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**COLLEGE OF AGRICULTURE
UNIVERSITY OF MINNESOTA**



**SPRING
COMMENCEMENT
1982**

**June 8, 1982
7:00 p.m.
Northrop Auditorium
Minneapolis, Minnesota**

PROGRAM

PROCESSIONAL

WELCOMING REMARKS

Keith Wharton, Acting Dean, College of Agriculture

INAUGURATION OF 1982-83 STUDENT BOARD PRESIDENT

William Erickson, President, 1981-82

PRESENTATION OF THE UNIVERSITY OF MINNESOTA HONORARY DEGREE

**Presented to Dr. Norman Borlaug by C. Peter Magrath, President,
University of Minnesota**

ADDRESS

C. Peter Magrath, President, University of Minnesota

PRESENTATION OF THE GRADUATES

**Keith Wharton, Acting Dean, College of Agriculture and
Departmental Representatives**

CONFERRING OF THE DEGREES

**W.F. Hueg, Jr., Deputy Vice President and Dean Institute of
Agriculture, Forestry and Home Economics**

CLOSING REMARKS

Keith Wharton, Acting Dean

HAIL! MINNESOTA (The audience will rise and sing)

**Minnesota, hail to thee! Hail to thee our college dear;
Thy light shall ever be, a beacon bright and clear.**

**Thy sons and daughters true, Will proclaim thee near and far;
They will guard thy fame and adore thy name, Thou shalt be their
northern star.**

RECESSIONAL

Organist: Mary Ann Papke

Dr. Norman E. Borlaug



Norman E. Borlaug was born on a farm near Cresco, Iowa in 1914. He was educated at the University of Minnesota where he received a B.S. degree in Forestry in 1937, and an M.S. and Ph.D. degree in Plant Pathology in 1941 and 1942, respectively.

After completing his studies under Dr. E.C. Stakman and others in the Department of Plant Pathology and Botany, Dr. Borlaug went to Mexico to participate in a new program to expand food production there under the sponsorship of the Mexican Ministry of Agriculture and the Rockefeller foundation (this work is now carried on by

CIMMYT — the International Maize and Wheat Improvement Center). In 1944 when Dr. Borlaug arrived in Mexico, agricultural methods were antiquated, the soil was drained of nutrients, fertilizer use was uncommon, and the crops were devastated by diseases such as rust as well as by insect infestations. With wheat production averaging only 12 to 15 bushels an acre, Mexico had to import 10 million bushels annually (over 50% of the supply needed to feed its people).

Dr. Borlaug and his colleagues went to work on these problems with a vengeance. For 17 years he worked in his wheat research plots in exhaustive testing and selection of parent stock. Each year Dr. Borlaug and his assistants analyzed the performance of 40,000 seed collections. After 13 years the persistent rust problem was under control but the yields remained low. The search for a germ plasm that would enable the wheat to assimilate large amounts of fertilizer and convert it into grain capable of withstanding extremes of heat, wind, and rain intensified. In 1961, years of unrelenting effort paid off as Borlaug combined a dwarf variety from Japan (Norin) with his own stock to produce a high-yielding hybrid wheat adaptable to the arid soil and tropical climate found in Mexico.

The release of this hybrid had astonishing results. Within four years, Mexican farmers had more than tripled their yields per acre and Mexico was able to meet its own supply needs and actually have a surplus for export. Other nations were not long in taking advantage of the new developments. India and Pakistan, nations with large populations to feed and agricultural problems similar to those of Mexico, placed seed orders totalling over 60,000 tons. In the five years after the introduction of the new strain (1965 to 1970), wheat production nearly doubled in these two countries enabling West Pakistan to become self-sufficient and for India to approach that goal. Dr. Borlaug's work has resulted in what is known as the "Green Revolution". Today young agricultural scientists trained by Dr. Borlaug conduct research on wheat, corn, rice, and potatoes in countries as diverse as Colombia, Nigeria, and the Philippines.

Norman Borlaug's long and distinguished career has been honored by the presentation of a large number of academic, scientific, civic, and governmental awards throughout this country and the world. He received Doctor of Science degrees from the Universities of Arizona (1972), Florida (1973), Michigan State (1971); from Punjab, Uttar Pradesh, and Kanpur Universities in India (1970 & '71); from Universidad de la Plata, Argentina (1971); Universidad Catolica de Chile, Chile (1974); Universitat Hohenheim, Germany (1976) and the University of Lyallpur, Faisalabad, Pakistan (1978).

Dr. Borlaug received the Outstanding Achievement Award, University of Minnesota (1959); the Elvin Charles Stakman Award, University of Minnesota (1961); the Scientific Service Award of El Colegio de Ingenieros Agronomos de Mexico (1970); First International Service Award in Agronomy — American Society of Agronomy (1968); Meritorious Service Award and Honorary Life Membership — American Association of Cereal Chemists (1969); Merit Award — Associacao dos Engenheiros Agronomos de Distrito Federal do Brasil (1971); Centennial Foreign Fellow — The American Society (1976); First Honorary Membership, Bangladesh Association for the Advancement of Science (1978).

