OAKLAND UNIVERSITY

COMMENCEMENT

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

The motto of Oakland University, *"Seguir Virtute E Canoscenza,"* which is incorporated in its seal, has a distinguished origin, Canto XXVI, line 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

May 6, 2000

7:30 p.m.

Baldwin Pavilion

Oakland University

Rochester, Michigan
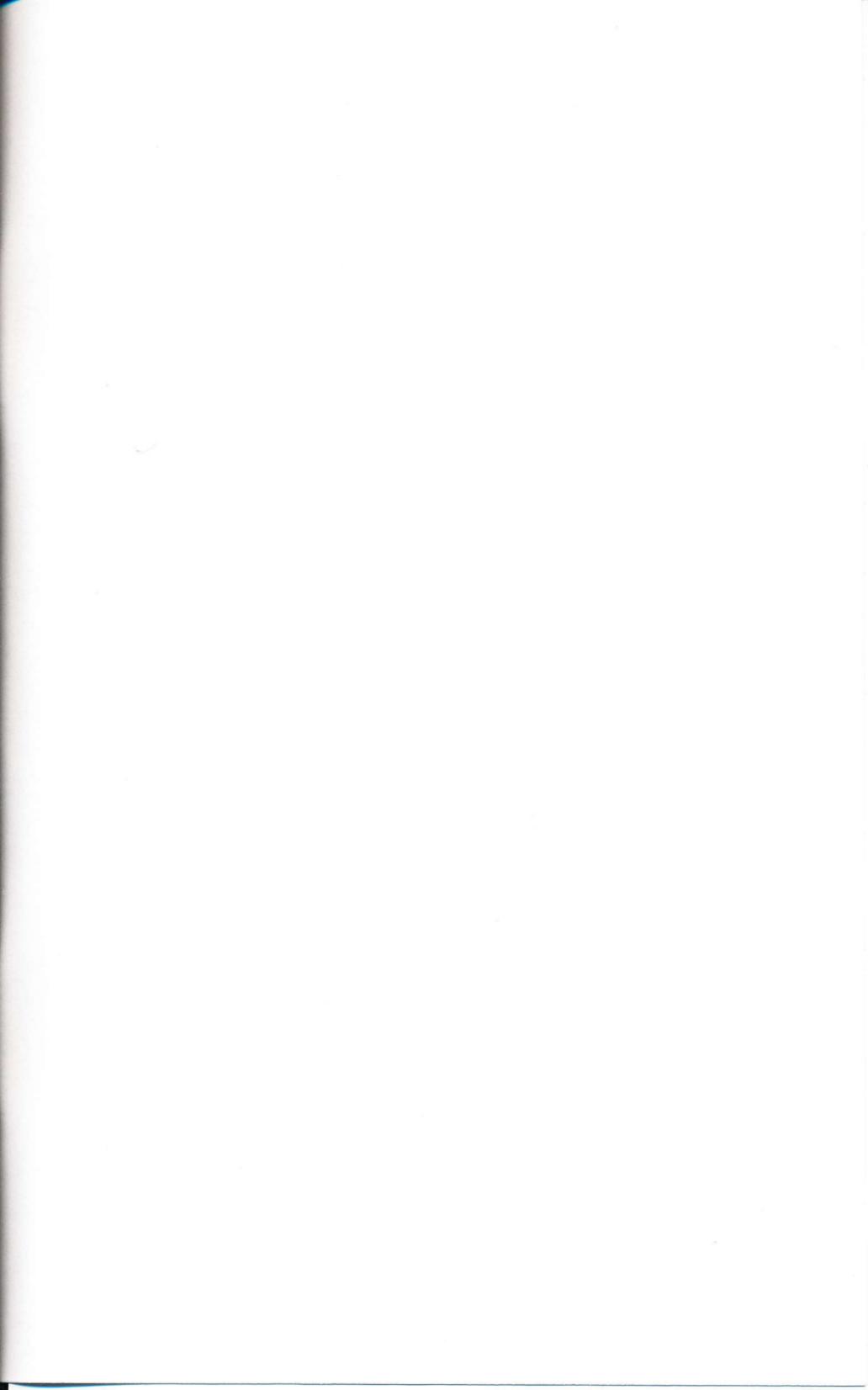
ORDER OF CEREMONY

Processional
Richard E. Haskell, *Marshal*
Hoda Abdel-Aty-Zohdy, *Deputy Marshal*
Michael Latcha, *Deputy Marshal*

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

Welcome
Michael P. Polis
Dean of Engineering and Computer Science

Trustee Welcome
Rex E. Schlaybaugh, Jr.
Board of Trustees

Commencement Address
William L. Kozyra
President
Continental Teves, Inc., North America

