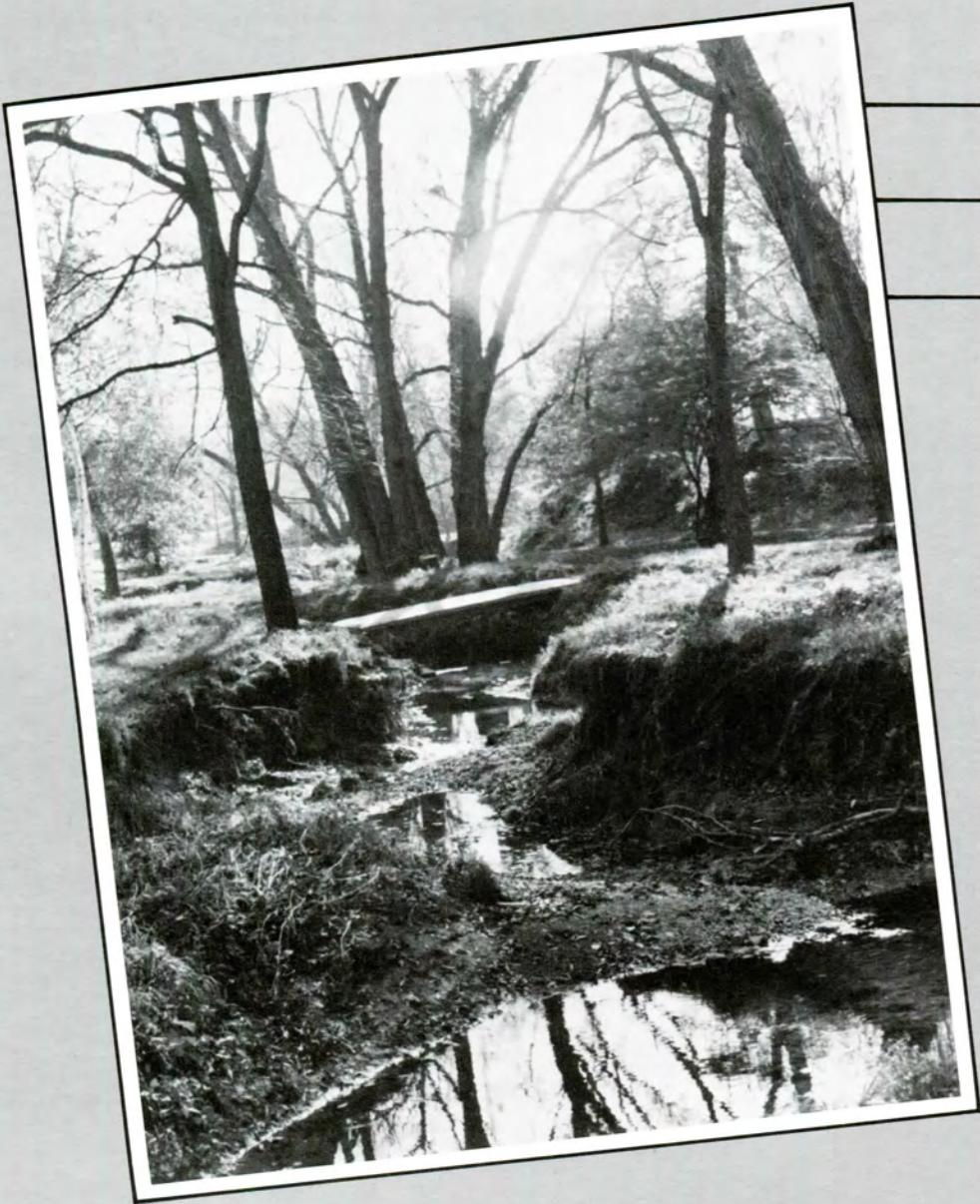


# *L-Book 1984*

*Lawrence Institute of Technology*





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Although every effort has been made to assure an accurate publication, the listing of graduates and faculty contained herein may be incomplete. In addition, inclusion of student portraits does not necessarily guarantee subsequent graduation from the College.





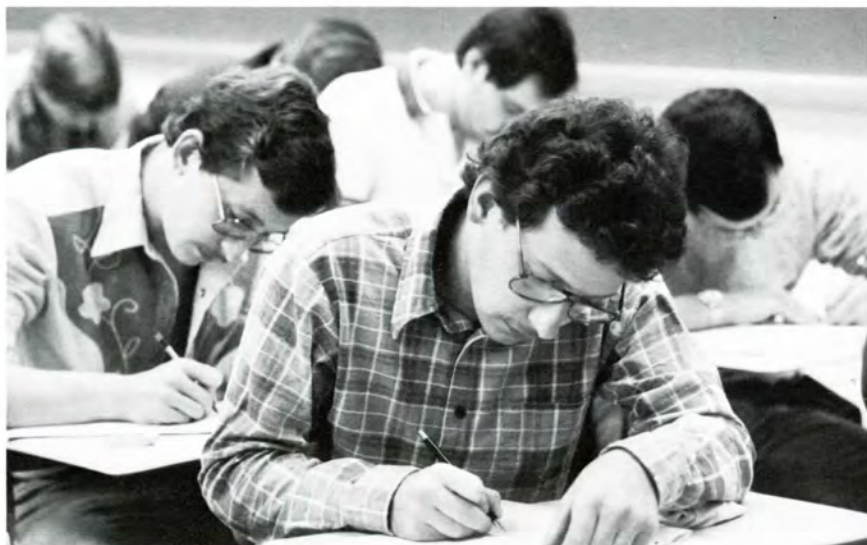


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# *Reflections*















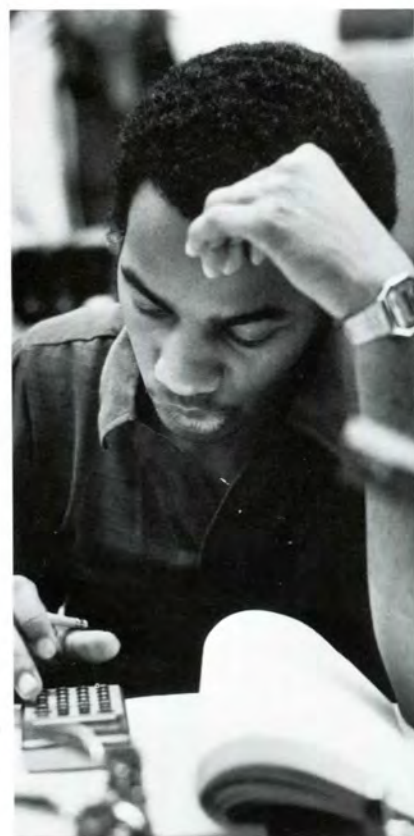




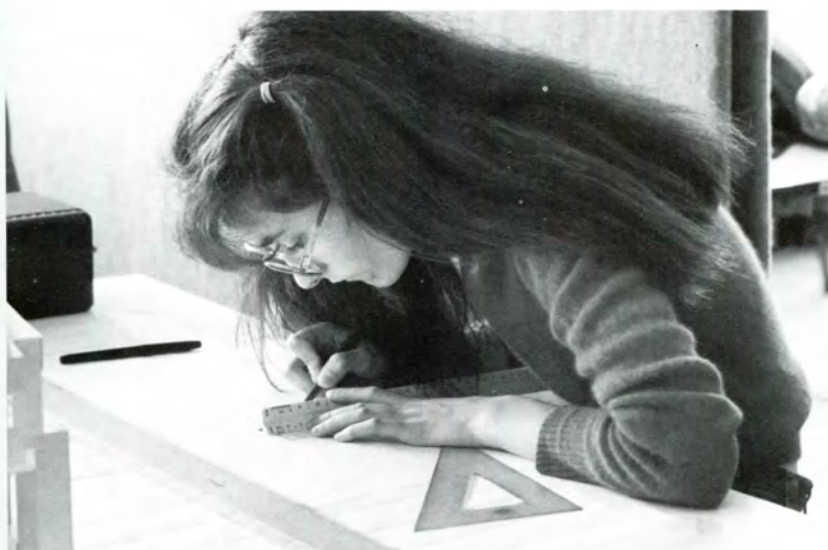








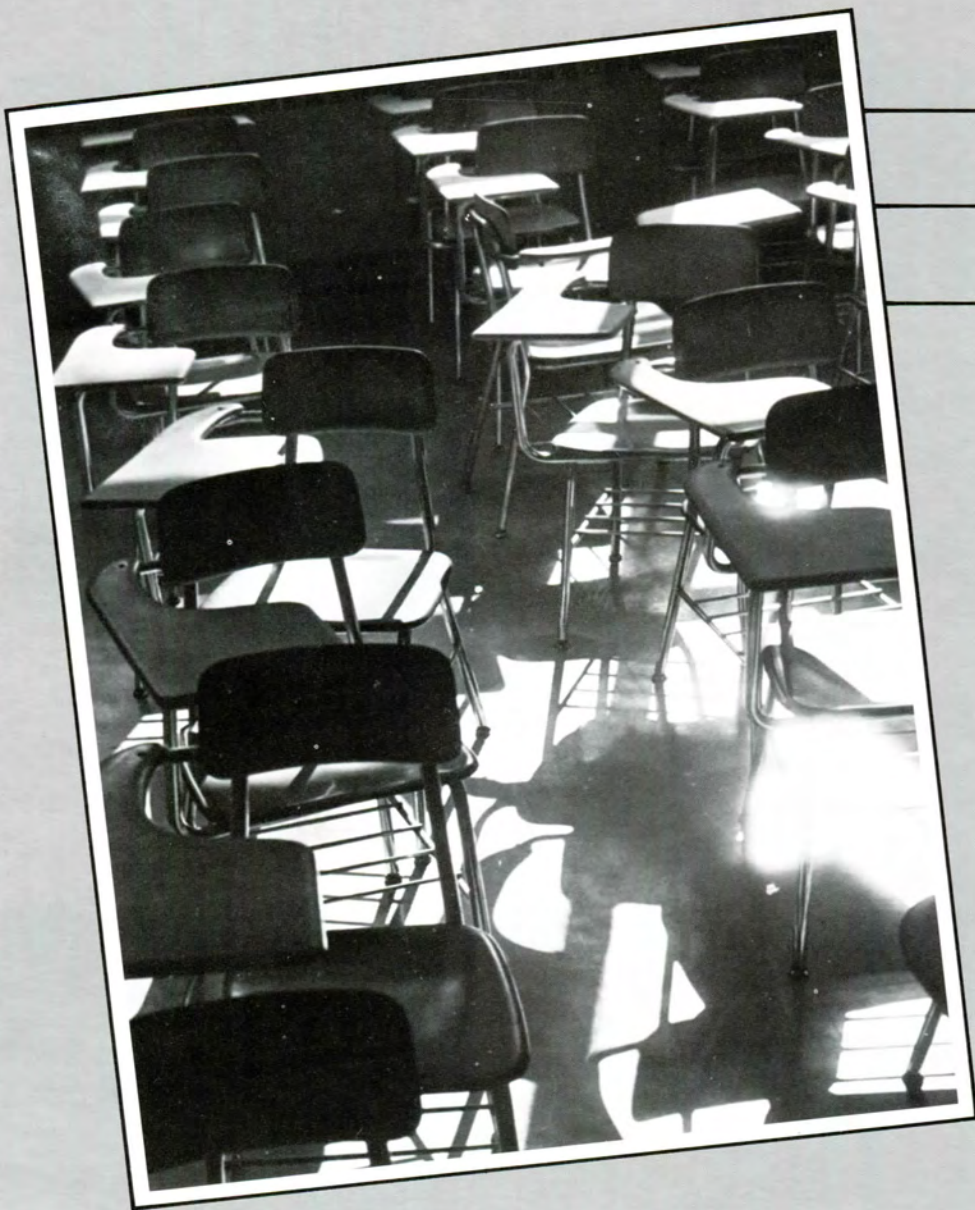














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*Groups*



## Black Engineering Students Association

### **Kneeling (left to right)**

Delores Randolph, Demetria Evans,  
Toni King, James Thomas,  
Terry Thomas, Toi Johnson

### **Standing**

Chukindi Nnaji, Rene Jefferson,  
W. Brian Murphy, Larry Campbell,  
Denise Martin, Bruce Anderson,  
Shawn James, Akeita DuPree,  
Roy Kimbrough, Craig Lofton,  
Cynthia Robinson, Jerome Edmonds,  
Travis Wade

