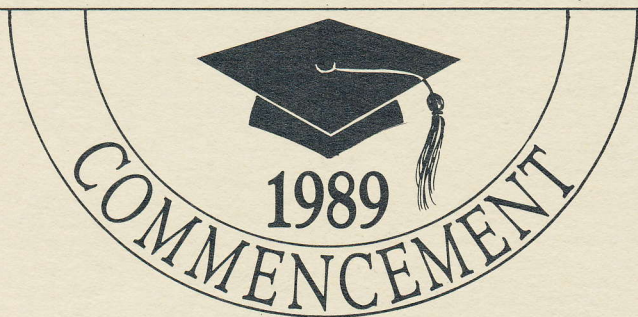

OAKLAND UNIVERSITY





The motto of Oakland University, "*Sequir Virtute E Canoskenza*," 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 canoskenza*

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

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

June 3, 1989
10 a.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*
School of Engineering and Computer Science

Commencement Address

Ralph E. Reins
President and Chief Executive
ITT Automotive

Presentation of Honors

Presentation of Special Awards

Presentation of Candidates for the Ph.D. Degree

Presentation of Candidates for the M.S. Degree

Presentation of Candidates for the B.S.E. and B.S. Degrees

Salutation

Tracey A. Stanyer
Graduating Senior

Alumni Welcome

Bruce S. Wilber
School of Engineering and Computer Science Alumni Affiliate

Valediction

Keith R. Kleckner
Senior Vice President for University Affairs and Provost

Recessional

Reception

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

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 1988

MASTER OF SCIENCE

Computer and Information Science

Walter Anthony Baxter
Steven Michael Chegash
Chuan Chuan Chen
Darrell Craig Hovinen
Gary John Rudnicki
Theresa Suzanne Tassie
Marjorie Echan Wu

Computer Science and Engineering

Nasser M. Abbasi
Chiou-Shya Nancy Chao
Douglas Brian Craig
David Allen Graesser
Scott Alan Hatfield
Robert Lipset
Kevin Patrick McGunagle
William James Smuda
Rajeswari Vishnubhotla

Electrical and Computer Engineering

James Michael Oderkirk

Mechanical Engineering

Carol Susan Butts
David Webster Clark
Sanford Jay Gorney
Don Lee Matthews
Michael Anthony Rosinski
Vernon James Scott Jr.
Andrew Joseph Siring
James Michael Stanick
Michael Robert Workings

Systems Engineering

Choon Fun Khoo
Lay-Kheng Poh
Roy T. Santola
Liwa Wang

Systems and Industrial Engineering

Thomas Gerard Blaska
Chiehsiung Kuo
Joseph Michael LoGrasso
Paul R. Pedrie
Robert Steven Smyczynski
John Scott Steurer
Michael Paul Turski

BACHELOR OF SCIENCE

Computer and Information Science

Beth Janine Allison
Karen Marie Arini
James Alan Collison
Suzanne Kathleen Goike
John Hundiak
Jeffrey Alan Lutes
Linda Ellen Miller
Michael Charles Roberts
Nora Sitto
Inn Hwan Song
A. David Takus

Engineering Chemistry

Louise Margaret Buyse

BACHELOR OF SCIENCE IN ENGINEERING

Computer Engineering

Stephen David Hiott
Ahmad Mousa Jafar
David Michael Krastes
Mark Allen Kretz
Ralph Edward Menzel
Giamberto Scaccia
Sandro Scaccia
Jeffrey Harold Teska

Electrical Engineering

Kenneth John Behr
Richard M. Bentley
Thomas Gerard Clark
Cathleen Barbara Conigliaro
Tyrone Patrick Gallagher
Bryant D. Grytzeliuss
Vernon Duane Hole
Robert John Jozefiak
Michael Bryan Kieda
Brian Thomas Kowalik
Kenneth Charles Lenneman
Daniel Charles McGarry
Paul Michael Medaugh
Jeffrey Jacob Nalazek
David Anthony Patak
Timothy J. Paton
Lawrence Ross Robinson
Frederick Leonard Rubarth
Giamberto Scaccia
Sandro Scaccia
Tracey A. Stanyer
Jeffrey Harold Teska

Mechanical Engineering

Mark L. Bruderick
Glenn Thomas Bullock
Richard Alfredo Corona
Thomas A. Dewey
Paul David Duncanson
Susan L. Fedewa
Richard Thomas Fleschner
Frank Joseph Herzenstiel II
Randolph James Hunsberger
Stephen Gerard Mazur
Brian Paul McLaughlin
Edwin Randall Murray
Michael Edward Nishek
Gary Gunar Olzem
James Roy Reed
James F. Reichenbach
Stephen Graham Smith
John E. Tisch
Mark J. Woloszyk
Paul Leonard Yetter

Systems Engineering

David S. Matynowski

CANDIDATES FOR DEGREES APRIL 1989

DOCTOR OF PHILOSOPHY

Systems Engineering

Deshan Chang

Dissertation: *The Parity Structure
and Discrepancy Diagnosis of Large
Remotely Located Files*

Mark Joseph Paulik

Dissertation: *Analysis and
Classification of Planar Shapes and Textures
Using Stationary and Spatially
Varying Autoregressive Models*

MASTER OF SCIENCE

Computer and Information Science

Craig R. Carpenter

Peter Hon-You Chang

Jim Alan Degen

Thomas Cameron Hill

Brian Patrick Moore

Shailaja Ramkrishna Phatak

Kelchen Shih

Gursharan Singh Sodhi

William Robert Tarr II

Margaret Ann Tuttle

Samuel Frederick Voigt Jr.

