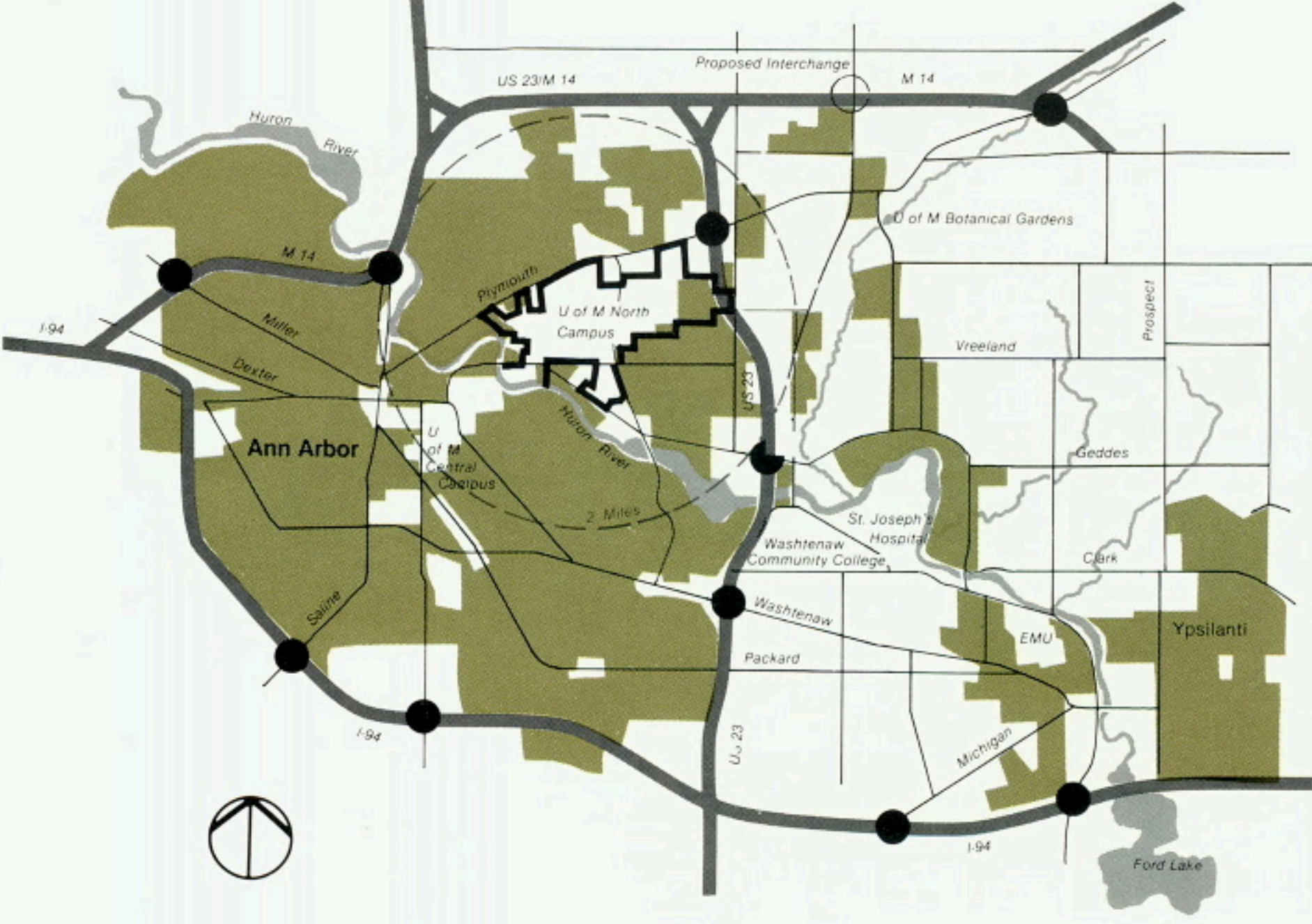




# **The Evolution of the Master Plan**







US 23/M 14

Proposed Interchange

M 14

Huron River

M 14

Plymouth

U of M North Campus

U of M Botanical Gardens

I-94

Miller

Dexter

Ann Arbor

U of M Central Campus

Huron River

2 Miles

US 23

St. Joseph's Hospital

Washtenaw Community College

Vreeland

Prospect

Geddes

Clark

Saline

Washtenaw

EMU

Ypsilanti

Packard

Michigan

I-94

US 23

I-94

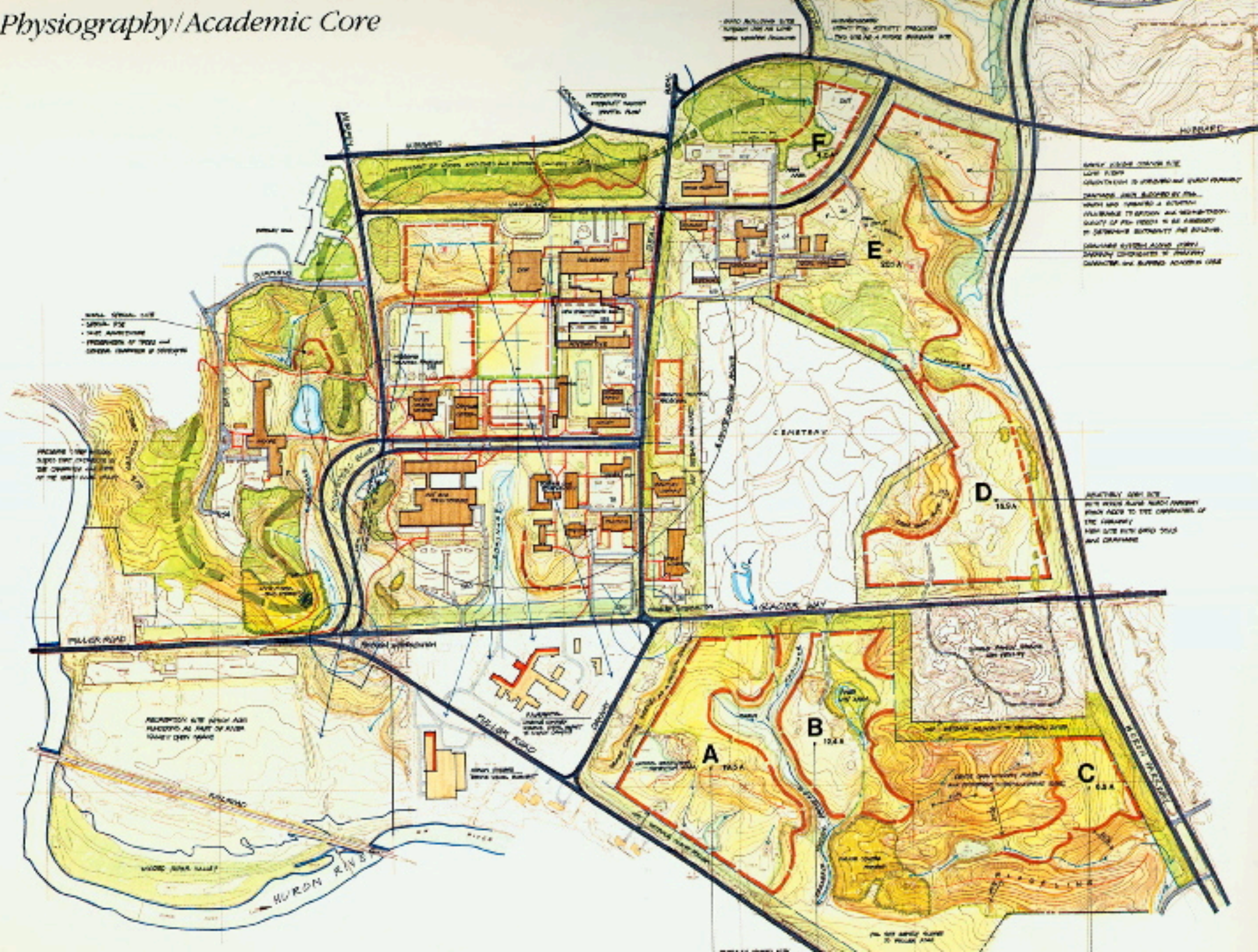
Ford Lake



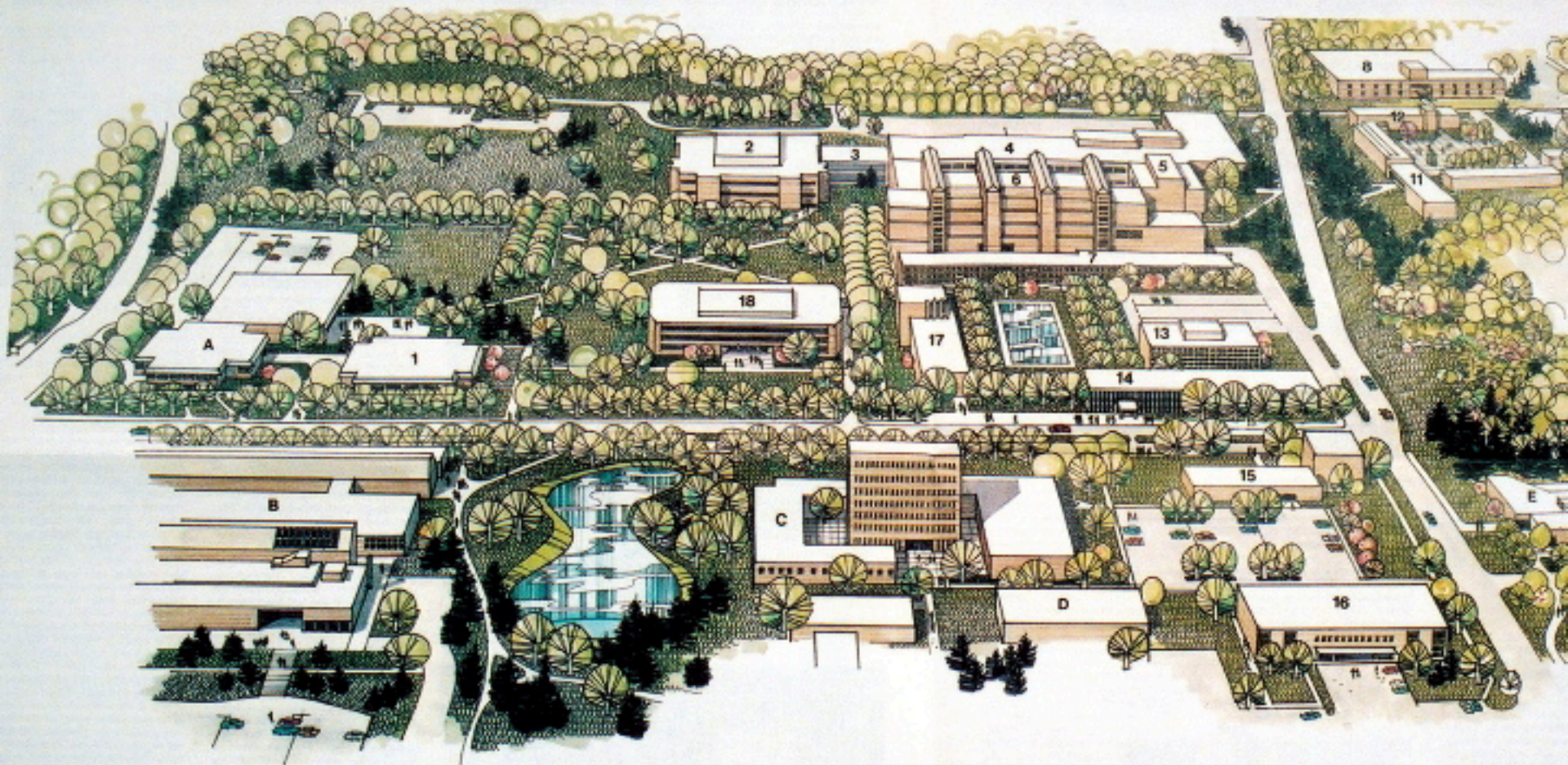




# Physiography/Academic Core



# The University of Michigan North Campus



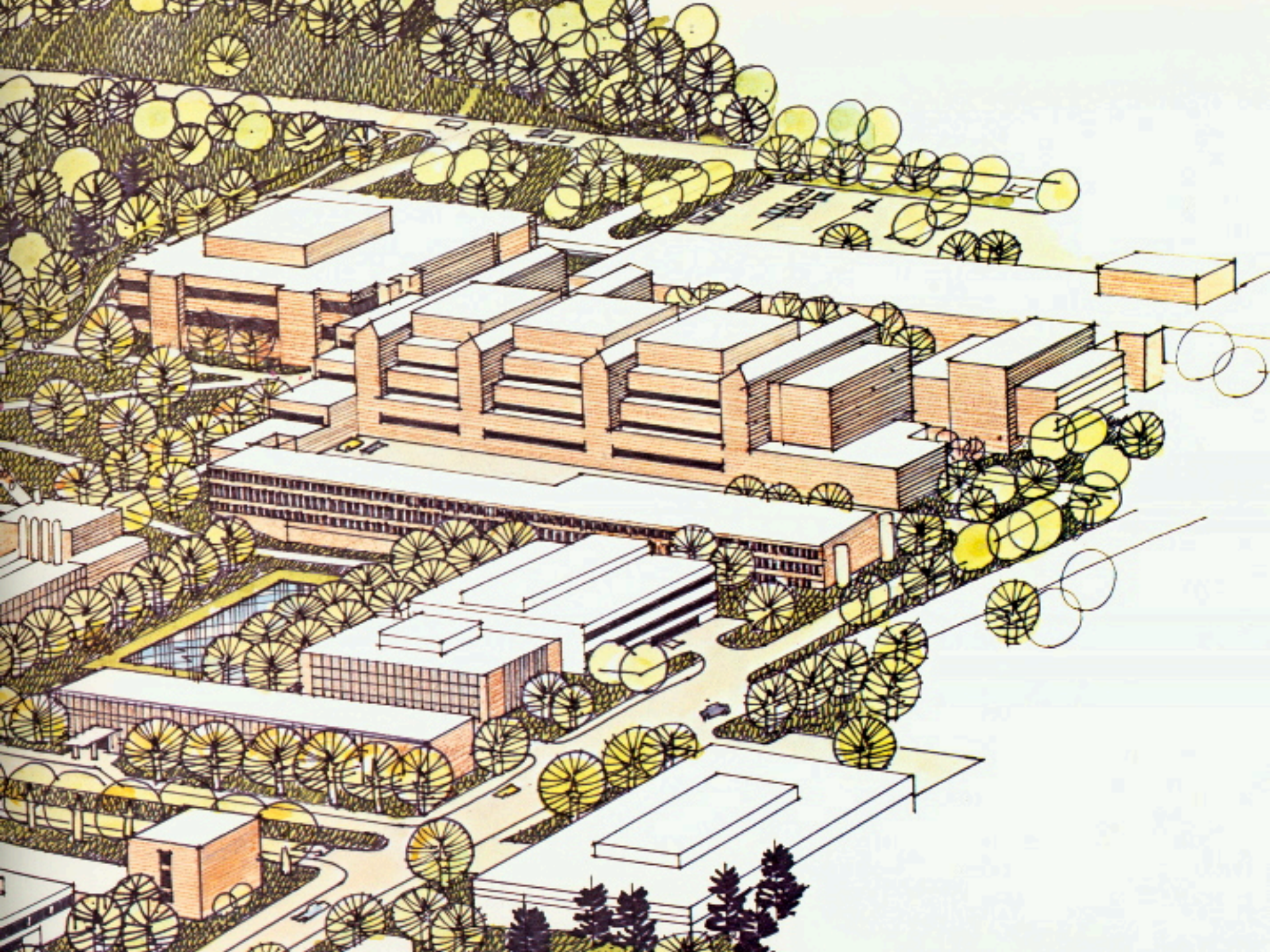