## American Society of Mechanical Engineers







## Association for Systems Management

### **Front Row (left to right)**

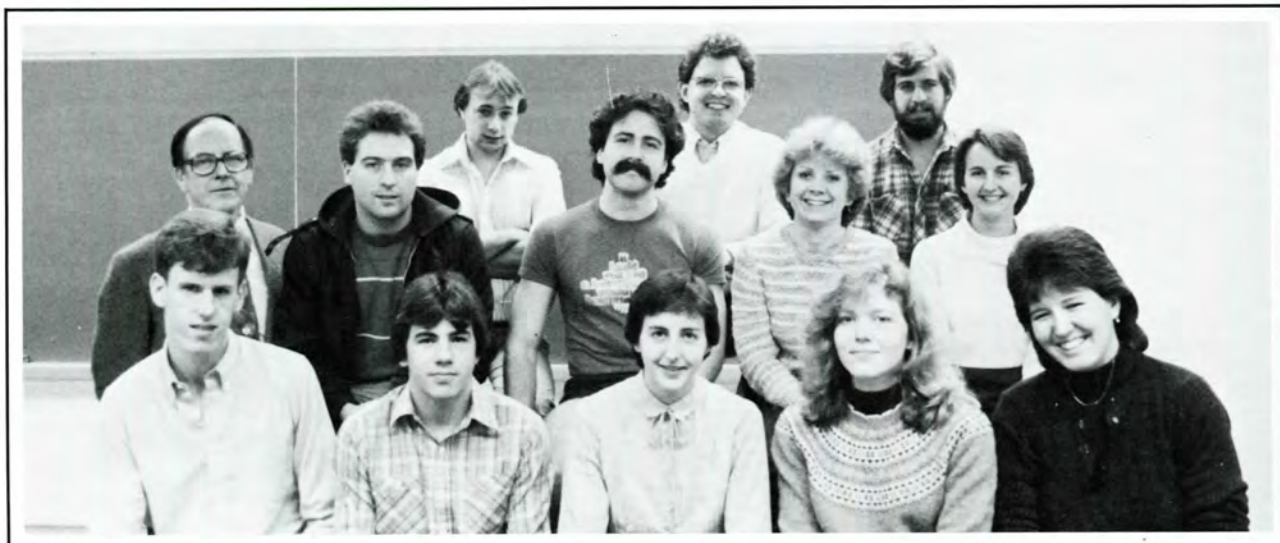
Sheryl Jarney, Sue Haschke,  
Lita Kaufmann, Leah Jensen,  
Ramona Petro, Connie Wittorp,  
Janine Bernier

### **Back Row**

Larry Mumford, Tom Wojno,  
Frank Ferguson, Marcia Thompson,  
Juli Johnson, Rob Grden,  
Douglas Wood

## Association of General Contractors





## Society of Physics Students

### Eta Kappa Nu

#### **Kneeling (left to right)**

William Carter, Doug Thacker,  
Paul Mackalski, Norm Caramagno,  
Greg Dahlin

#### **Standing**

Gary Walker, Ken Moore,  
Edward Boris, Barbara Beach,  
Laura Vogel, Richard Kerr,  
Kenneth Winczner, Bill Tabor,  
Mark Kaloustian







## Phi Beta Sigma

### **Kneeling (left to right)**

Stephen Fairclough, Clinton Adams,  
Adwine Poku

### **Standing**

Shaun McGhee, Debbie Gilbert,  
Levette Abrams, Monique Hiliard,  
Byron Todman, Angelia Williams,  
Gregory Screws

## Society of Women Engineers





## American Production and Inventory Control Society

## Data Processing Management Association

### Front Row (left to right)

Lita Kaufmann, Sheryl Janney, Connie Wittorp, Ramona Petro, Janine Bernier

### Back Row

Larry Mumford, Tom Wojno,  
Marcia Thompson, Sue Haschke,  
Juli Johnson, Frank Ferguson,  
Douglas Wood







## Delta Tau Sigma

### Front Row (left to right)

Michele Beyer, Sue Kirkham,  
Colleen Carlsen, Leslie Wolf

### Second Row

Karen Kangas, Eva Meyer,  
Cheryl Pellow, Sue DiCosmo,  
Laura Vogel, Kristy Killian,  
Patti Glaser

### Back Row

Karen Partalis, Carol Drabing,  
Fran Neijndorf, Gay Gillesby,  
Mary Ann Dogu

## Student Government





## American Institute of Architects

### Tech News

#### Front Row

Pete Ziegenfelder

#### Kneeling (left to right)

Mike Meagher, Steve Shahinian,  
Sam Bellestri, Neil Ruff

#### Standing

Ursula Marinelli, Nancy Evans,  
Heidi Choss, Gregory Bernard,  
Eva Mayer, Lenore Gollob,  
Judy Milosic







## Chi Omega Rho

### American Chemical Society

#### Front Row (left to right)

Alicia Easton, Nancy Evans,  
Sandra Bartenbach, Kathy Beamish,  
Ann Fecteau, Nicole Villeneuve

#### Second Row

James McGowan, Lee Ann Porter,  
Tom Ciesla, Phil Meister,  
Paul Stumpo, David Phelps,  
Dr. J. L. Crist

#### Back Row

Steve Shahinian, Kari Evina,  
William Everham, Chuck Swanson





## Alpha Sigma Phi

### Front Row (left to right)

Bob Gruszczynski, Tony Smith,  
Steve Borlace, Kevin Smith,  
Mark Silko, David Gurjack,  
Pete Ziegenfelder, David Baehr,  
Fred Castator, Gary Paige,  
Paul Krutsch, George Weaver,  
Pat King, Dwayne Sklar

### Back Row

Mark Hampton, Steve Shahinian,  
John Schiszler, Bob Vieracker,  
Tom Misuraca, Brian Elzerman,  
John Boomer

## Phi Kappa Upsilon

### Front Row (left to right)

Pete Barclae, Dave Darbyshire,  
Paul Pompilius, Bruce Trojanowski,  
Mike Schwanz, Dwayne Berger

### Second Row

Larry Dano, Dale Hartford,  
Mike Gignac, Keith Bradley,  
Ed Darbyshire, Neil Ruff

### Back Row

Mike Muddahla, Herb Bondy,  
Leonard Darbyshire, Craig Uphaus,  
Todd Maciejewski







## LAMBDA IOTA TAU

### **First Row (left to right)**

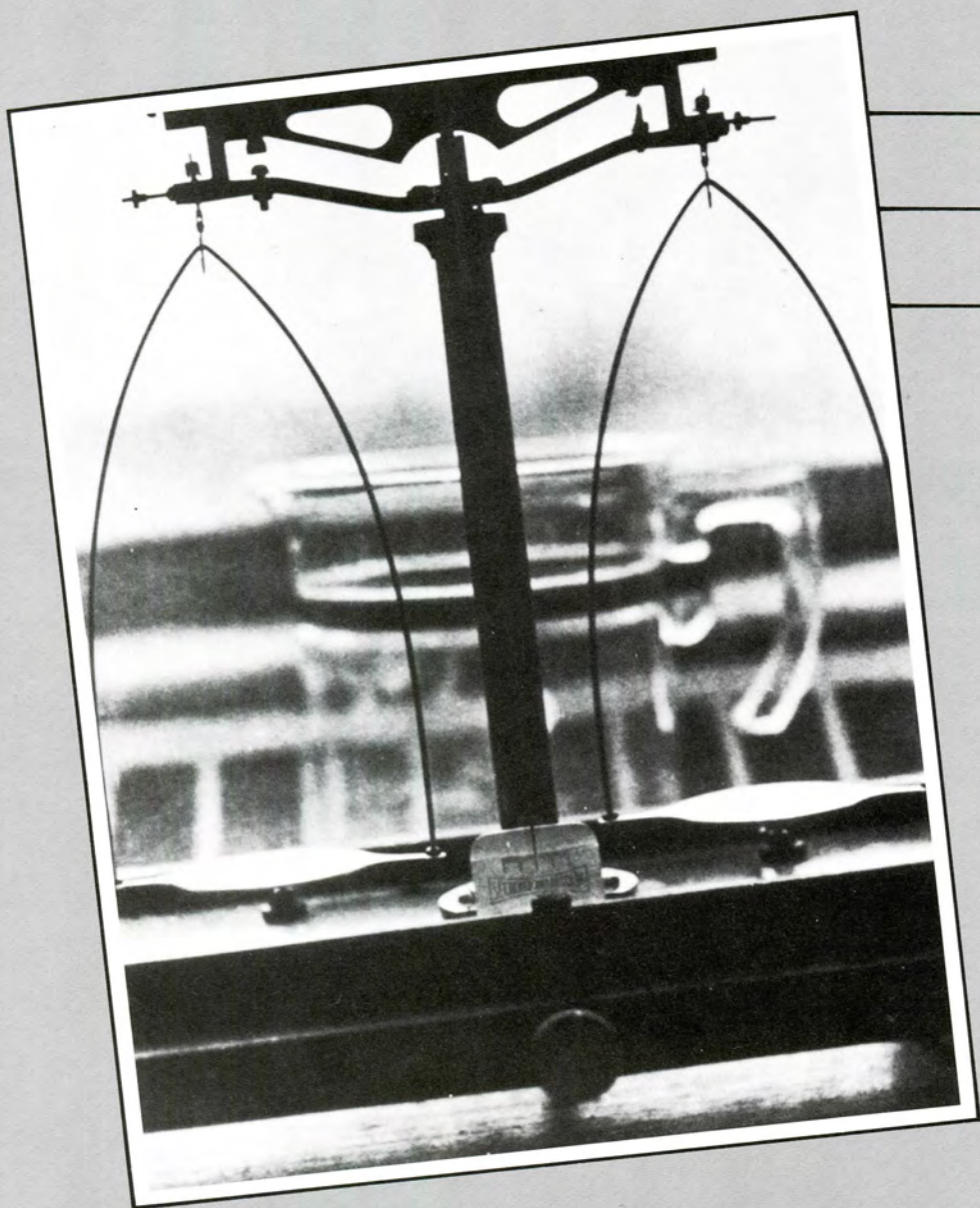
Mary Golla  
William Broeder  
Laura Vogel  
Theresa Oldford  
Connie Wittorp  
Barbara Coyle  
Nancy Evans  
Kari Evina  
Neil Ruff

### **Second Row (left to right)**

Michael Joseph  
John Ninotti  
Redentor Galang  
David Jarrell  
Brian Stebar  
Richard Smith  
Patrick Rood  
Brian Arness  
Steven Westrick  
Larry Denecker

### **Back Row (left to right)**

Ken Waligora  
Harry Asher  
Kevin Leppek  
Michael Applebee





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# *Faculty and Administration*

# Administration

**Richard E. Marburger**  
chairman, president, and chief  
executive officer  
**G. Robert Harrington**  
vice president for development

**Bruce J. Annett, Jr.**  
director of college relations and  
alumni services  
**Jack Armstrong**  
director of campus facilities  
**Eugenie Beall**  
special projects administrator  
**Walter G. Bizon**  
photographer/audiovisual  
coordinator

**Cynthia S. Blank**  
development secretary  
**Shirley R. Bolin**  
student activities secretary  
**Ruth Bressler**  
bookstore cashier  
**Beulah M. Buck**  
registrar

**Dorothy H. Clark**  
admissions counselor  
**Gary Cocozzoli**  
director of the library  
**Oliver S. Coleman**  
special project administrator  
**Jerry Cuper**  
admissions counselor, lecturer in  
mechanical engineering  
technology







**Frank E.P. deHesselle**  
director of international student affairs

**Margaret DeMarois**  
admissions secretary

**Debbie Faes**  
college relations and alumni services secretary

**Mary Fergestrom**  
accounts payable

**Marilyn Fullerton**  
registrar's assistant

**Joan Geha**  
business affairs cashier

**Kathy Gilman**  
admissions secretary

**John Grden**  
director of computer center

**Stanley F. Harris**  
director of admissions

**Marianne Hipp**  
librarian

**Rosemary Hodges**  
executive assistant to the president

**Ted Holloway**  
campus facilities security

**Elizabeth Hood**  
library circulation

**Grace Hood**  
library secretary

**John F. Hurley**  
campus facilities security

**Melvin L. Janney**  
director of business affairs

**Glen Johnstone**  
assistant director of computer center

**Gary Joppich**  
admissions counselor

**Timothy Kennedy**  
admissions counselor

**Ellenore Kent**  
veterans affairs coordinator

**Paul F. Kinder**  
director of student financial aid

**Ramona Kolanek**  
business affairs secretary

**Pomeroy Ladue**  
business affairs cashier

**Samuel F. Lewis**  
business affairs accounts receivable accountant



**Ann Liska**  
assistant registrar  
**Patty Lukemire**  
international student affairs  
secretary  
**Kathleen McBroom**  
inter-loan and reference  
librarian  
**F. Hal McDavid**  
director of placement and  
assistant to the dean for  
associate studies



**Carol Mills**  
switchboard operator  
**Judith Milosic**  
assistant director of business  
affairs  
**Lewis Moon**  
director of counseling and  
student activities  
**Eileen M. Mulhare**  
development officer



**Margaret Mulholland**  
campus facilities secretary  
**Diane Nagelkirk**  
graphics assistant  
**Jeanine Nassaux**  
bookstore cashier  
**Gail Nastwold**  
bookstore manager



**Beverly Neilsen**  
staff assistant, academic affairs  
office  
**Karen Partalis**  
staff assistant, business affairs  
office  
**Ramona Petro**  
registrar's assistant  
**Terrie Poore**  
part-time registrar's clerk



