

OAKLAND UNIVERSITY

C O M M E N C E M E N T





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*

COMMENCEMENT

September 19, 1999

2:00 p.m.

Howard C. Baldwin Memorial Pavilion

Oakland University

Rochester, Michigan

COMMENCEMENT SPEAKERS

Howard C. Birndorf CAS '71

Howard Birndorf received a Bachelor of Science in Biology from Oakland University in 1971, and a Master of Science in Biochemistry from Wayne State University in 1974. He is a biotechnology entrepreneur who has initiated seven new biotechnology firms, ranging from DNA "fingerprinting" to using "monoclonal" antibody technology for medical testing and treatment. Mr. Birndorf is currently Chairman, Chief Executive Officer, and Co-Founder of Nanogen, Inc., based in San Diego, California, where he is credited as a driving force in changing a Navy town and retirement community into an influential center for biotechnology and development.

Mr. Birndorf was honored with the Distinguished Alumni Achievement Award at the Oakland University 1997 Alumni Awards Banquet and also by Wayne State University for his distinguished leadership in business and industry. The New York Times named Mr. Birndorf "the Johnny Appleseed of the Biotechnology Forest" and a "Biotech Wizard."

Kevin R. Grazier CAS '87

Kevin Grazier earned undergraduate degrees in physics from Oakland University and in computer science from Purdue University, where he also earned his master's degree in physics. He moved to UCLA for doctoral research in planetary physics, performing long-term large-scale computer simulations of early solar system evolution.

He went to NASA's Cassini Project as Science System Engineer in early 1998, and recently assumed the additional role of Investigation Scientist for the Cassini Imaging Science Subsystem. He continues research involving computer simulations of solar system evolution with collaborators at both UCLA and Los Alamos National Laboratory. Dr. Grazier is adjunct professor of astronomy at Santa Monica College. He appears semi-regularly as the "voice of Science and Reason" on the nationally syndicated radio talk show *Overnight*. He has done freelance writing for *Star Trek: Voyager*, and serves as science advisor/production assistant/actor for the production *Battlestar Galactica: The Second Coming*.

Dyanne M. Tracy

Associate Professor of Education

Dyanne Tracy is Associate Professor in the Department of Curriculum, Instruction and Leadership in the School of Education, where she has been a faculty member for 13 years, specializing in teaching aspiring teachers to teach mathematics to children. Her some 50 publications include results of a three-year study on gender-equitable teaching practices of preservice teachers, the development of innovative math and science curricula in public schools as well as field-tested ideas for teaching, testing and surviving the review process at the university level. She has made over 80 presentations to national, state and local conferences, served on the Board of Directors for the Detroit-Area Council of Teachers of Mathematics and the Board of Directors of the national School Science and Mathematics Association. Dr. Tracy received the 1998 Oakland University Teaching Excellence Award and was recognized by the Michigan Association of Governing Boards as a 1999 Distinguished Faculty Member.

ORDER OF CEREMONY

Academic Processional

Richard J. Rozek

*Associate Professor of Industrial Health and Safety
University Marshal*

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

Introduction

Gary D. Russi

President

Board of Trustees Welcome

Henry Baskin

Member of the Board

Commencement Address

Dyanne M. Tracy

Associate Professor of Education

Presentation of Awards

Louis Esposito

Vice President for Academic Affairs & Provost

Award of Honorary Degree

Gary D. Russi

Address

Howard C. Birndorf

Chairman, Chief Executive Officer, and Co-Founder, Nanogen, Inc.

Conferring of Degrees

Gary D. Russi

Alumni Welcome

Dr. Kevin R. Grazier CAS '87

Oakland University Alumni Association

Valediction

Gary D. Russi

Recessional

Richard J. Rozek

Reception

*Graduates, guests and members of the faculty and staff are cordially invited
to the reception immediately following the ceremony in the Oakland Tent.*

Processional and recessional music by Moon Trumpet Ensemble,

Brian D. Moon, Director

*Today's ceremony is interpreted in American Sign Language
by Deborah Smith.*

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.

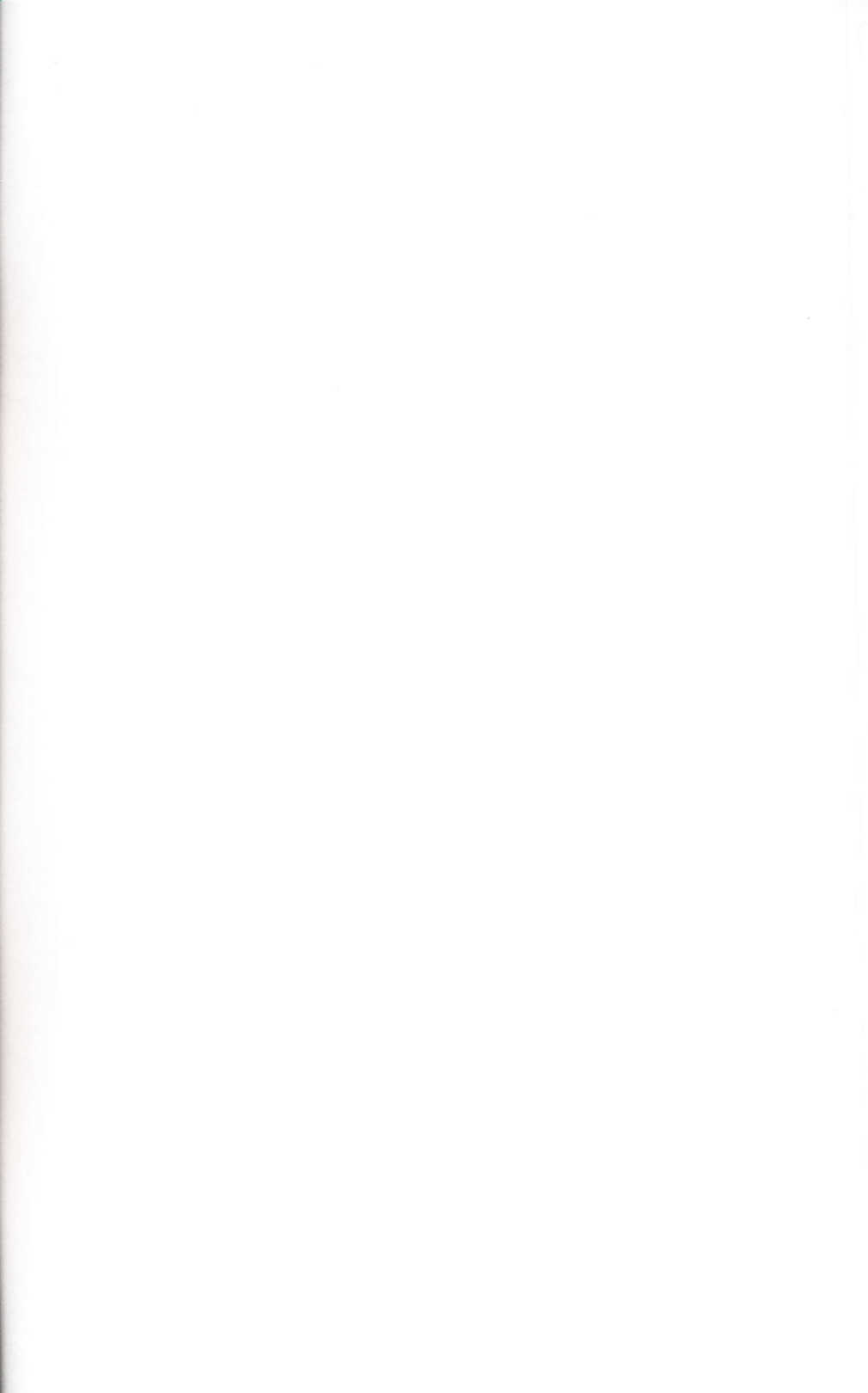
There are three basic academic degrees: the baccalaureate or bachelor's degree, the master's degree, and the doctorate. A special style of robe is prescribed for each. The bachelor's gown is sparsely cut, neat, but a bit skimpy and unadorned, as befits apprentices. The master's gown is still simple, 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 recession 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 recession is the reverse of the processional. The greatest dignitaries stream out of the hall first, with the artfully organized ranks of priority walking 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.



