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## Utah State University Commencement, 1969 – Main Campus

Utah State University

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13.2/1  
1969  
Commencement  
Program

SEVENTY-SIXTH ANNUAL  
COMMENCEMENT

UTAH STATE UNIVERSITY  
LOGAN, UTAH



FRIDAY, JUNE SIXTH

SATURDAY, JUNE SEVENTH

NINETEEN HUNDRED AND SIXTY-NINE

THE WHITE HOUSE  
WASHINGTON

TO THE 1969 GRADUATING CLASS  
UTAH STATE UNIVERSITY

Each generation, shaped by forces outside and within it, asks the question it must ask. Some generations, concerned with the building of a nation, ask "How?" Other generations, needing to set priorities for the future, ask "What?"

Your generation has asked "Why?"

As Americans we must together ask all of the big questions and seek to find answers. How we build a better America, what kind of nation we want, why we pursue certain goals instead of others -- these are not problems to be faced by one generation and ignored by another. All of us must face them.

A college education in the humanities and sciences teaches us that the real power to deal with these problems comes out of the human mind and the human heart. All power must be disciplined by trained intelligence and tempered by compassion.

Each of you is a center of power. Your professional or social or religious or political activity will determine the shape of the future of your nation and of the world.

The question asked by your generation -- Why? -- is one that must be answered not only by the quality of your rhetoric but by the quality of your lives. It was in your college years that we were first made aware of those "people talking without speaking, people hearing without listening."

What you have brought and will continue to bring to American life is not the sound of silence, but the sound of a generation which will work to ensure that, in the words of William Faulkner, "...man will not merely endure: he will prevail."

*Richard Nixon*







WHAT I WOULD HOPE for this University is that it would become widely known as a place where great teaching is emphasized and where a student, working within an intellectual environment, may come to know the marvelous victories that can come from the free mind alone; that it would lead out in producing a wiser and more competent leadership that can assist in giving direction to the development of Utah's culture in all its phases, and that a hallmark of excellence be stamped on all that the University does.

PRESIDENT GLEN L. TAGGART

March 7, 1969

# COMMENCEMENT ACTIVITIES

## FRIDAY, JUNE SIXTH

R.O.T.C. Commissioning Ceremonies  
*Chase Fine Arts Center Theatre, 10:00 A.M.*

Recognition Awards  
*Honoring wives of graduating students*  
*Main Auditorium, 1:45 P.M.*

Reception  
*For all graduating seniors, their families and friends*  
*Utah State Union, 3:00 P.M.*

Baccalaureate Services  
*Nelson Fieldhouse, 7:30 P.M.*

Senior Banquet  
*Utah State Union, 8:30 P.M.*

## SATURDAY, JUNE SEVENTH

Commencement Ceremonies  
*Nelson Fieldhouse, 9:00 A.M.*

College Graduation Ceremonies, 11:00 A.M.

College of Agriculture, *Utah State Union Auditorium*

College of Business, *Main Auditorium*

College of Education, *Nelson Fieldhouse*

College of Engineering, *Chase Fine Arts Center Theatre*

College of Family Life, *Logan Institute*

College of Humanities and Arts, *Chase Fine Arts Center Concert Hall*

College of Natural Resources, *Forestry-Zoology Auditorium*

College of Social Sciences, *L.D.S. Stake Center*

College of Science, *Utah State Union Ballroom*

*This booklet contains the only complete listing of candidates for graduation. Please bring it with you when you attend the college graduation ceremonies.*

# BACCALAUREATE

Friday Evening, June 6, 1969

7:30 P.M.

PRESIDENT GLEN L. TAGGART, *Conducting*

## PROCESSIONAL

*Triumphal March* from "Aida" ..... Verdi

University Orchestra, Ralph Matesky, *Conductor*

## INVOCATION

Roger B. Hansen

Member, Utah State University Board of Trustees

Superintendent, Wasatch Academy

## WELCOME

Glen L. Taggart

President, Utah State University

## MUSICAL SELECTION

*Hallelujah Chorus* from "The Messiah" ..... Handel

University Choir and Symphony Orchestra

Alma Dittmer, *Conductor*

## SERMON

The Most Reverend Robert J. Dwyer

Roman Catholic Archbishop of Portland

## BENEDICTION

Alma Sonne

Member, Utah State University Board of Trustees

Assistant to the Twelve, Church of Jesus Christ of Latter-day Saints

## RECESSIONAL

*March of the Priests* from "Athalia" ..... Mendelssohn

University Orchestra, Ralph Matesky, *Conductor*

# GRADUATION

Saturday Morning, June 7, 1969

9.00 A.M.

PRESIDENT GLEN L. TAGGART, *Conducting*

## PROCESSIONAL

*Grand March* ..... Percy Fletcher

*Sine Nomine* ..... Vaughan Williams

University Concert Band, Max F. Dalby, *Conductor*

## INVOCATION

Robert Shelton

Past President, Associated Students

## MUSICAL SELECTION

*Choric Song* from "*Lotus Eaters*" ..... Alfred Reed Tennyson

University Chorale and Band, William Ramsey, *Conductor*

## ADDRESS TO GRADUATES

Owen Meredith Wilson

President and Director, Center for Advanced Study  
in the Behavioral Sciences

## MUSICAL SELECTION

*Sinfonia Nobilissima* ..... Robert Jager

University Concert Band, Max F. Dalby, *Conductor*

## CONFERRING OF DEGREES

Glen L. Taggart

President, Utah State University

## MUSICAL SELECTION

*Alma Mater Hymn* ..... Theodore M. Burton

Max F. Dalby, *Conductor*

## BENEDICTION

Claudia Harris

Past Public Relations Vice President, Associated Students

## RECESSIONAL

*Regal Procession* ..... Clifton Williams

University Concert Band, Max F. Dalby, *Conductor*



# THE ACADEMIC PROCESSION

President and Board of Trustees

Official Guests

Honorary Degree Recipient

University Administrative Officers

Faculties of the Various Colleges

Candidates for Graduate Degrees

Candidates for Baccalaureate Degrees

## DRESS

The wearing of academic costume by faculty and student participants at the time of Commencement Exercises has become traditional among universities. The color and pageantry of these occasions are designed to indicate the degree of academic achievement of those who actively participate in such exercises. In order for the audience to better appreciate and understand the significance attached to these ceremonial aspects of the program, the following information is presented.

The significance of the costume is determined principally by the cut of the gown, the size and shape of the hood, and the color of the tassels on the cap. The BACHELOR'S gown is characterized by the long pointed sleeves. The gown worn by a MASTER has closed sleeves with the arc

of a circle near the bottom. The arm extends through the slit, giving the appearance of short sleeves. The hood consists of material similar to the gown and lined with the official academic color of the institution conferring the degree. If the institution has more than one color, the chevron is used to display the second color. The DOCTOR'S gown has full, round and open sleeves with three bars of velvet on each sleeve. The velvet facing of the bars may be black or the color indicative of the degree. The hood consists of a larger and longer assemblage of institutional color draped over the recipient's shoulders and falling well down the back.

The colors worn on the tassels signify the various colleges of the University from which a candidate is being graduated.

