Oakland University Commencement

1986

The motto **Seguir Virtute E Canoscenza,** has a very distinguished origin, Canto XXVI, l. 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

10:00 a.m.
June 7, 1986

Varner Recital Hall
Paula and Woody Varner Hall
Oakland University
Rochester, Michigan

MUSICAL ARTISTS
John E. Smith, *trumpet*

PROCESSIONAL
Trumpet Voluntary . . . . . Jeremiah Clark

RECESSIONAL
Rondeau . . . . . Mouret

PROGRAM

PROCESSIONAL

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

WELCOME

John J. Metzner, *Acting Dean*

COMMENCEMENT ADDRESS

Robert M. Sinclair, *Vice President of Engineering*
Chrylser Corporation

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

Gerald S. Dittrich
Graduating Senior

ALUMNI WELCOME

Kathleen E. Simonyi
Engineering and Computer Science Alumni Association

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 volumnious 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 institutions 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 1985

DOCTOR OF PHILOSOPHY

SYSTEMS ENGINEERING

Abdul-Amir Ahmed Abdul-Wahab, B.E.E. Kuwait University, M.S. Electrical Engineering, Wayne State University
Dissertation: Robust Stabilization of Linear Multivariable Systems

MASTER OF SCIENCE

COMPUTER AND INFORMATION SCIENCE

Joseph Lloyd Begovich
Pamela K. Haron
Ellen Anne Knapp

ELECTRICAL AND COMPUTER ENGINEERING

Gary Kenneth Lowe

MECHANICAL ENGINEERING

Farshid Ahmady-Izady
Keith Alan Hagan

SYSTEMS AND INDUSTRIAL ENGINEERING

Trieu-Ky Ho
Robert George Izak
Phyllis Leigh McIntosh
Fred William Schroeder

BACHELOR OF SCIENCE

COMPUTER AND INFORMATION SCIENCE

Barry Grant Bevier
Timothy Joseph Borden
Jeanette M. Carnaghi
Laura Jean Cramer
Kevin Paul Flemming
Holly Coreen Henrichs
Linda Diane Knight
Andrew Paul Potter
Catherine Colleen Quinlan
Wilson Bryan Revenaugh, III
Richard Allen Schummer
Liping Shih
Christine Sitko
Nicholas Charles Sulkowski
Barrie S. Vince
Gayle Marie Waelchli

BACHELOR OF SCIENCE

College of Arts and Sciences
and School of Engineering and Computer Science

ENGINEERING CHEMISTRY

Stephen Paul Cutts

BACHELOR OF SCIENCE IN ENGINEERING

COMPUTER ENGINEERING

Abdel-Fattah Musa Abualbusal
A-Hamid Mohd S. A. Akbar
Kurt C. Blust
Cynthia Jean Grabowski
David Anthony Hein
Elise Lee Horowitz
Mark Edward Hurley
Scott Douglas Outland
Linda Louise Pscheidl
Steven Regueiro

ELECTRICAL ENGINEERING

Faris Salim Abdulhadi
Mark Robert Brorson
Gordon Dale Cheever, Jr.
Charles Lee Chisholm
Glen Alexander DeGrendel
Vincent Paul Mandarino
Cary Drake Perttunen
Mark William Peters
Ron R. Peteuil
Gary Walter Taraski
Allen Zwierzchowski

ELECTRICAL AND COMPUTER ENGINEERING

Robert Thomas Arntz
Gregory Scott Heleski

MECHANICAL ENGINEERING

Thomas John Allard
William John Barz
Joseph I. Boivin
David Gordon Calderone
David F. Copp
Nancy Jane Ebach
Elaine Irwin
James Robert Keller
Michael J. Kostrzewa
Richard Lee Lux-Grant
Scott Preston Newman
Jason Thomas Raedy
Lisa Mae Safford
Gordon B. von Zellen
Kevin Scott Weber

MECHANICAL AND SYSTEMS ENGINEERING

Peter John Ventimiglia, Jr.