Presentation of Honors

Presentation of Special Awards

Awarding of Degrees
Gary D. Russi
President

Louis Esposito
Vice President for Academic Affairs and Provost

Presentation of Graduates for Degrees

Salutation
David Russell Volkman, Jr.
Graduating Senior

Alumni Welcome
Stanley Babiuk, MBA '80, B.S. '73
*Senior Vice President, Facility Planning &
Pipeline Project Development, ANR Pipeline*

Valediction
Gary D. Russi

Recessional
Richard E. Haskell

Reception
*The Oakland University Alumni Association cordially invites graduates,
guests, and members of the faculty and staff to the reception immediately
following the ceremony in the Oakland Tent.*

Processional and recessional music by
St. Andrew's Pipe Band

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, medieval scholars were clothed 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 or her doctoral degree on the 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 1999

DOCTOR OF PHILOSOPHY
Systems Engineering
Chu-Yu Chen
Dissertation: *The Prediction of Field Coupling Excited by Electromagnetic Waves on Multiconductor Transmission Lines*

Seung Yong Lee
Dissertation: *Rigid Multi-Body Dynamics Using Spatial Vectors*

MASTER OF SCIENCE
Computer Science and Engineering
Gregory John Buchmann
Martino Alfredo Casetti
Usha P. Chintalapati
Paul John Gunn
David Elwyn Hakes
Willard Johnson
Kiran Kumar Kandikonda
Durga Kothandaraman
Sudha Kumar
William Patrick Quinlan
Mukund R. Row
Trapti Saxena
Dennis Douglas Schnabel, Jr.
Bhagyashri Vasant Sirdeshpande
David Sweeze
Santhosh Kumar K. Vasanthakumar

Electrical and Computer Engineering
Michael Thomas Galiati
Hugh Harris
Derek Charles Malecki
John C. Proietty
Michael Roy Wheaton

Engineering Management
Siegbert Altendorfer
Armin Auinger

Glenn Lewis Barna
Michael Joseph Brehmer
Jack Joseph Byrne
Roger Csaky-Pallavicini
Denise Maureen Daily
Monica Dragoicea
Mark Robert Dunneback
Michelle Marie Eldridge
Charles Kenneth Evans, Jr.
Marc Philip Ford
Melania Gagea
Jonathan Paul Hurford
Thomas Jiresch
Sabine Kollerer
Steven Alan Kornburger
Christian Krebs
Kevin Scott Krupansky
Brooks Lee Lamb
Thorsten Matthias
Gunter Nemetz
David Owen Parry
Gerald Pascher
Serge Pou
Michael Puehringer
Peter Puschkarski
Oliver Sauer
Paul Schaller
Gerald Schneeberger
Johann Sedlar
Ronald McCellon Stebelton, Jr.
Scott M. Stryker
Joe William Taylor
Robert Wallner
Michael James White, Jr.

Mechanical Engineering
Jeremy Keith Archer
Timothy Wade Cairns
Bernard Bronson Cousino
Minjian Dong
Gjelina Gjona
Ryan Richard Hiligan
Kerry Lynn Hyre

Mohammad Javed Kamal
Matthew Richard Kovacs
Ronald Steven Lazarevich
Michael P. Patyi
Eric M. Pelky
Nancy Jean Prall
Mutaz Anwar Rabadi
Christopher Ian Roman
Anthony Louis Schoenherr
Sejal G. Shreffler
Randall Dewaine Siers
Hehui Smith
Rashida Nayo Thomas
Jeremy Michael Tschaepe
Weili Wang

Software Engineering
John William Christian Baird
Steven William Baker
Thomas Joseph Hosmer
Donald Walter Kijek
Wei Ni
William Moir Belcher
Douglas E. Inman
Ljubomir Koscica
David M. Martin
Michael John Miller
Jeffrey Scott Piasecki
Bradley William Semp

BACHELOR OF SCIENCE
Computer Science
James Gerald Kennedy
Steven Michael Kurk
Brandon T. Liu
Jason Hendrik Nobel
Natalie Ann Superfisky

BACHELOR OF SCIENCE IN ENGINEERING
Computer Engineering
Ndidi C. Awurum
Tiffany Yilun Gu
Michael Gregory Haynes
Christopher Paul Kersten
Manoj Kantilal Patel
Nikol Michelle Reed

Electrical Engineering
Vincent Charles Audet
Denis Patrick Fabian
Diane Marie Floch
Thomas Charles Franklin
E. David Garcia
Michael Gregory Haynes
Lisa Kaufer
Michael Anthony Logli
Ane Matovski
Bilson Peters
Nikol Michelle Reed
Robert Anthony Rimkus
Michael Alan Schaefer
Laurence Lavell Virden
David Russell Volkman, Jr.
Kerry William White
Joshua Gregory Windeler
Jeffrey Michael Zellen