OFFICE OF GRADUATE STUDY

William W. Connellan, Vice Provost

GRADUATE DEGREES AWARDED June 1999

DOCTOR OF PHILOSOPHY

Biomedical Sciences: Medical Physics

Donald J. Peck

Dissertation: *Evaluation of a
Linear Transformation for
Segmentation and Quantitative
Analysis of MRI of Brain
Tumors*

Reading Education

Paula Whittaker Watkins

Dissertation: *A Case Study of
Instructional Designers'
Knowledge of an Instructional
Systems Design Model and Use
of Cognitive Strategies in a
Corporate Setting*

Systems Engineering

Matthew Henry Sam Kuofie

Dissertation: *An Intention Directed
Software Engineering
Methodology*

MASTER OF ACCOUNTING

Andrew Hilding Arntzen

MASTER OF ARTS

Counseling

Erika Daneen Alexander

Kristen Marie Andersen

Angela Marie Cinadr

Michelle Lee Cunningham

Donald E. Deering, Jr.

Jennifer Jean Frazier

Irmgard Granelli

Rita Pierce

Steven Michael Powers

Linda Garbus Sisson

Julie Staples

Melissa Marie Tolstyka

Tammy Lyn Wagstaff

English

Andrew Peter Bulat

Amie Lawrence

History

Janet L. Akehurst

Eileen Anita Hein

Linguistics

Mayumi Umemoto

MASTER OF ARTS IN TEACHING

Reading

Joan M. Blanzý

Mary Lynn Bowen

Jennifer Carol Connell-Stoner

Janice Stepek Conroy

Linda Hasbrook Day

Melissa Nicholson DeClerck

Elizabeth L. Dolsen

Amy Louise Doty

Sharon Hass-Clark

Lisa Marie Haubert

Suzanne M. Kerr

Sandra Ann Kirouac

Patricia Lynn Krotche

Pamela Rae Kyle

Christine Kennedy McCarthy

Janine Gail Polewarczyk

Brenda Lee Retell
Louise Magarete Ross
Susan L. Schury
Colette Catherine Shuk
Anne Marie Snyder
Joni Clare Steinhaus
Angela-Darlene Weems Webb
Kristin Marie Wilson
Carol Anne Wittig
Kelly Rae Yerke

MASTER OF BUSINESS ADMINISTRATION

Holly Danielle Aikens
Garrett P. Beauregard
Michael J. Bryant
Julia Marie Castro
Susan Anne Clark
Irene Bacolor Corbe
Marla Louise Dargin
Thomas Michael Edgar
Carla Stelzer Forkin
Kenneth Howard Harness
Michael Thomas Hennessey
Gretchen Ann List
Andrew James Malpass
Scott Robert McCreadie
Charles David Nagy
Todd Alan Peterson
Paul Gerard Pollack
Brenda Michelle Schultz
Neeru Sharma
Karl Robert Siegert
Christina Dale Smith
Veronica Jean Smith
Kurt R. Wise
Mark Arthur Woehrel
Joseph Patrick Zelasko

MASTER OF EDUCATION

Curriculum, Instruction and Leadership

Valerie D. Bates
Markeeta DaShawn Burr
Latricia Clark
Jill M. Critz
Meshonya Monei Daniel

Anthony Roosevelt Daniel I
Marshall Emerson, Jr.
Leah Lynette Green
Linda Marie Harris
Regina Rooks Haywood
Kirsten Mary Hice
Christopher Gayle Kinney
Tracy Ann Matthews
Jeffrey Emil Mazur
Katherine Sue Milla
Patricia Ann Morris
Dee Salamatu Ogunyemi
Bradley J. Pearsall
Gregory Alan Redmond
Lisa Anne Roelfs
Mitchell Lee Spring
Bonnie Ann Stojek
Carmen Janice Taylor
Donald Wayne Watkins
Timothy J. Wedge

Early Childhood

Teresa Shiri Beckerman
Cheryl Lynn Chudnow
Amy Leigh Culich
Victoria Beth Everett
Leanne Fisher
Charlotte Ann Hatfield
Sherry Anne Hidley
Sarah Ruth Hines
Tami Sue Hoganson
Joan Marie Huellmantel
Lisa Lynn Karchnak
Betsy A. Murphy
Tracy Lee Perron
Rayne Darlene Stebbins
Alicia Ann Williams
Janine Michele Woehl
Magdalena Marta Wolski