CANDIDATES FOR DEGREES
APRIL 1986

DOCTOR OF PHILOSOPHY

SYSTEMS ENGINEERING

Gabriel Sabino Castelino, B. Tech. in Electronics and Electrical Communication Engineering, Indian Institute of Technology, Kharagpur, India, M.S. Electrical and Computer Engineering, Oakland University
Dissertation: Remote Procedure Calls for a Network of Loosely Coupled Single-Chip Micro Computers

MASTER OF SCIENCE

COMPUTER AND INFORMATION SCIENCE

Maria Dolores Aguirre-Cobo
William Curtis Haga
Faramarz Khoshnoud
Martin John Novak
Stephen Eugene Riley
Mark Andrew Steury
Frances Maureen Vallely
Ming-Ching Alicia Yee

ELECTRICAL AND COMPUTER ENGINEERING

Norman Thomas Caramagno
Marc Bryan Center
Dennis Michael D'Hondt
Lorraine E. Krolikowski
William Hubert Mattingly II
Abu Muzaffar
Charles Henry Nagi
Alexander Allen Reid
Diane C. Ross
Peter Alois Tropper

MECHANICAL ENGINEERING

Patricia Ann Bammel
Thomas William Bulliner
Gregory Neal Corey
Gregory W. Davis
Donald Gerard Hillebrand
Robert David Johnson
Edmund Walter Matkowski
Susan Marie Phillips
Suzanne Marie Stahl
James Willis Tindall
James Stephen Walsh
Matthew Ward Witte

SYSTEMS AND INDUSTRIAL ENGINEERING

Timothy J. Barnard
Harry William Bedard III
Suzanne Martha Bulver
Peter Charles Hadad
Scott B. Holland
John M. Hrit
Robert Franklin Norman
Jinghua Zhao

BACHELOR OF SCIENCE

COMPUTER AND INFORMATION SCIENCE

Kim Alan Bloxsom
David A. Borland
David A. Borle
Charles William Braidwood, Jr.
Jacqueline Maria Brown
Nancy E. Calme
Craig James Christensen
Armando Andres Diccion
Mary Ann Dimercurio
Susan Ann Fagan
Thomas Edmund Gallop
Anu Radha Gavini
Mark Dana Guthrie
Debra Sue Haberland
Brian Keith Hibbard
Michele Higbee
Mary Lee Hyde
Gail M. Karbal
William Kevin Kirkpatrick
John Frank Kloc
Charles Henryk Kusmirek
Laura Ann Lamparski
Judith Ann Maiers
Nanette Elaine Mapes
David Matthew Marttila
Joseph Michael Maywood
Tracy Leigh McDermott
Jeffrey Alan McLean
Michael Casmere Murawka
Brian Keith Reetz
David Bernard Ring
Judith Lynne Rudolph
Mark Allen Ruprich
Linda Sattler
Gary Donald Schmidt
Howard Jeffrey Spector
Shou-Yin Ho Su
Jan Marie Thomas
Inger Kirsten Tingstad
Todd William Townley
Ronald Alan Tran
Karyl Lee Upleger
Sandra Sue Vink
Michael James Wallace
Ann Margaret Marie Withey

BACHELOR OF SCIENCE

College of Arts and Sciences
and School of Engineering and Computer Science

ENGINEERING CHEMISTRY

David A. Inkpen

BACHELOR OF SCIENCE IN ENGINEERING

COMPUTER ENGINEERING

Michael James Gietzen
John William Hoffman
Donald J. MacDonald
Dinu Petru Madau
David Anthony Monacelli
Harmon Sequoya Nine
Alan Robert Pluta
Michael Joseph Polan
Mitchell Paul Radelt
Edward J. Ruiz
Faye Dorothy Schilkey
Richard James Woerner

ELECTRICAL ENGINEERING

Christian Gregor Bjelica
Mark R. Bornais
Mary Evangeline Bournais
Mark Edward Buccini
Christopher Michael Chowning
Steven E. Christenson
John Paul Christiansen
Thomas David Costello
Gerald Steven Dittrich
Kin C. Fung
Thomas David Hasse
Denise Carol Hodges
Peter Joseph Hoopfer
William Hoke Jenkins III
David Leonard Kwapis
Ronald Joseph Landry
Theresa Lynn Lawler
Charles William Modzinski
Jeffrey Mohr
Edward John Nowak
Abed El-Jalil Shiban Okab
Steven J. Roskowski
Stephen George Rosneck III
Garrett Angelo Taormina
Jeffrey Edwin Zenisek

ELECTRICAL AND COMPUTER ENGINEERING

Sonia N. Choksi
Evelyn Jane Klauer
Michele Marie Kost
Jean Louise Kwapis
Donald Stewart Letosky
Gary Keith Lewis
Edward J. Ring

