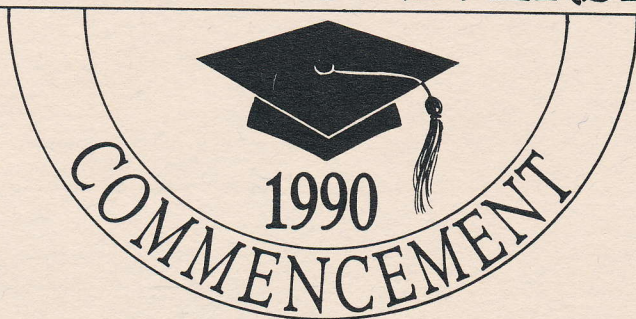


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# OAKLAND UNIVERSITY

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The motto of Oakland University, "*Sequir Virtute E Canoscenza*," which is incorporated in its seal, has a distinguished origin, Canto XXVI, 1. 120, of Dante's *Inferno*.

These are the final words of Ulysses' great speech to his men urging them to sail on and on in pursuit of knowledge and experience of the world—even beyond the pillars of Hercules, traditionally the frontier and limit of legitimate exploration.

This is the three-line stanza:

*Considerate la vostra semenza  
Fatti non foste a viver come bruti  
Ma per seguir virtute e canoscenza*

*Consider your birth  
You were not made to live like brutes  
But to follow courage and knowledge*

# SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

June 2, 1990  
1 p.m.

Howard C. Baldwin Memorial Pavilion  
Oakland University  
Rochester, Michigan



# ORDER OF CEREMONY

## **Processional**

Richard E. Haskell, *Marshal*  
David E. Boddy, *Deputy Marshal*  
Glenn A. Jackson, *Deputy Marshal*

## **Welcome**

Howard R. Witt  
*Dean of Engineering and Computer Science*

## **Commencement Address**

Mr. Harry S. Kalajian  
*Executive Vice President and Chief Financial Officer*  
Michigan Bell Telephone Company

## **Presentation of Honors**

## **Presentation of Special Awards**

## **Presentation of Candidates for the Ph.D. Degree**

## **Presentation of Candidates for the MS Degree**

## **Presentation of Candidates for the BSE and BS Degrees**

## **Salutation**

Tina Anna Wink, *Graduating Senior*

## **Alumni Welcome**

Bruce S. Wilber, B.S.E., 1987, M.S., 1989  
*Product Engineer, Chrysler Corporation*  
*and President, School of Engineering and Computer Science Alumni Affiliate*

## **Valediction**

Joseph E. Champagne, *President*

## **Recessional**

*The audience is requested to stand and remain standing during  
the processional and the recessional.*

## **Reception**

# ON ACADEMIC REGALIA

An edifying note contributed by a certain anonymous doctor of philosophy

On at least two solemn occasions during the academic calendar—spring and fall commencement—the faculty of the university publicly displays its full academic regalia and participates in the liturgy of processional and recessional, that curious coming and going that symbolizes the ceremony of commencement. The purposes of commencement are well known, but the reasons for the peculiar garb of the celebrants and their odd order of march are often as obscure to the audience as they are, in fact, to the faculty itself. This note may serve to explain academic dress and the professional pecking order it costumes.

Contemporary academics are descendants of clerical schoolmen in the universities of medieval Europe. Like the clergy, members of the bench and bar, and other learned professions, the medieval scholar clothed himself in heavy robes to stay warm in unheated stone buildings. Like all members of a hierarchical society, the medieval faculties rejoiced in visible insignia of rank. These outward signs of accomplishment and authority were tailored into the robes. Although the need for such voluminous garments to keep the scholar from freezing is long past, the use of them as emblems of dignity remains. You will observe that all caps and gowns worn by our faculty

are black, with certain disturbing exceptions. Black was the color adopted by mutual agreement among American universities at the end of the 19th century. In Europe each university has its own distinctive gown, varying in color and cut from all others. A European academic assemblage is a far gaudier occasion than its counterpart in America. Recently, certain universities in this country rashly broke the agreement and authorized robes in their own colors: for example, the crimson of Harvard and the green of Dartmouth may be seen in our ranks. This unsuitable spontaneity has been frowned on by sister institutions, yet the mavericks not only persist in their madness, but gain adherents to their ranks with each passing year.