Special Education

Angela Sue Busch
Cynthia Elaine Jackson
Eileen H. Steadman
Marlyn Leah Weiss

MASTER OF PHYSICAL THERAPY

Julie Kaye Nuyen
Gwendolyn P. Vu

MASTER OF SCIENCE

Applied Statistics

Supriya Maria Peres-Da-Silva
Radhika Ravi

Computer Science and Engineering

Walter Freeman Hutchinson
Abdul-Rahman M. Itani
Malavika Madhavan
Krishnamurthy Lalitha Rani

Electrical and Computer Engineering

Dusko Petrovski

Engineering Management

James Fredrick Arwady
Raymond Edward Arwady
Randall Scott Bushong
Douglas John Keller
David Andrew Parenti
Chetan Kantilal Thakkar

Exercise Science

Eric Joseph Breitenbeck
Thomas Anthony Brennan
Janet Elizabeth Curd
Dylan Roy Raymond
Therese Marie St. Louis

Mechanical Engineering

Joseph Antaran
Amanda Marie Blumke
Sunil R. Maragh
Daniel Ranjitsingh
Mark Allen Samulak
Angela V. Schneider
Michael Edward Schuster
Kevin Roch Tripi
Bruce Eugene Ward, Jr.

MASTER OF SCIENCE IN NURSING

Pamela M. Negovan

CANDIDATES FOR GRADUATE DEGREES

August 1999

DOCTOR OF PHILOSOPHY

Reading Education

Beatrice V. Catherino

Dissertation: *Mediating*

Composition and Content

Subject Knowledge in the

Community College: A Study of
the Effects of Content Literacy

Instruction on Learning in

Political Science.

Andrew Anthony Domzalski

Dissertation: *The Exploration of the*

Patterns in Verb Uses in Regard
to the Relationships between

their Syntactic and Semantic

Components as Revealed by

Free Writing Compositions of

First through Sixth Graders

Kelley Jo Walters

Dissertation: *Guided Reading in*

First Grade: The Enacted

Instructional Practices and

Discourse of Three Teachers

EDUCATION SPECIALIST

School Administration

Steven Paul Archibald

Marguerite A. Braun

Bruce Stephen Burger

Marjorie Van Atta Coxford

Sheila R. Cummings

William E. Curtis

John T. Daniel

Margarita Perla Frommert

Fred D. George

Virginia Monroe Gurgol

Patricia Anne Hagadon

Peter Thomas Hedemark

Penny Kay Joy

Dana L. Keller

Marilee Lardner Mason

Susan Elizabeth Miller

Karen Sue Milton

Linda L. Minsterman

Elizabeth Mary Neuville

Gloria D. Parrello

Cheryl Lee Peters

Gloria M. Ransom

Leah B. Scheuer

Sharon Brott Schwarze

Cynthia Luella Scott

Andrew Mykolaj Szadyr

Lisa Monique Williams

Patricia Mary vom Steeg

MASTER OF ARTS

Counseling

Paula N. Arnold

Holly Marie Barnett

Nancy Anne Barry

Angelita Biel

Amy Elizabeth Bischof

Tracey B. Black

Timothy Wayne Campbell

Tina Marie Chambers

Nan Frederick

Gretchen Lynn Goodkin

Celeste A. Grice

Rose Marie Harrell

Nancy Arlene Jachim

Monica Krause

Robin Lynn Leggett

Kelly Lynne Messing

Pamela Kondoff Micallef

Heather A. Miller

John Joseph Naperkoski

Lynn Hazel Perry

Mary Beth Pirrallo

Mary Ann Robson

Christopher Isaac Sheppard

Susan Aileen Smith

Erica Jane Speer

Albert Stanley Uhl

Robert Walter Umpfenbach

Linda J. Veesser

Nicole C. Walsh

Denise M. Warnack

Jeri Williams
Kelson E. Zehr

Linguistics

Daniel Bryan Coupland

MASTER OF ARTS IN TEACHING

Reading

Dianne Marie Addonizio
Marlea Louise Alward
Tracy Carole Anderson
Ann Marie Ashley
Susan Christine Barlow
Amy Lynn Baxter
Dawn Marie Benson
Cynthia Elizabeth Bowman
Jacqueline Anne Brandenburg
Catherine Malloy Moore Brueckman
Susan Darlene Buck
Maria Christine Burke
Amy Louise Carter
Deborah Ann Chappell
Deborah Ann Colbrun
Christine Marie Combs
Nicole Elaine Cornwell
Margaret Best Crockett
Dee Anne Cullen
Tracy Ann deJong
Cynthia Althea DeSousa
Kris Ann Deagen
Janeen Marie Denbaas
Mary Maher Duster
Jennifer A. Eagen
Jennifer Sue Hager Ellery
Nancy Lynn Fiederlein
Celeste Mariette Gross
Brigitte Gruener
Shawna Lynn Hackstock
Kelly Lynn Heinke
Amy Elizabeth Heitman
Lisa Marie Hubbard
Jeffrey Matthew Hume
Shannon Marie Jackson
Paula Kaye Jingoian
Parmis Andia Johnson
Jennifer Melissa Jump
Kathleen Fahey Kern

Kathryn Lee Krug
Nancy A. Ladd
Kathleen Maree Lau
Marci Sue Lazzara
Jill Marie Lobsinger
Deborah Jeanne Loop
Angel Allison MacFarland
Cynthia Anne Machala
Dianne Elizabeth Marshall
Terence Ray Martin
Tracy Bell McAdams
Romi Mendiratta
Melissa Jean Miller
Nicole Anette Minor
Lisa Elena Montpas
Maureen S. Moss
Keri Lynn Nemecek
Maureen Judith Nicholson
Margaret Marie Overholser
Kimberly Christine Piccirilli
Michele Maureen Pomaranski
Kimberly Ann Prentice
Molly Williams Reed
Shari Anne Reichard
Dorothy A. Rice
Melanie Elaine Royster
Kenneth Rylander
Jennifer Joy Santiago
Deanna Marie Schmidt
Christine Anne Schulte
Kelly Ann Scott
Nancy Denise Scrafano
Susan Ann Selden-Bann
Judith Muriel Simmons
Rebecca Lynn Skvarce
Jennifer Marie Szlachta
Constance Rush Thompson
Patricia Marie Travelbee
Valerie Jean Tucker
Ruth Ann Marie Urevig
Catherine Ann Vargo-Filer
Laura A. Vogel
Kim Marie Voog-Sabbag
Cheryl Lynne Wagner
Carrie Christine Walker
LeAnn Marie Tafel Weide
Danielle K. Wichlinski
Brigitte Ella Woodward

