OAKLAND UNIVERSITY

1992

COMMENCEMENT

OAKLAND UNIVERSITY

SEGUIR VIRTUTE
E CANOSCENZA

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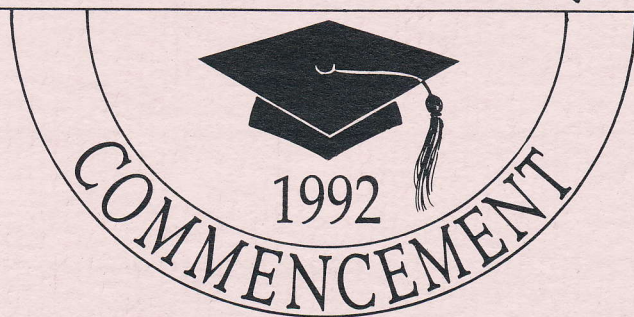
The motto of Oakland University, *"Seguir Virtute E Canoscenza,"* which is incorporated in its seal, has a distinguished origin, Canto XXVI, 1. 120, of Dante's *Inferno.*

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 6, 1992
7:30 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
Gino Giocondi
Vice President, Special Projects, Chrysler 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
Tricia M. Olszewski, *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 processial and the recessional.*

Reception
Music by Andrea and Brian Moon

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 1991

DOCTOR OF PHILOSOPHY

Systems Engineering

Scott Richard Burgett
  Dissertation: *Predictive Image Coding Using Two-Dimensional Multiplicative Autoregressive Models*

Richard B. Hathaway
  Dissertation: *Reference Plane Speckle Shearing Interferometry Utilizing Large Shear Displacements in the Detection and Quantitative Evaluation of Residual and Live-Load Stresses in Engineering Materials*

MASTER OF SCIENCE

Computer Science and Engineering

Peijun Huang
Bhavani Kodali
Mao-Hung Kuo
Sanjay R. Mehta
Eileen Patricia Shaughnessy-Gilbert
Hongtao Zhen

Computer and Information Science

Mark C. Paxton
James Francis Williams

Electrical and Computer Engineering

Scott Elbert Ashley
Wesley William Bylsma
Kevin James Greenwood
Ray Robert Joyce

Joseph Dale Long
Rohitkumar M. Patel
Paul Simmons

Mechanical Engineering

John Glen Arnold
Hugh Stefan Bauer
Dean John Finateri
David Thomas Renke
Ronald John Renke
Nicholas Edward Skierszkan Alan
Wayne Warren

Systems Engineering

Robert James Fascetti
Joseph Anthony Hebda

Systems and Industrial Engineering

Stephen Robert Davis
Ralph Peter Helmle

BACHELOR OF SCIENCE

Computer Science

Victor John Capton
Theresa Elaine Dock
Elizabeth Ling Grinbergs
Larry Joseph Grupido
Mark Andrew Lang
Darren Eugene Seablom
Colleen Ann Sienkiewicz
Victoria Irene Young

Engineering Chemistry

Linda Marie Kasper
David Arthur Warner

BACHELOR OF SCIENCE IN ENGINEERING

Computer Engineering

Steven D. Kuo
Rama Somanatha Sastri
   Madugula
Mary A. Ring
Daniel Lawrence Seeds
David Mark Stroupe
Jon Stroven

Electrical Engineering

Jeffrey Scott Aranowski
Edwin W. Bacon, Jr.
Frank Ben Burdick
Michael Thomas Cottrell
Max Marcel Dorflinger
Robert Thomas Duross, Jr.
Diana Lynn Dziwanowski
Karen Louise Eick
Michael Thomas Galiati
Tricia Lynn Jackson
Michael Christopher Macuga
Gail Christine Manderfield
Sashonda Renee Morris

David Lee Pavlish
Craig Jeffrey Peck
Phillis A. Ring
Dolly Yoshiko Shiina
David P. Stosiak
Gary Robert VanDeKerkhove
Tzuu-Tao Weng
Mary Ann Wilds

Mechanical Engineering

Gregory J. Abraham
Matthew Norman Brestovansky
James Dale Broadwater
Matthew Scott Fistler
Daniel Thomas Griffin
Scott J. Hardiek
John Allen Martuscelli
Deirdre Pettigrew
Thaddeus Henry Podmokly II
Thomas R. Rhodes
John Paul Shallal
James S. Tyler
Glen Paul Ursaki
Kristi Marie Woodard