Dr. Borlaug was the recipient of the first "Golden Spike of Wheat Award", Sonora, Mexico (1962); the 1967 National Distinguished Service Award — American Agricultural Editors Association; Star of Distinction — Government of Pakistan (1968); was named the 1969b Man of the Year — Independent Television of Britain; Nobel Prize for Peace (1970); and the Presidential Medal of Freedom, U.S.A. (1977).

Dr. Borlaug is a member of various academies of science such as the National Academy of Science of U.S.A., the Indian National Science Academy, and the Royal Society of Edinburgh. He is Director of the Population Crisis Committee; member, council for Agricultural Science and Technology; and on the Board of Directors of the International Food Policy Research Institute. In addition to his role as consultant to these and other organizations, Dr. Borlaug serves as an Honorary Visiting Professor at the University of Minnesota where he returns periodically to lecture, tutor, and confer with students in the College of Agriculture.

This program contains the names of College of Agriculture students who have applied for graduation at the end of Spring Quarter, Summer Session I and Summer Session II, 1982. Degrees will be approved when all graduation requirements have been met.

Graduation with *High Distinction* is limited to the top three percent of the graduating class for the year; with *Distinction* to the next seven percent of the class. Class rank is based on the last ninety credits completed prior to graduation as a student in the College of Agriculture.

MASTER OF AGRICULTURE

Animal Technology

Jose Rafael Mendez

Applied Social Science

Erlin James Weness

Food Technology

Myron Lloyd Johnson

DEPARTMENT OF AGRICULTURAL & APPLIED ECONOMICS

Major in Agricultural Business Administration

Gary David Angell

Richard Allen Bernard

Daniel Louis Bissonnette

Kevin Patrick Caskey

David Martin Christiansen

George Edward Cole

William Henry Erickson

Eric Edward Gill

Diane Rae Kraft-Harberts

James Rutherford Lacy

Dale Russell Martinson

Timothy Blaine Meyer

Connie Alison Miedtke

John Jude Mountain

John Orrin Nystrom

Cyprian Uchenna Obasi

Gary James Pahl

John Barker Pattison

Thomas Mark Schmitz

Catherine Ann Salin

Roger Leo Siebenaler

Timothy Bob Ulrich

Sharon Kay Waldorf

Jerrold Olaf Walker

Thomas Jones Wilder

Alan Craig Wittmer

Dwight Allen Wright, International Enrichment Certificate

Rodney Fred Ziebell

Major in Agricultural Economics

*Eric Anthony Annexstad
John Arthur Carlson
James Hammond Clark
Daniel W. Hartle
Steven Bruce Jacobson
Edwin Kainde King
Anne Bruley Lenss
Donald Theodore Mashak
Ronald Martin Warnes*

Major in Agricultural Economics and Agronomy

*Michael Eugene Fuerst
Joyce Ann Hall, Distinction*

Major in Agricultural Economics and Animal Science

*Ann Marie Niles, Distinction
Mark Raymond Pierson*

Major in Economics of Public Service

Catherine Elizabeth Cowley

Major in Resource Economics

Rebecca Lynn Wagner

DEPARTMENT OF AGRICULTURAL EDUCATION

Major in Agricultural Education

*Carol Jean Carlson
Christopher Lee Hawkins
Daniel P. Hayes
John Walter LaValla
Lori Ann Lerum
Timothy Dean Lippert
Galen Wayne Naber
Doug R. Ploof
Adam Joel Rachuy
Kenneth John Reckard
Mark Alex Reicks
Mark Anthony Reuvers
Connie S. Sykes*

**Major in Agricultural Education and Agricultural Business
Administration**

Elwin John Aggen

Major in Agricultural Education and Agricultural Economics

Dixie Beth Berg Lippert

Major in Agricultural Education and Animal Science

Galen Wayne Mercer

DEPARTMENT OF AGRICULTURAL ENGINEERING

Major in Agricultural Engineering Technology

Scott Alan Frykholm

Cynthia Kay Janacek

Daniel Paul Welch

DEPARTMENT OF AGRONOMY & PLANT GENETICS

Major in Agronomy

Neal Emanuel Anderson

Mary Patricia Brakke, Distinction

Kim Derby Hasselmann

Thomas Robert Hoverstad

Gregory Bryan Kegler, High Distinction

Paul Emil Kleinwachter, Distinction

Debora Lynn Knoch

James Malcolm Lee

David Sylvester Slater, High Distinction

Douglas Alan Smith

Eben Shelden Spencer, Jr.