Kelly Kay Woolsey
Amy Lynn Yee
Meredith Susan Zombek

MASTER OF BUSINESS ADMINISTRATION

Jeffrey Lynn Beatty
Lisa D. Bender
Steven Ronald Bourbeau
Timothy Eugene Carpenter
Jeffrey Scott Chvala
Kathryn Agnes Dwyer
James Terence Farrar
Tricia Jane Gale
Jason Luther Hatt
Stephen Clyde Kirsch
Laura K. Kreder
Yvette Suzanne Nelem
John Robert Smyth
Adilakshmi Sunkara
Lisa Marie Whitener
Edgar Addison Williams II
Romi A. Wisser
Lei Zhu

MASTER OF EDUCATION

Curriculum, Instruction and Leadership

Christine Alongi-Arnold
Joseph John Ciluffo
Merrill Lynne Culich
Jennifer Jane Davis-Eklin
Hollie Rae Hancock
Dawn Marie Keener
Michelle Marie Kurtycz
Steven Norbert Vercammen
Melissa Jean Warburton

Early Childhood

Jennifer Scott Couzens
Krista Kaye Denkins-Dunigan
Susan Ann Marder
Juliana M. Rust
Kirk Timothy Sattelmeier

Special Education

Debra Suzan Buuck
Elaine M. Cook
Michelle Lynn Goodman

Danielle Jo Hamman
Amy Lynne Honeycutt
Deborah Ann Lane
Mary Jean McKay
Judy Casanova Muench
Sheryl Ruth Sukenic
Theresa Marie Waite
Joshua John Weston

MASTER OF MUSIC

Alison White

MASTER OF PUBLIC ADMINISTRATION

Daniel T. McCaw
Brittney Marie Miller
William Steve Smith, Jr.

MASTER OF SCIENCE

Applied Statistics

Dawn Marie Fuhrman
Ronald Lewis Gerich

Biology

Laura Michelle Panek
Tara Catherine Sniezek

Chemistry

Kimiko Kimura Shuck

Computer Science and Engineering

Thomas Mikel Cain
Wendy Han
Jayaram Krishnappa
Gary Steven LaBombard
Pavana S. Lakapragada
Bharathi Vadlamudi

Electrical and Computer Engineering

Jody F. Williquette

Engineering Management

Christopher John Baker
Jeffrey Nick Bontsas
David Lee Mancier
Charles Michael Merchant
Pero T. Milosavevski

Alexander Karl Rustoni
Kristi Ann Szymanski

Exercise Science

Nicole Daria DeConinck
Denise C. Hoch
Sukanya Mun Mun Sil

Mechanical Engineering

Jordan Rivard Golomb
Leeann N. Korte
Adam Gower Rasbach
Michael James Readwin
Mark Charles Sitko
Jenny Yvonne Spravsow
Thomas Benjamin Tran

Physical Therapy

Carolyn Elizabeth Varner

Physics

Lev Brener

Software Engineering

Magid Athnasios

Systems Engineering

Analía Alberici

**MASTER OF SCIENCE IN
NURSING**

Family Nurse Practitioner
Susan Ann DeMeulenaere
Leah Marie Larson
Debra Ann Losicki
M. Kathleen Pieroni

COLLEGE OF ARTS AND SCIENCES

David J. Downing, Dean

UNDERGRADUATE DEGREES AWARDED

June 1999

BACHELOR OF ARTS

Danelle Marie Aboud
Cornelia Agotesku
Hillary Norton Andrei
Karen Lee Anthony
Gaetano James Aprea
Rina Marie Banerjee
Patrick Shawn Biange
Cynthia L. Bilinsky
Susan K. Blake
Todd Michael Breadon
Kenneth Charles Briggs
Heather M. Brownfield
Madelia Buford
Donna Lyn Burt
Rosa Alba Calabrese
Marva L. Casadei
Christy M. Cavaiani
Anthony John Chrisopoulos
Linda T. Churchvara
Kelly Lynne Conway
Christine Lara Crate
Meredith Lindsey Dale
Jennifer Louise Davies
Jason Andrew Dawidowicz
Sheri L. Donner
William S. Dries
Kristin Lynn Erdman
Stephen Bernard Falk
Christopher A. Floeter
Jenifer Leah Franczak
Julie Scolaro Gibson
Danijela Gligorov
Laura B. Hales
David George Hall
Patrick William Harris
Holly Christine Harrison
Bonnie J. K. Hart

Karey L. Hart
Lori L. Hines
Robert Jeffrey Hlavin
Patricia Elizabeth Holland
Adrian Parker Holly
Wendy Holmes
Jana L. C. Jaxtheimer
Aimee Lynn Johnson
Kathleen Cecilia Jolly
Jerry William Jones
Kevin Edward Katschanow
Jonathan William Kelch
Kristen Gale Kelly
Marcia Madeleine Korpalski
Ricardo Jose Lara, Jr.
Matthew Charles Leonard
Theresa Kay Lombardo
Jeffery Matthew Lopo
Heather Lynne MacKenzie
Marije Markaj
Mariesa A. Matera
DeShonda LaCheryl Mathews
Keesha Rochelle Matthews
Lynnette Marie Michaluk
Syreeta Sierra-Ethel Moore
Jaime Lyn Moy
Sara Lyn Opalewski
Paula J. Ortago
Elizabeth Ann Patail
Mary Catherine Piazza
Anna Marie Pollack
Esau Pritchett
Renique Tiffany Quick
Amy Elizabeth Raymond
Debra Ann Ricard
Dawn M. Rickle
Alysia Roberta Roberson
Jason T. Ryan