Engineering Physics
Kerry William White
Jeffrey Michael Zellen

Mechanical Engineering
Ahmed Basim Abdullah
Matthew Addae Afful
Dean Atovski
Nathan Daniel Bowyer
Jeffrey William Chard
Katrina L. Colquitt
Eric Russell Doak
David R. French
Joy Geeraerts
Larry Keith Goulait
Deleria Denise Hammond
Jennifer Marie Headley
Danelle Marie Klinkhamer
Sara Renee Lambertson
Kirk Matthew Miller
Mark Nicaj
Lori Ann Panowitz
Shelli Lynn Polczynski
Brian Gerald Richards
Paul R. Spratt
Phillip Charles Storck III
Troy B. Tava
Matthew Scott Van Dam
Jennifer Renee Warman
Shawn Patrick Westergaard

CANDIDATES FOR DEGREES
April 2000

DOCTOR OF PHILOSOPHY
Systems Engineering
Krishnakumari Narayanan
Dissertation: *Knowledge Modeling for Engineering Design Support*

MASTER OF SCIENCE
Computer Science and Engineering
Yangsi Boppana
Terry Dwayne Campbell
Yale Chen
Steven Eric Dreim
Golda George
Walter Freeman Hutchinson
Thomas Lloyd Jenkins
Michael Martin Kroetsch
John Maxwell Lang
Marko Volodymyr Lawrin
Kai Quan Li
Peter Majernik
Thiruppathi Natarajan
Thomas M. Paonessa
Pawel Podgorski
Madhuri Raju
Mary A. Schmotzer
Venkatesh Seshadri
Frank Ka-Fai Wong
Nathan James Wray

Electrical and Computer Engineering
Khashan Farid Alam
Kishore Shankar Aligeti
Matthew Brian Cassidy
David VaShawn Freeman
Thomas E. Gochenour
Dion Joseph Richter
Hong Yuan

Electrical Engineering
Steven Ivanovic

Engineering Management
Edward Louis Brown II
Mark A. Cuyler
Lyle Geoffrey Elliott
Craig Michael Karagitz
Andrew R. Kavc
Danielle Renee Kavc
Mark Wayne McCoy
Andrea Lynn Stryker
Ronald James Tomlinson

Mechanical Engineering
Julie Ann Auten
Kevin Scott Baldwin
Gregory James Baron
Dennis Alan Bashur
David Arnold Sylvester Brown
Scott Allen Burrell
Brian Callaghan
Patrick Garrett Clor
Taara Kumari Datta
Craig Richard Dotter
Anthony Green Emerson
Nathan R. Hosler
Nicholas Orestis Kaltsounis
Matthew Ian Loew
Philip Lee Menzies
Munira Kutub Mesiwala
Kenneth Virgle Moore
David Karl Pomella
Sheri Lee Rieger
Kirk Michael Sassak
Matthew David Smith
Daniel Steven Tisch
Robert Clement Tyndall
Zachary P. Verkerke

Software Engineering
Harold Mathew McCabe
Katherine M. Tidwell

Systems Engineering
Ahmed M. Abouelatta
Zaher Ali Saleh Fayyad
Daniel Jon LeBeau
Donald James McCune
Erik Anthony Roberts
Jeannette Lynn Scalici

BACHELOR OF SCIENCE

Computer Science
Christopher Anthony Constantino
Sean M. Kaner
Benjamin Seth Olson
Sandeep K. Sandhu
Matthew Cortes Seville II
Matthew Daniel Shields
Dave Singh Suri
Jason Brent Tasich
Ying Wang
Nadine Andrea Willsie
Jeffrey A. Witt

Engineering Chemistry
Chia-Fang Lin

BACHELOR OF SCIENCE IN ENGINEERING

Computer Engineering
Adam Nathan Banker
Jason James Beaudoin
Rajashekar Charabuddi
Randall Jay Cobb
Thomas Frank Groth
Amit P. Harchandani
Dedra Lynn McGlory
Leon A. Robinson

Electrical Engineering
Vladimir Bacik
Jason Alan Blair
Donald C. Bolger
Roger Glenn Bredernitz
Christopher Michael Chamberlain
Randall R. Chinoski

Michael Roy Coke
Michael Joseph Eichbrecht
Joshua L. Halliburton
Jatinder Kapur
Brian Peter Kretz
Christopher John Lynn
Mazen Bahij Merhi
David Messing
Jason John Monroe
Chad Dennis Morris
Michael Thomas Nall
Vidyapriya Srinivasan
Kenneth Randall Strong
Vincent Leo Tessier
Nancy T. Truong
Dean Luvern Ventimeglia
Steven M. Watros
Brian Christopher Wightman
Christopher Jerome Wioskowski