## COLLEGE OF ENGINEERING FACILITIES

- 1 Chrysler Center
- 2 Herbert H. Dow Building
- 3 Dow Connector (under construction)
- 4 George G. Brown Building
- 5 Engineering I/A Building
- 6 Electrical Engineering and Computer Science Building
- 7 Walter E. Lav Automotive Laboratory
- 8 Space Research Building
- 9 Naval Architecture and Marine Engineering Building
- 10 Aerospace Engineering Building
- 11 AEROSPACE CLASSROOMS AND RESEARCH LABORATORIES\*
- 12 Research Activities Building
- 13 Industrial and Operations Engineering
- 14 Mortimer S. Cooley Building
- 15 Technical Communications Building
- 16 Center for Research on Integrated Manufacturing Building
- 17 Phoenix Memorial Laboratory and Ford Research
- 18 NORTH CAMPUS LIBRARY\*  
(\*In Planning)


FUNDING	YEAR
Gifts	1966
Gifts	1983
Gifts & Univ	---
Federal	1957 (1964 Addition)
State	1975
State	1986
State & Gifts	1995
Federal & Univ	1985 (1988 Addition)
Federal & Gifts	1977 (1978 Addition)
Federal & Univ	1955 (1972 Addition)
Federal	1962
Univ	1983 (Assigned to College)
State	1953
Univ	1983 (Assigned to College)
Univ	To be occupied in 1987
Gifts	1965
---	---

## OTHER UM FACILITIES

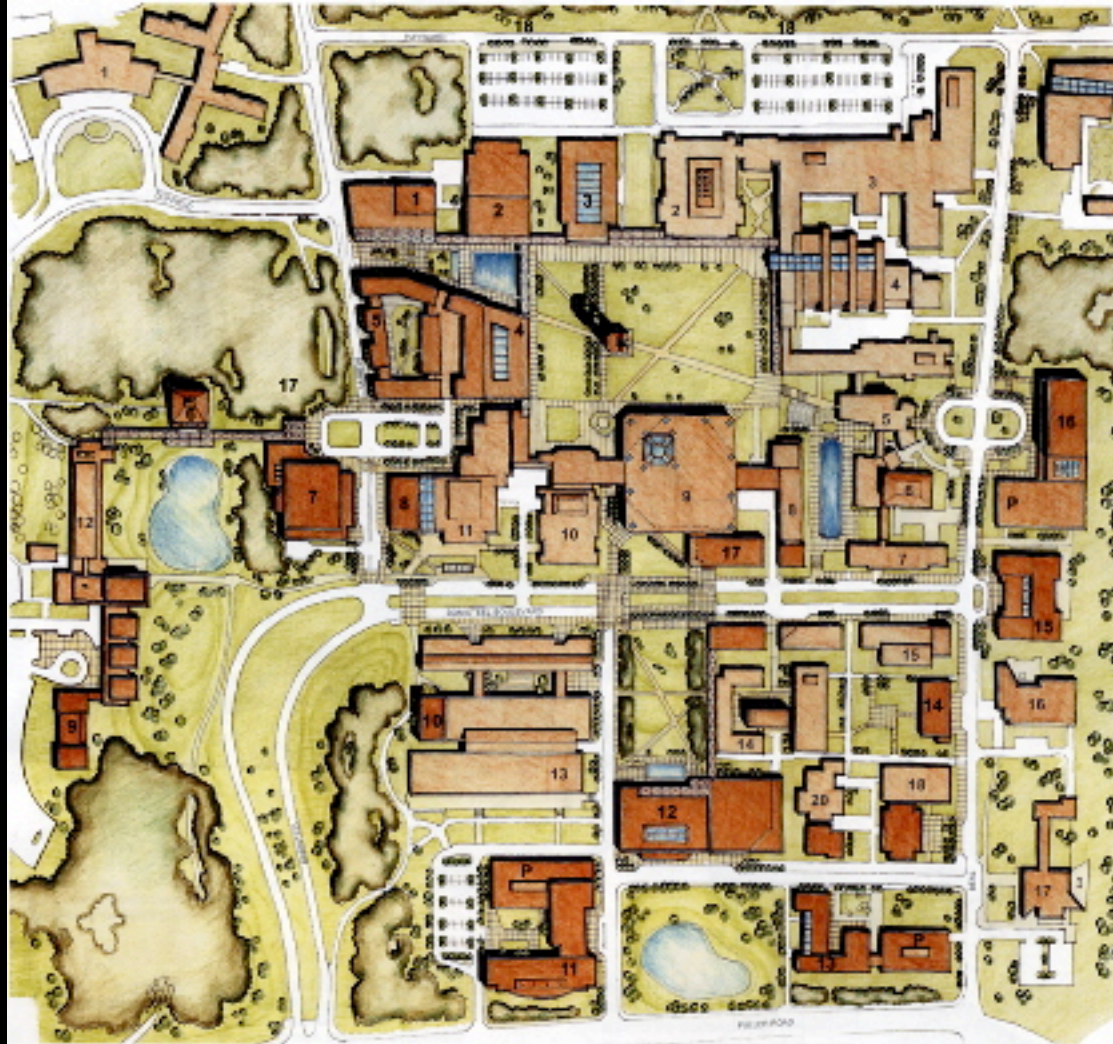
- A North Campus Commons (addition under construction)
- B Art and Architecture Building
- C Institute of Science and Technology Buildings
- D Computing Center
- E Bentley Historical Library