Justin Franklin Ryan
Joan Ida Segall
Lisa Michelle Shannon
Joanne F. Sitto
Allison K. Spicer
Daniel Jay Stickrad
Michelle Marie Szczegielniak
Jennifer Amy Tabar
Sarah Jane Teuber
Nyonya Deborah Tooles
Carrie Marie Verschaeve
Theodora Marie Walschots
Cynthia Lynn Ward
Jennifer Weisdorfer
Wendy Anne Wentworth
Eric Douglas Westervelt
Charlotte Amy Maria Wigman
Cynthia Ann Williams
Michelle Cindy Wlodarczyk
Adam Thi Woudstra
Jonathan Tyler Young
Rebecca A. Ziskie
Michael J. Zois

BACHELOR OF MUSIC

Stephanie Anne Tyler

BACHELOR OF SCIENCE

Juliet Anetha Brown
Peter J. Calkin
Robert A. Coffey
Sheree Danielle DeLuca
Julie Ann Fogle
Gregory Alan Giera
Julie Ann Giera
Micheal Scott Haven
Mick Grant Ide
Kevin Carl Johnson
Anna Katarzyna Kaminski
Anthony Allen Lafferty
Kara L. Nowosielski
Jeffery James Prusakiewicz
Kevin Sean Sitterlet
Marc Jay Wasser
Angella Colleen Webb

CANDIDATES FOR UNDERGRADUATE DEGREES

August 1999

BACHELOR OF ARTS

Lori Jean Ballard
Matthew James Barr
Jennifer Bartolacci
Glen Bassirpour
Andrew Charles Bernhard
Julie Kathryn Bieniek
Wendy Lynn Blazo
Tara Faye Bogle
Janique Booker
Laura Borchelt
Craig Robert Brooks
Betsi L. Burns
Steve R. Cahlon
Louis Winfred Camp IV
Caroline Campbell
Tyrone Childress
Monica Ann Chrzaszcz
Nirva B. Civilus
Neena Rayshelle Colbert
Stacy Jean Cole
Jason Crute
Angel Ione Davenport
J. Tyler Delcamp
Toni Lynn Dodson
Rajul V. Doshi
Brian Michael Dudek
Jessica Nicole Edwards
Jacquelyn A. Engel
Melissa Miller Farr
Joseph Alan Fuller
Tamiaka LaShawn Gant
Andrea Leigh Gelmine
Sandra Marie Giangrande
Amy Elizabeth Gudenau
Matthew Jay Haddon
Melissa Marie Heck
Heather L. Heisler
Daniel Charles Heschl
Melissa Dorothy Hoggard
Erin Leigh Howick
Kevin Erik Hughes
Danielle Doris Jackson
Jennifer Lynn Johnson

Kathleen Sue Jowers
Mark Krauzowicz
Karl James Mayry
Julie Marie McKenzie
James Leon McNutt, Jr.
Paul Joseph Miriani
Derek Michael Moreno
Laura kathryn Mountford
Charles Neddermeyer, Jr.
Keri An Nequist
Melinda Ann Ostrander
Miranda Naomi Pardington
Holly Anna Parlett
Kristen Nicole Passeno
James Charles Pawlus
William Aloysius Petrick
Jeffrey Robert Piggott
Sharon Lynn Pizzuti
Shannon Renee Plummer
Amanda Hope Porter
Elizabeth Fitzgerald Rassel
Melinda Worek Rochon
Frank Rodriguez
Katherine Z. Rowley
Kimary A. Rudowski
Anthony Darias Shizas
Leslie Ann Siddall
Arthur Louis Silkowski
Daniel Jacob Smith
Natalie Srbinovski
Sally Srbinovski
Michelle Arielle Stevens
Jason Michael Titlow
Amy Sara Towle
Catherine Nicole Marie Valdez
Carrie Gale Vordenberg
Christine Marie Wallace
Jeannine Susanne Warner
Julie Anne Williams
Margaret Marie Wolak
Kristen Michelle Wolters
Gloria Rochelle Yaldoo

BACHELOR OF MUSIC

Sarah Anoush Brown

Natalie Jane LaFave

BACHELOR OF SCIENCE

Tracie L. Andrews

Zackery Brian Belanger

Shannon Rae Burnham

Lisa Anne Case

Antonia Como

Jennifer Suzanne Fairhurst

Melinda Mrsan

Cory Ryan Renauer

April Lynn Warchuck

GENERAL STUDIES

Susan M. Awbrey, Vice Provost

UNDERGRADUATE DEGREES AWARDED

June 1999

BACHELOR OF GENERAL STUDIES

Mary Ellen Adison
Sherry Marie Anderson
Nichole D. Baize
Jacquelyne Marie Beach
Jeanette Helen Grimshaw
Michelle Marie Hartner

Martyna Beata Lojewska
Brent Richard Malik
Heather Kristen Oman
Sharron P. Skwarek
Vernon B. Spink
Sue Ellen Stirnemann
Susan C. Vander Ven
Lu Wang

CANDIDATES FOR UNDERGRADUATE DEGREES

August 1999

BACHELOR OF GENERAL STUDIES

Jamie Adamkiewicz
LaRitta Cassandra Anderson
Heather Conkerton Archibald
Corina S. Lutz
Gail A. Moro

Michelle S. Prevot
Janet Mary Reilly
Kathleen Romant
Dario Carmelo Rosario
Sandra J. Schenk
Grant Paul Snyder
Caroline V. Viviano

SCHOOL OF BUSINESS ADMINISTRATION

John C. Gardner, Sr., Dean

UNDERGRADUATE DEGREES AWARDED June 1999

BACHELOR OF SCIENCE

Accounting

Jodie Karina Binroth
Gaytri Gupta
Kristen Marie Lubeckyj
Kelly Kredell Medford
Christina Marie Meyer

Economics

Alessandro Anthony DiCicco
Christine Monique VanDamme

Finance

Kristina Lynn Angyal
Guy M. Brandt
Danielle Denise LaPratt
John Emmanuel Marakis
Stephanie Ann Yaroch

General Management

Linda Rosati D'Alessandro
Crystal Davenport
Shannon Lynn Fisher
Marvin Thomas Grubba
Lori Ann Matthews