AGRICULTURE .....	Maise
BUSINESS .....	Drab
EDUCATION .....	Light Blue
ENGINEERING .....	Orange
FAMILY LIFE .....	Maroon
HUMANITIES AND ARTS .....	White
NATURAL RESOURCES .....	Russet
SCIENCE .....	Gold-Yellow
SOCIAL SCIENCES .....	Dark Blue
SCHOOL OF GRADUATE STUDIES (Ed.D, PhD) .....	Gold

## VALEDICTORIANS

Valedictorians have been selected by each college of the University. Addresses will be delivered at the College Graduation Ceremonies. Valedictorians are as indicated:

College of Agriculture .....	Lindon J. Robison
College of Business .....	Allen Francis Simkins
College of Education .....	Carolyn Hill Oldham
College of Engineering .....	John Richard Jones and John Ying Kuen Kwan
College of Family Life .....	Genan Taylor Anderson
College of Humanities and Arts .....	Chrystine Heward Reynolds
College of Natural Resources .....	Russell Dean Pilcher
College of Science .....	Joel Herbert Gyllenskog
College of Social Sciences .....	James Bryce Wadley

## HONOR GRADUATES

The quality of performance in Academic work enables the following to be graduated with distinction. Those who have met residence requirements and have maintained a grade point average of 3.80 to 4.00 are graduated Magna Cum Laude; those whose average is 3.50 to 3.79, Cum Laude.

### MAGNA CUM LAUDE

Genan Taylor Anderson	Joel Gyllenskog	Sally Thomas Nelson	Raymond Merlin Schenk
Sandra Lee Clark	Olinda Leigh Hoehne	Stephen Jay Noyes	Joan Katherine Shaw
Kambiz Daftarian	Annette R. Jacobson	Carolyn Hill Oldham	Allen Francis Simkins
Gayle Davies	John Richard Jones	Cheryl Patterson	James Bryce Wadley
Joyce Hall Davies	John Ying-Kuen Kwan	Russell Dean Pilcher	Kenneth J. Wanlass
Mary V. L. Dawson	Judy Ann Loosle Hicken	Chrystine Heward Reynolds	Milton Clair Webb
Marie Tolman Donigan	Mehrzad Nadji	Rosemary Sacco	Brent Henry Weidman

### CUM LAUDE

Margaret Ruth Anderson	Jerry Gordon Fackrell	Mary Jo Kaiser	William S. Richardson
Robert Karl Anger	Kathleen E. Fullmer	James H. Kennington	Vickie Lynn Rightmire
Mark Charles Arner	Robert David George	Dan B. Madsen	Lola Rae Roberts
Christine Bair	Calleen Eden Hall	Carole Aneesa Malouf Loosli	Lindon J. Robison
E. Lynne Higham Baron	Patricia Wells Hansen	Karen Kaye Mathews	Nancy Claire Salisbury
Joseph Scott Bergeson	Larry Dean Haramoto	Delwin C. Mecham	Roylance
LaDonna Black	Claudia Harris	Mary Kathleen Miller	David Louis Schilling
Bruce R. Bringham	Cynthia Harris	Lynda Sue Morton	Nick Clair Scholzen
Suzanne Holm Brown	Janice Jenkins Harrop	Beth J. Murphy	Brent Leonard Shipley
Jack Ring Christensen	Linda Heaton	Arnold Edwards Murray	Nancy Johnson Silvester
Susan Christensen	Jon Charles Hilgers	Reed L. Nelson	Arnold Ray Snow
Annie E. Compton	Karine Wursten Hill	Edward Leon Niebauer	Marie Spackman
Terry Lee Crafts	J. Penton Hollist	Margaret J. White Obray	Gertrude Ann Todd
David Peter Dahle	Dallas Lloyd Holmes	Victoria L. Olenlager Grupe	Marilyn Willis Turner
Thelma H. Davis	Michael Wade Ingram	Norman Stanley Parker	Jo Lynn Cox Warner
Janice P. Doolittle	Lyle Dwight Israelsen	Dixie Ann Larsen Payne	Mary Ellen Wilkinson
Nicole Dufresne	Thomas N. Jacobson	Esther Jane Peterson	Janet E. Wilson
Sue Ann Erickson	Genevieve P. Johnson	Jack Gordon Peterson	Dennis Monson Yeates
Roy Willard Esplin	Kathryn Irene Johnson	Mary Rebecca Peterson	Karl David Zufelt
Neal Binns Evans			

## HONORS PROGRAM GRADUATES

Annette Handy	Margaret White Obray	Christine Heward Reynolds	Gretchen Ronnow
Fonda Lee Jensen	Maradee Siler Peterson		

## UNIVERSITY CITIZENSHIP AWARD

Presented annually to the senior man and woman graduates who best portray high traits of character, scholarship, and citizenship.

Robert "Skip" Shelton

Claudia Harris

## HONORARY DEGREES

*Presented during 1968-1969 academic year*

### OWEN MEREDITH WILSON

"Let us now praise famous men, and our fathers that begat us . . . men . . . giving counsel by their understanding . . . leaders of the people by their counsels . . . wise were their words in their instruction."

Owen Meredith Wilson, Utah is proud that you are one of her own. Born of her pioneer stock, nourished in her culture, educated in her institutions, you in due time sought out also the culture and learning available beyond her borders and beyond the borders of the nation. You returned to share your increase with your people, superbly teaching and administering for several years in Utah's educational programs.

Then the wider world too claimed its just recompense for the enrichment it had provided you. It called on you to direct national and international committees and commissions, to advise presidents, to preside over universities. All these tasks you accomplished and are accomplishing with dedication and distinction.

Through all of your experiences you have continued to seek out learning, to share your learning, to increase man's store of learning. Utah State University is proud to have brought you back once more to share yourself with us, however briefly. It is proud to serve as a voice for Utah and its people in honoring you by conferring upon you the degree of DOCTOR OF HUMANITIES.

*The honorary degree for Dr. O. Meredith Wilson will be read by Richard J. Maughan, Chairman, Utah State University Board of Trustees.*

### RICHARD PALFREYMAN CONDIE

In an era marked by cynicism and violence, we of Utah State University take special joy in a man and an organization that have helped mightily to make Utah a source of spiritual strength and hope. We salute Richard P. Condie as a man of splendid personal qualities but also as conductor of the Mormon Tabernacle Choir which has exerted world-wide influence for many decades.

The phrase "music of the spheres" once expressed reverence for divine beauty of stars marching in majestic pageantry to celestial harmonies. Now to many, it seems to suggest the whirring of machines, either astral or mechanical. When we send astronauts to circle Earth or Moon, we boast of our "conquest of the Heavens" in a way that appears to connote not only pride in human technology but skepticism for belief in an all-wise and all-powerful Providence. However, in honoring Richard P. Condie and the Choir he directs, we acknowledge that a universal creative spirit surges up in every heart; that although misguided men can corrupt or pervert this energy toward destructiveness. Mr. Condie and the Choir help powerfully to nurture and discipline this spirit. They join in "the music of the spheres" to voice highest yearnings of great composers and singers greatly led, to aid countless persons of all faiths toward harmony and Christian love.