Systems Engineering

Mary A. Ring

CANDIDATES FOR DEGREES APRIL 1992

DOCTOR OF PHILOSOPHY

Systems Engineering

Mohammad Nasser Barkesseh
  Dissertation: *Multiple Sensor and Process Fault Diagnosis in Dynamic Systems*
Wenjian Chai
  Dissertation: *Control and Estimation of Linear Time-Varying and Uncertain Systems*
Pradeep Y. Kokate
  Dissertation: *New Approaches for Control of Slowly Varying Systems*
Nabil Salem
  Dissertation: *Analytic Tools for Manufacturing Systems Performance Analysis*
Ralph E. Tanner
  Dissertation: *Sequential Sensor Fusion with Applications*

MASTER OF SCIENCE

Computer Science and Engineering

Chandra Baalu
Ninju Bohra
John Michael Brabbs
Dick H. Breidenbach
Alan Neil Collard
Venkat Pratap Reddy Damidi
Samer Hanna Dickow
Katalina Kiatvongcharoen-Jong
Ranganath Misra
Subhashini Muhundan
Barbara Ann Osbon

Gregory E. Palarski
Nancy Maureen Searing
John Bradford Slemp Mahalingam Subramanian
Ildiko E. Szoke
Chih-Fang Tsai
Pei-jie Wang
Srinivasa R. Yerukola
Shyue-Wen Yu

Computer and Information Science

Joe Guo-Chaing Chow
William Kevin Kirkpatrick
Matthew Drake Winther

Electrical and Computer Engineering

Aruna Appadwedula Cherukuri
Hiep Thanh Do
Ruth A. Drellishak
John Joseph Christopher Kopera
Kristopher Douglas Lang
Robert Albert Navaroli
Andrew Scott Orlando
Steve Sarmed Sesi
Laith K. Shina
Michael Joseph Weslowski

Mechanical Engineering

Gary Melvyn Banasiak
Kevin R. Chandler
Mark Alan Clements
Richard Michael Clisch
Michael Robert Johnson
Ronald Gary Moore
Jing Qin
Phillip Roland Roberge

Systems Engineering

John Derrick Butkiewicz
Mark Matthew Siuniak
James Frank Szewczyk
David F. Taylor
Karl William Wojcik

BACHELOR OF SCIENCE

Computer Science

Jeffrey Joseph Baron
John Alves Catherino
Fahimeh Ghoujeghi
David Craig Henderson
Claudine Marie Hoffman
Gary Christopher Kaczmarczyk
Paul Christopher Keary
Kerry Marie Kitter
Jeffrey James McFarlane
Michael Anthony Palazzolo
William A. Russell-Proctor
Douglas M. Selliman
Thomas Owen Smith
Dale Jacob Wilstermann
Joel Andrew Yungton

Engineering Chemistry

Kristina Susan Karloff

BACHELOR OF SCIENCE IN ENGINEERING

Computer Engineering

Pratap Alluri
Prasad S. V. Balusu
Robert Howard Copeland, Jr.
Salem Ahmad Fayyad
David Gnatek
Hans Ian Johnson
Zachary C. Rogalski
Tony Vu
Paul Michael Walling
George Yu

Electrical Engineering

John D. Ball, Jr.
Robert Howard Copeland, Jr.
Peter John Daniels
Roger Thomas Douglas
Scott Michael Dreslinski
David M. Fry
David Gnatek
Kristen Marie Grajewski
Stephanie Elizabeth Greenwood
Damond Noboru Hinatsu
Daniel Jaraczewski
James Joseph Jenosky
Xiaoyu "Amy" Jiang
James Kapanka
Bach T. Le
Gary Wayne Madden
Scott Andrew William Martin
Dewayne Rodney Mellen
Michael Robert Melling
Tricia Marie Olszewski

John Richard Mark Raleigh David
Allen Saverino
Marvin Stamper, Jr.
Luong V. Tieu
Carl Gordon Zemke

Mechanical Engineering
Gregory Richard Bendzinski
Randall Scott Bushong
Gregory Brian Campeau
Richard James Carnaghi
Karen Anne Carter
Mark S. Hardy
Karl Joseph Heid
Richard John Junttonen, Jr.
Mark Thomas Kostrzewa
Steven Allen Maynard
Bradley W. McCardell
Kevin Thomas Paquette
Stephen Brian Pass
Wayne Michael Phillips
Michael Allan Pircer
Kurt Jerome Schulte
David John Sherman
Mark Richard Vogel
John Neil Wilson II