# **North Campus Redux ???**



### EXISTING

- |   |  |
|---|--|
| 1 Bursley Residence Hall                      | 12 Moore Music School                              |
| 2 H.H. Dow                                    | 13 Art and Architecture                            |
| 3 G.G. Brown                                  | 14 Institute of Science and Technology             |
| 4 Electrical Engineering and Computer Science | 15 Center for Display Technology and Manufacturing |
| 5 Lurie Engineering Center                    | 16 Bentley Library                                 |
| 6 Industrial and Operations Engineering       | 17 Ford Library                                    |
| 7 Cooley Laboratory                           | 18 Advanced Technology Laboratories                |
| 8 Phoenix Laboratory                          | 19 School of Information North                     |
| 9 Media Union                                 | 20 Computing Center                                |
| 10 Chrysler Center                            |  |
| 11 Pierpont Commons                           |  |

### PROPOSED

- |  |                               |
|--|-------------------------------|
| 1 Academic Building (TBD)                                | 9 Music School Extension      |
| 2 School of Information                                  | 10 Art and Architecture Tower |
| 3 Computer Science Building                              | 11 Hotel/Housing              |
| 4 Union/Rackham North                                    | 12 Convention Center          |
| 5 Residence Hall Over Retail                             | 13 Housing or Research        |
| 6 Al Faitha Meditation Space                             | 14 Academic Building (TBD)    |
| 7 Walgreen Center/Arthur Miller Theater with Retail Edge | 15 "Fleming Building"         |
| 8 Pierpont Commons Extension Over Retail                 | 16 "Wolverine Tower"          |
|  | 17 Site for Dance Center      |
|  | 18 Sites for Market Housing   |
|  | P Parking Structure           |

**PROPOSAL A**



### EXISTING

- |   |  |
|---|--|
| 1 Bursley Residence Hall                      | 12 Moore Music School                              |
| 2 H.H. Dow                                    | 13 Art and Architecture                            |
| 3 G.G. Brown                                  | 14 Institute of Science and Technology             |
| 4 Electrical Engineering and Computer Science | 15 Center for Display Technology and Manufacturing |
| 5 Lurie Engineering Center                    | 16 Bentley Library                                 |
| 6 Industrial and Operations Engineering       | 17 Ford Library                                    |
| 7 Godley Laboratory                           | 18 Advanced Technology Laboratories                |
| 8 Phoenix Laboratory                          | 19 School of Information North                     |
| 9 Media Union                                 | 20 Computing Center                                |
| 10 Chrysler Center                            |  |
| 11 Pierpont Commons                           |  |

### PROPOSED

- |   |                                   |
|---|-----------------------------------|
| 1 Residential Hall or Residential College | 10 Art and Architecture Extension |
| 2 Computer Science Building               | 11 "Wolverine Tower"              |
| 3 All Faiths Meditation Space             | 12 Convention Center              |
| 4 Union "Radkham North"                   | 13 Hotel, Housing, or Research    |
| 5 "Fleming Building"                      | 14 Sites for Market Housing       |
| 6 Walgreen Center/ Arthur Miller Theater  | P Parking Structure               |
| 7 School of Information                   |                                   |
| 8 Music School Extension                  |                                   |
| 9 Art and Architecture Tower              |                                   |

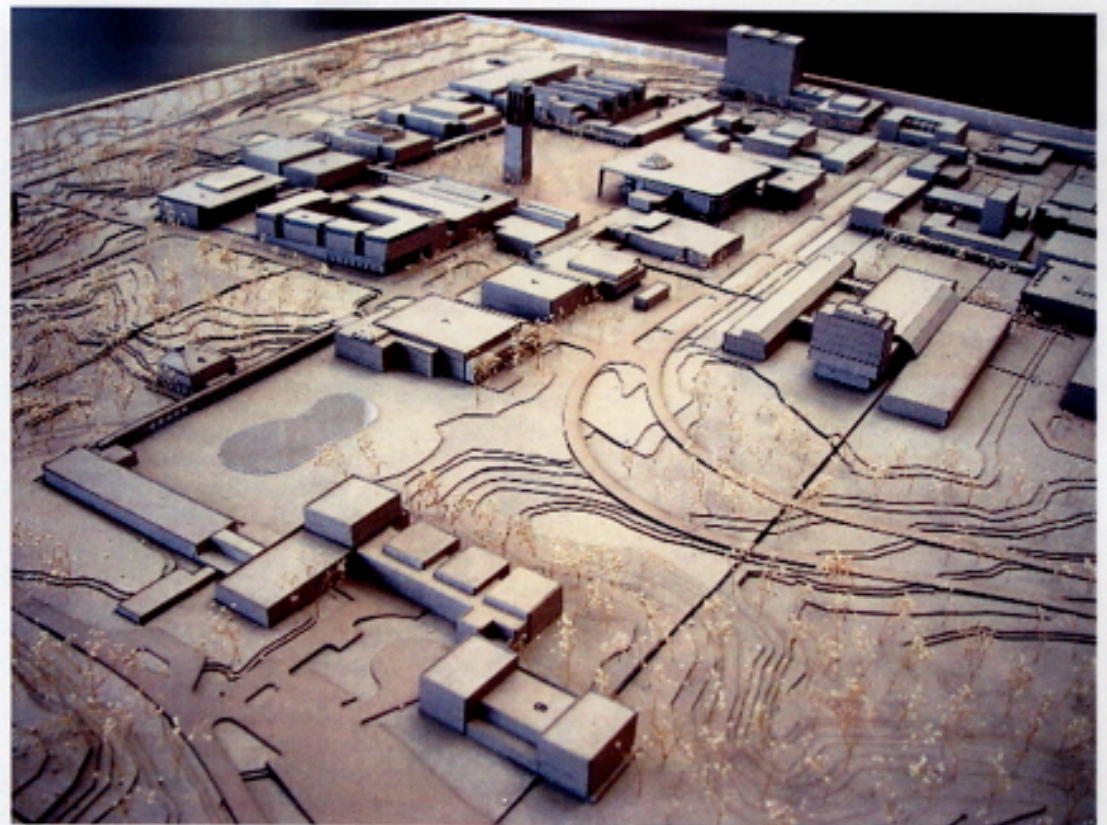
**PROPOSAL B**

## EXISTING

- |    |   |    |   |
|----|---|----|---|
| 1  | Bursley Residence Hall                      | 13 | Art and Architecture                            |
| 2  | H.H. Dow                                    | 14 | Institute of Science and Technology             |
| 3  | G.G. Brown                                  | 15 | Center for Display Technology and Manufacturing |
| 4  | Electrical Engineering and Computer Science | 16 | Bentley Library                                 |
| 5  | Lurie Engineering Center                    | 17 | Ford Library                                    |
| 6  | Industrial and Operations Engineering       | 18 | Advanced Technology Laboratories                |
| 7  | Cooley Laboratory                           | 19 | School of Information North                     |
| 8  | Phoenix Laboratory                          | 20 | Computing Center                                |
| 9  | Media Union                                 |    |   |
| 10 | Chrysler Center                             |    |   |
| 11 | Pierpont Commons                            |    |   |
| 12 | Moore Music School                          |    |   |