Mr. Condie has long contributed to international music culture as soloist in opera, concert and Choir. After 30 years in that organization, he is most widely known for the manner in which his baton weaves the strands of inspiring music, sung by hundreds of voices, into a living fabric. He and the Choir have warmed and strengthened aspiration in the souls of millions throughout the world.

He has led the Choir far beyond the confines of Utah to sing concerts in many cities of the United States, Mexico and Canada. Through electronic means, radio and television, and through records. Conductor Condie and the Choir have long reached all parts of the world.

Mr. Richard P. Condie, Utah State University honors you for your personal gifts, for your attainments gained in renowned music centers, for enriching Intermountain culture as singer and teacher at this institution and others, but above all for your masterful leadership of one of the world's largest, best known permanent choral groups. Therefore we are honored in recommending you for the honorary degree of DOCTOR OF FINE ARTS.

*The honorary degree of Doctor of Fine Arts was presented to Dr. Condie on March 7, 1969 on the occasion of a concert by the Salt Lake Tabernacle Choir in conjunction with the inauguration of Dr. Glen L. Taggart as the eleventh president of the University.*



## HONORARY DEGREES

Conferred by Utah State University, 1914 to 1969

Name	Year	Degree
John A. Widtsoe	1914	Doctor of Laws
C. G. Adney	1915	Master of Scientific Agriculture
John T. Caine, Sr.	1915	Master of Scientific Agriculture
Jeremiah W. Sanborn	1915	Doctor of Laws
J. C. Wheelon	1915	Master of Scientific Agriculture
Frank Thomas Hines	1920	Doctor of Laws
William Jardine	1925	Doctor of Laws
Anthony Woodward Ivins	1934	Doctor of Laws
George A. Eaton	1938	Doctor of Laws
Ulysses Prentiss Hedrick	1938	Doctor of Laws
William Jasper Kerr	1938	Doctor of Laws
Abby L. Marlatt	1938	Doctor of Laws
J. R. Beus	1944	Master of Agriculture
Elmer George Peterson	1945	Doctor of Laws
James Tertius Jardine	1946	Doctor of Science
William Peterson	1946	Doctor of Science
Phillip Vincent Cardon	1948	Doctor of Laws
James Albert Howell	1948	Doctor of Laws
Albert E. Bowman	1950	Doctor of Laws
Franklin S. Harris	1950	Doctor of Science
Johanna Moen	1950	Doctor of Laws
David O. McKay	1950	Doctor of Laws
C. G. Adney	1951	Doctor of Science
John T. Caine, III	1951	Doctor of Science
William R. Palmer	1952	Doctor's Degree
William R. Wallace	1952	Doctor's Degree
Ella V. Reeder	1953	Doctor of Humanities
Harold B. Lee	1953	Doctor of Humanities
Lyle F. Watts	1953	Doctor of Science
Edgar B. Brossard	1954	Doctor of Laws
Herschel Bullen, Jr.	1954	Doctor of Laws
Frederick P. Champ	1954	Doctor of Laws
Emma Ray Riggs McKay	1954	Doctor of Humanities
Thorpe B. Isaacson	1956	Doctor of Laws
Henry Aldous Dixon	1956	Doctor of Laws
Byron Thomas Shaw	1957	Doctor of Laws
Mrs. Elmer George Peterson	1957	Doctor of Humanities
Ezra Taft Benson	1958	Doctor of Laws
George Dewey Clyde	1958	Doctor of Science
Mrs. Burton W. Musser	1959	Doctor of Laws
Ernest O. Larsen	1959	Doctor of Science
Reed Warner Bailey	1960	Doctor of Sciences
Ernest Lowell Romney	1960	Doctor of Humanities
Ardeshir Zahedi	1960	Doctor of Laws
Hung Wo Ching	1961	Doctor of Laws
Henry Dinwoody Moyle	1961	Doctor of Humanities
Harold W. Ritchey	1961	Doctor of Sciences
Charles Donald Michaelson	1962	Doctor of Sciences
Orson Winso Israelsen	1962	Doctor of Sciences
Nels Alvin Pedersen	1962	Doctor of Humanities
Marriner S. Eccles	1963	Doctor of Laws
Fern B. Ercanbrack	1963	Doctor of Humanities
Franklin L. West	1963	Doctor of Laws
LeGrande Richards	1964	Doctor of Humanities
Jaunita L. Brooks	1964	Doctor of Letters
Newell V. Sanders	1964	Doctor of Laws
Lucy Ann Phillips	1965	Doctor of Humanities
Richard Hatch Bullen	1965	Doctor of Laws
Edward Parley Cliff	1965	Doctor of Sciences
Stewart Lee Udall	1966	Doctor of Laws
Arthur Larson	1967	Doctor of Laws
*Maurice Abravanel	1967	Doctor of Fine Arts
Obert C. Tanner	1968	Doctor of Humanities
*Richard P. Condie	1969	Doctor of Fine Arts
Owen Meredith Wilson	1969	Doctor of Humanities

\*All degrees given at Commencement unless otherwise noted.



# CANDIDATES FOR GRADUATION

## COLLEGE OF AGRICULTURE

VEARL R. SMITH, DEAN

### CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

Acton, James Gerald	Field, John Terry	Medina, Jesus Marie	Serr, Daryl Jay
Allred, Darwin Clyde	Francis, Ronald Grant, Jr.	Montgomery, Dennis Alan	Shepherd, Robert Blaine
Alvarez, Fernando C.	Fowler, Gaylord A.	Mount, Michael Eugene	Stevens, Frank Turner
Atkinson, Spencer Henry	Fuhrman, Roger John	Naegle, Dannie L.	Stevens, James W.
Bagley, Amy Marie	Gappmayer, Robert Bart	Olsen, Arthur D.	Swallow, Kent Rulen
Beezley, Lawrence Dean	Gashler, Sheridan Ted	Orias, Armando	Swaminathan, Subramaniam
Bennett, Scott Wayne	Gilbert, Max Merlin	Ontani, Wayne Shigeo	Telford, Michael R.
Brian, Harry Jay	Grond, Robert Eugene	Parker, Brent D.	Tinker, John Gale
Brownell, Stephen James	Hansen, Richard Dee	Peterson, Jerald Winn	Tolbert, Fred Sherman
Burns, Gregory Lee	Hatch, Stephen W.	Pierce, John Joseph	Wamsley, Stuart D.
Child, Edison Dee	Hubbard, Craig W.	Potter, George Eldon	Westhara, William Howard
Conrad, William Angus	Hull, Robert McClellan, Jr.	Randall, Marque Loy	White, George Merald
Cook, Eugene Nebeker	Johnson, Calvin Jeffrey	Rapp, Michael Daniel	Whitmore, James C.
Cornelison, Dennis H.	Knight, Harold Russel	Riley, Jim Kelly	Winn, Randall Edgar
Davis, Dean Warren	Kohler, Wallace Reuel	Roberts, Sidney Ray	Winterton, Lynn R.
Dawson, James Lawrence	Lewis, Tyrone D.	Robison, Lindon J.	Woods, Charles Robert
Dunn, Richard S.	Lolagar, Abdul-Ali	Rubink, William Louis	Woodward, Wayne Bodily
Eliason, John Perry	Marstella, John Leslie	Salisbury, Michael Hunt	Woolf, Ronald Jay
Evans, Ronald Cole	McCulloch, Michael Gary	Schimmelpennig, Howard G.	Worm, Christian William, Jr.
Farrell, Steven Barney	McKee, Thomas Milton	Seamons, Robert Cleve	