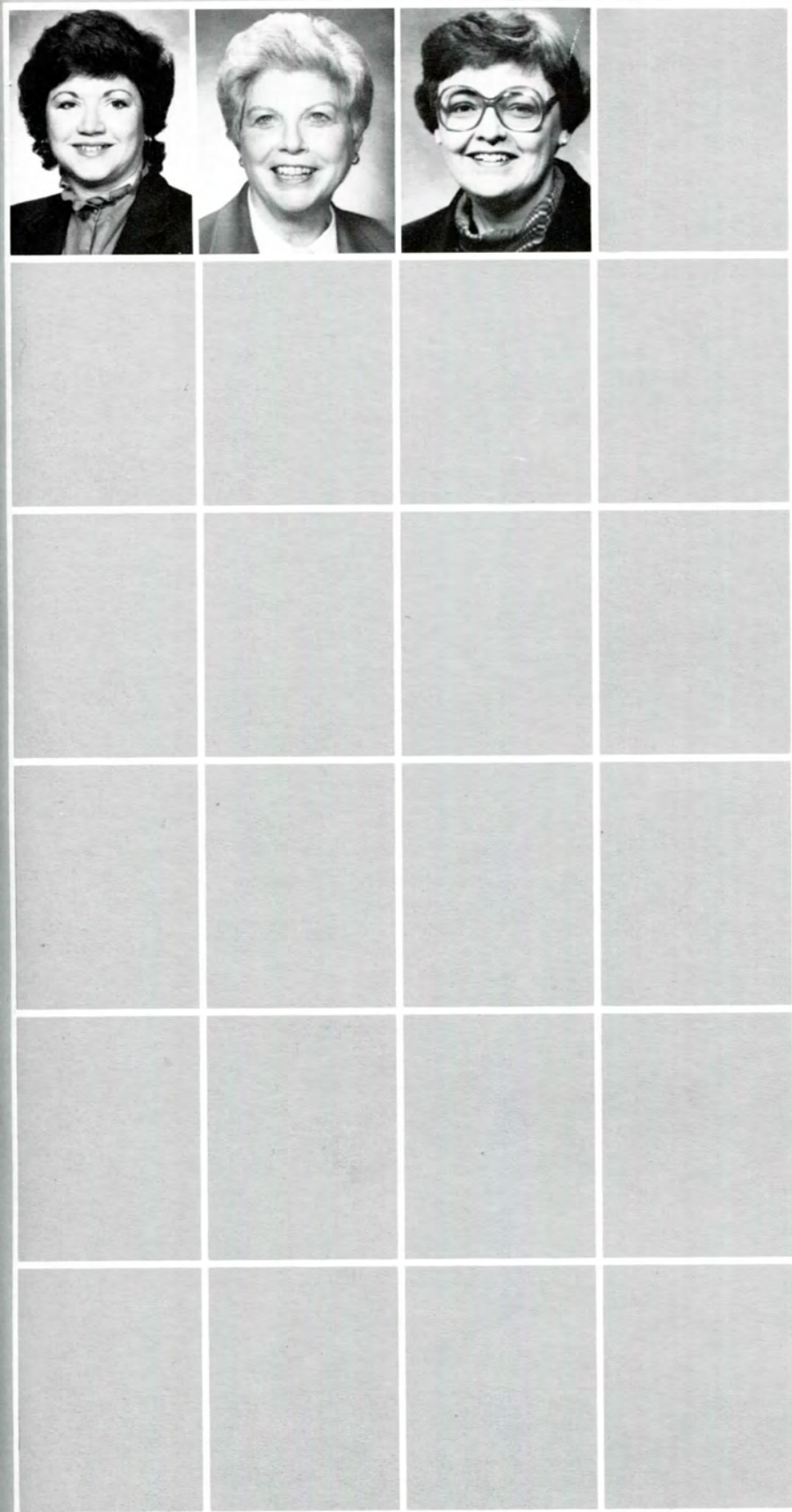
**Lawrence Reinhart**  
data processing staff  
**Joan Reiley**  
registrar's assistant  
**Winifred Roberts**  
secretary, office of the president  
**Martha Shields**  
data processing keypuncher



**Avonelle Slagle**  
placement assistant  
**Marlene Thornton**  
admissions counselor  
**Dorothy Trew**  
academic services secretary  
**James O. Trew**  
staff assistant to the president,  
director of student services







**Judy Williams**  
student services secretary

**Blanche Wilson**  
assistant director of placement

**Roberta Wisler**  
development secretary

# *School of Architecture*





**Karl H. Greimel**  
dean of architecture, chairman  
and professor of architecture



**James Abernethy**  
associate professor of  
architecture  
**Nancy E. Agarwal**  
lecturer in architecture  
**William S. Allen**  
lecturer in architecture  
**Jeane Allyn**  
architecture secretary

**Robert A. Benson**  
associate professor of  
architecture  
**Harold Binder**  
lecturer in architecture  
**Robert D. Champlin**  
associate professor of  
architecture  
**Edwina Delbridge**  
architecture secretary

**Leonard Else**  
assistant professor architecture  
**Harvey Ferrero**  
lecturer in architecture  
**James J. Giachino**  
lecturer in architecture  
**Paul H. Goldsmith**  
lecturer in architecture



**Richard Hall**  
lecturer in architecture  
**Donna Harris**  
architecture secretary  
**Morris Jackson**  
lecturer in architecture  
**Gary Jelin**  
lecturer in architecture

**Gary Kecskes**  
assistant to the dean,  
lecturer in architecture

**Jean LaMarche**  
lecturer in architecture

**Paul Chu Lin**  
assistant professor of  
architecture

**Harold Linton**  
associate professor of  
architecture

**Kenneth Livingston**  
assistant to the dean of  
architecture

**Keith Mickelson**  
lecturer in architecture

**W. Thomas Munsell**  
assistant professor of  
architecture

**Thomas J. Nashlen**  
assistant professor of  
architecture

**Joseph B. Olivieri**  
professor of architecture

**Robert B. Powell**  
lecturer in architecture

**Thomas Regenbogen**  
assistant professor of  
architecture

**Charles Robinson**  
lecturer in architecture

**Richard Rochon**  
lecturer of architecture

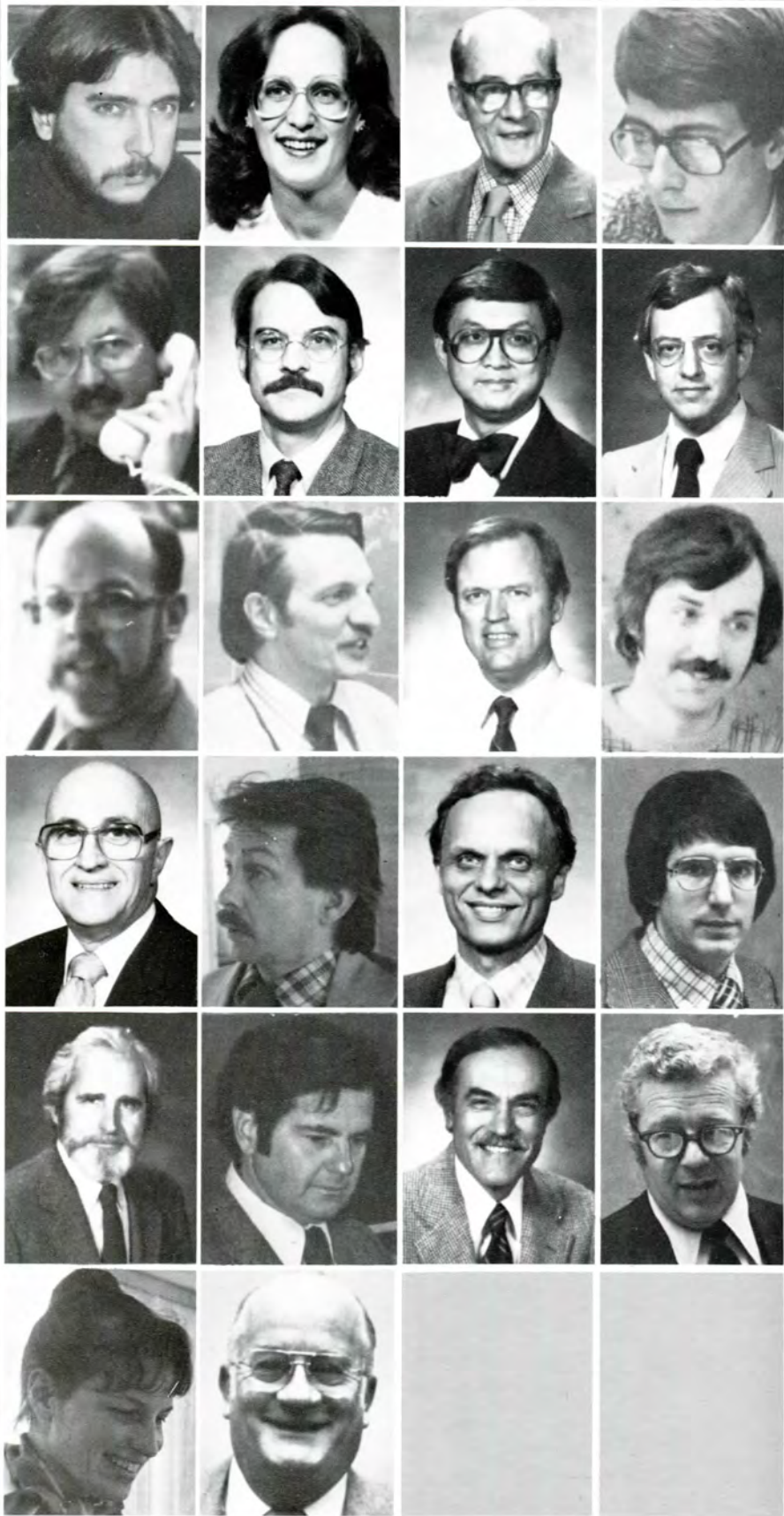
**Joseph Savin**  
lecturer in architecture