Human Resources Management

Angela Jean Butler
Ann Marie Chudzik
Karen T. DeRoy

Management Information Systems

Timothy Walter Banfill
Thomas William Baughman, Jr.
Chris Joseph Bobcean
April Dawn Crum
Jeremy Patrick Fick
Estelle Joyce Humphrey
Norman Leonard Jaskolski
Jennifer Tze-Hua Loh
Diane Marie Mastrona
Romaine Therese Ramenaden
Scott Greogory Sobek
Lisa Ann Taft
Emily Gene Vollmer
Christopher N. Welch
Alaina Denise Wilson
Susan M. Wilson
Colleen M. Wirries

Marketing

Craig Robert Cieslak
Robert M. Francis
Brian Robert Phelps
Kristy Lynn Saieg
Michael George Tolevich
Todd Bradley-Michael Werner
Nicole Jeanette Yates

CANDIDATES FOR UNDERGRADUATE DEGREES

August 1999

Accounting

Joseph Frank Capizzi
Stephanie Ann Yaroch

Finance

Kelly James Connelly
Vadim Goldman
Angela Marchio
Elisha Amber Matichuk
Benjamin Joseph Moller
Nicole A. Moore
Suzanne Marie Moschina
Trisha Ann Steen
Dmitry Vladimirov
Stephanie Ann Yaroch
Rebecca Marie Zeller

General Management

John Steven-George Bubnikovich
Timothy Garrett Chester
Kay Carol Huebner Dake
Carin Louise Dean
Michael Raymond Figlak
Valissa Denise Spencer
Jennifer Lynn Tribu

Human Resources Management

Nancy Bryson Hastings
Michele Johnson
Monica A. Pausuz
Karin Sue Persichino
Kristen Renea Vanpoelvoorde

Management Information Systems

Jasbir Kaur Aulakh
Sean Eap
Eric S. Ferland
Yves Auguste Guyon
James Joseph Kiely
Leonard Mark Kobylecki
Natan R. Patel
Jon W. Payne, Jr.
Asim Syed Shuttari
Julie Ann Wrobel

Marketing

Barbara Marie Cortis
David D. Harris, Jr.
Michelle L. Isopi
Colleen Frances Knee
Kathan Krispin Lefief
Dorothy Jean Lutey
Nancy Elizabeth Scherff
Natalie Denise Starks
Michelle Lynn Stickel

SCHOOL OF EDUCATION AND HUMAN SERVICES

Mary L. Otto, Dean

UNDERGRADUATE DEGREES AWARDED June 1999

BACHELOR OF SCIENCE

Elementary Education

Danielle Kathleen Bernier
Robin Ann Boback
Kyra Lou Burns
Sharon Marie Chriss
Arlene Susan Colwander
Jamee Rene Delamielleure
Leslie Gorno Demarco
Jermaine Demond Evans
Colleen Marie Flannery
Holly Ann Lentine
Tamra Elizabeth Lubera
Christin Aileen Machado
Renee Teresa Najjar
Amanda Lee Sidelinker

Human Resource Development - Human Services

Cynthia Lee Binder
Kelly Ann Flickinger
Robert Scott Golden
Toni Ellen Corley Wilson

Human Resource Development - Training and Development

Frederick Troy Allen
Cheryl Annette Breza
Kara Karmia Lefief
Cheri A. Noble
Vicki Lynne Olivares
Sonyia Elizabeth Pfeiffer
Kristi Marann Shepley
Janice K. Wade

CANDIDATES FOR UNDERGRADUATE DEGREES

August 1999

BACHELOR OF SCIENCE

Elementary Education

Erica Anne Bierlein
Jennifer Blair
Anne M. Brophy
Matthew H. Esper
Tara Denise Gandolfo
Michelle Nicole Haass
Bryan Edward Hartsig
Bernadette Locricchio
Whitney Ann Poirer
Alesia Marie Pride
Latricia Denise Monroe Ward
Kristen Marie Wirz
Karen Lynn Wenner

Human Resource Development - Human Services

Jennifer L. Allison
Elizabeth Ann Brewster
Kimberly A. Jablonski
Jennifer Christine Jones
Ruth Elizabeth McRoberts
Leah Ann Minton
Jeri Lynn Mychajluk
Kristin Leah Regener
Noremethel Renee Smith

Lisa Marie Wolfe
Anette Marie Wood

Human Resource Development - Training and Development

Sara June Aldridge
Marquel Denise Conner
Laura Jo Cordone
John David Daldine
Monica Helena DeMoura
Erika Shannon Dunn
Andrea Dominique Frechette
Yen T. Huynh
Kristen Marie Kaiser
Emily Jane Long
Beth Anne Lubienski
Sandra Kay Mattson
David W. McMaster
Lynette Elaine Mitan
Karen M. Pace
Rosalind Theresa Renwrick
Lisa Jane Schyck
Kristi L. Stuetzer
Alice Mary Thomas
Krista Angela Tocco
Rachelle LeeAnn Vespo
Kristie Jeanette Witkowski

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

Michael P. Polis, Dean

UNDERGRADUATE DEGREES AWARDED June 1999

BACHELOR OF SCIENCE

Computer Science

Thomas Joseph Bressie
Yevgeniy Goyfman

BACHELOR OF SCIENCE IN ENGINEERING

Computer Engineering

Timothy John Dedischew
Jonathan Michael Renner

Electrical Engineering

Jacob N. Allen
Michael David Farrand

Jasen Charles Gilbertson

Michael Lawrence Sharp
Laurence Lavell Virden

Mechanical Engineering

Daniel E. Bora
Robert Stanley McGowan
Christopher Allen Philbrick
Darren Wayne Stokes
Michael James Turner

Systems Engineering

Richard Carlo Parra

CANDIDATES FOR UNDERGRADUATE DEGREES August 1999

BACHELOR OF SCIENCE

Computer Science

Michael T. Dominick
Anna Cynthia Holeway
Matthew James Mancier
Janaki Mandava
Leon A. Robinson
Jason Brent Tasich

BACHELOR OF SCIENCE IN ENGINEERING

Computer Engineering

Jocelyn Marie Cross
Joseph Ottavio Mezza
Jason J. Monroe

Electrical Engineering

Jason A. Blair

Peter K. Hartinger

Ronald Lynn Lemmert
Michael Shimon
Chad Aaron Trnka
Laurence Lavell Virden

Mechanical Engineering

Mark Everett Arft
Nathan Daniel Bowyer
Christopher Joseph DiCicco
Deleria Denise Hammond
Kevin Bruce McGregor
Phung Tan Ngo
Christopher F. Pavelek
W. Cary Weatherhead