## COLLEGE OF BUSINESS

ROBERT P. COLLIER, DEAN

### CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

Israelsen, Lyle Dwight	Doane, Blair Elliott	Jepsen, Bruce J.	Packard, Brien Clarke
Brennan, Thomas Ryan	Jenson, Karl Sorensen	Liu, Ing-Haur	

### CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

Alvord, Kathleen Ann Dennis	Carling, Joel George	Hadaway, Harry Clifton, Jr.	Kloepfer, Elizabeth Hirst
Andersen, Arlene	Chase, Steven Don	Hancey, Blaine W., Jr.	Kohutek, Roy Richard
Anderson, Arlo William	Ching, David M. Lovell	Hansen, Craig Reed	Koralik, Alan Donald
Anderson, Elizabeth	Christensen, Floyd G.	Hansen, Don Alvin	Kramer, Richard Louis, Jr.
Anderson, Fred Jenson	Christensen, Gail L.	Harding, Irene	Kunz, Michael Dennis
Anger, Robert Karl	Chu, Frank Kuang-Fu	Haroldsen, Mark Oliver	LaFollette, Everett D.
Aoki, Ronald Masashi	Coffey, Gregory Dale	Harris, Cynthia	Larkin, LaRon Heber
Arnell, Robie Jay	Coleman, LeRoy P.	Harris, Paula Hyatt	Larsen, Joseph Steven
Astle, Dale Foerster	Coombs, Christopher C.	Hess, Gailen James	Larsen, Kurt LeMar
Baird, Lloyd S.	Cordingly Warren Kay	Hilverda, Andrew Lee	Lindberg, Linda Maud
Baird, Theron Mair	Corey, John Bennett	Hirschi, Marcile Grandy	Lu, Beverly Shao-Mei
Bangarter, Val J.	Daniels, Seldon M.	Holman, Karen Olsen	Marx, Cherrill Olsen
Bard, Thomas Dunn, IV	Darrow, Howard Curtis	Hoskin, Edith Knighton	McAllister, Mary Elizabeth
Barker, Thomas G. Jr.,	Davis, Donald Marvin	Hullinger, Don Robert	McPherson, D. Carol
Barratt, Jack Donald	Dixon, Deena Rae	Humphreys, Michael Dale	McPhie, Judith Welch
Barton, Sydney Theurer	Eberspacher, Gail E.	Hyatt, Donna Rae	Merrill, Jay Blaine
Beagley, Grant LeRoy	England, Clark Morgan	Jeppson, John Gary	Morton, Donald Patrick
Beutler, Ivan Felix	Fairchild, Brent Waite	Jepsen, Mary Ann Hull	Nadji, Mehrzad
Beckstead, Sidney L.	Seegmiller, Sylvia F.	Jepsen, Michael Harley	Nelson, Larry Reed
Beste, Donald Eric	Fuhriman, Frank Lee	Jones, Gail	Nelson, Lester Howard
Bingham, Dale Blaine	George, Calvin Ross	Jones, Jerry Larell	Niebauer, Edward Leo
Borg, Lynn Boyd	Gibbons, Thomas H.	Jorgensen, Adolph LaMar	Nield, Paula Ann Hurd
Brinton, William Wendell	Gittens, De Ann	Karren, Jay Dee	Nielsen, Kenneth M., Jr.
Broberg, Arnold Dale	Gnuschke, John Edmund	Kendall, Barbara Miller	Nielson, Roberta Grace
Brown, Gerald Dean	Graham, Allan G.	Kirby, Vance Nathan	Nielson, Ronald Roy
Brown, Peter Edward	Grames, Warren Keith	Klieforth, John James	Nish, Hyrum Boyce
Brown, Ronald Owen	Greaves, David Vaughan		Ogden, Rosalie
Buttars, Lanny John			Olsen, Robert Michael

## COLLEGE OF BUSINESS (Continued)

Olson, Roger Taggart	Scholzen, Nick Clair	Teng, Frank Tien-Fu	Vincent, Barry Paul
Palumbo, David Eugene	Sedgwick, Keith Howard	Thatcher, Barbara	Walker, James Herbert, III
Peterson, Jack Gordon	Short, Lawrence George	Thomas, Karen Irene	Walker, Joseph Lawrence
Phelps, Robert Ray	Shriber, Paul Henry, Jr.	Thompson, Norman James	Wallis, Kent Robert
Prichard, Norman L.	Simkins, Allen Francis	Thorson, Raymond Grant	White, Jon Bruce
Pugsley, Virgil Rex	Smith, Larry Ray	Toole, James William	Williams, Elgin Bradley
Rasmussen, Floyd Sterling	Speaker, Robert Braun	Toolson, Kay Lynn	Williams, Rowland George
Rawlings, Steve Sheldon	Spencer, Stanley Alan	Tschan, J. Donald	Wilson, Dennis Noel
Reese, Kathleen	Stephens, Kent Douglas	Twiss, Donna Marie	Wixom, Gary Shepherd
Roberts, Rhea B.	Stephenson, Richard Patrick	Ulrich, David Richard	Yeates, Dennis Monson
Rungkasiri, Dusit	Stratford, Roger George	Valentine, Dallas J.	Young, Edward Lester
Sacco, Greta Moyer	Tarbet, George Stephen	VanAusdal, Richard D.	Zanzi, Alberto Louis
Schenk, Raymond Merlin	Taylor, Loren Craig	Vaught, Steven Eugene	

## COLLEGE OF EDUCATION

ORAL L. BALLAM, DEAN

### CANDIDATES FOR THE DEGREE OF BACHELOR OF ART

Anderson, Alvin Carl	Duersch, Lora Lee Ann	Lundblad, Sandra Lee	Stanley, D'ann Jane
Andrews, Janice Kathryn	Harmon, Mozelle	Nelson, Sally Thomas	Taggart, Elizabeth M. Burrow
Barton, Judi Karell	Harrop, Janice Cheri Jenkins	Nelson, Thomas K.	Wrathall, Janet
Bringhurst, John Frank	Hill, Karine Wursten	Patterson, Cheryl	
Christenson, Susan	Kaiser, Mary Jo	Stanger, Lavoy David	

### CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE

Abplanalp, Larry Floyd	Carson, Ivan Eugene	Farmer, Linda	Hoyt, Herond Roy
Acklin, Linda Kay	Castleton, Gloria	Farnes, Katie	Huff, Glenna Hanson
Adams, Golden Virgil, Jr.	Cerulla, Walter Carmen	Fitzgerald, Merrily	Hughes, Deanne Germer
Adams, Richard Norr	Chard, Flora Diane	Fonnesbeck, Kathryn	Hunsaker, Kathleen
Aiken, Sandra Dianna	Cheney, Delbert Lamar	Force, James Nolan	Hunting, Fred Nate
Alger, Laurel Johnson	Chessler, Mark T.	Ford, Lenora Butikofer	Husband, Karen Elaine
Allen, Carolyn	Christensen, Ann Marie	Foremaster, Deanna M. Kogan	Ills, Deanna June Corless
Amundsen, Clifton Max	Christensen, Lyle Lund	Forzani, Joseph A.	Ireland, Michael John
Anderson, Elaine Beckstead	Christiansen, Darla Ann	Freeman, Nancy Loenza	Irvine, Mary
Anderson, Kathleen	Chruma, Jack Leon	Fujimoto, Shiro	Israelsen, Kathryn Gutke
Arnoldsen, LaRayne B.	Clark, Sandra Lee	Furstenau, Robert Allen	Jardine, Herald J.
Austin, Jean	Clyde, Christine	Snow, Janet Kae	Jeffs, Pamela Christensen
Axelggard, Karen	Coffey, Patricia Kay Stoffa	Gardner, Lois	Jenkins, Cody William
Aycock, Shirley Baxter	Coggins, Raymond G.	Gibbons, Darrel Lee	Jensen, Carol Olsen
Bagley, Kathleen Sargent	Colley, John Macy	Gibson, Betty Joan Smith	Jensen, Georgeana
Bair, Christine	Colton, Colleen Simper	Gitlin, Janis McKinnon	Jenson, Edwin Hyrum
Ball, Elaine	Colton, Emma Jean Bowcutt	Gold, Rosemary	Johns, DeNae Dorothy Dusserre
Barnes, Bob Allen	Cooley, John LeVern	Gosnell, James Douglas	Johnsen, Vernon Lloyd
Barton, Stanley Ned	Coomer, Frankie Lee	Green, Kathryn Summers	Johnson, James Darwin
Beck, Judy	Cowan, Carol Ann	Gross, Lance	Johnson, Karen Anna
Berg, Laura Jane	Cowley, Annette	Grupe, Victoria Olenlager	Johnson, Marilyn A.
Bergeson, Kathleen	Crane, Polly June	Gurney, Virgil Wayne	Johnson, Ruth Johnson
Bertelsen, Laura Diane	Crippen, Jeanne Nelson	Hall, Dianne Lee	Jones, Genevieve Aycock
Bingham, Heber Glenn, Jr.	Cronquist, William Kay	Hansen, Kristin Losser	Jorgensen, Kaye T.
Bingham, Helen Marie	Cuccia, Nick Joseph	Hansen, Linda Gail	Jorgensen, Michael
Birkin, Karen	Cude, Carol Ann	Hansen, Paul Glenn	Judd, Merrillee
Black, Kay Lynn	Czupka, Dwayne Alvin	Hart, Marcia Jean	Kamal, Guita
Bodily, Helen Jo	Davis, Nancy Elizabeth	Hasfurther, Marilyn Myler	Kerr, Nolan Pack
Bogh, Kathleen	Deans, Susan Carver	Hatch, Janet Nielsen	Khosravifard, Akbar
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Briggs, Mary Jane	Hall, Calleen Eden	Heilson, Geraldine	Langford, Anthony W.
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Burtenshaw, Terri	Fail, Deanna Lynn	Hoth, Kathleen Steffen	Lewis, Jerry William

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Joosten, John Craig	Morris, Samuel Andrew	Sakhakorn, Kamnung	Washburn, Robert Dean
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Brownell, Donna Gay	Hilgers, Jon Charles	Odd, Wallace Steed, II	Warren, Orveta
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Egan, John H.  
Fossen, Lawrence E.

George, Robert D.  
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Humpherys, Thomas W.  
Jacobson, Thomas N.  
Lefavor, David T.  
Maughan, Herschal L.

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Weber, Richard H.

Wilson, Dennis N.  
Yeager, Stephen C.  
Young, Edward L.

## DISTINGUISHED GRADUATES

Brown, Wesley B.  
Humpherys, Thomas W.

Jacobson, Thomas N.

Minchey, Todd R.

Taylor, John W.

## MILITARY SCIENCE

Graduates presented a Commission as Second Lieutenant,  
United States Army, at earlier unit ceremonies.

### ADJUTANT GENERAL

Bringhurst, John F.  
Daniels, Seldon M.  
Kerr, Nolan P.  
Short, James B.

### ARMOR

Bertolio, William D.  
Broberg, Arnold D.  
Hubbard, Craig W.  
Nielsen, Eric D.

### ARTILLERY

Jepsen, Michael H.

### ENGINEER

Howard, Dennis P.

### INFANTRY

Amundsen, Clifton  
Baird, Theron M.  
Bangerter, Val J.  
Campbell, Ronald H.  
Carlson, Johan  
Chamness, James L.  
Chase, Steven D.  
Christensen, Mark  
Gibbons, Thomas H.  
Hansen, Don A.

### INFANTRY (Continued)

Johnson, James D.  
Larsen, Steven H.  
Moore, Randall H.  
Pierce, John J.  
Price, Relf L., III  
Sandberg, Richard  
Shaffer, Dan S.  
Smith, Larry D.  
Taylor, Ralph L., Jr.  
Thorson, Raymond, G.  
Valentine, Dallas  
Watkins, Brent L.

### MEDICAL

Arner, Mark C.  
Koerner, Karl R.  
Strong, Scott L.  
Tarbet, George S.  
Warnick, George R.

### MILITARY INTELLIGENCE

Gibbons, Stephen H.  
Lamb, Arthur W.  
Nelson, Larry R.  
Robison, Lindon J.  
Todd, Larry D.  
Tolman, Scott B.

## DISTINGUISHED GRADUATES

Arner, Mark C.  
Campbell, Ronald H.  
Daniels, Seldon M.  
Francis, Ronald G.

Kerr, Nolan P.  
Koerner, Karl R.  
Lamb, Arthur W.  
Robison, Lindon J.

### MILITARY POLICE

Burton, John E., Jr.  
Cheney, Perry S.  
Hess, Gailen J.

### ORDINANCE

Helfferich, William M.

### QUARTERMASTER

Francis, Ronald G.  
Huber, Mark S.  
Mifflin, Steve P.  
Salisbury, Michael H.

### SIGNAL

Borg, Lynn B.  
Hurst, Roger F.  
Vincent, Barry P.

### TRANSPORTATION

Bracken, Charles F.  
Hagius, Charles F.  
Nuttal, Edward R.

Salisbury, Michael H.  
Strong, Scott L.  
Todd, Larry D.  
Warnick, George R.