Systems Engineering
Thomas Edward Budry
James Kapanka
Dewayne Rodney Mellen

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 1991

UNIVERSITY HONORS

CUM LAUDE

Daniel Thomas Griffin
Thaddeus Henry Podmokly II
Phillis A. Ring
Daniel Lawrence Seeds
Dolly Yoshiko Shiina

SCHOOL HONORS

Computer Engineering

Rama Somantha Sastri
 Madugula
Daniel Lawrence Seeds

Computer Science

Victor John Capton
Elizabeth Ling Grinbergs
Larry Joseph Grupido
Mark Andrew Lang

Electrical Engineering

Diana Lynn Dziwanowski
Phillis A. Ring
Dolly Yoshiko Shiina
David P. Stosiak
Gary Robert VanDeKerkhove

Engineering Chemistry

David Arthur Warner

Mechanical Engineering

Daniel Thomas Griffin
John Allen Martuscelli
Thaddeus Henry Podmokly II

HONORS AWARDED APRIL 1992

UNIVERSITY HONORS

SUMMA CUM LAUDE
Tricia Marie Olszewski

MAGNA CUM LAUDE
Stephanie E. Greenwood
Xiaoyu "Amy " Jiang

CUM LAUDE
Karen Anne Carter
Kristen Marie Grajewski
Michael Anthony Palazzolo
Wayne Michael Phillips

SCHOOL HONORS

Computer Engineering
George Yu

Computer Science
David Craig Henderson
Paul Christopher Keary
Michael Anthony Palazzolo
Dale Jacob Wilstermann

Electrical Engineering
Peter John Daniels
Diana Lynn Dziwanowski
Kristen Marie Grajewski
Stephanie Elizabeth Greenwood
Xiaoyu "Amy" Jiang
Tricia Marie Olszewski

Mechanical Engineering
Karen Anne Carter
Wayne Michael Phillips

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 graduate listed below has completed programs in both Honors College and the School of Engineering and Computer Science and is identified by a white cord worn over academic regalia.

DECEMBER 1991

Kristi Marie Woodard

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE SPECIAL AWARDS

Award for Exceptional Achievement:
Tricia Marie Olszewski

Award for Academic Achievement:
Xiaoyu "Amy " Jiang

Award for Professional Development:
Yiannakis Thrason Sazeides

Award for Service:
Gregory Brian Campeau

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

Oakland University's School of Engineering and Computer Science offers instruction leading to the Bachelor of Science in Engineering (B.S.E.); with majors in computer, electrical, mechanical and systems engineering and the Bachelor of Science (B.S.), with a major in computer science. Programs leading to the Bachelor of Science degree in engineering chemistry and engineering physics are offered jointly with Oakland's College of Arts and Sciences. The school also offers graduate programs leading to masters and doctoral degrees.

The school consists of three departments and the Center for Robotics and Advanced Automation (CRAA). The school is of medium size, with 1,200 undergraduate and graduate students and features an outstanding faculty – dedicated to classroom instruction of the highest quality as well as to research in their fields of specialization. Its size permits close student/faculty interaction, small classes and individualized attention.

Undergraduate engineering and computer science programs at Oakland University place an emphasis on a well-rounded education characterized by:

•A broad-based perspective of engineering and computer science that stresses creative thinking – preparation for solving complex technological problems.

•Relevant laboratory instruction as an integral part of course work – giving a balance between theory and practice.

•Integration of computer instruction and utilization throughout the curricula.

•Design and creative development as a central activity of engineering and computer science.

•A social and humanistic perspective through a comprehensive program of general education.

All academic programs at Oakland University are accredited by the North Central Association of Colleges and Schools (NCA). Besides the NCA accreditation, the undergraduate programs in computer, electrical, mechanical and systems engineering are accredited by the Accreditation Board for Engineering and Technology (ABET), and the computer science program by the Computing Sciences Accreditation Board (CSAB).

Graduate programs at the masters level are offered in electrical and computer engineering, mechanical engineering, systems engineering, and computer science and engineering.

The Doctor of Philosophy degree is offered in systems engineering. The goal of the doctoral program is to prepare engineers who have a broad competence that crosses the boundaries of traditional engineering disciplines and who are capable of dealing with complex large-scale problems.

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