Forrest Steven Wright

Computer Science and Engineering

John Charles Gudenburr

Helen Ching-Ho Kao

Shan-Shan Chung Yen

Electrical and Computer Engineering

Rita Bandhopadhyay

June Lynn Burgett

Stephen J. Byrne

Kwek Hwa Chang

Dennis Michael D'Hondt

Walter Joseph Fielek

Karin Lynn Herbert

Matthew Donald Holloway

Michael Patrick Liu

Mary E. Masko

James Craig Smith

Mechanical Engineering

David Brian Brown

John Baker Fisher

James A. Fortune

Michael Alan Voight

Michael Terence Wattai

Bruce Scott Wilber

Systems Engineering

Haytham Fayyad

Systems and Industrial Engineering

Steven Craig Lutes

Laura Anne Payne

David James Wyatt

BACHELOR OF SCIENCE

Computer and Information Science

Vincent Owen Callaghan

Dody L. Cameron

Robin Jacqueline DesRosiers

Robert P. Girard

Thomas Joe Hacker

William Robert Healy

Dawn L. Kennedy

Tamara Jeanne Lamreaux

Mary Paula Moran

Shawn Patrick Pence

David Albert Richie

Steven Maurice Sikorski

Karyl Lee Upleger

Robert Mark Wilkinson

Margaret C. Wujcik

BACHELOR OF SCIENCE IN ENGINEERING

Computer Engineering

Mark Anthony Alestra
John David Griswold
James Rutledge Piscopink

Electrical Engineering

Lauren M. Balick
Steven M. Berry
Matthew Gorman Branch
Wesley William Bylsma
Ghassan S. Chehayeb
Randal J. Cifolelli
Hoang Huy Do
James Richard Gerjekian
Ronald Jerome Grajewski
Andrew Malen Gray
Vincent John Hackel
Robert Elias Haddad
Jeffrey R. Hemingway
Howard James Heyl
Jacqueline M. Jennings
Daniel Lynn Lauback
Douglas C. Martin
Julie Marie Mulberger
Patrick Fitzgerald Neff
John S. Nemeh
Chau Ngoc Nguyen
Richard J. Rej
Jennifer Lynn Rogers
Ranjan K. Shah
Timothy S. Strong
Frank Walter Szuba Jr.
Dennis Lawrence Taus Jr.
Rickey Keith West
Mark Thomas Winkelbauer

Mechanical Engineering

William James Adamson
Ann Marie Bogdziewicz
Jane Marie Coleman
John P. Crombez
Joseph Charles DeLisle
Catherine Ann Devoss
Sharen Jane Eden

Daniel Paul Fenton
Mark Robert Fistler
James Thomas Hassberger
Terry James Herfurth
Gregory Allen Jorgensen
Jeanne L. Kimmel
Robert James Klakulak
Mark Emil Lenz
Sammy Curtis Lumetta
Rose Marie Monteleone
Gary Lee Otto
Joseph J. Pellerito
Kenneth John Roumayah
Behnam Saffari
Eduardo Turla Saplala II
Alfred M. Schankin
Peter Joseph Schihl
Robert Michael Scully
Robert John Taylor
Mark Tompkins
Christina M. Troy
Scott C. Turner
Rene Lynn Wedekind
Harvey John Yera

Systems Engineering

John Derrick Butkiewicz
Patrick Allen Duda
John David Griswold

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 1988

UNIVERSITY HONORS

SUMMA CUM LAUDE

Tracey A. Stanyer

MAGNA CUM LAUDE

Jeffrey Jacob Nalazek

Paul Leonard Yetter

CUM LAUDE

Richard M. Bentley

Electrical Engineering

Richard M. Bentley

Bryant D. Grytzeli

Jeffrey Jacob Nalazek

Tracey A. Stanyer

Mechanical Engineering

Richard Thomas Fleshner

James F. Reichenbach

Stephen Graham Smith

Paul Leonard Yetter

DEPARTMENTAL HONORS

Computer and Information Science

Michael Charles Roberts

HONORS AWARDED APRIL 1989

UNIVERSITY HONORS

MAGNA CUM LAUDE

John David Griswold

CUM LAUDE

Ronald Jerome Grajewski

Peter Joseph Schihl

DEPARTMENTAL HONORS

Computer Engineering

John David Griswold

Computer and Information Science

Shawn Patrick Pence

Robert Mark Wilkinson

Electrical Engineering

Matthew Gorman Branch

Wesley William Bylsma

Randall J. Cifolelli

Ronald Jerome Grajewski

Daniel Lynn Lauback

Mechanical Engineering

Gregory Allen Jorgenson

Peter Joseph Schihl

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General Motors Research Laboratory

Hadi A. Akeel, Ph.D.
GMF Robotics

Allen A. Alper, Ph.D.
GTE Products Corporation

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Chrysler Corporation

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Rockwell International

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Lamont Eltinge, Ph.D.
Eaton Corporation

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GKN Automotive Components, Inc.

Thomas O. Mueller, Ph.D.
Consultant

Ernest N. Petrick, Ph.D.
General Dynamics Corporation

Donald W. Rees
Survivability Division,
U.S. Army, TACOM

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Joseph E. Champagne, *University President*
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Rochester, Michigan