# THE SCHOOL OF GRADUATE STUDIES

ELDON J. GARDNER, DEAN

## DOCTOR OF PHILOSOPHY

### ADAMS, WALTER DALE

Lander, Wyoming  
MA: University of Denver, 1951  
Major: Child Psychology  
Major Professor: Dr. Glendon Casto  
Dissertation: Survival Training: Its Affect on Self Concept and Selected Personality Factors of Disturbed Adolescents

### AGHA, JAWAD THANOON

Raleigh, North Carolina  
MS: North Carolina State University, 1962  
Major: Horticulture  
Major Professor: Dr. J. LaMar Anderson  
Dissertation: The Effects of Pre-emergence Applications of Dalapon on Physio-chemical Changes in Apple, Sour Cherry, Sweet Cherry, and *Prunus mahaleb*

### AMISIAL, ROGER A. GABRIEL

Port-au-Prince, Haiti  
MS: Colorado State University, 1965  
Major: Civil Engineering  
Major Professor: Dr. J. Paul Riley  
Dissertation: Analog Computer Solution of the Unsteady Flow Equations and its Use in Modeling the Surface Runoff Process

### BAILEY, DAVID EUGENE

Collbran, Colorado  
MS: Oregon State University, 1966  
Major: Toxicology  
Major Professor: Dr. Joseph T. Blake  
Dissertation: Brisket Disease: Influence of Hypoxia and an Induced Calcium-Potassium Imbalance on the Mineral Composition of Blood, Heart, Liver Kidney, and Bone

### BEARDSLEY, WENDELL GILLETT

Stillwater, Minnesota  
MS: University of Minnesota, 1965  
Major: Forest Science  
Major Professor: Dr. Ross S. Whaley  
Dissertation: Evaluation of Recreation Benefits—the Cache la Poudre River, Colorado

### BEERS, GARY DELMAN

Tucson, Arizona  
MS: University of Arizona, 1965  
Major: Aquatic Ecology  
Major Professor: Dr. John M. Neuhold  
Dissertation: Rates of Algal Production and *Sphaerotilus* assimilation in Logan River, Utah

### BLAKE, REED HARRIS

St. George, Utah  
MS: Brigham Young University, 1959  
Major: Sociology  
Major Professor: Dr. Wade H. Andrews  
Dissertation: A Comparison of the Effect of Mass-Communicated Surveillance on the Group Property of Rumor in Two Small Cities

### BRASHER, RUTH ELIZABETH

Huntington, Utah  
MA: University of Maryland, 1959  
Major: Sociology  
Major Professor: Dr. Theres R. Black  
Dissertation: Influence of Religious Ideology on Extended Kinship Behavior

### CHOBOTAR, BILL

Abbotsford, British Columbia, Canada  
MS: Walla Walla College, 1968  
Major: Zoology  
Major Professor: Dr. Datus M. Hammond  
Dissertation: The Asexual and Sexual Stages of *Eimeria auburnensis* in Calves

### CHRISTENSEN, BARBARA G.

Richfield, Utah  
MS: Oregon State University, 1962  
Major: Clothing & Textiles  
Major Professor: Dr. Norma Compton  
Dissertation: Bark Cloth or Tapa: Its Past and Present-day Uses in Selected Areas of the Pacific as Related to Social Change

### CLARK, WAYNE NORRIS

Laie, Oahu, Hawaii  
MS: Utah State University, 1961  
Major: Zoology  
Major Professor: Dr. Datus Hammond  
Dissertation: The Development of *Eimeria auburnensis* in Cell Cultures

### CUTFORTH, DARRELL C.

Blackfoot, Idaho  
MS: Utah State University, 1964  
Major: Mechanical Engineering  
Major Professor: Dr. Owen K. Shupe  
Dissertation: Neutron Sources for Neutron Radiography

### DEVRIES, RICHARD NORMAN

Lincoln, Nebraska  
MS: University of Nebraska, 1963  
Major: Civil Engineering  
Major Professor: Dr. Calvin G. Clyde  
Dissertation: An Application of Optimization in Planning the Use of Multiple Water Sources that Supply Municipal Water Demands

### DICKSON, IAN WILLIAM

Brandon, Manitoba, Canada  
MS: University of Manitoba, 1964  
Major: Fishery Biology  
Major Professor: Dr. R. H. Kramer  
Dissertation: Factors Influencing Respiratory Metabolism of Rainbow Trout (*salmo gairdneri*)

### DO, JOSEPH YUNGSHENG

Taipei, Taiwan, China  
MS: Utah State University, 1964  
Major: Food Science and Technology  
Major Professor: Dr. D. K. Salunke  
Dissertation: Isolation, Identification, and Comparison of the Volatiles of Peach (*Prunus persica* L., Cultivar, Gleason Early Elberta) Fruit as Related to Harvest Maturity and Artificial Ripening

DOCTOR OF PHILOSOPHY (Continued)

DOUCE, PEARL D. M.

Kingston, Jamaica  
MS: Oregon State University, 1963  
Major: Clothing and Textiles  
Major Professor: Dr. Anne Kernaleguen  
Dissertation: Selected Aspects of Personality Related to Social Acceptance and Clothing Oriented Variables

ERMAN, DON COUTRE

Indianapolis, Indiana  
MS: Purdue University, 1965  
Major: Aquatic Ecology  
Major Professor: Dr. William T. Helm  
Dissertation: Ordination of Benthic Invertebrate Communities in Bear Lake

FAN, KENNETH KUAN-LING

Taipei, Taiwan, China  
MBA: Seton Hall University, 1962  
Major: Sociology  
Major Professor: Dr. Thel R. Black  
Dissertation: A Study of the Relation of the Change of Vehicular Travel Time and Size of Population to the Change in Number and Types of Trips Among Communities

FAYER, RONALD

Westmont, New Jersey  
MS: Utah State University, 1965  
Major: Zoology  
Major Professor: Dr. Datus M. Hammond  
Dissertation: Developments of *Eimeria bovis* in Cultured Mammalian Cells

FRAIR, CHERYL MAYO

LaCrosse, Wisconsin  
MS: Utah State University, 1966  
Major: Child Psychology  
Major Professor: Dr. Marvin F. Daley  
Dissertation: Behavioral Modification of Trainable Mentally Retarded Children

GASTO, JUAN MIGUEL

Santiago, Chile  
MS: Colorado State University, 1963  
Major: Ecology  
Major Professor: Dr. Neil E. West  
Dissertation: Comparative Autecological Studies of *Eurotia lanata* and *Atriplex confertifolia*

GILLINGS, JAMES LANE

Prescott, Arizona  
MS: Brigham Young University, 1966  
Major: Sociology  
Major Professor: Dr. Wade H. Andrews  
Dissertation: Natural Resource Development, Use, and Control and the Rural-Urban Differential in the Bear River Basin

HOGGAN, DANIEL H.

Logan, Utah  
MS: Stanford University, 1953  
Major: Civil Engineering  
Major Professor: Dr. Jay M. Bagley  
Dissertation: State Organizational Patterns for Comprehensive Planning of Water Resources Development

HSU, WEN-PIN

Tainan, Taiwan  
MS: Utah State University, 1965  
Major: Plant Nutrition and Biochemistry  
Major Professor: Dr. Gene W. Miller  
Dissertation: Metal Requirements of Coproporphyrinogenase and Aconitate Hydratase in Higher Plants

JENSEN, DOUGLAS RAY

Richfield, Utah  
MS: Utah State University, 1965  
Major: Electrical Engineering  
Major Professor: Dr. R. D. Harris  
Dissertation: Atmospheric Motions Due to Internal Atmospheric Gravity Waves

KRANZ, PETER LEWIS

Scarsdale, New York  
MS: Utah State University, 1965  
Major: Psychology  
Major Professor: Dr. Glendon Casto  
Dissertation: Psychological Investigation of Seven Hermaphroditic Children

KURATTI, LAXMAN G.