Systems Engineering

W. Cary Weatherhead

SCHOOL OF HEALTH SCIENCES

Ronald E. Olson, Dean

UNDERGRADUATE DEGREES AWARDED June 1999

BACHELOR OF SCIENCE

Health Sciences

Anar Rasesh Desai

CANDIDATES FOR UNDERGRADUATE DEGREES August 1999

Health Sciences

Jennifer Anne Carlson
Kevin Francis Howard
Suzanne Leigh McIntosh

Medical Laboratory Sciences

Daniel Lawrence Brittain
Nicole Marie Hancock
Kristi A. Morauski

SCHOOL OF NURSING

Justine J. Speer, Dean

UNDERGRADUATE DEGREES AWARDED

June 1999

BACHELOR OF SCIENCE IN NURSING

Jennifer Mary Cummings
Bobbi Margaret Francesconi
Mary Grace Gallagher

Teresa Roschelle Manus
Donnyell Marshall
Lisa Fay Mazur
Mary Ann Widman

CANDIDATES FOR UNDERGRADUATE DEGREES

August 1999

BACHELOR OF SCIENCE IN NURSING

Pamela Denise Buck-Christian
Michelle S. Holder
Annette Rose Marsack
Daniel Paul Ochylski

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.

UNIVERSITY AND DEPARTMENTAL HONORS

At each commencement Oakland University extends special recognition to those students who have attained outstanding levels of academic achievement.

The University Senate, acting on the advice of its Committee on Academic Standing and Honors, authorizes University Honors at three levels for those students who have completed 62 credits or more at Oakland, with cumulative averages as follows:

<i>Summa Cum Laude</i>	<i>3.90-4.00</i>
<i>Magna Cum Laude</i>	<i>3.75-3.89</i>
<i>Cum Laude</i>	<i>3.60-3.74</i>

Students who have earned University Honors wear a gold cord over their academic regalia.

Each student who has a record of superior achievement in a major field of study is awarded departmental honors and is identified by a red cord worn over academic regalia.

Conciliar honors are awarded by the Faculty Council for General Studies to outstanding graduates of the General Studies program, who are identified by the red cord over academic regalia.

NATIONAL HONORS ORGANIZATIONS

Membership in Beta Alpha Psi, the national scholastic and professional accounting society, is indicated by an orange cord worn over academic regalia.

Membership in Beta Gamma Sigma, the honor society for schools of business administration accredited by the American Assembly of Collegiate Schools of Business, is indicated by a green cord 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.

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

Membership in Phi Alpha Theta, the international honor society in history, is indicated by a madonna red and blue cord with multi-colored tassels.

Graduates of the Master of Public Administration Program who earn membership in Pi Alpha Alpha, the national honor society of public affairs and administration, wear a gold medallion attached to a gold and peacock blue ribbon.

Members of Psi Chi, the National Honor Society in Psychology, wear a double gold cord with royal blue and gold tassels.

Membership in Sigma Theta Tau, the International Honor Society of Nursing, is indicated by a lavender cord worn over academic regalia.

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

HONORS AWARDED

June 1999

UNIVERSITY HONORS

SUMMA CUM LAUDE

Cheryl Annette Breza
Leslie Gorno Demarco
Susan M. Wilson

MAGNA CUM LAUDE

Marva L. Casadei
Sharon Marie Chriss
Laura B. Hales
Patrick William Harris
Bonnie J. K. Hart
Lori L. Hines
Marcia Madeleine Korpalski
Jeffery Matthew Lopo
Michelle Marie Szczegielniak
Angella Colleen Webb
Mary Ann Widman
Toni Ellen Corley Wilson

CUM LAUDE

Mary Ellen Adison
Jacob N. Allen
Meredith Lindsey Dale
Christopher A. Floeter
Julie Ann Fogle
Mary Grace Gallagher
Julie Scolaro Gibson
Jeanette Helen Grimshaw
Gaytri Gupta
Holly Ann Lentine
Tamra Elizabeth Lubera
Jaime Lyn Moy
Vicki Lynne Olivares
Jeffery James Prusakiewicz
Stephanie Anne Tyler
Susan C. Vander Ven
Carrie Marie Verschaeve
Wendy Anne Wentworth
Cynthia Ann Williams

DEPARTMENTAL AND SCHOOL HONORS

Mary Ellen Adison, *Conciliar Honors*
Jacob N. Allen, *Electrical Engineering*
Timothy Walter Banfill, *Management Information Systems*
Thomas William Baughman, Jr., *Management Information Systems*
Cynthia Lee Binder, *HRD-Human Services*
Jodie Karina Binroth, *Accounting*
Susan K. Blake, *History*
Guy M. Brandt, *Finance*
Thomas Joseph Bressie, *Computer Science*
Cheryl Annette Breza, *HRD-Training and Development*
Madelia Buford, *Communication*
Rosa Alba Calabrese, *Mathematical Sciences*
Peter J. Calkin, *Chemistry*
Marva L. Casadei, *Psychology*
Sharon Marie Chriss, *Elementary Education*
Linda T. Churchvara, *Communication*
Kelly Lynne Conway, *Communication*
April Dawn Crum, *Management Information Systems*
Jennifer Mary Cummings, *Nursing*
Meredith Lindsey Dale, *Communication*
Leslie Gorno Demarco, *Elementary Education*