MECHANICAL ENGINEERING

Christopher Todd Archutowski
Michael Walter Gajewski
Anthony Paul Glover
Gregory Neil Goestenkors
Ronald Scott Kemp
Michael Lee Kulhanek
Kenneth Taylor Milne III
Robert Simmons Morrow
Saed Nazari
Holly Ann Smith
George Soulis
Flavio Antonio Stoppa
Aaron Lynn Tuck
Dennis Alan Vroman

SYSTEMS ENGINEERING

Colin W. Carpenter
Daniel Joseph Erhardt
Steven Michael Glisky
Kimberly Ann Pogue
Julia Elva Rivard
Susan Anne Shimokochi

HONORS COLLEGE

The Honors College has been established for highly motivated students to provide an unusually challenging general education along with additional requirements to augment the elected major.

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE AND COLLEGE OF ARTS AND SCIENCES HONORS COLLEGE CANDIDATE DECEMBER 1985

Stephen Paul Cutts

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 designated to graduate with 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 sustained 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 special 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 1985

UNIVERSITY HONORS

SUMMA CUM LAUDE

Gordon Dale Cheever, Jr.

MAGNA CUM LAUDE

Kurt C. Blust
Joseph I. Boivin

CUM LAUDE

Stephen Paul Cutts
Cary Drake Perttunen

SCHOOL HONORS

COMPUTER AND INFORMATION SCIENCE

Timothy Joseph Borden
Laura Jean Cramer
Richard Allen Schummer

COMPUTER ENGINEERING

Kurt C. Blust
David Anthony Hein

ELECTRICAL ENGINEERING

Gordon Dale Cheever, Jr.
Cary Drake Perttunen

ENGINEERING CHEMISTRY

Stephen Paul Cutts

MECHANICAL ENGINEERING

Joseph I. Boivin
David F. Copp
Lisa Mae Safford

HONORS AWARDED APRIL 1986

UNIVERSITY HONORS

SUMMA CUM LAUDE

Linda Sattler

MAGNA CUM LAUDE

Mark Dana Guthrie
William Hoke Jenkins, III
Theresa Lynn Lawler
Nanette Elaine Mapes

CUM LAUDE

Michael Walter Gajewski
Debra Sue Haberland
Michael Casmere Murawka
Harmon Sequoya Nine
Edward John Nowak
Inger Kirsten Tingstad

SCHOOL HONORS

COMPUTER AND INFORMATION SCIENCE

Kim Alan Bloxsom
Nancy E. Calme
Mark Dana Guthrie
Debra Sue Haberland
William Kevin Kirkpatrick
Nanette Elaine Mapes
Tracy Leigh McDermott
Michael Casmere Murawka
Linda Sattler
Jan Marie Thomas
Inger Kirsten Tingstad
Todd William Townley

COMPUTER ENGINEERING

Harmon Sequoya Nine

ELECTRICAL ENGINEERING

William Hoke Jenkins, III
David Leonard Kwapis
Ronald Joseph Landry
Theresa Lynn Lawler
Donald Steward Letosky
Edward John Nowak
Garrett Angelo Taormina

MECHANICAL ENGINEERING

Michael Walter Gajewski

BOARD OF VISITORS OF THE SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

A. M. Alper ..... GTE Products Corporation

Guy D. Barnicoat ..... Lectron Products Inc.

W. Dale Cutler ..... Whirlpool Corporation

Herbert H. Dodds ..... U.S. Army Tank Automotive Command

Lamont Eltinge ..... Eaton Corporation

S. D. Jeffe ..... Sheller-Globe Corporation

Thomas O. Mueller ..... General Polymers

E. N. Petrick ..... General Dynamics Corporation

Lothar Rossol ..... GMF Robotics

John Withrow ..... Chrysler Corporation

OAKLAND UNIVERSITY BOARD OF TRUSTEES

Oakland University is a legally autonomous state institution of higher learning. Legislation creating Oakland University as an independent institution, separate from Michigan State University, was established under Act No. 35, Public Acts of 1970. The university is governed by an eight-member board of trustees appointed by the governor with the advice and consent of the state senate. The president of the university is appointed by the board of trustees and is an ex officio member without vote. The board also appoints a secretary and treasurer.

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David Handleman, Vice Chairperson
Donald L. Bemis
Phyllis Law Googasian
Patricia B. Hartmann
Alex C. Mair
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Joseph E. Champagne, President
John H. De Carlo, Secretary
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