Mechanical Engineering
Ryan Scott Ahler
Jason Robert Bryce
Reena Lynn Datta
Gregory Robert Duda
Mark David Gratti
Paula Ann Hurley
Hassan Mahmoud Idi
Christopher Alan Johns
Norbert Joseph Kott III
Scott E. Loyal
Daniel Anthony Mazzola
Mark J. Montgomery
Daniel Paul Naylis
Hemal Kanubhaj Patel
Jeffrey Spencer Peters
Rodrick Roman Price
Dennis Michael Setera
Bernard Lewis Gigliotte Theisen
Tony Wes Worden
Svetlana Zdravkovich

Systems Engineering
Michael Joseph Eichbrecht
Alexander Dale Ferrell
Thomas Anthony Haggerty, Jr.
Vincent Leo Tessier

Honors College

The Honors College has been established 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. Honors College graduates are identified by a white cord worn over academic regalia.

Graduating from Honors College with majors in both the College of Arts and Sciences and the School of Engineering and Computer Science:

April 2000
Jason James Beaudion

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.

Membership in Tau Beta Pi, the National Engineering Honor Society, is indicated by a white stole worn over academic regalia.

Membership in Eta Kappa Nu, the National Electrical Engineering Honor Society, is indicated by a royal blue cord worn over academic regalia.

HONORS AWARDED
December 1999

UNIVERSITY HONORS
Summa Cum Laude
David Russell Volkman, Jr.

Magna Cum Laude
Jennifer Marie Headley
Lisa Kaufer
Michael Alan Schaefer

Cum Laude
Jeffrey William Chard
Christopher Paul Kersten
Phillip Charles Storck III

DEPARTMENTAL HONORS
Computer Engineering
Michael Gregory Haynes
Christopher Paul Kersten

Computer Science
James Gerald Kennedy

Electrical Engineering
Diane Marie Floch
Michael Gregory Haynes
Lisa Kaufer
Michael Alan Schaefer
David Russell Volkman, Jr.
Kerry William White

Engineering Physics
Kerry William White

Mechanical Engineering
Jeffrey Willliam Chard
Jennifer Marie Headley
Phillip Charles Storck III
Shawn Patrick Westergaard

CANDIDATES FOR HONORS
April 2000

UNIVERSITY HONORS

Summa Cum Laude
Reena Lynn Datta

Magna Cum Laude
Vidyapriya Srinivashan

Cum Laude
Ryan Scott Ahler
Adam Nathan Banker
Robert J. Gryczon
Mark David Gratti
Thomas Anthony Haggerty, Jr.
Christopher John Lynn
Jason John Monroe
Mark J. Montgomery
Michael Thomas Nall
Steven M. Watros
Tony Wes Worden

DEPARTMENTAL HONORS

Computer Engineering
Adam Nathan Banker
Thomas Frank Groth

Computer Science
Matthew Daniel Shields
Dave Singh Suri

Engineering Chemistry
Jessica Lynn Taylor
Tracey Lynn Zapczynski

Mechanical Engineering
Ryan Scott Ahler
Reena Lynn Datta
Mark David Gratti
Mark J. Montgomery

Electrical Engineering
Joshua L. Halliburton
Jatinder Kapur
Christopher John Lynn
Mazen Bahij Merhi
Vidyapriya Srinivasan
Nancy T. Truong
Steven M. Watros
Christopher Jerome Wioskowski

Systems Engineering
Thomas Anthony Haggerty, Jr.

SPECIAL AWARDS
SCHOOL OF ENGINEERING & COMPUTER SCIENCE

Exceptional Achievement:
Awarded annually to the graduating senior in the School of Engineering and Computer Science who, in the judgment of the faculty, has achieved the highest level of scholastic excellence.

David Russell Volkman, Jr.

Academic Achievement:
Awarded annually to the graduating senior in the School of Engineering and Computer Science who, in the judgment of the faculty, has demonstrated an outstanding level of academic performance.

Reena Lynn Datta

Service Award:
Awarded annually to the graduating senior in the School of Engineering and Computer Service who, in the judgment of the faculty, has rendered the greatest service to the School.

Jennifer Marie Headley

Professional Development:
Awarded annually to the graduating senior in the School of Engineering and Computer Science who, in the judgment of the faculty, has demonstrated the greatest technical development in his/her studies and shown an outstanding measure of individual initiative in connection with a project.

Phillip Charles Storck III
Shawn Patrick Westergaard

ADVISORY BOARD

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.