Anar Rasesh Desai, *Health Sciences*
Michael David Farrand, *Electrical Engineering*
Christopher A. Floeter, *Communication*
Julie Ann Fogle, *Biology*
Bobbi Margaret Francesconi, *Nursing*
Mary Grace Gallagher, *Nursing*
Julie Scolaro Gibson, *Spanish Language and Literature*
Jeanette Helen Grimshaw, *Conciliar Honors*
Gaytri Gupta, *Accounting*
David George Hall, *Communication*
Patrick William Harris, *History*
Bonnie J. K. Hart, *Art History*
Karey L. Hart, *Performing Arts*
Lori L. Hines, *English*
Robert Jeffrey Hlavin, *Sociology*
Anna Katarzyna Kaminski, *Biology*
Marcia Madeleine Korpalski, *Psychology*
Jennifer Tze-Hua Loh, *Management Information Systems*
Jeffery Matthew Lopo, *History*
Doneyell Marshall, *Nursing*
Karl James Mayry, *Anthropology*
Lisa Fay Mazur, *Nursing*
Robert Stanley McGowan, *Mechanical Engineering*
Christina Marie Meyer, *Accounting*
Syretta Sierra-Ethel Moore, *Communication*
Jamie Lyn Moy, *Journalism*
Cheri A. Noble, *HRD-Training and Development*
Kara L. Nowosielski, *Biological Sciences*
Vicki Lynne Olivares, *HRD-Training and Development*
Sara Lyn Opalewski, *Communication*
Jeffery James Prusakiewicz, *Biochemistry*
Jonathan Michael Renner, *Computer Engineering*
Kimary Anne Rudowski, *History*
Lisa Michelle Shannon, *Journalism*
Joanne F. Sitto, *Spanish Language and Literature*
Michelle Marie Szczegieliak, *English*
Susan C. Vander Ven, *Conciliar Honors*
Carrie Marie Verschaeve, *Spanish Language and Literature*
Angella Colleen Webb, *Biological Sciences*
Mary Ann Widman, *Nursing*
Cynthia Ann Williams, *Journalism*
Susan M. Wilson, *Management Information Systems*

HONORS AWARDED

August 1999

UNIVERSITY HONORS

MAGNA CUM LAUDE

Andrea Dominique Frechette
Kathleen Sue Jowers
Lynette Elaine Mitan
Janet Mary Reilly
Natalie Srbinovski
Lisa Marie Wolfe

Karin Sue Persichino
William Aloysius Petrick
Melinda Worek Rochon
Michael Shimon
Sally Srbinovski
Jeannine Susanne Warner
Kristen Marie Wirz
Anette Marie Wood

CUM LAUDE

Zackery Brian Belanger
Julie Kathryn Bieniek
Wendy Lynn Blazo
Sarah Anoush Brown
Jennifer Anne Carlson
Monica Helena DeMoura
Vadim Goldman

DEPARTMENTAL AND SCHOOL HONORS

Mark Everett Arft, *Mechanical Engineering*
Zackery Brian Belanger, *Physics*
Julie Kathryn Bieniek, *Spanish Language and Literature*
Sarah Anoush Brown, *Music: Composition*
Betsi L. Burns, *Communication*
Jennifer Anne Carlson, *Health Sciences*
Timothy Garrett Chester, *Human Resources Management*
Laura Jo Cordone, *HRD - Training and Development*
Kay Carol Huebner Dake, *General Management*
J. Tyler Delcamp, *Communication*
Monica Helena DeMoura, *HRD - Training and Development*
Andrea Dominique Frechette, *HRD - Training and Development*
Vadim Goldman, *Finance*
Amy Elizabeth Gudenau, *Anthropology*
Nancy Bryson Hastings, *Human Resources Management*
Anna Cynthia Holeway, *Computer Science*
Kathleen Sue Jowers, *History*
Natalie Jane LaFave, *Music Education*
Elisha Amber Matichuk, *Finance*
Karl James Mayry, *Anthropology*
Lynette Elaine Mitan, *HRD - Training and Development*

Nicole A. Moore, *Finance*
Kristi A. Morauski, *Medical Laboratory Sciences*
Gail A. Moro, *Conciliar Honors*
Karen Sue Persichino, *Human Resources Management*
William Aloysius Petrick, *Journalism*
Kristin Leah Regener, *HRD - Human Services*
Janet Mary Reilly, *Conciliar Honors*
Melinda Worek Rochon, *Journalism*
Kathleen Romant, *Conciliar Honors*
Michael Shimon, *Electrical Engineering*
Natalie Srbinovski, *German Language and Literature*
Sally Srbinovski, *German Language and Literature*
Dmitry Vladimirov, *Finance*
Lisa Marie Wolfe, *HRD - Human Services*
Anette Marie Wood, *HRD - Human Services*

These lists were current at the time of printing this commencement program.
Changes occurring too late to be included are reflected on the
diplomas and transcripts of graduates

SPECIAL AWARDS

RESEARCH EXCELLENCE AWARD

The Research Excellence Award is presented annually to a faculty member who has made distinguished contributions in the field of research. The university's founders emphasized the importance of research as an indispensable ingredient of innovative and stimulating teaching, as well as a contribution to the community and that nation at large. The 1999 recipient of the Research Excellence Award is:

Tadeusz Malinski
Professor of Chemistry

TEACHING EXCELLENCE AWARD

From its founding Oakland University has been committed to the principle that quality teaching is a major part of its mission. Celebrating this commitment nearly seventeen years ago, members of the faculty and administration, alumni and students created the Teaching Excellence Award to honor members of the faculty for their outstanding contributions. The 1999 recipient of the Teaching Excellence Award is:

Darrell P. Schmidt
Professor of Mathematical Sciences

NEW INVESTIGATOR RESEARCH EXCELLENCE AWARD

In 1995 the University Research Committee recommended that a new award be established to recognize the significant achievements of promising junior faculty members. The New Investigator Research Excellence Award is limited to scholars from all disciplines who are at earlier stages of their careers. The 1999 recipient of the New Investigator Research Excellence Award is:

Terri L. Orbuch
Assistant Professor of Sociology

UNDERGRADUATE DISTINGUISHED ACHIEVEMENT AWARD

The Undergraduate Distinguished Achievement Award was established in 1986 to recognize extraordinary academic accomplishments beyond superior grades. A student's scholarly publication in the arts, sciences, or a professional field; a literary work; the creation of performance of an artistic work; or the construction of a device or instrument are representative criteria for this award. The 1999 recipients of the Undergraduate Distinguished Achievement Award are:

Karen A. Morgante
Art History

James Michael Shaw
Music: Composition

OAKLAND UNIVERSITY BOARD OF TRUSTEES

David J. Doyle, *Chairman*

Ann V. Nicholson, *Vice Chairman*

Henry Baskin

Robert N. Cooper

Penny M. Crissman

David T. Fischer

Louis Grech-Cumbo

Rex E. Schlaybaugh, Jr.

Ex officio

Gary D. Russi, *President of Oakland University*