**John V. Sheoris**  
associate professor of  
architecture

**Roy Strickfaden**  
lecturer in architecture

**Betty-Lee Seydler-Sweatt**  
assistant professor of  
architecture

**Edward Willoughby**  
lecturer in architecture





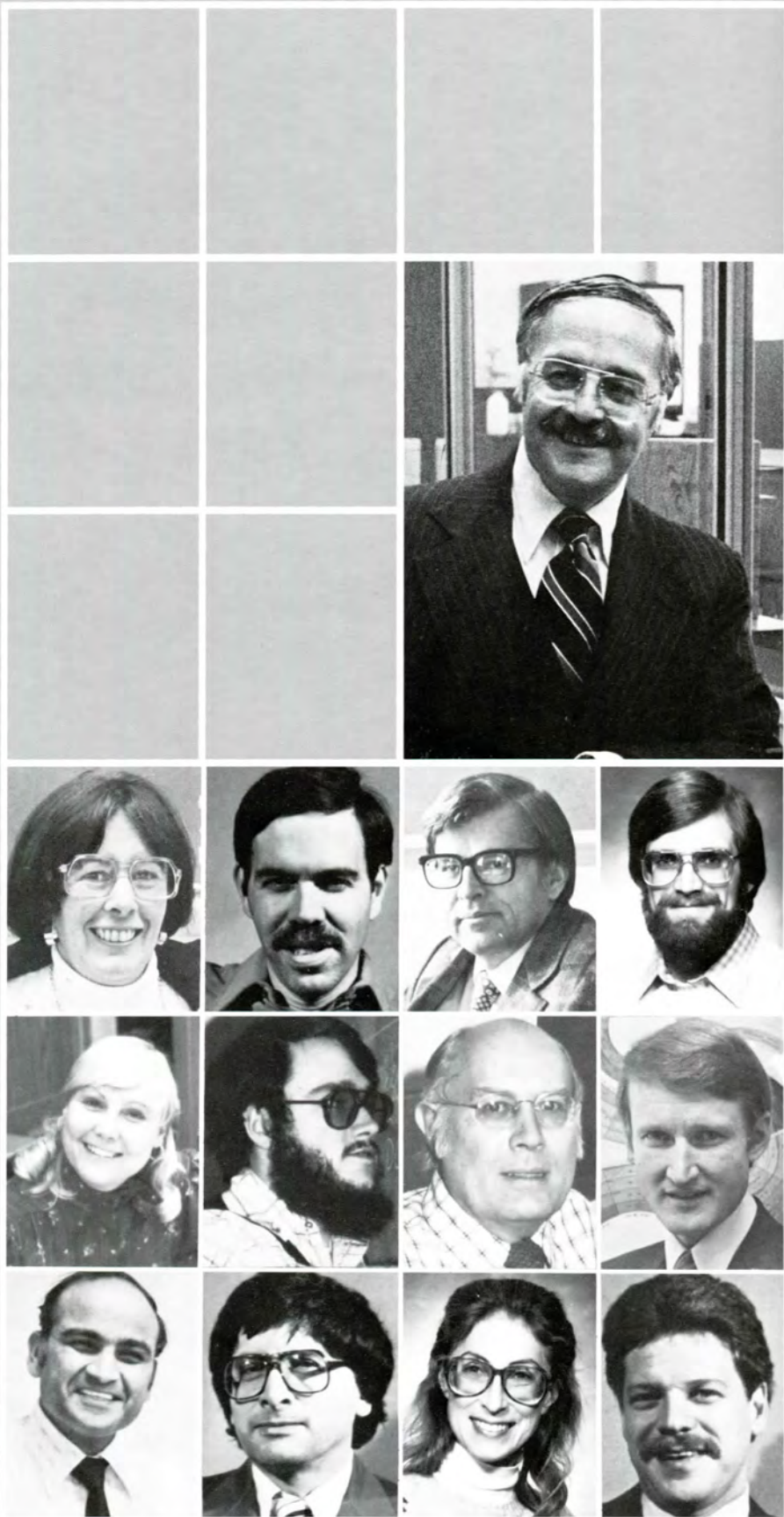
# *School of Arts and Science*

**Zaven Margosian**  
dean of arts and science,  
chairman and professor of  
mathematics

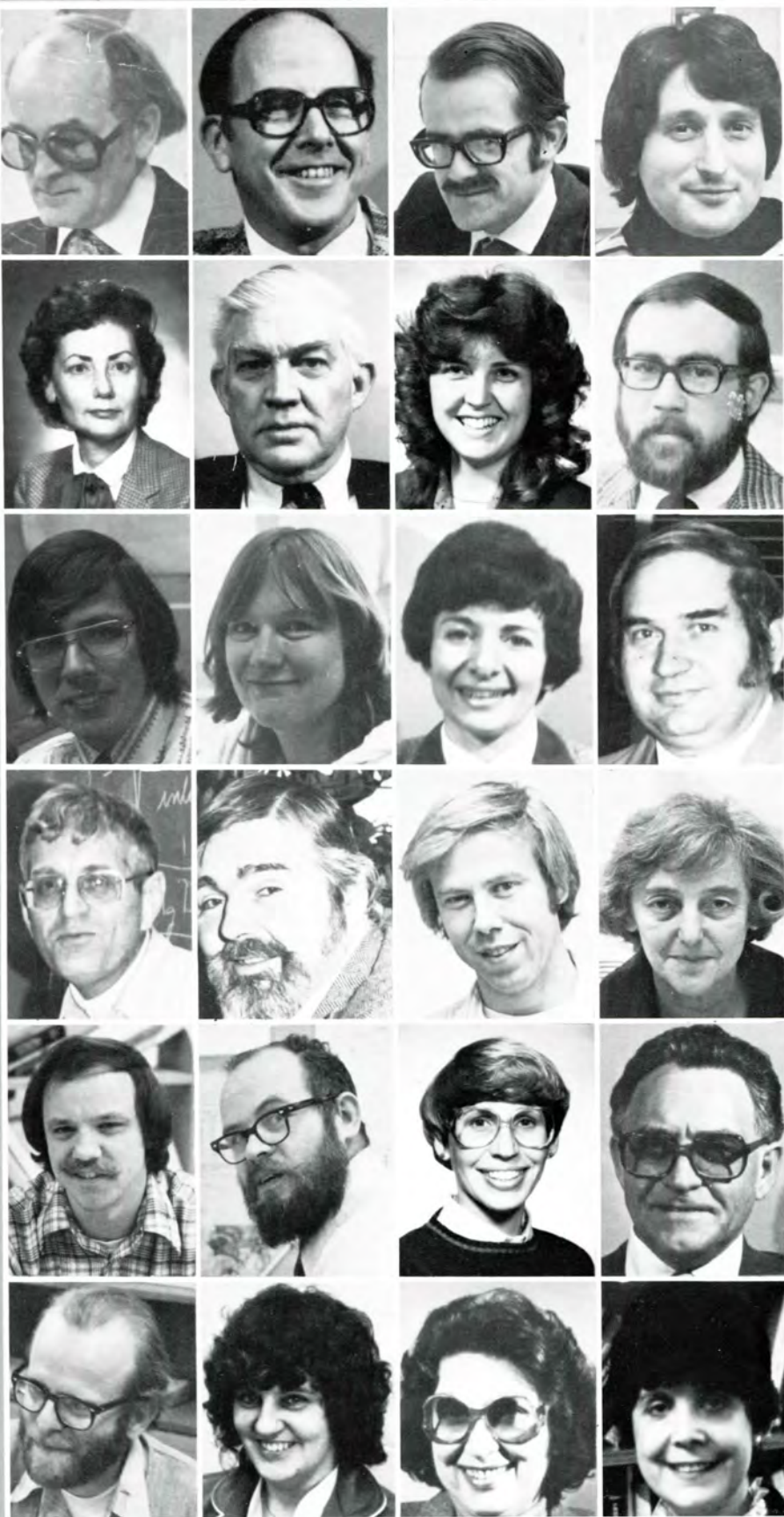
**Elizabeth C. Ager**  
lecturer in humanities  
**Neal Alpiner**  
lecturer in mathematics  
**Victor Angelescu**  
professor of humanities  
**Glen Bauer**  
instructor in mathematics

**Anne M. Cattermole-Levy**  
lecturer in humanities  
**Charles Craiglow**  
lecturer in mathematics  
**Roy Crane**  
associate professor of physics  
**Jerry L. Crist**  
chairman and professor of  
chemistry

**Ashok Deshpande**  
lecturer in mathematics  
**Diego Enciso**  
lecturer in physics  
**Ruth Favro**  
lecturer in mathematics  
**Gary Gabel**  
lecturer in humanities







**Glen Gearhart**

lecturer in humanities

**Fay Gifford**

assistant professor of physics

**John Goodenow**

associate professor of chemistry

**Jerry Gutman**

lecturer in humanities

**Sonia Henckel**

associate professor of mathematics

**Gilder Jackson**

professor of humanities

**Karen Jones**

arts and science secretary

**Barry Knister**

assistant professor of humanities

**Thomas Lackey**

associate professor of mathematics

**Barbara Layman**

lecturer in humanities

**Esther Littmann**

lecturer in humanities

**George Mach**

professor of chemistry

**Richard Majkowski**

lecturer in physics

**Thomas Masson**

associate professor of humanities

**Larry McCollister**

instructor in mathematics

**Lucy Merritt**

assistant professor of chemistry

**Michael Merscher**

assistant professor of mathematics

**Daniel Mioduszewski**

associate professor of physics

**Karen Murany**

instructor in mathematics

**Richard Murie**

lecturer in chemistry

**James Nanny**

assistant professor of mathematics

**Marilyn Rands**

assistant professor of physics

**Lillian Rauch**

lecturer in humanities

**Gloria Rivkin**

assistant professor of mathematics



**George Rosculet**  
lecturer in chemistry  
**Audrey Rudofski**  
director, engineering  
communications lab  
**Roy Schenkel**  
professor of mathematics  
**Donald Solms**  
lecturer in mathematics

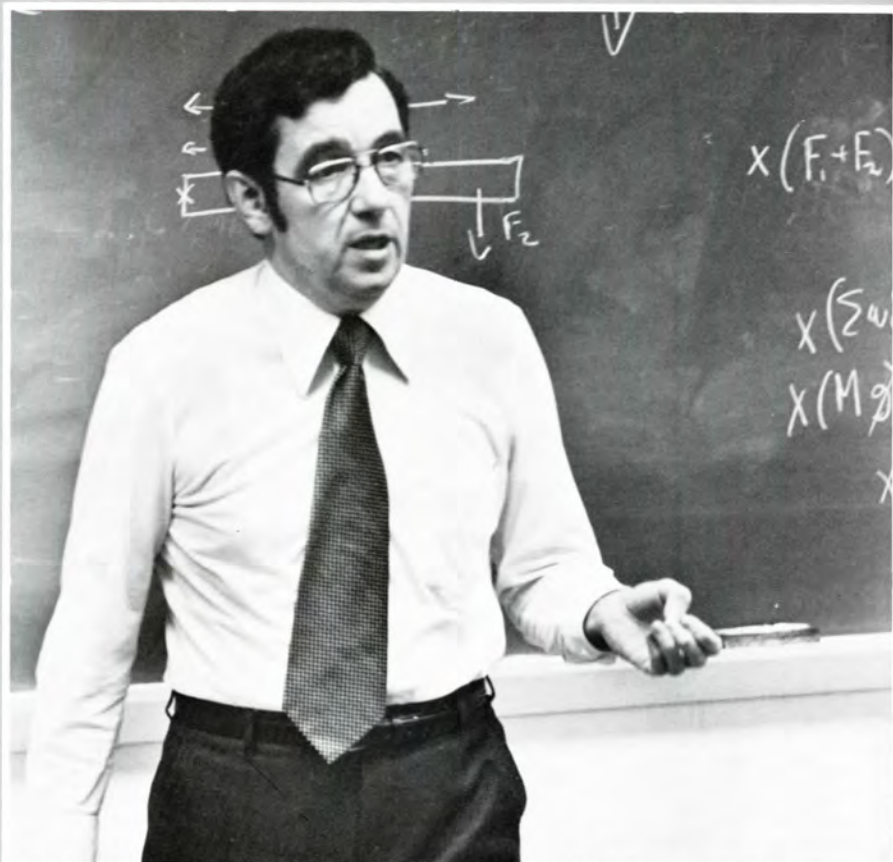
**Katie Stanley**  
arts and science secretary  
**John Stock**  
assistant professor mathematics  
**Ray Tulkki**  
lecturer in mathematics  
**Frances Vallely**  
instructor in mathematics

**Gary Vance**  
lecturer in mathematics  
**Carl Varadian**  
lecturer in humanities  
**Judith Weiner**  
lecturer in humanities





# *School for Associate Studies*



**Richard E. Michel**

dean and chairman of school for  
associate studies, chairman and  
professor of physics

**John R. Bacon**

lecturer in general studies

**Jerry G. Beck**

lecturer in industrial engineering  
technology

**Arnold Blythe**

lecturer in general studies

**Dale U. Chang**

lecturer in mechanical engineering  
technology

**Kenneth J. Cook**

lecturer in electrical engineering  
technology

**Jerry L. Coval**

lecturer in mathematics

**Lorraine Dempsey**

associate studies secretary

**Leonard A. Forrest**

lecturer in physics

**Eugene G. Gagnon**

lecturer in mathematics

**David D. Horchler**

lecturer in electrical engineering  
technology

**Robert D. Jupp**

lecturer in mechanical engineering  
technology

**George Kane**

lecturer in mechanical engineering  
technology







**Stanley Korenkiewicz**

lecturer in electrical engineering  
technology

**Art Liberty**

lecturer in industrial engineering  
technology

**Rosendo Lomas**

assistant to the dean for associate  
studies

**Edward Mielock**

assistant to the dean for associate  
studies

**Phillip V. Mohan**

lecturer in physics

**Louis S. Noetzel**

lecturer in construction engineering  
technology

**Sylvester Noetzel**

lecturer in construction engineering  
technology

**James P. Nolte**

lecturer in physics

**Raymond P. Sands**

lecturer in general studies

**Gerald D. Skellenger**

lecturer in mechanical engineering  
technology

**Manuel Spinner**

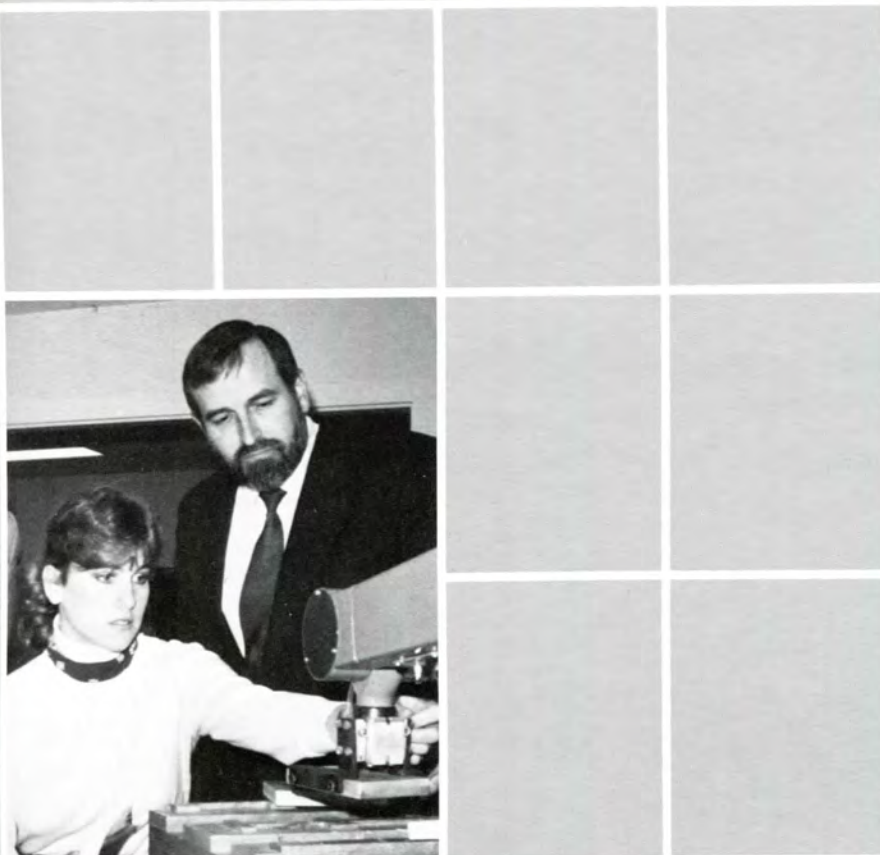
lecturer in industrial engineering  
technology