## PROPOSED

- |    |  |
|----|--|
| 1  | Academic Building (TBD)                                |
| 2  | School of Information                                  |
| 3  | Computer Science Building                              |
| 4  | Union/"Rackham North"                                  |
| 5  | Residence Hall Over Retail                             |
| 6  | All Faiths Meditation Space                            |
| 7  | Walgreen Center/Arthur Miller Theater with Retail Edge |
| 8  | Pierpont Commons Extension Over Retail                 |
| 9  | Music School Extension                                 |
| 10 | Art and Architecture Tower                             |
| 11 | Hotel/Housing  |
| 12 | Convention Center                                      |
| 13 | Housing or Research                                    |
| 14 | Academic Building (TBD)                                |
| 15 | "Fleming Building"                                     |
| 16 | "Wolverine Tower"                                      |
| 17 | Site for Dance Center                                  |
| 18 | Sites for Market Housing                               |
| P  | Parking Structure                                      |



*View to the northeast.*



*Walking southeast on the "Diag."*



*View north toward the School of Music pond.*

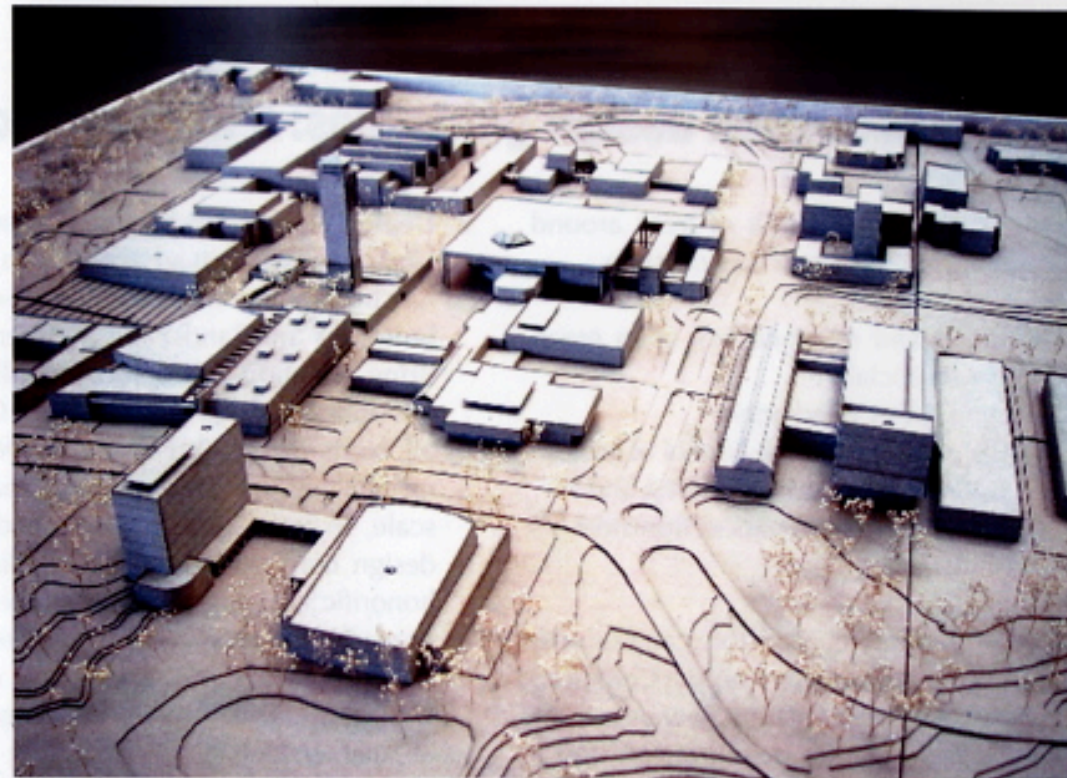


## EXISTING

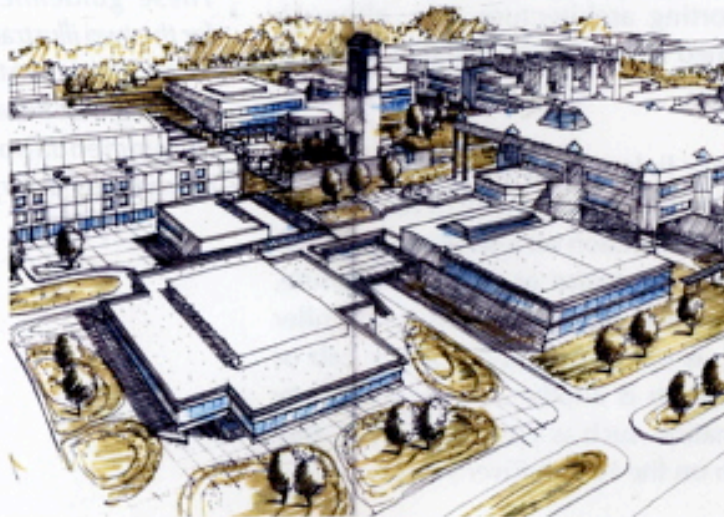
- |   |  |
|---|--|
| 1 Bursley Residence Hall                      | 13 Art and Architecture                            |
| 2 H.H. Dow                                    | 14 Institute of Science and Technology             |
| 3 G.G. Brown                                  | 15 Center for Display Technology and Manufacturing |
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| 5 Lurie Engineering Center                    | 17 Ford Library                                    |
| 6 Industrial and Operations Engineering       | 18 Advanced Technology Laboratories                |
| 7 Cooley Laboratory                           | 19 School of Information North                     |
| 8 Phoenix Laboratory                          | 20 Computing Center                                |
| 9 Media Union                                 |  |
| 10 Chrysler Center                            |  |
| 11 Pierpont Commons                           |  |
| 12 Moore Music School                         |  |