There are three basic academic degrees: the baccalaureate or bachelor's degree, the master's degree, and the doctorate. A special style of robe is prescribed for each. The bachelor's gown is sparsely cut, neat, but a bit skimpy and unadorned, as befits apprentices. The master's gown is still simple, but fuller, sports a sleeve of extraordinary design impossible to describe, and has a hood draped from the shoulders down the back. Once used to keep the frost from the tonsured heads of medieval clerks, the hood now is solely a badge of a degree of scholarly achievement. The master's hood is small and

narrow, but displays the colors of the institution that awarded the degree. If you knew the colors of American universities, you could easily identify whence came our masters. The doctoral robe is the most handsome of academic raiment. Generous of cut, of fine aristocratic stuff, it is faced with velvet and emblazoned with velvet chevrons on the ample sleeves. You will note that most of the velvet facings and chevrons are black, but that some are of other colors. According to personal taste, the doctor may display the color of his doctoral degree on his sleeves and facings: light blue for education, pink for music, apricot for nursing, orange for engineering, and many more. The royal blue of the Doctor of Philosophy (Ph.D.) is the most commonly seen in liberal arts institutions such as Oakland. The doctor's hood is the most elegant of all academic appurtenances. Large and graceful, it is lined in satin with the colors of the university that awarded the degree and is bordered with the color of the degree itself. Most academic costumes include the square cap called a mortarboard; the doctor's tassel may be either black or gold — tassels of all other degrees are black and stringy.

To instructed eyes, the order of march in the processional and recessional reveals the standing of individuals in the institution's formal hierarchy. In the processional the order of entrance into the hall is, quite fittingly, from most junior to most senior. The baccalaureate candidates enter first, followed successively by the masters and doctoral candidates

with the whole separated from the faculty by a decent interval. In the faculty order, the instructors precede the assistant professors who in turn are followed by the associate professors. The august full professors bring up the rear. After a respectful distance come the deans who in turn are separated by a significant space from the awful majesty of the platform party, the president, the vice president, and the members of the board of trustees. All remain standing until the board is seated. After the ceremony, the order of recessional is the reverse of the processional. The greatest dignitaries stream out of the hall first, with the artfully organized ranks of priority wallowing in their wake.

It is hoped that these notes may make more intelligible the spectacle you are witnessing today. A discerning intelligence may detect in it many clues to an understanding of the academic profession as it confronts the ambiguities of the future with ancient wisdom and dignified confidence.



# DEGREES AWARDED DECEMBER 1989

## DOCTOR OF PHILOSOPHY

### **Systems Engineering**

Hong Xing Hu

Dissertation: *Design and Analysis of  
Robust Optimal Parametric Control  
Systems*