**William L. Toth**

lecturer in electrical engineering  
technology

# *School of Engineering*





**Robert W. Ellis**  
dean of engineering, professor of  
mechanical engineering

**George Bowden**  
professor of construction  
engineering

**Wayne M. Brehob**  
chairman and professor of  
mechanical engineering

**Clarence G. Chambers, Jr.**  
associate professor of mechanical  
engineering

**Robert D. Chute**  
associate professor of electrical  
engineering



**Patty Cogan**  
secretary to the dean

**John Connors**  
lecturer in mechanical engineering

**R. James Diegel**  
acting chairman and professor of  
construction engineering

**Thomas Dragon**  
lecturer in electrical engineering



**Kenneth J. Farquharson**  
professor of mechanical  
engineering

**H. Robert Farrah**  
assistant professor of electrical  
engineering

**Joyce Frederick**  
evening engineering secretary

**Douglas R. Hamburg**  
lecturer in electrical engineering





**Robert D. Hatch**  
associate professor of electrical  
engineering  
**Craig J. Hoff**  
instructor of mechanical  
engineering  
**David Hubbs**  
assistant professor of  
mechanical engineering  
**Keith Kesling**  
assistant professor of  
mechanical engineering

**Lee Keshishian**  
mechanical engineering lab  
technician

**Lucy King**  
assistant professor of  
mechanical engineering

**Frank Koltuniak**  
lecturer in mechanical  
engineering

**Linda Lauer**  
engineering secretary

**Sue Long**  
lab assistant — computer  
graphics

**Richard R. Lundstrom**  
associate professor of  
mechanical engineering

**Richard S. Maslowski**  
assistant dean, chairman and  
professor of electrical  
engineering

**Bernard Merritt**  
assistant professor of  
mechanical engineering

**Naila Mikhaeil**  
assistant professor of electrical  
engineering

**Thomas Mullin**  
lecturer in mechanical  
engineering

**Priyaranjan Prasad**  
lecturer in mechanical  
engineering

**Gayle Schaeff**  
engineering secretary

**George Schneider**  
assistant professor of  
mechanical engineering

**Vastupal B. Shah**  
lecturer in mechanical  
engineering

**Patricia M. Shamamy**  
assistant professor of  
mechanical engineering

**James Sneyd**  
assistant professor of  
mechanical engineering

**Donald Tappan**  
assistant professor of  
mechanical and construction  
engineering

**Frank Waksmundzki**  
lecturer in mechanical  
engineering

**Robert Weil**  
lecturer in electrical engineering

**Donald E. Wente**  
lecturer in mechanical  
engineering

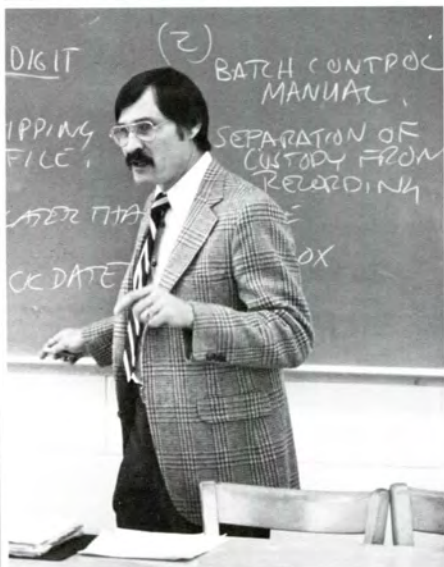






# *School of Management*





**Louis W. Petro**  
dean of management

**Cleophas M. Buck**  
assistant to the dean, professor of management

**Jennie Casai**  
management secretary

**Gregory R. Cheek**  
assistant professor of management

**Louis A. DeGennaro**  
associate professor of management

**James Fraser**  
lecturer in management

**Douglass Koch**  
Assistant professor of management

**Leland A. Lahr**  
professor of management, lecturer in arts and science

**Ernest L. Maier**  
professor of management

**Larry G. Mumford**  
assistant professor of management

**Edward M. Spencer**  
professor of management

**Thomas P. Stevens**  
lecturer in management

**Michael Sweeney**  
assistant professor of management

**Monica Tombers**  
management secretary



















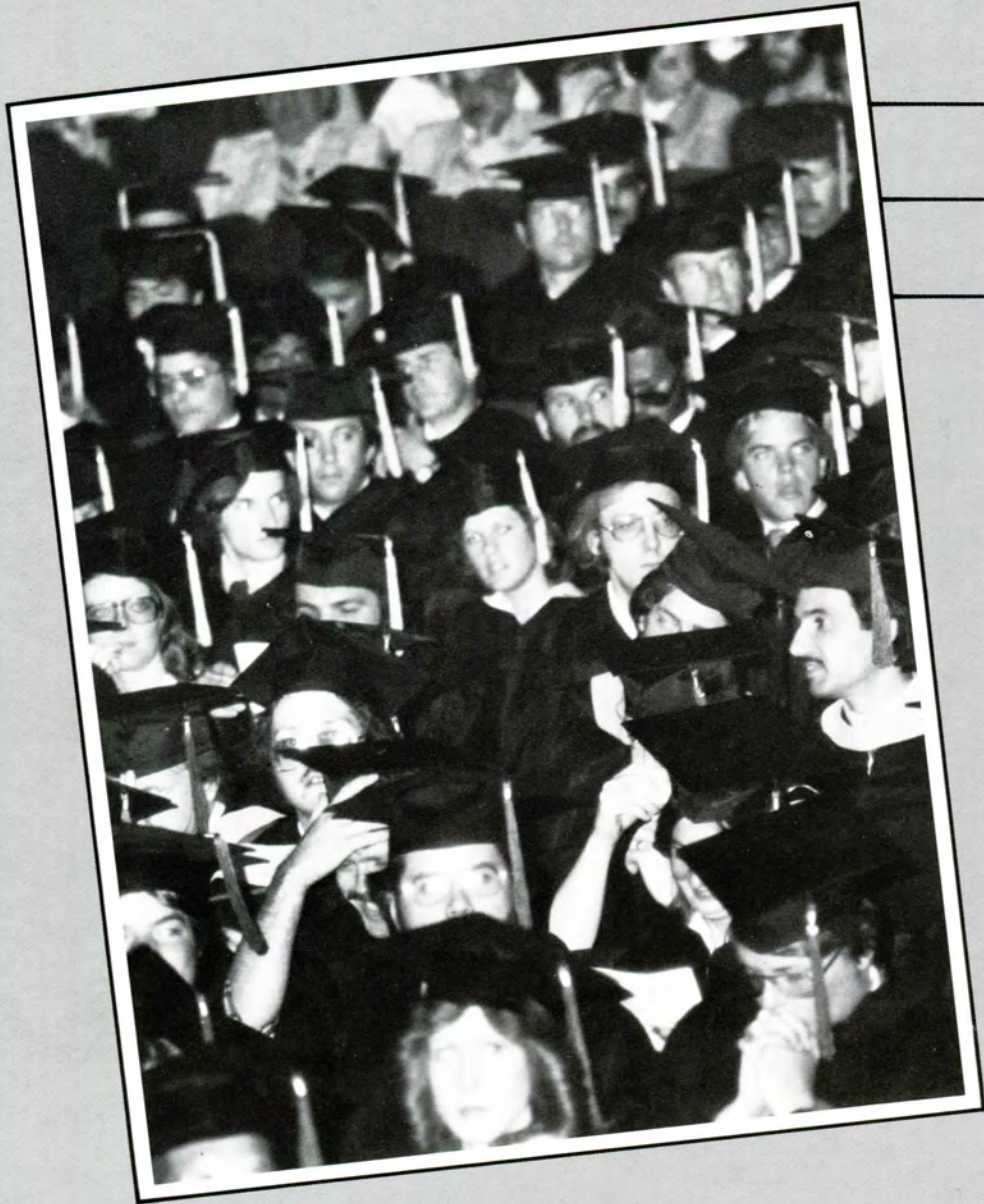














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# *Seniors*

**Abbas A. Abbas, CE**  
**Lokman I. Abbas, EE**  
**Hatem M. Abdul Razzak, CE**  
**Randy R. Abrahamson, CE**



**Lawrence W. Acciaioli, ME**  
**Clinton L. Adams, CE**  
**Mark S. Adams, CE**  
**Livingstone K. Adwini-Poku, Ma, ME**



**Edward R. Ahlquist, Jr., EE**  
**Samir M. Ar-Dirani, EE**  
**Abdel-Hafiz H. Alhroot, ME**  
**Abdel-Karim M. Al-Husban, ME**



**Ali Saleh Al-Jazazy, ME**  
**Khalid A. AL-Suhail, CE, ME**  
**Barry L. Anderson, EE**  
**Thomas J. Angellotti, ME**



**Matthew J. Anthony, EE**  
**William C. Apple, BA**  
**Richard C. Armbruster, CE**  
**Robert Q. Arnold, Ma**



**James J. Arsenault, EE**  
**William S. Ashlin, Ar**  
**Antoinette Ayoub, BA**  
**Mark M. Bacha, Ar**







**Pamela F. Bafs, CE**  
**Brian C. Bagnick, BAr**  
**Yahya Bahram, ME**  
**Robert F. Balke, EE**



**Ken dall L. Ball, CE**  
**Karen S. Bancroft, Ar**  
**Gabriel N. Bannoura, BE**  
**Jon M. Barberis, Ar**



**James E. Barnes, CE**  
**Charles W. Barnes, ME**  
**Sandra L. Bartenbach, Ch**  
**Carol L. Bator, BA**



**K. M. Baybydeh, ME**  
**Barbara A. Beach, EE**  
**David N. Bearss, Ar**  
**John L. Becht, BA**



**Denise R. Bednarek, Ar**  
**Guy J. Bellemare, ME**  
**Scott A. Belobraydil, EE**  
**Dwayne G. Berger, ME**



**Leslie A. Bergman, BA**  
**Gregory J. Bernard, BH**  
**Janine DeLona Bernier, BA**  
**Kevin L. Bertram, DP**



**Scott E. Beversdorf, EE**  
**Michelle L. Beyer, Ma**  
**Kevin L. Biddison, BA**  
**Peter P. Black, EE**



**Kevin J. Blaser, IM**  
**Dean A. Blood, Ar**  
**Michelle J. Blue, Ar**  
**Aaron J. Bobkin, EE**



**Denise A. Bochniak, BA**  
**Jeffrey P. Boes, BA**  
**Christopher R. Bolton, ME**  
**Edward J. Boris, Jr., EE**



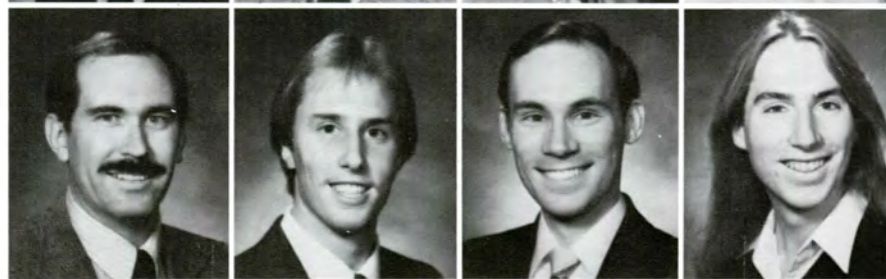
**Bradley C. Bos, ME**  
**Philip M. Boulanger, ME**  
**Steven J. Bracey, BA**  
**David S. Bradshaw, ME**



**John P. Bretz, BA, BT**  
**James F. Brodick, BA**  
**William J. Broeder, BA**  
**Donna D. Brooks, EE**



**Mark K. Brooks, ME**  
**Jeffrey M. Broski, EE, Ma**  
**William E. Brown, Hu**  
**John P. Brunarsky, Ch**







**Kenneth B. Brzezinski, EE**  
**Leonard A. Brzozowski, BA**  
**John C. Bucacink, EE**  
**Joseph A. Bucciero, ME**



**Michael L. Budi, ME**  
**Thomas G. Burdt, CE**  
**Frederick F. Butters, BA**  
**John A. Byrd, BA**



**Ralph E. Campbell, IT**  
**Norman T. Caramagno, EE**  
**Colleen S. Carlsen, ME**  
**Charles K. Carlson, BA**



**John J. Carroll, ME**  
**William H. Carter, EE**  
**Steven A. Chamulak, MT**  
**Thomas A. Charnesky, IM**



**Gregory S. Chiesa, BA**  
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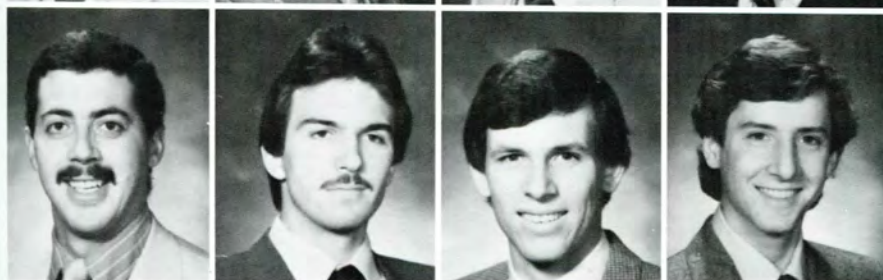
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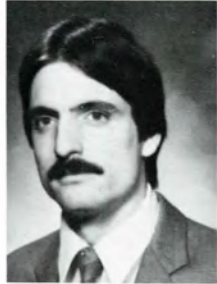