Dharwar, Mysore, India  
MS: Utah State University, 1966  
Major: Soil Science  
Major Professor: Dr. R. L. Smith  
Dissertation: Catalytic Effect of Soil Components on Nitrate Transformation in Buffer Acid Solutions

LAMBORN, CALVIN RAY

Salt Lake City, Utah  
MS: Utah State University, 1964  
Major: Plant Virology  
Major Professor: Dr. George W. Cochran  
Dissertation: Improvements in the Biological Assay of Tobacco Mosaic Virus

LEHNER, PHILIP NELSON

Franklin, Pennsylvania  
MS: Cornell University, 1964  
Major: Wildlife Biology  
Major Professor: Dr. J. B. Low  
Dissertation: The Effect of Dieldrin on the Color Vision of Juvenile Mallards

MANAM, PANDURANGARAO VENKATA

Madras, India  
MS: Indian Institute of Technology, 1960  
Major Professor: Dr. Gary Z. Watters  
Major: Civil Engineering  
Dissertation: Effects of Effluent and Influent Seepage on the Hydrodynamic Forces Acting on a Non-cohesive Sediment Particle

MCKNIGHT, DONALD EDWARD

Onalaska, Washington  
MS: Washington State University, 1962  
Major: Wildlife Biology  
Major Professor: Dr. J. B. Low  
Dissertation: Waterfowl Production on a Utah Spring-fed Salt Marsh

MILLIGAN, JAMES HOMER

Logan, Utah  
MS: Utah State University, 1963  
Major: Civil Engineering  
Major Professor: Dr. C. G. Clyde  
Dissertation: Optimizing Conjunctive Use of Groundwater and Surface Water

## DOCTOR OF PHILOSOPHY (Continued)

### MURALIDHARAN, V. P.

Payyanur, India  
MS: University of Baroda, 1963  
Major: Chemistry  
Major Professor: Dr. R. C. Anderson  
Thesis Director: Dr. F. R. Stermitz  
Dissertation: Alkaloids of *Arctomecon Californicus*:  
Investigation of the Photochemical Behavior of  
Some Ketones

### NARAYANA, V. V. DHRUVA

Gunter, India  
MS: Utah State University, 1967  
Major: Civil Engineering  
Major Professor: Dr. Jay M. Bagley  
Thesis Director: Dr. J. P. Riley  
Dissertation: Application of an Electronic Analog  
Computer Technique for the Evaluation of the  
Effects of Urbanization on the Runoff Character-  
istics of Small Watersheds

### NORERO, ALDO L.

Vina del Mar, Chile  
MS: Oregon State University, 1960  
Major: Soils and Meteorology  
Major Professor: Dr. Gaylen L. Ashcroft  
Dissertation: A Formula to Express Evapotranspiration  
as a Function of Soil Moisture and Evaporative  
Demand of the Atmosphere

### PACKER, MURLAND RAY

Ririe, Idaho  
MS: Utah State University, 1967  
Major: Civil Engineering  
Major Professor: Dr. J. Paul Riley  
Dissertation: Simulation of the Hydrologic-Economic  
Flow System

### PATEL, SHARAD

Baroda, India  
MS: University of Baroda, 1962  
Major: Nutrition and Biochemistry  
Major Professor: Dr. Ethelwyn B. Wilcox  
Dissertation: Effect of Different Levels of Dietary  
Protein and Sex Hormones in Lipid Metabolism in  
Male Castrated Rats

### PHILLIPS, JOHN P.

Durango, Colorado  
MS: Utah State University, 1967  
Major: Zoology  
Major Professor: Dr. J. R. Simmons  
Dissertation: The Problem of Terminal Xanthommatin  
Synthesis in *Drosophila*

### SAJID, MOHAMMAD AZHAR

Lyallpur, West Pakistan  
MS: Utah State University, 1967  
Major: Bacteriology  
Major Professor: Dr. Paul B. Carter  
Dissertation: Antigenic Analysis and Serological Typ-  
ing of *Staphylococcus aureus*

### SHAH, BHARAT MANU

Navapur, India  
MS: University of Tennessee, 1965  
Major: Food Science and Technology  
Major Professor: Dr. D. K. Salunkhe  
Dissertation: Effects of Ripening Processes on Chem-  
istry of Tomato Volatiles

### SHETTY, ANTARAGUTTU SUBBAYYA

South Kanara, Mysore, India  
MS: Utah State University, 1965  
Major: Botony  
Major Professor: Dr. Gene W. Miller  
Dissertation: Purification and Properties of Delta-  
aminolevulinic Acid Dehydratase from Tobacco  
Leaves

### SHUKRI, NAZAR AHMAD

Baghdad, Iraq  
MS: University of Wisconsin, 1965  
Major: Food Science and Technology  
Major Professor: Dr. C. A. Ernstrom  
Dissertation: Activation of Prorennin

### SLATER, ROBERT LEE

Denver, Colorado  
MS: Colorado State University, 1964  
Major: Zoology  
Major Professor: Dr. Datus M. Hammond  
Dissertation: The Cytological Effects of Amprolium  
on the Endogenous Stages of *Eimeria Bovis* in  
Older Calves

### SMITH, VIRGIL BUSHMAN

Salt Lake City, Utah  
MS: Brigham Young University, 1954  
Major: Sociology  
Major Professor: Dr. H. Bruce Byland  
Dissertation: A Study of Ideal and Real Behavior in  
Terms of Norm Forms and Conformity

### SUGDEN, LAWSON GORDON

Saskatoon, Saskatchewan, Canada  
MS: Utah State University, 1957  
Major: Wildlife Biology  
Major Professor: Dr. J. B. Low  
Dissertation: Foods, Food Selection, and Energy Re-  
quirements of Ducklings in Southern Alberta

### TORRETA, DELFINA MARQUEZ

Tigbauan, Iloilo, Philippines  
MS: University of Rhode Island, 1964  
Major: Clothing and Textiles  
Major Professor: Dr. Norma Compton  
Dissertation: Somesthetic Perception of Clothing Fab-  
rics in Relation to Body Image and Psychological  
Security

### VAJANASOONTORN, CHALERMWONG

Bangkok, Thailand  
MS: Utah State University, 1964  
Major: Psychology  
Major Professor: Dr. David R. Stone  
Dissertation: Superordinate Words and Subordinate  
Words in Mediate Association

### VOGEL, JAMES G.

Chilton, Wisconsin  
BS: St. Norbert College, 1965  
Major: Inorganic Chemistry  
Major Professor: Dr. Brice G. Hobrock  
Dissertation: Mass Spectral Investigations of Inorgan-  
ic Coordination Compounds

## DOCTOR OF PHILOSOPHY (Continued)

### WALKER, ROBERT EDGAR

Toronto, Ontario, Canada  
MA: University of Toronto, 1964  
Major: Animal Ecology  
Major Professor: Dr. Allen W. Stokes  
Dissertation: Local Distribution in a Population of  
Uinta Ground Squirrels

### WATTS, CHARLES ROBERT

Whitehall, Montana  
MS: Pennsylvania State University, 1964  
Major: Wildlife Biology  
Major Professor: Dr. Allen W. Stokes  
Dissertation: The Social Organization of Wild Tur-  
keys on the Welder Wildlife Refuge, Texas