## MASTER OF SCIENCE

### **Computer and Information Science**

Yin Chun Chu

Keith A. Dickey

Huimin Lin

### **Computer Science And Engineering**

Maureen Bell Field

Duc-Khanh Bui

Roger Jen-Chang Hsu

Hugh Hui

Irving Rosenstein

Lary Waldon Sieh

Chia-Poh Tai

### **Electrical and Computer Engineering**

Ronald Anthony Bizzocchi

Tejaswini K. Gokhale

Kevin Michael Plante

### **Mechanical Engineering**

Timothy John Clever

John M. Griffin

Paul Russell Messina

Scott D. Parker

### **Systems Engineering**

John Rolland Giampa

Thomas Kanjirath Joseph

David S. Nacy II

Afsaneh Nematollahi

Kadry William Rizk

Keok Swee Tan

## BACHELOR OF SCIENCE

### **Computer and Information Science**

Patrick Joseph O'Meara

Beena Paul

Sally June Rende

Anthony Angelo Vitale

Bruce Alan White

### **Computer Science**

Rachelle Ann Fowler

Theodore Lee Hinz

### **Engineering Physics**

Stephen Richard Diem

## BACHELOR OF SCIENCE IN ENGINEERING

### **Computer Engineering**

Sandeep Ahuja

Tamer A. Dandachi

Ruth A. Drellishak

Nicole Yvette Howard

AnnMarie Lebioda

Michael Gerard Schena

Richard Spariosu

Bradley Andrew Traub

**Electrical Engineering**

Russell John Joseph Astrino  
Michael Roland Burke  
Scott Anthony Campbell  
Edwin Thomas Carlen  
Paul Anselm Felcyn  
Robert Mariani  
Ronald William Reichenbach  
Matthew James Reisner  
Daniel Joseph Rhein  
Manjote Kaur Sandhu  
David Andrew Smyczynski  
John Douglas Storey  
Bradley Andrew Traub  
James William Zeleznik  
Michele Terese Zinger

**Mechanical Engineering**

Jeffrey Allan Boismier  
Lance Joseph Butler Jr.  
Timothy John Durand  
Philip John Francis  
Jon Paul Gleeson  
Jeffrey Robert Holan  
Gerald John Keller  
Laura Lynn Koczkodan  
Henry Martin LeMarbe  
Mark Emil Lenz  
Alexander John Petrusha  
Diane Maureen Schwark  
Victoria Kay Steffens  
Steven John Stimson



# CANDIDATES FOR DEGREES APRIL 1990

## DOCTOR OF PHILOSOPHY

### **Systems Engineering**

Abdallah Mohamed Elramsis

Dissertation: *A Joint Domain  
Neural Net Approach for Image  
Representation and Classification*

## MASTER OF SCIENCE

### **Computer and Information Science**

Su-Ming Chen

Liuching Gail Cheng

James Paul Gouin

N. Ali Noui-Mehidi

Susanta Prasad Sarkar

Kelchen Shih

Inger Kirsten Tavi

### **Computer Science and Engineering**

Chun Ada Dong

Glenn W. Foster

Mark James Kurowski

Rajani Mahadevan

Gregory James Mason

Tamra Lynne McIntyre

Mukesh C. Shah

Rajiv Kumar Singh

### **Electrical and Computer Engineering**

Gary Lee Aldrich

Joseph Prasanna Fernando

Kenneth George Mick

Ricardo Antonio Pastor

Anupama Sampathi Reddy

Kevin James White

### **Mechanical Engineering**

Jeffrey E. Lewis

Daniel E. Ostberg

Paul Steven Pakizer

Susan Carol Stroker-Lee

### **Systems Engineering**

Paul David Benedict

### **Systems and Industrial Engineering**

Christopher A. Hecker

Jerome James Kendrek

Robert Frank McGraw

Gerald Lee Thweatt

## BACHELOR OF SCIENCE

### **Computer Science**

Rita Khatri

Kenneth James Taylor

Michael Ward Wilhelm

### **Computer and Information Science**

John E. Brady

Christine Bea Cameron

Charlotte Marie Klein

Gary Thomas Leitner

Keith Allen MacFadyen

Anthony William Robinson

William Alton Russell-Proctor

**Engineering Chemistry**  
Julianna Brigitta Froehlich  
Steven James Martin

## BACHELOR OF SCIENCE IN ENGINEERING

### **Computer Engineering**

Azmar Hatat Anis  
David John Higgins  
Michael Myron Klink  
Hng Kay Lim  
Arthur Paul Roberts  
Patrick William Schoening  
Lisa Cara Sobetski  
William George Varon  
Thanh Van Vu  
Jeffrey Melvin Wojtalewicz

### **Electrical Engineering**

Basel Osama Abdulmajid  
Paul Kenneth Baker  
Andrew Martin Barba  
John Edward Clausen  
Mary Lou Delia  
William S. Edwards  
Anne Fadler  
John Mario Fantin  
Jeffrey T. Grondz  
Norris Gene Hardeman II  
David J. Kujawa  
Daniel Joseph Luzenski  
Pamela Sue Mabee  
Alec Roland Mis  
Terry Nathan Murray  
Victor James Paul