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**Jo Anne M. Kerr, DP**  
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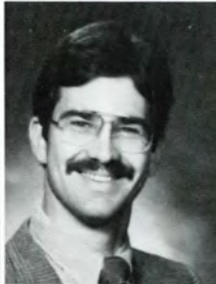
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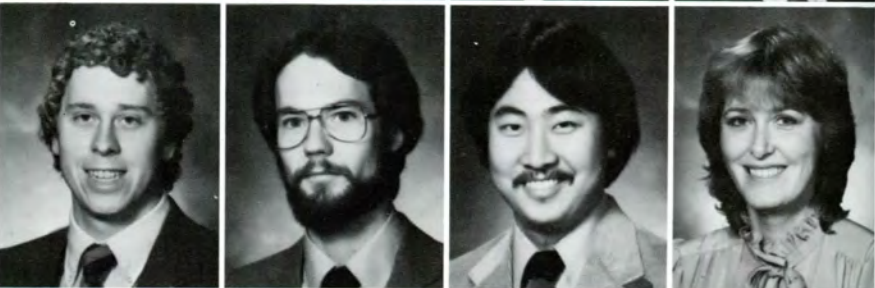
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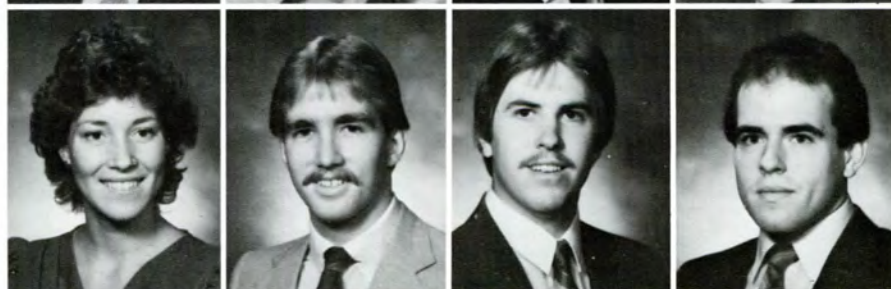
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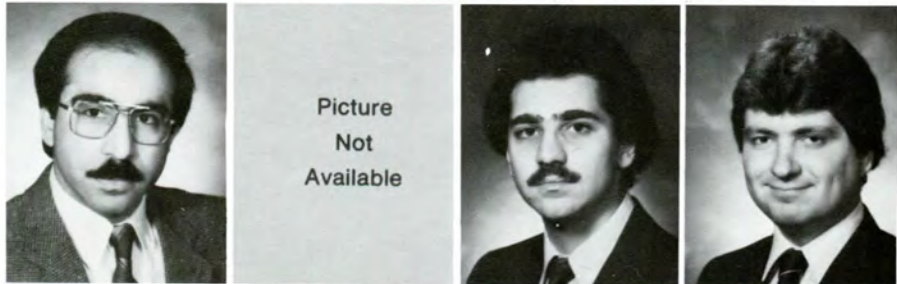
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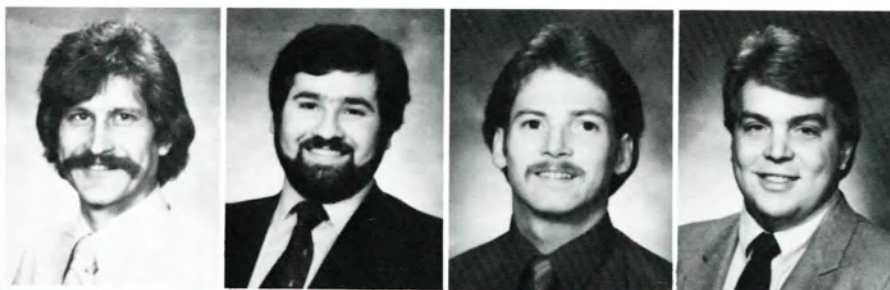
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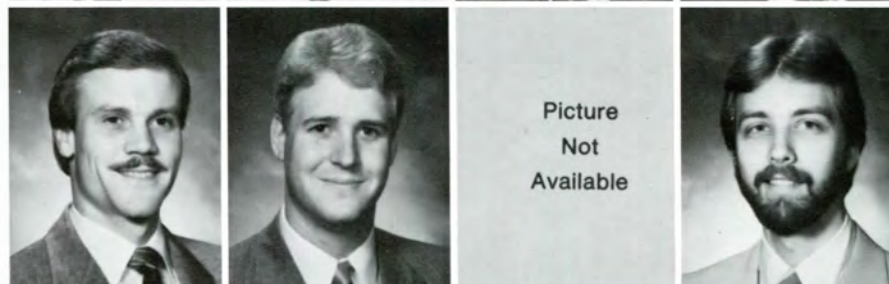
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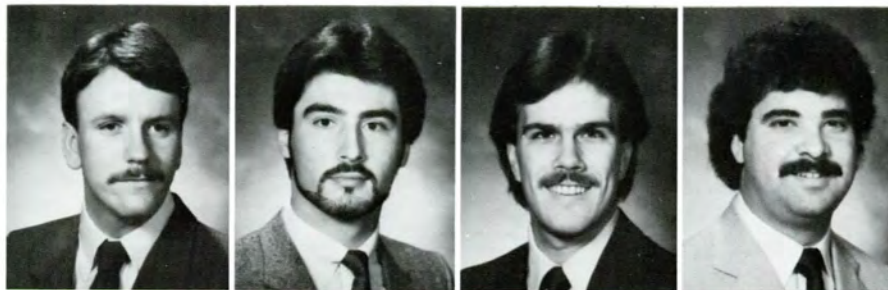
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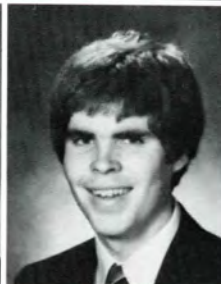
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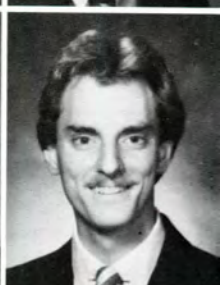
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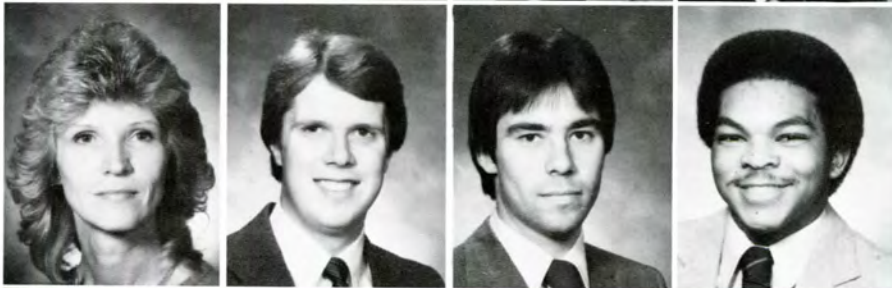
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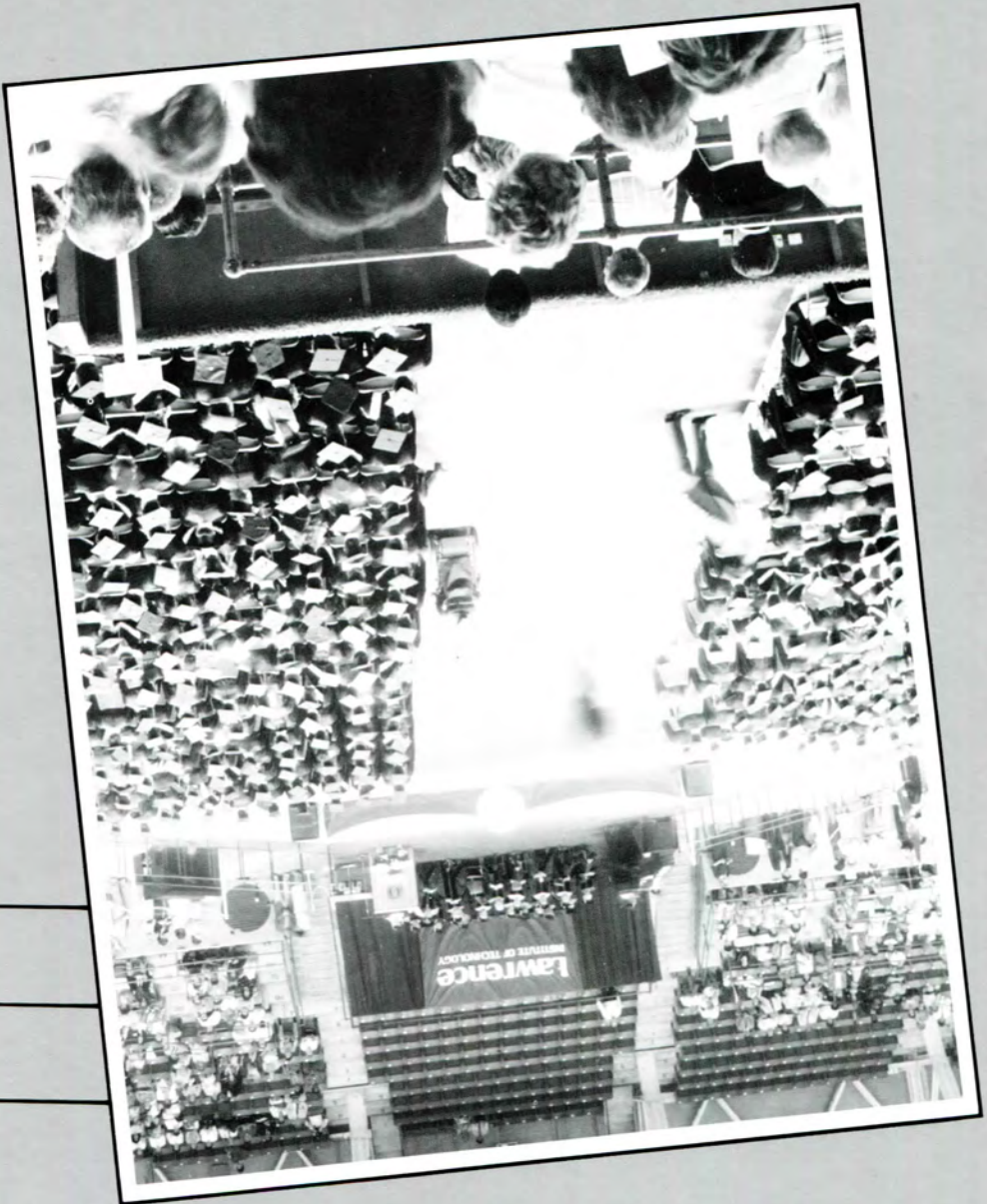


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**Peter F. Ziegenfelder, BA**  
**Kenneth F. Zierau, ME**  
**Becky L. Zurfluh, ME**  
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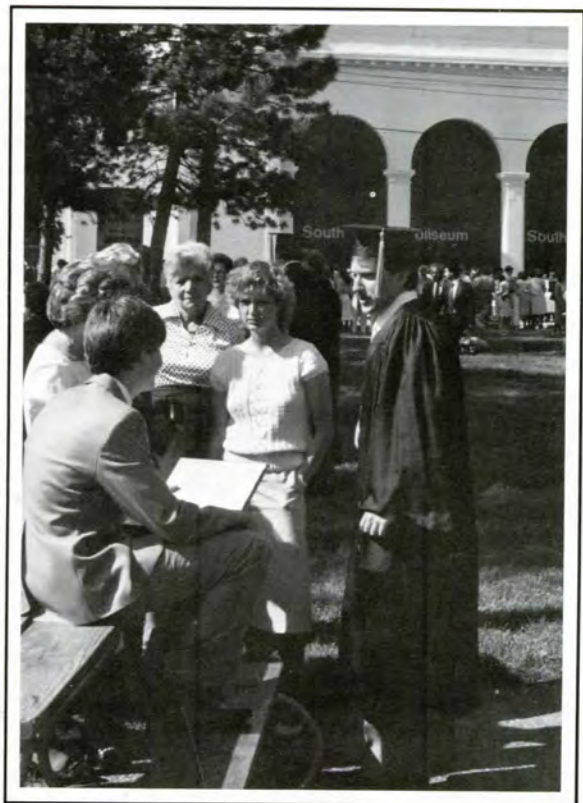
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# *Commencement*