## PROPOSED

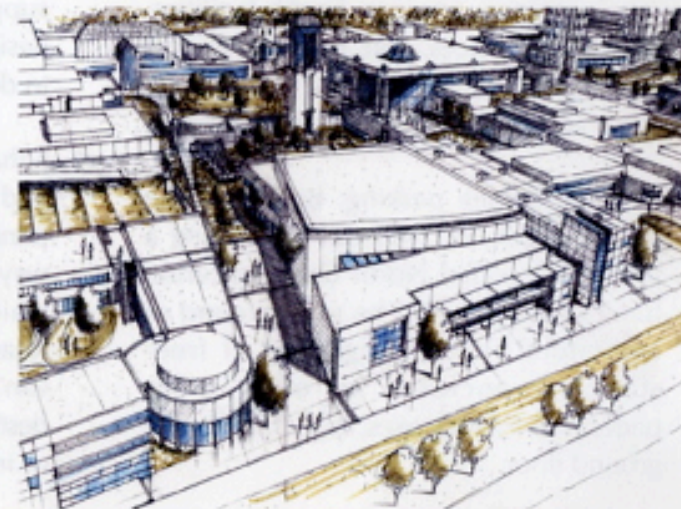
- |   |
|---|
| 1 Residential Hall or Residential College |
| 2 Computer Science Building               |
| 3 All Faiths Meditation Space             |
| 4 Union/"Rackham North"                   |
| 5 "Fleming Building"                      |
| 6 Walgreen Center/ Arthur Miller Theater  |
| 7 School of Information                   |
| 8 Music School Extension                  |
| 9 Art and Architecture Tower              |
| 10 Art and Architecture Extension         |
| 11 "Wolverine Tower"                      |
| 12 Convention Center                      |
| 13 Hotel, Housing, or Research            |
| 14 Sites for Market Housing               |
| P Parking Structure                       |



*View to the east.*



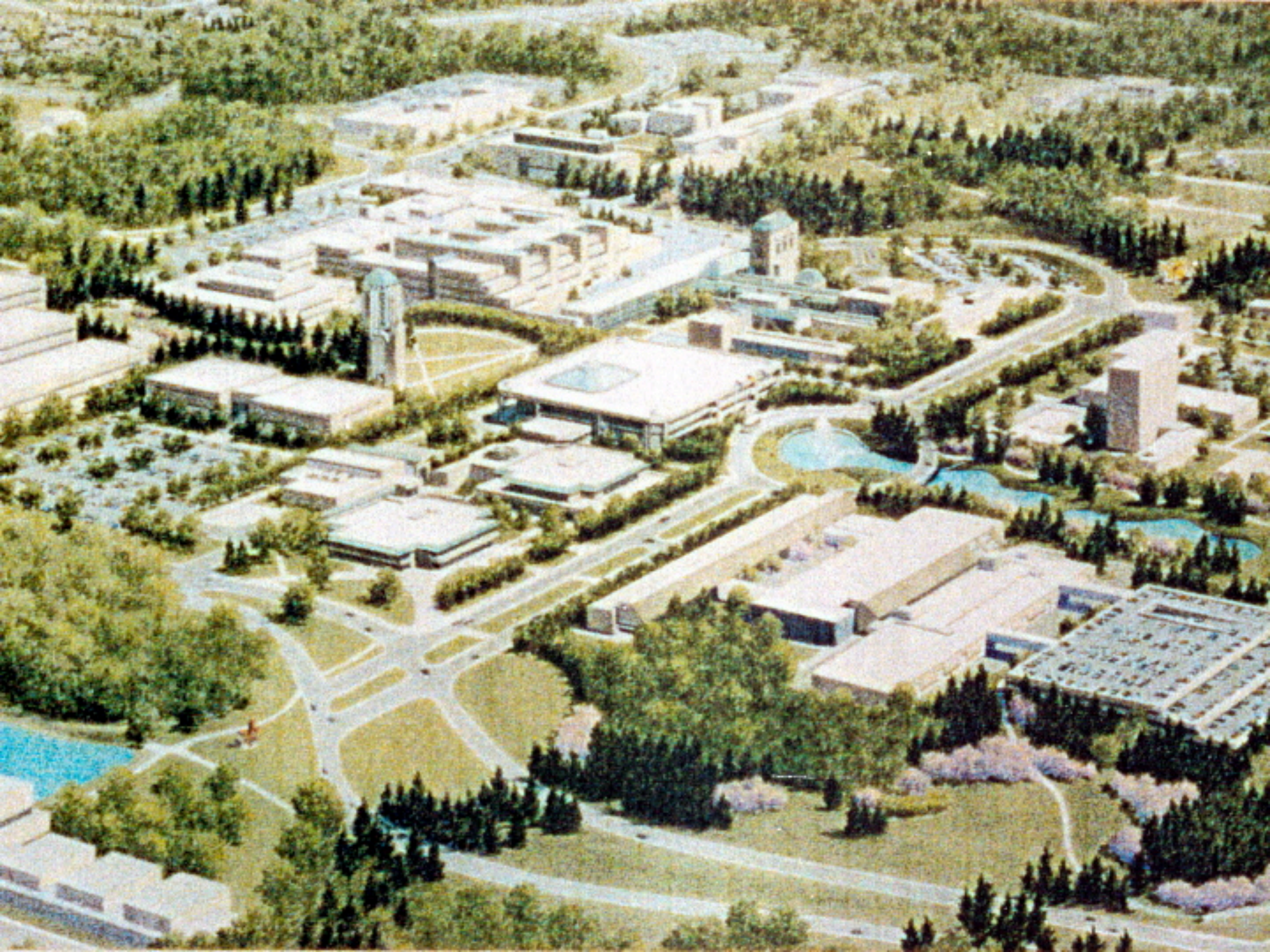
*Looking over Pierpont Commons to "Diag."*

