OAKLAND UNIVERSITY

1991

COMMENCEMENT

OAKLAND UNIVERSITY

SEGUIR VIRTUTE
E CANOSCENZA

1957
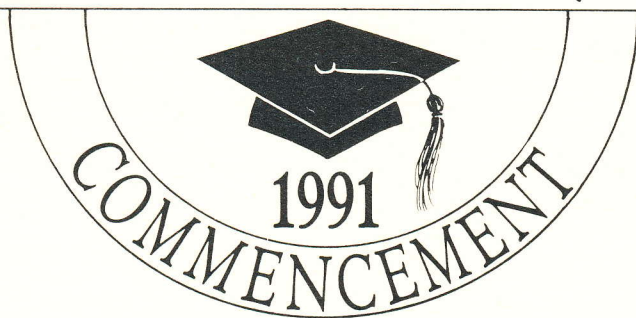
The motto of Oakland University, *"Seguir Virtute E Canoscenza,"* which is incorporated in its seal, has a distinguished origin, Canto XXVI, 1. 120, of Dante's *Inferno.*

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 1, 1991
4 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
Timothy D. Leulliette
President and *Chief Executive Officer*
Siemens Automotive

Recognition Award

Presentation of Honors

Presentation of Special Awards

Presentation of Candidates for the Ph.D. Degree

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

Salutation
Randy A. Graca, *Graduating Senior*

Alumni Welcome
Mark A. Mikolaiczik, B.S.E. 1986
Product Design Engineer
Ford Motor Company

Valediction
Keith R. Kleckner
Senior Vice President for Academic Affairs and *Provost*

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

Reception

Music by Andrea and Brian Moon
Trumpet and Keyboard

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 1990

DOCTOR OF PHILOSOPHY

Systems Engineering
Myoungho Sunwoo
  Dissertation: *Adaptive Control of Vehicle Active Suspension Systems*

MASTER OF SCIENCE

Computer and Information Science
Jayaraman Nagarajan
Mythili Srinivasan

Computer Science and Engineering
Srinivas Balakrishnan Chande
Caiyun Gao
Eric Ralph Holm
Eduard Kagan
Wen-Li Liu
Ayyaswamy Sampath
Roland Joseph Schemers III
Diana Marie Wegner

Electrical and Computer Engineering
Marvin Correia
Jeannine Clarissa Eddy
Patricia Maureen Flint
Craig Kevin Gibson
James A. Kelly
Gary Keith Lewis
John Michael McLoughlin
Dzung Quoc Nguyen
Susan Kay Sonday
Dennis Wang
I-Mei Wu

Mechanical Engineering
James Ernest Bedenis
John H. Faarup
John Whittlesey Joyce
Ronald D. Strong

Systems and Industrial Engineering
Ann M. Czachor
Mary L. Czachor

Systems Engineering
Susanne Marie Dolecki
Michael Joseph Finta
Truc Trung Le
Edward Charles Montag
Fred C. Pike
Tracey A. Stanyer
Albert Tzyh-Ping Su

BACHELOR OF SCIENCE

Computer and Information Science
Paul Ernest Bigler
Kevin Russell Cline
Nancy A. Valos

Computer Science
John Matthew Bair
Bret A. Barel
Michael Jeffrey White

Engineering Chemistry
Ogie Gregory Stewart

BACHELOR OF SCIENCE IN ENGINEERING

Computer Engineering
Garry Andrew Barger
Charlie Elmetra Gandy
Phuong-Cac Mai Hoang
Christopher John Osborne

Electrical Engineering
Garry Andrew Barger
John Michael Borowski
Ronald Patrick David
Hiep Thanh Do
Steve Kalman Dobos
Robert F. Neff

Christopher John Osborne
Ekaterini N. Prantzalos
Daniel Arthur Reich
Jeffrey Carlton Thorsen
Timothy B. Townley
Gerald Thomas Wilds, Jr.

Mechanical Engineering
Michael Cameron Allen
Dan M. Bui
Joseph Willard Cobble III
Matthew Thomas Duda
Christian William Fabian
Michael Gregory Froude
Eric William Keljo
Mark W. Kroll
Brian Richard Lamparski
Kenneth Robert Osmun
Tracey Lynn Overman
Denean Marie Poole
Jeffrey Douglas Roman
John Jerome Sienkowski
George Matthew Ziegenmeyer

Systems Engineering
Christopher Ronald Beadle
John Fredrick Olejar
Paul Andrew Schoenherr

CANDIDATES FOR DEGREES
APRIL 1991

DOCTOR OF PHILOSOPHY

Systems Engineering
Ningjian Huang
  Dissertation: *Heuristic Optimal Control Systems: Theory and Applications*

MASTER OF SCIENCE

Computer and Information Science
Craig R. Carpenter
Chi-fen Judy Hung
Mark Clement Paxton

Computer Science and Engineering
Der-Rong Chang
Douglas James Duquaine
Christopher Scott Heidorn
Timothy Eugene Klingler
Michelle Kuo
Edward James Lavigne
ChiaChe Li
Jie Li
Majid Mokhbery
Thien Trong Nguyen
Marc Douglas Olenzek
Jeffrey David Parker
Geeta Bhupendra Patel
Latha K. Rao
Michael Charles Roberts

Electrical and Computer Engineering
Brian G. Babin
Phillip Gordon Bray
Brian Michael Cunningham
Benedetto P. DiCicco
Jeffrey Scott Garber
James Joseph Luyckx
Maya S. Mani
Lynn Marie Murawa

Mechanical Engineering
Luke Richard Bunge
Matthew A. Dering

Alexander Filanovsky
Kim Sue Garber
Ronald Hartfelder
Gary Lee Otto
Peter Joseph Schihl
Keith Anthony Zeitz