Trudy Marie Perry  
Ekaterini N. Prantzalos  
Arthur Paul Roberts  
Arthur M. Rutyna  
Patrick William Schoening  
Daniel John Serafin Jr.  
David F. Taylor  
Theresa Ann VanDenBerghe  
Tina Anna Wink  
Dean Thomas Wisniewski  
Joellin Stella Wojtczak  
Peter Zura

### **Mechanical Engineering**

Rachelle Ashman  
William S. Edwards  
Vincent J. Griffiths  
John Carl Lohr  
James Edward Louwsma  
Wayne A. Lowmaster  
Ted Raymond Martin  
Mary Ann Monteleone  
David Carl Noel  
Jill Anne Palazzolo  
Darren Lee Pontin  
Leanne Marie Rucker  
Robert Michael Scully  
Donald Nicholas Stacey  
Daniel William Thomas  
James Robert Westbrook III  
Susan Marie Young  
Patrick John Zelinski

### **Systems Engineering**

Robert Ronald Misch  
Dean Thomas Wisniewski

# ABOUT HONORS AND AWARDS

On the occasion of commencement, the university offers special recognition to those students who have attained outstanding levels of academic achievement and service.

Students who have demonstrated superior performance in the courses of their major subject area are awarded School Honors. The faculty of the School of Engineering and Computer Science has elected several graduating seniors to receive School Honors in engineering or in computer science.

The University Senate of Oakland University has established three levels of University Honors to recognize superior academic performance in all subject areas. Students who have completed at least 62 credits of study at Oakland University and whose cumulative grade point average ranges between 3.60 and 3.74 graduate *cum laude*. A student who has earned a grade point average between 3.75 and 3.89 graduates *magna cum laude*. Students attaining the highest academic level, grade point averages of 3.90, and above, graduate *summa cum laude*.

Additionally, the faculty of the School of Engineering and Computer Science has created several awards to honor graduating seniors who have distinguished themselves by truly outstanding scholarship in engineering studies, by outstanding technical development toward the engineering profession and by exemplary service to the school. These special awards are marked by the presentation of certificates and prizes to the recipients and also by the engraving of the recipients' names on permanent commemorative plaques in Dodge Hall of Engineering.

The faculty extends most hearty congratulations to all of the students receiving honors and awards at this commencement exercise.

## HONORS AWARDED DECEMBER 1989

### UNIVERSITY HONORS

#### *SUMMA CUM LAUDE*

Manjote Kaur Sandhu

#### *CUM LAUDE*

Ruth A. Drellishak

Jon Paul Gleeson

### DEPARTMENTAL HONORS

#### **Computer Engineering**

Ruth A. Drellishak

#### **Electrical Engineering**

Heather Lynn Creps (June 1989)

Ronald William Reichenbach

Manjote Kaur Sandhu

James William Zeleznick

Michele Terese Zinger

#### **Computer Science**

Kenneth Joseph Reinhardt

(August 1989)

Sally June Rende

Bruce Alan White

#### **Mechanical Engineering**

Jon Paul Gleeson

Victoria Kay Steffens



# HONORS AWARDED APRIL 1990

## UNIVERSITY HONORS

*CUM LAUDE*

Wayne A. Lowmaster

## DEPARTMENTAL HONORS

**Computer and Information Science**

Christine Bea Cameron

**Computer Science**

Kenneth James Taylor

**Electrical Engineering**

Andrew Martin Barba

John Mario Fantin

David F. Taylor

Joellin Stella Wojtczak

**Mechanical Engineering**

John Carl Lohr

Wayne A. Lowmaster

Patrick John Zelinski

## SCHOOL OF ENGINEERING AND COMPUTER SCIENCE SPECIAL AWARDS

**Award for Exceptional Achievement:**

Manjote Kaur Sandhu

**Award for Academic Achievement:**

Patrick John Zelinski

**Award for Professional Development:**

Christine Bea Cameron

**Award for Service:**

Tina Anna Wink

Dean Thomas Wisniewski

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Engineered Systems Division

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Rochester, Michigan