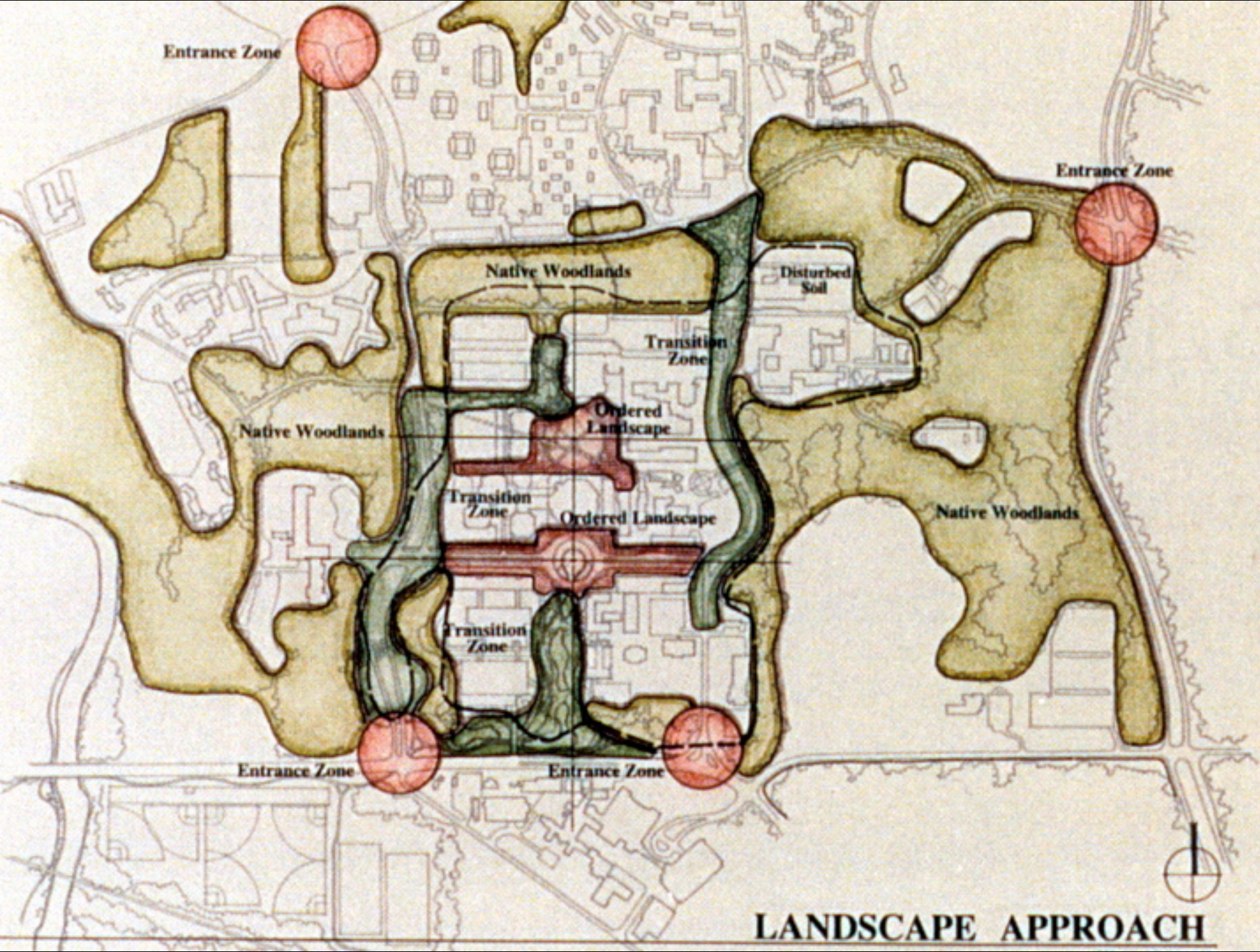


*Looking toward "Diag" between new residential hall on the left and new "superunion" on the right.*