Systems and Industrial Engineering
Stephen Robert Davis

Systems Engineering
John Christian Cook
Laura Ann McCausland
Todd Robert Ridley

BACHELOR OF SCIENCE

Computer and Information Science
Charles Joseph Benvenuti
Bryan Lee Chaney
Kelly Anne Hartwell
Thomas J. Lee
Wayne Allen McDonald
George Ernest Montgomery
Martin Joseph Schauder
Thomas Joseph Tisdall
Jeffrey Dean Williams

Computer Science
Michael David Chachich
John E. Franzem
Kim Louis Pfeifle
John Charles Pietrasik
Muddu Krishna Salem
Yee-Lan Wong

Engineering Chemistry
John Kennedy Brennan
Monica K. Wild

Engineering Physics
Michael Philip Flaga

BACHELOR OF SCIENCE IN ENGINEERING

Computer Engineering
Nizam A. Abazid
Sheila F. Crawford
Tony Vu

Electrical Engineering
Bart Henry Bellmore
Prama Bhatt
Jim Kenneth Chilson II
Matthew Scott Chriss
Gregory William Cole
Francesco Enea
Vasil D. Germanski
Dale Kipton Goodwin
Randy A. Graca
James P. Kerrigan
Karen Naim Kheir
Katherine Ellen Larson
Sebastian Robert Lombardo
Theron Devol Marshall
Steven Anthony Mazurkiewicz
Steven M. Nowak
Martin Christopher Owens
Kathryn Ann Petersdorf
Michael J. Podoris
Ken Francis Rasmussen
Delia Rodi
James Walter Schmaltz
Martin Andrew Sikora
Arthur Earl Stephenson
Aleksandar Stojanovski
Philip Mark Theaker
Thumai Thi Thieu
Paul Andre VanOphem
Carl Gordon Zemke

Mechanical Engineering
Susan Maria Andries
Heidi Liescha Baumann
David F. Blaurok
Gary Francis Boyce
Steven Ray Brannan
Stephen Matthew Clancy
Hoa T. Dinh
Dean Gerald Elson

John Lee Feather
William Anthony Franzen
Kelly James Harris
Maynard Linus Isabell II
Paige Montgomery Johnson
Robert M. Krupp
Richard Patrica Lage
John P. McCluskey
Kevin Thomas Nalezyty
Daniel J. Nunez
Thomas Opalewski
Wendy Marie O'Rourke
Lawrence William Parets
Derek Laurence Patterson
Kathleen Marie Priest
Chris Harold Riedel
Craig Willard Riedel
Kurt Jerome Schulte
Karl John Sievertsen
Mark Edward Smith
Michelle Claire Steyaert
John Jay Stickney
Andrew James Taylor
Charles W. Velez

Systems Engineering
Debasish Nag
Brian Lee Van Laar

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 Departmental Honors. The faculty of the School of Engineering and Computer Science has elected several graduating seniors to receive Departmental Honors in engineering or in computer science. They are identified by red cords worn over their academic regalia.

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.* Students who have earned University Honors wear gold cords over their academic regalia.

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.

Membership in the Golden Key National Honor Society, an academic honors organization, is indicated by a purple cord with white tassels worn over academic regalia.

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

HONORS AWARDED DECEMBER 1990

UNIVERSITY HONORS

SUMMA CUM LAUDE

Kevin Russell Cline

CUM LAUDE

Ronald Patrick David
Hiep Thanh Do
Timothy B. Townley
Nancy A. Valos

DEPARTMENTAL HONORS

Computer and Information Science
Kevin Russell Cline
Nancy A. Valos

Electrical Engineering
Ronald Patrick David
Hiep Thanh Do
Timothy B. Townley

Mechanical Engineering
Michael Cameron Allen
Michael Gregory Froude
Kenneth Robert Osmun

HONORS AWARDED APRIL 1991

UNIVERSITY HONORS

SUMMA CUM LAUDE
Randy A. Graca

MAGNA CUM LAUDE
Susan Maria Andries
Martin Andrew Sikora
Michelle Claire Steyaert

CUM LAUDE
Gary Francis Boyce
Kim Louis Pfeifle
Yee-Lan Wong

DEPARTMENTAL HONORS

Computer Engineering
Sheila F. Crawford

Computer and Information Science
Kelly Anne Hartwell
Martin Joseph Schauder

Computer Science
Michael David Chachich
Kim Louis Pfeifle
John Charles Pietrasik
Yee-Lan Wong

Electrical Engineering
Prama Bhatt
Randy A. Graca
Sebastian Robert Lombardo
Martin Andrew Sikora
Aleksandar Stojanovski
Thumai Thi Thieu

Mechanical Engineering
Susan Maria Andries
Gary Francis Boyce
Kevin Thomas Nalezyty
Craig Willard Riedel
Michelle Claire Steyaert

Systems Engineering
Brian Lee Van Laar

HONORS COLLEGE

The Honors College has been established by the faculty of the College of Arts and Sciences for highly motivated students who wish an unusually challenging undergraduate education. It provides a specially designed general education and additional requirements in conjunction with a departmental major in the College of Arts and Sciences or in one of the professional schools.

The graduates listed below have completed programs in both Honors College and the School of Engineering and Computer Science; they are identified by white cords worn over academic regalia.

CANDIDATES APRIL 1991

Michael David Chachich

Randy A. Graca

Katherine Ellen Larson

Martin Andrew Sikora

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE SPECIAL AWARDS

Award for Exceptional Achievement:
Randy A. Graca

Award for Professional Development:
David Karl Schubring

Award for Academic Achievement:
Susan Maria Andries

Award for Service:
Delia Rodi

Oakland
UNIVERSITY

Rochester, Michigan