Kevin Mark Turnblad

Major in Agronomy and Agricultural Economics

Jeffrey William Griep

Major in Agronomy and Horticultural Science

Kenneth Dean Kiehm

DEPARTMENT OF ANIMAL SCIENCE

Major in Animal Science

Cheryl Lee Anderson
Timothy T. Baumgarn
James Eugene Bird
Thomas Scott Bowersox, Distinction
Dam Choi
Dana Jaben Dane
Stephen Eugene Davis
Joyce Lynn Halvorson
David Thomas Hansen
Dale Robert Hermann
Mary Beth Hoover
Lisa Jon Iwaszko
Mark Charles Jurgenson
Christine Marie Link
Rena Therese Marier
Laura Mary Joy McCann, Distinction
Paul Arthur Molenaar
Carol Jane Neu
Rebecca Jane Olson
Gene Roy Peterson
Cynthia Lynn Ryan
Todd Timothy Sandager
Ann Marie Slinkard
Jeffrey Allan Snodgrass
Carol Elaine Stenstrom
Paul Eric Thompson, Distinction
Brenda Mae Thorson
Steven Peter Troendle
Ellan Welniak
Stephen Lee Wilkinson
Jeffrey John Winkelman, High Distinction
James Alan Woodford

Major in Animal Science & Agricultural Economics

Dean Roger Binder, Distinction
John Alden Davis
Jay Leslie Ewald
Dan L. Rabe
Donald Louis Ward

Major in Animal Science and Agricultural Education

James Melvin Wichmann

DEPARTMENT OF ENTOMOLOGY, FISHERIES & WILDLIFE

Major in Entomology and Plant Health Technology

Timothy Ray Grams, Distinction

Major in Fisheries

Jodene Kay Goplin, Distinction

Ryan John Kessler

Kurt David Nelson

Robert Walter Pillsbury

Major in Wildlife

B. Scott Fildes

Craig Fredric Johnson

Patrick Allan LaBoone

Andrew Austin McCoy

Dawn Marie Nelson

Anna Michle Pidgeon

DEPARTMENT OF FOOD SCIENCE & NUTRITION

Major in Consumer Food Science

Patricia Frances Meleedy-Rey

Major in Food Science & Technology

Brian T. Jansen

Myron Lloyd Johnson

Rodney Mark Johnson, Distinction

Jean Ann Kerber

Beth Elaine Nicoloff

Susan Rae Tomita

Major in Hospitality & Food Service Management

Jeffrey Arthur Preble

Evan Michael Smith

Major in Nutrition & Dietetics

Karen Leslie Fairchild

Deborah Ann Fidelman

Marily A. Jacobson

Leo Charles Legros

**DEPARTMENT OF HORTICULTURAL SCIENCE &
LANDSCAPE ARCHITECTURE**

Major in Horticultural Science

Kirsten Helen Albrecht, Distinction
Nancy Renee Anderson
Paul Scott Dreblow
Teresa Ann Hagen
Susan Lynn Hohman
Janet Lynn Huston
Douglas Daniel Janson
Laurie Marie Johnson, Distinction
Timothy Fredrick Kaul
Mark Robert Leiser
David Allyn Lindstrom
Mary Elizabeth Marshall
Paul L. Olson
Debra Kay Proctor
Mary Jo Spethmann
Karen Joy Wennberg
Thomas Wayne Zimmerman

Major in Horticultural Science and Plant Health Technology

Lewis Otjen

Major in Landscape Architecture

Timothy B. Adrian
Neal Alan Anderson
Debra Jean Christianson Brodsho
Victoria Jane Brost
LeRoy Kevin Davis
Michelle Farber
Gary R. Hittle
Ellen Marie Josephs
Steven Paul Lomicka
Lynn Nichols
Dean M. Olson
Lynn Anne Poshepny
Mark Lawrence Salzman
Josephine Rausch Vania

**DEPARTMENT OF INFORMATION & AGRICULTURAL
JOURNALISM**

Major in Agricultural Journalism

*Constance Marie Pierson
Linda Sue Radintz*

DEPARTMENT OF PLANT PATHOLOGY

Major in Plant Health Technology

*Jean Ida Batzer
Phyllis Horine Carlson
Diane Lois Voth
Nienke Eveline Warmoltz*

DEPARTMENT OF RHETORIC

Major in Technical Communication

*Matthew William Abe, Distinction
Rebecca Lynn Arends
Kim Arnold Berggren
John R. Cornwell
William Charles Grandel
Gordon Craig Hennesy
Andrea Raye Johnson
Stacy Vivian Kusnier, Distinction
Cheryl Ann Maue, Distinction
John Matthew Otto
Patti JoAnn Radford
Douglas John Schmidt
Margaret Mary Schulz*

DEPARTMENT OF SOIL SCIENCE

Major in Soil Science

*James Wesley Bacon
Gregory Paul Cremers
John Randolph Deans
Timothy Gene Schieffert
Donald Edward Schwieters*

Major in Soil Science & Agronomy

Scott James Fox, Distinction
Patrick Lyle Kelly
Keith William Renaldo
Jeffrey James Schmidt

Major in Soil & Water Resource Management

John Paul Kaehler
Dianne Cecelia Fier