# **The North Woods Master Plan**





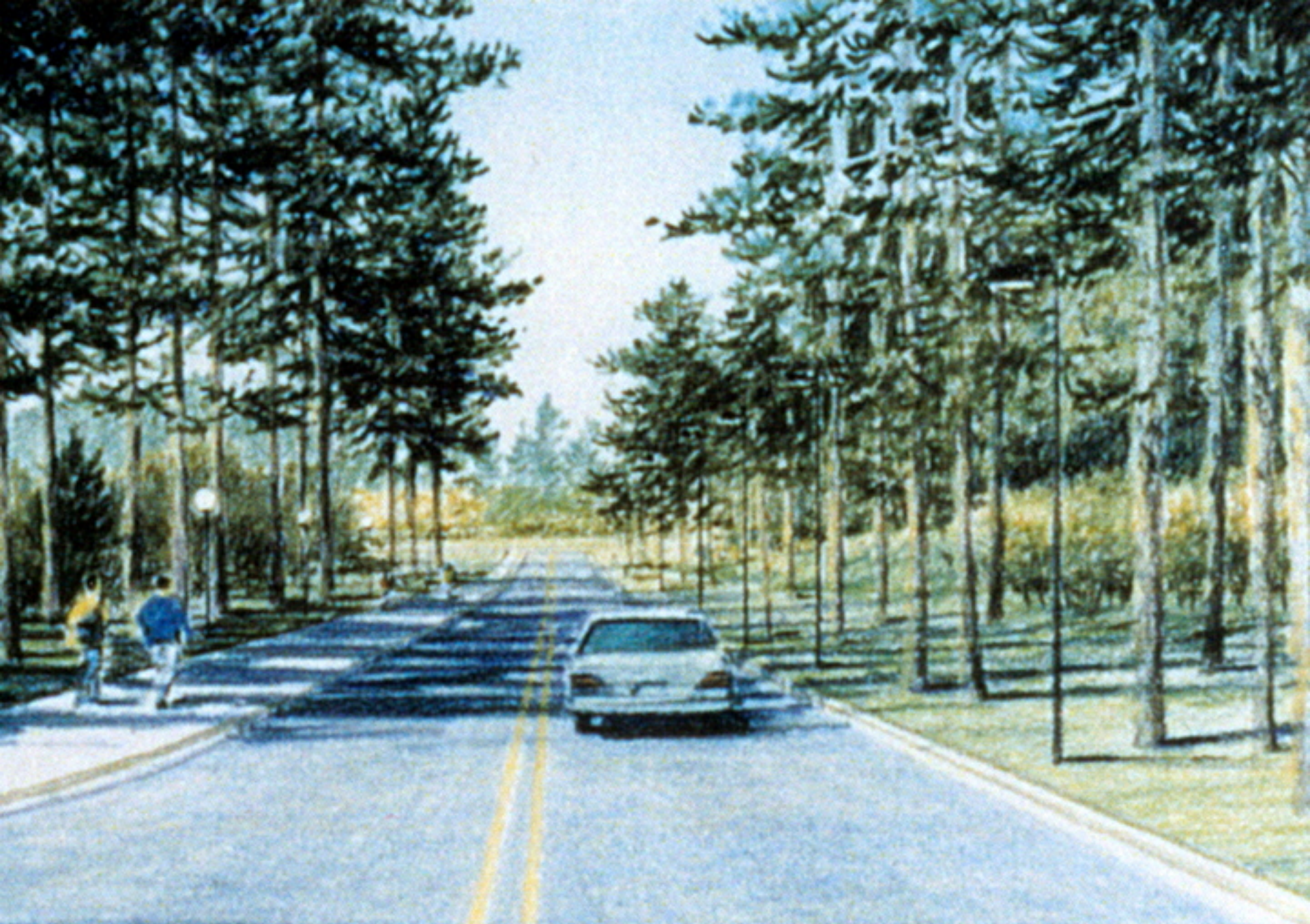
**LANDSCAPE APPROACH**



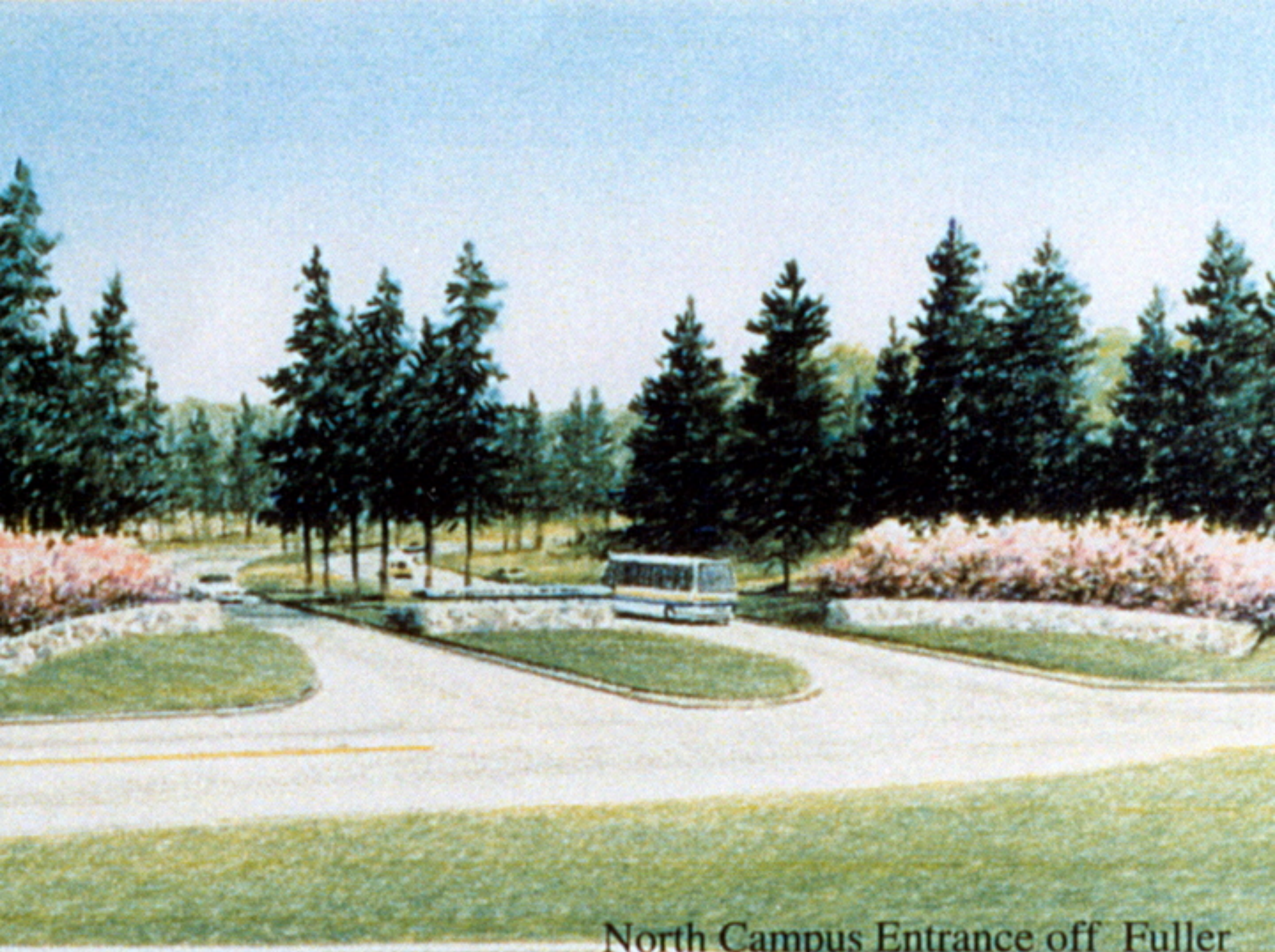
View into "The Clearing" from under bosque



View North through "The Glen"

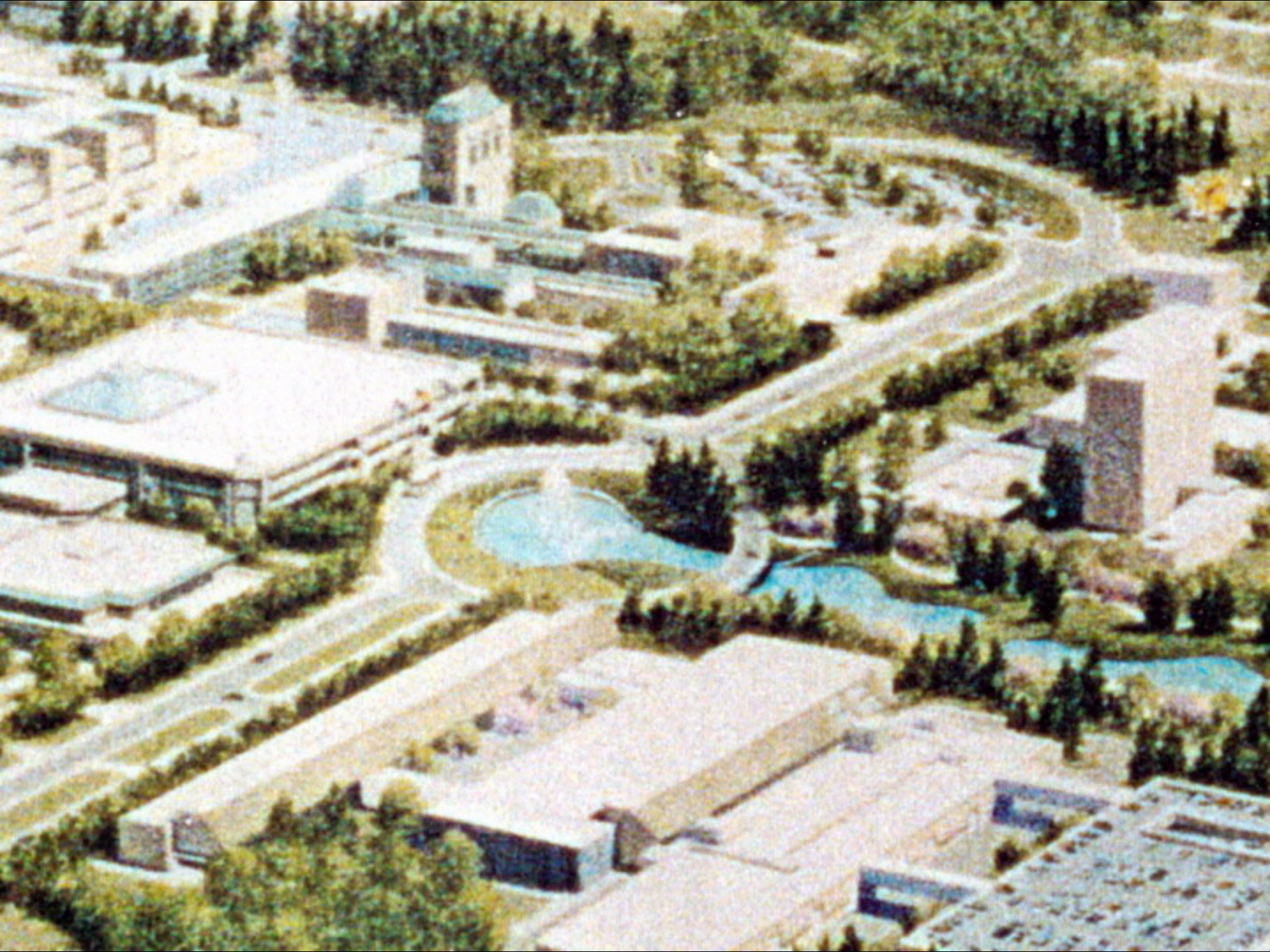


View down Hayward Through "Woodland"



North Campus Entrance off Fuller







Aerial view of "The Circle"