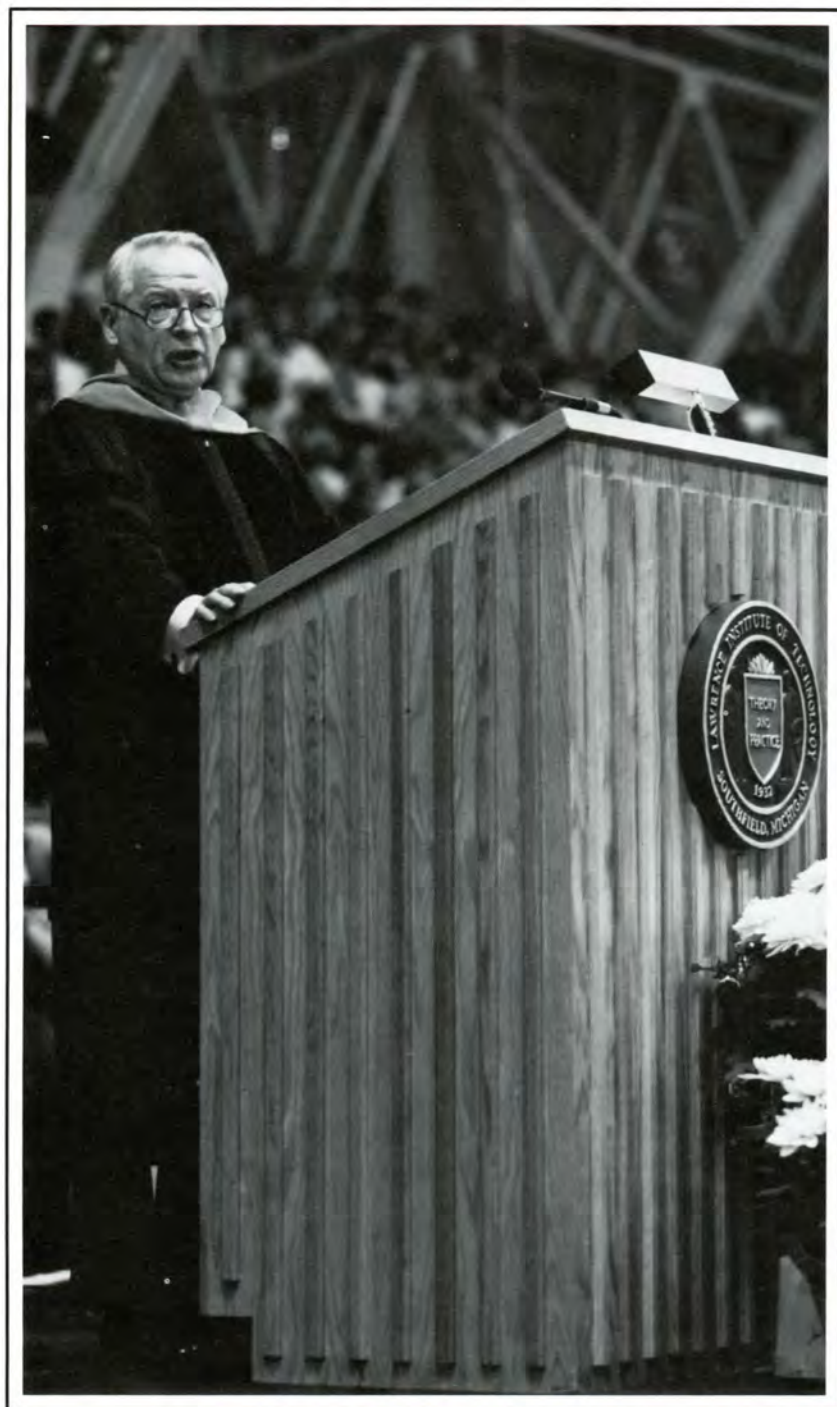












**COMMENCEMENT ADDRESS PRESENTED** by Philip Caldwell, chairman of the board and chief executive officer, Ford Motor Company, at the commencement ceremony of Lawrence Institute of Technology on Sunday, June 3, 1984, at the Coliseum, Michigan State Fairgrounds, Detroit, Michigan:

#### MAKE A DIFFERENCE

I am delighted to participate in this celebration and to congratulate the members of the Lawrence Institute of Technology Class of 1984 for completing the important milestone which brings us all to this occasion today.

As strange as it may seem to you coming from one of my generation, it seems to me it was only a short while ago that I was occupying a seat at my commencement, wondering what I had yet to endure before actually getting my diploma.

It is said that Albert Einstein, who viewed success in terms of a mathematical equation, offered the following advice: "If A equals success, then the formula is A equals X plus Y plus Z. A equals work, plus play, plus keep your mouth shut." Since Dr. Einstein had a long association with Princeton University, perhaps he had commencement speakers in mind.

On the other hand, it was Napoleon who said: "If you start to take Vienna — take Vienna."

Certainly there is wisdom in what each of these famous men believed.

As you look beyond your graduation, I would like to suggest two principles for your contemplation:

- One person can make a difference, and

- Be adaptable to change.

As you collect your diplomas and leave your campus, I would urge that you ask yourselves what meaningful contributions you can make in shaping the world in which we live.



In reflecting on just what impact each one of you might make, think positively — believe that one individual can make a difference. Just remember: by a margin of one vote, Oliver Cromwell was given control of England in 1645; by one vote, President Andrew Johnson was saved from impeachment in 1868; and one vote gave Rutherford B. Hayes the presidency in 1876.

America is often described as a nation of rugged individualists. It is that character, that pioneering spirit, which is perhaps our greatest strength as a people. This continent was, after all, discovered by a true pioneer, and perhaps the country's first entrepreneur, Christopher Columbus. With the assistance of his venture capital backer, Queen Isabella, he set sail to exploit business opportunities in distant lands.

Within our shores there are still opportunities to be grasped. Today, in a nation of more than 235 million people, the individual still counts. One individual can still make a difference, particularly when he joins in concert with others of like mind and determination to change the course of human events.

There is no better example of what can be accomplished in the face of great adversity than the one in which many of us present have devoted our talents and our commitment these past few years — the restoration of the American automobile industry.

The auto industry was beset by an avalanche of new challenges — challenges that threatened its very survival.

When the nation's economy began to falter in 1979, following closely on the heels of two successive oil shocks, there were those who believed that the U.S. automobile manufacturers would not be able to weather the storm. In fact, our ultimate demise was being forecast almost daily by someone, somewhere.

Indeed, our fortunes did not look

promising. The industry's combined losses in 1980 totaled \$4.2 billion, almost entirely accounted for by losses on operations serving the North American market. In that same year, however, the industry's combined new investments totaled \$11.5 billion. Few appeared to take notice of that fact.

Those self-appointed pundits also failed to take note of the fact that many dedicated individuals were applying ingenuity, inventiveness and enterprise to the task. The investments the industry was making and the strategies the individual companies were formulating centered around one central objective: producing world-class products at competitive cost. True, our competitive backs were up against the wall, but we weren't giving up.

Our mission was no small undertaking. It meant totally redesigning, resizing, and repositioning virtually every car and truck. It required pushing to the limit the application of new technologies, new vehicle concepts, and new approaches to weight savings to achieve government-mandated fuel economy and emissions standards. By 1985, the American automobile industry will have rebuilt, re-equipped, or retooled no fewer than 47 engine and transmission facilities and 89 assembly plants. Few machine tools or parts will remain unchanged in the industry's 255 domestic plants and the plants of thousands of suppliers.

The importance of actions such as these goes beyond their impact on our industry. Indeed, it goes to the heart of the U.S. economy as a whole.

In good times, the auto industry is the biggest consumer of steel, and it uses substantial quantities of the raw materials and products of other industries as well — including 20 to 25 percent of the nation's machine tools, more than 60 percent of its rubber, and a quarter of its flat glass. In a typical year, the automobile industry accounts for \$150 billion of this nation's GNP.

Our industry plays a vital role in the lives and livelihoods of millions of people across the country — and is responsible for providing one of every nine jobs in manufacturing.

For all these reasons it was good news, not only to our industry but to the entire country, when the U.S. automotive manufacturers staged a comeback in 1983. The results were industry profits of \$6.2 billion — a \$10 billion turnaround in just three years. Ingenuity and inventiveness are still alive. America can feel reassured about the resilience, determination, and vitality of its corporate enterprises.

At Ford Motor Company, this massive effort required the restructuring of a great company in the face of severe adversity. But we were determined to lead the change and not be led by it. We went back to the basics of our business and established a strategy to guide our future — in essence, to make the critical difference.

In 1979, we brought our Ford worldwide management team together and developed with them a philosophy, a road map and a course of action.

This demanded:

- a return to the basics of our business;
- a commitment to excellence;
- and the willingness to face and make some hard choices.

Returning to the basics required total dedication to the products people need and want — products of the highest quality, manufactured at competitive cost levels and sold at prices which offered fair value to our customers. Such products can only come from a committed and concerned workforce and management — from an unwavering commitment to continuous improvement in innovation, quality and productivity — from sensitivity to the needs of our customers and to our obligations to each other.

To paraphrase Charles Kettering: Nothing ever built arose to



touch the skies unless someone dreamed that it should, someone believed that it could, and someone willed that it must.

What you individually, or in concert with those like minded, dare to will, to believe or to dream, can change the course of the future. It can make the difference in the quality of life you enjoy and the legacy you leave behind for future generations. While it may appear that the road to success is always under construction, one must have the courage and ambition to pursue even the loftiest of goals — notwithstanding the detours or potholes along the way.

Yes, one dedicated person can make a difference.

Whatever be the field of endeavor you choose to follow, you modern-day pioneers must be problem solvers and long-range thinkers. You must be opinion leaders and policy-makers. You must be risk-takers and entrepreneurs. In short, you must be visionaries determined to make a difference.

You must also be willing to adapt to change — throughout your life — for we live in an era of change — monumental change — an era in which change may be the only certainty, and challenge the only reality.

Let me cite a few of the predictions being made about the world in which we live.

The population of the world is presently 4.6 billion. Some 25 percent of all the people who have ever lived are still alive today. But by the year 2000 there will be more than 6 billion men, women and children on the face of the earth.

To feed this growing population, it is projected that the world will have to produce as much food in the next 40 years as we have produced in all our history. At the same time, the world is generating huge quantities of waste — between 500 million and a billion tons of solid waste each year; and the amount could double every 15 years.

The amount of technical informa-

tion in the world doubles every 10 years, in part because of the increasing size of its scientific population. As incredible as it may seem, some 90 percent of all the scientists who have ever lived are alive today.

As a result, there is an explosion of technological change. The discovery of a sliver of silicon, for example, paved the way for a revolution in computer technology. In 1960, there were 5,000 computer-based products in the world. By 1985, there will be 50 million, and the average home in the United States may very well contain more computers than motors — in everything from pocket calculators to microwaves. It has been predicted that there will be more technological change in the next 10 to 20 years than has occurred in all of history.

There has also been an explosive change in the world economy, and in the role of the United States. In 1950, the United States accounted for about six percent of the world's population, a third of its gross national product, and 20 percent of world trade. By 1980, our margin of economic leadership had deteriorated — we had five percent of the world's population, but only one-quarter of its gross national product, and about 10 percent of its trade.

Next year, the United States may become a new debtor nation for the first time since the end of World War I.

Political conflict continues to disrupt world peace and harmony. More than four million people are today engaged in 42 different wars, rebellions, and civil uprisings around the world.

It would be easy to conclude that the future will bring more questions than answers. Certainly, the questions are not unimportant ones. For instance, can we solve the world's economic problems? Will we create enough housing and jobs, or preserve enough clean air and water, or educate enough scientists and engineers and humanists for tomorrow's generations? Will we

leave them enough natural resources? And, most importantly, will they inherit a world of peace or a world at war?

While the questions loom large, so do the vast opportunities waiting to be explored. We certainly live in a time of challenge, but it is also a time of promise. The pursuit of scientific knowledge, the development of new technologies, and the exploration of human relationships and human creativity offer yet untold potential.

We have walked on our own moon, and may someday navigate the rings of Saturn or walk on the moons of Jupiter. We are mining the ocean bottoms and putting a research laboratory in space. We are finding new ways to recycle and conserve our resources and create synthetic alternatives. We are also witnessing an exponential increase in our ability to gather and transmit information through the use of computers and satellite communications. And the world is being brought closer together.

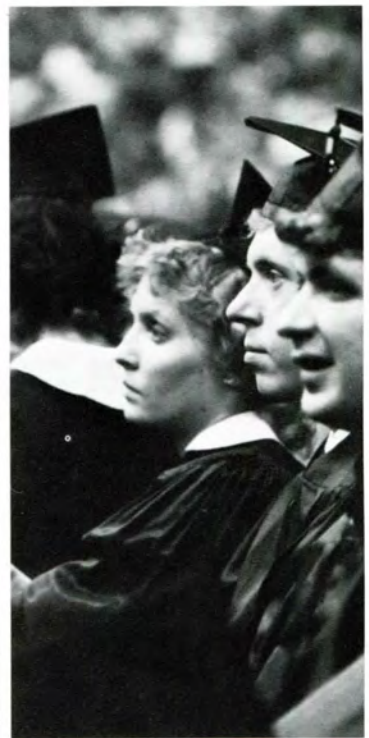
We are living in 1984, but it is not the dreaded world George Orwell described in his famous book 35 years ago. The year 2000 — the second millenium — is only 15 years, six months and 27 days away.

This nation's leaders in the 21st century will come from the ranks of your generation. As today's graduates, and tomorrow's leaders, you will be presented with the option of helping to shape the future. Some may "opt out." Those who do not, however, will hold the nation's and the world's destiny in their hands.

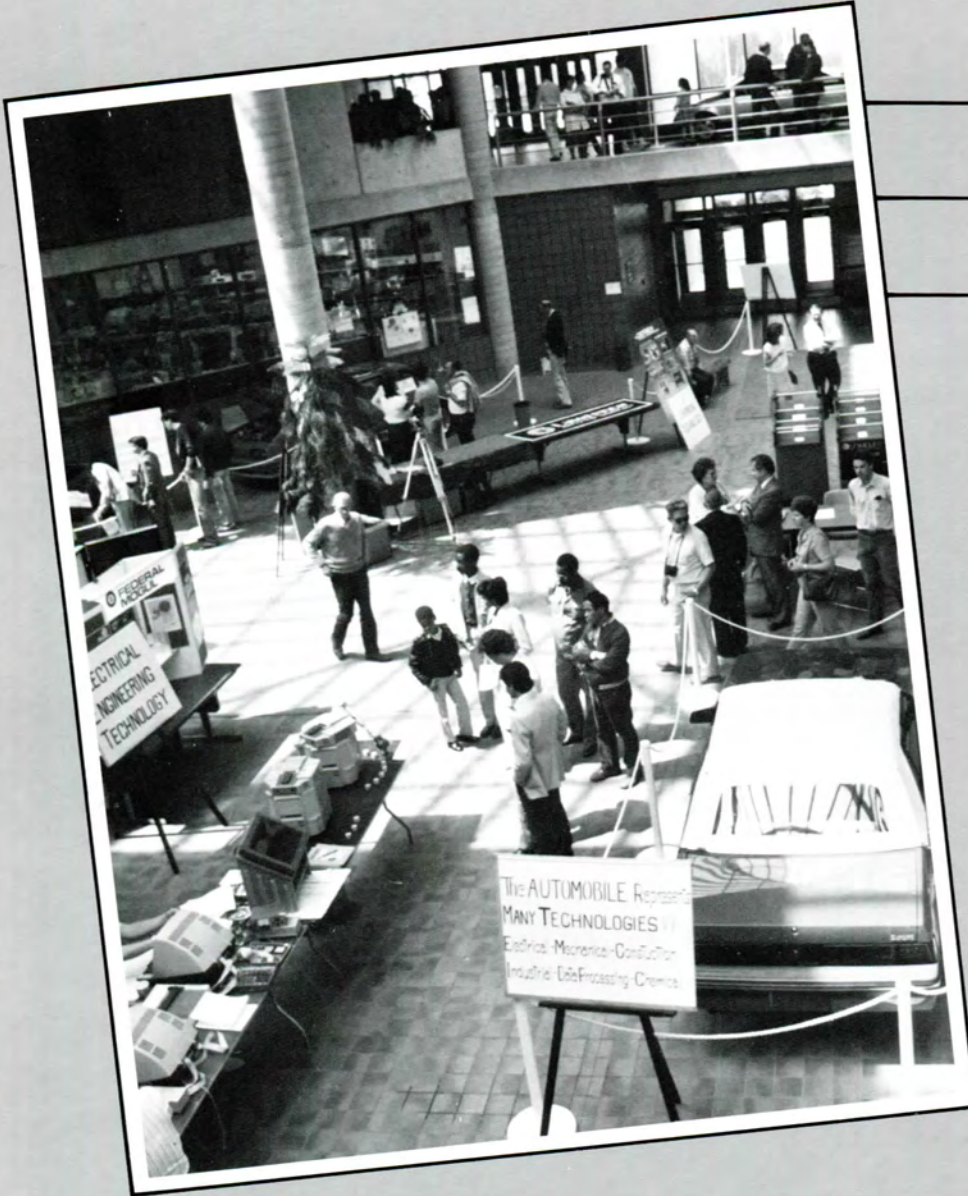
When the future now before you has become the present, your children will ask you what you did to bring it about. I hope that each of you will be able to say, "I helped plant the seeds of peace, prosperity, and fulfillment. I faced the challenge of change — and mastered it. I made a difference."

Thank you, and the best of luck to you all.











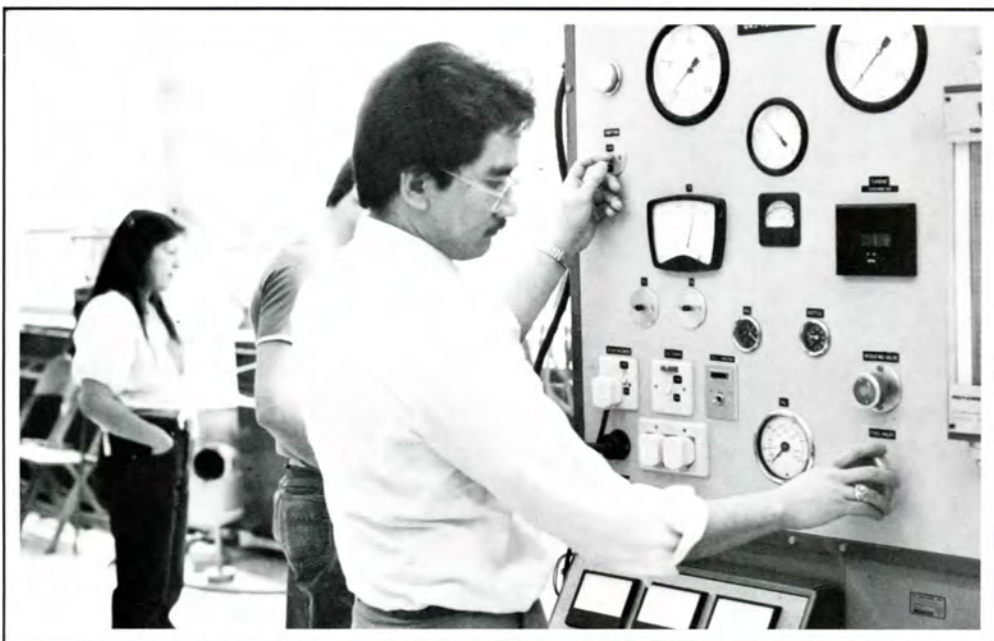
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*Open House*

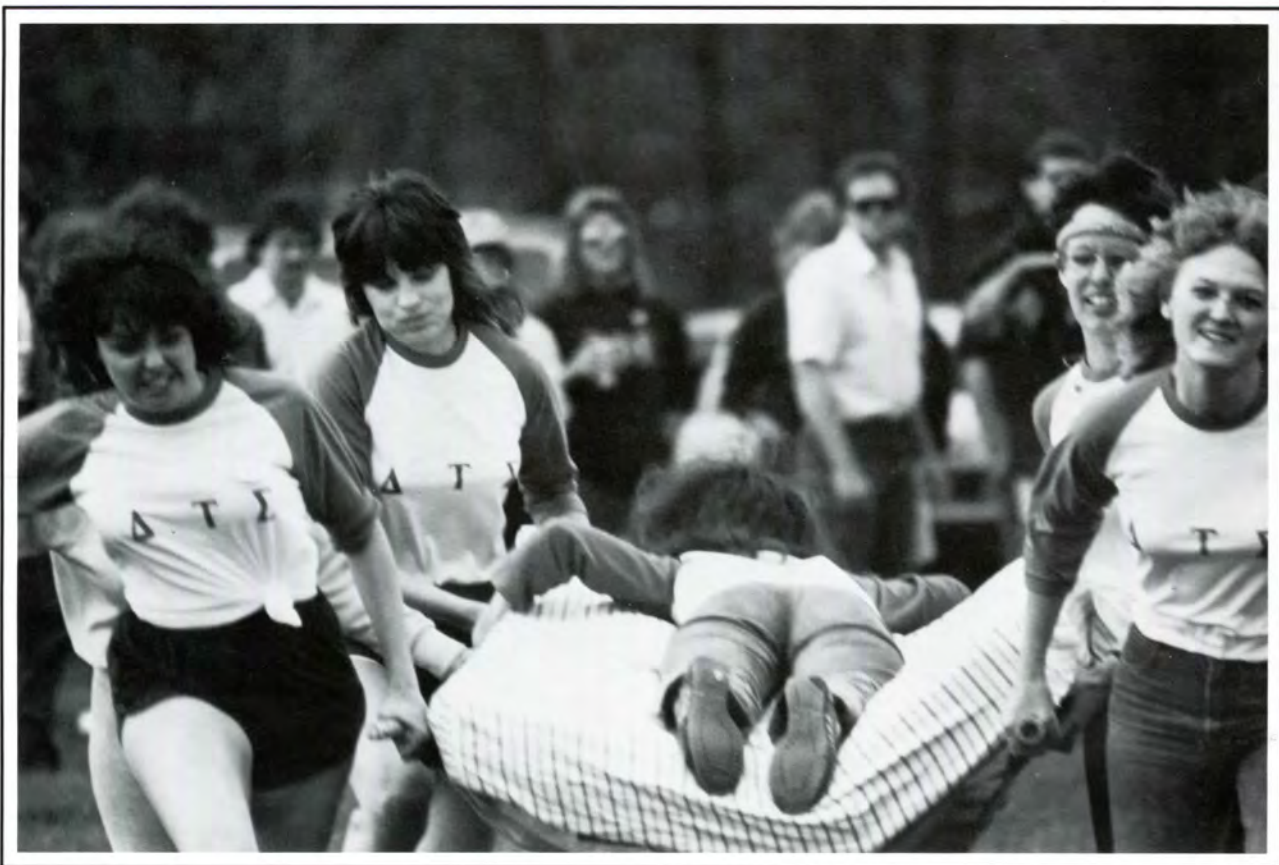




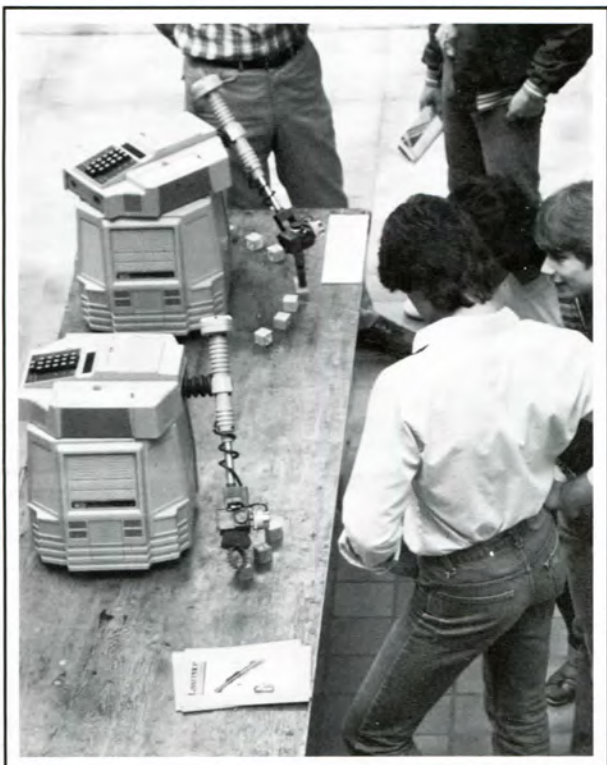














# Index

**Ar** Architecture  
**BAr** Bachelor of Architecture  
**BA** Business Administration  
**BT** Construction Engineering Technology  
**CE** Construction Engineering  
**Ch** Chemistry  
**CT** Chemical Technology  
**DP** Data Processing  
**EE** Electrical Engineering  
**ET** Electrical Engineering Technology  
**Hu** Humanities  
**IA** Interior Architecture  
**IM** Industrial Management  
**IT** Industrial Engineering Technology  
**Ma** Mathematics (and Computer Science)  
**MT** Mechanical Engineering Technology  
**Phy** Physics  
 Key to activity abbreviations  
**ABS** Association of Black Students  
**ACI** American Concrete Industries  
**ACS** American Chemical Society  
**ACSA** Association of Collegiate Schools of Architecture  
**AGC** Association of General Contractors  
**AIIE** American Institute of Industrial Engineers  
**AMA** American Marketing Association  
**APICS** American Production Inventory Control Society  
**ASCE** American Society of Civil Engineers  
**ASID** American Society of Interior Designers  
**ASM** Association of Systems Management  
**ASME** American Society of Mechanical Engineers

**ASO** African Student Organizations  
**ASP** Alpha Sigma Phi  
**ASPA** American Society for Personnel Administration  
**ASTD** American Society for Training and Development  
**BESA** Black Engineering Students Association  
**COR** Chi Omega Rho  
**DHR** Dean's Honor Roll  
**DPMA** Data Processing Management Association  
**DTS** Delta Tau Sigma  
**EKN** Eta Kappa Nu  
**ESD** Engineering Society of Detroit  
**IEEE** Institute of Electrical and Electronic Engineers  
**IEEE-CS** Institute of Electrical and Electronic Engineers — Computer Society  
**IFC** Interfraternal Council  
**IMS** Industrial Management Society  
**LCF** Lawrence Christian Fellowship  
**LIT** Lambda Iota Tau  
**MSEA** Michigan Solar Energy Association  
**MSPE** Michigan Society of Professional Engineers  
**NHS** National Honor Society  
**NSPE** National Society of Professional Engineers  
**NAA** National Association of Accountants  
**OAS** Organization of Arab Students  
**PBS** Phi Beta Sigma  
**PKU** Phi Kappa Upsilon  
**PTS** Pi Tau Sigma  
**SAE** Society of Automotive Engineers  
**SAS** Student Accounting Society  
**SC/AIA** Student Chapter/American Institute of Architects  
**SG** Student Government  
**SIFE** Students in Free Enterprise  
**SME** Society of Manufacturing Engineers  
**SP** Sigma Pi  
**SPE** Sigma Phi Epsilon  
**SPS** Society of Physics Students  
**SWE** Society of Women Engineers  
**TBP** Tau Beta Pi  
**TI** Tau Iota

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**Hendricks, Richard W.**, Ma  
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**Hermes, David J.**, CE  
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ftbl.(2), Intra. bsbl.(1)  
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