### WHITE, JAMES ARTHUR

Portales, New Mexico  
MS: Eastern New Mexico University, 1966  
Major: Chemistry  
Major Professor: Dr. R. C. Anderson  
Dissertation: The Alkaloids of *Remijia purdieana*  
Wedderly; The Hydrogen Deuterium Exchange of  
Methyl Ixithiazoles

### YAZDANIHA, ATAOLLAH

Isfahan, Iran  
MS: Utah State University, 1964  
Major: Plant Science  
Major Professor: Dr. David R. Walker  
Dissertation: A Study of Foliar Absorption of Urea  
in Peach and Apple Trees as Influenced by Plant  
and Environmental Factors

## DOCTOR OF EDUCATION

### BABCOCK, JAMES GRAY

Chico, California  
MA: San Jose State College, 1962  
Major: Industrial and Technical Education  
Major Professor: Dr. Neill C. Slack  
Dissertation: An Experimental Study to Determine  
the Effects that Creative Problem Solving Sit-  
uations Have Upon Creative Thinking Ability and  
Visual Thinking Ability of Selected Students in  
College Descriptive Geometry Classes

### BELL, NORMAN DARREL

North Ogden, Utah  
MA: University of Utah, 1965  
Major: Educational Psychology  
Major Professor: Dr. John R. Cragun  
Dissertation: The Relationship of Occupational Choice  
to Ego Identity and Self Concepts

### BURBANK, IRVIN KIMBALL

Lethbridge, Alberta, Canada  
MS: Utah State University, 1966  
Major: Curriculum Development and Supervision  
Major Professor: Dr. Ross R. Allen  
Dissertation: Relationship Between Parental Attitude  
Toward Mathematics and Student Attitude Toward  
Mathematics and Between Student Attitude Toward  
Mathematics and Student Achievement in Mathe-  
matics

### BUTORAC, MARLENE A.

Arkadelphia, Arkansas  
MS: University of Arkansas, 1958  
Major: Educational Administration  
Major Professor: Dr. David Stone  
Dissertation: Literal and Inferential Concept Respon-  
ses of Male and Female Six-year-old Subjects

### CASPER, JAY WILSON

Idaho Falls, Idaho  
ME: Utah State University, 1958  
Major: Educational Administration  
Major Professor: Dr. Homer M. Johnson  
Dissertation: A Survey of Opinion Regarding the  
Amount of Responsibility that the Public Schools  
of Idaho Should Assume for Providing Programs  
and Services for Exceptional Children

### DASH, EDWARD FRANK

Oakland, California  
MA: University of California, Berkeley, 1962  
Major: Counseling Psychology  
Major Professor: Dr. E. Wayne Wright  
Dissertation: The Effects of Self-Responsibility on the  
Progress that Students Make in Counseling

### DERBYSHIRE, MAURICE A.

Salt Lake City, Utah  
MS: University of Utah, 1958  
Major: Elementary Education  
Major Professor: Dr. Malcolm Allred  
Thesis Director: Dr. David Stone  
Dissertation: The Effect of Two Documentary Films  
Upon Parent's Attitudes Toward the Value of Phon-  
ics in Teaching Reading

### DIRKSEN, DENNIS A.

Goessel, Kansas  
MS: The Kansas State Teachers College of Emporia,  
1961  
Major: Industrial and Technical Education  
Major Professor: Dr. William E. Mortimer  
Dissertation: An Analysis of the Articulation Pro-  
cedures Related to the Transfer of the Two-Year  
College Students to Four-Year College Programs  
of Industrial Arts Education in the State of Kansas

### EDMUNDS, NIEL A.

St. Edward, Nebraska  
MS: Wayne State College, 1960  
Major: Industrial Education  
Major Professor: Dr. Neill C. Slack  
Dissertation: The Identification of Trade and Indus-  
trial Education Programs and the Problems Relat-  
ing to the Implementation of These Programs in  
Small High Schools

### EMBREE, JAMES EDWARD

Ontario, Oregon  
MS: University of Oregon, 1953  
Major: Educational Administration  
Major Professor: Dr. Homer M. Johnson  
Dissertation: The Relationship of Life Experience Pat-  
terns and Personality Factors Indicating Innovative  
Potential



## DOCTOR OF EDUCATION (Continued)

### HAWS, JOHN CLAUD

Brigham City, Utah  
MS: Brigham Young University, 1954  
Major: Educational Administration  
Major Professor: Dr. Oral L. Ballam  
Dissertation: The Legal Authority of Local School Boards in the State of Utah With Respect to Teaching Personnel

### HIRSCHI, FRANK W.

Montpelier, Idaho  
ME: Utah State University, 1962  
Major: Educational Administration  
Major Professor: Dr. Terrance E. Hatch  
Dissertation: The Relationship of Selected Variables to the Voting Record of Idaho Legislators on Public School Legislation

### HURST, JUSTIN FRED

Salt Lake City, Utah  
MS: University of Utah, 1954  
Major: Educational Psychology  
Major Professor: Dr. E. Wayne Wright  
Dissertation: The Influence of Color and/or Movement Added to Thematic Apperception Test to Evoke Need Achievement

### JACOBSON, JAMES ALBERT

Marquette, Michigan  
MS: Utah State University, 1966  
Major: Educational Administration  
Major Professor: Dr. Homer M. Johnson  
Thesis: A System Analysis of Master Planning Public School Districts to Determine the Feasibility of Computer Utilization

### JOHNSON, RICHARD HORACE

Oroville, California  
MS: University of Southern California, 1955  
Major: Curriculum Development and Supervision  
Major Professor: Dr. Devoe Rickert  
Dissertation: An Investigation of the Effectiveness of Operant Techniques with Educable Mentally Retarded Children

### KUNKEL, ADRIANA LANTING

Nyssa, Oregon  
MS: Utah State University, 1954  
Major: Science Education  
Major Professor: Dr. Walter Saunders  
Dissertation: Influence of the High School Chemistry Textbook Used on Students' Success in College Chemistry

### LAMBERT, CARROLL CARMAN

Magna, Utah  
MS: Utah State University, 1961  
Major: Curriculum Development and Supervision  
Major Professor: Dr. Malcom Allred  
Dissertation: Teacher and the Curriculum for Pre-school Children in Head Start

### PALMER, JARVIS PAGE

Preston, Idaho  
MS: Utah State University, 1954  
Major: Secondary Education  
Major Professor: Dr. Max F. Dalby  
Dissertation: An Appraisal of Music Programs in the Public Schools of Utah

### RAMPTON, GEORGE OLIVER

Syracuse, Utah  
MS: University of Utah, 1964  
Major: Curriculum Development and Supervision  
Major Professor: Dr. John D. Haas  
Dissertation: The Development of Secondary Social Studies Content in the Public Schools of Utah from 1847-1967

### ROBERTSON, JAMES RICE

Kaysville, Utah  
MS: University of Utah, 1959  
Major: Secondary Education  
Major Professor: Dr. John D. Haas  
Dissertation: Teaching Styles, Teacher Attitudes, and the New Social Studies

### WHITE, CHARLES COLVEN

Logan, Utah  
ME: Utah State University, 1964  
Major: Secondary Education  
Major Professor: Dr. James P. Shaver  
Dissertation: The Use of Programmed Texts for Remedial Mathematics Instruction in College

### WOOTTON, RICHARD ROLAND

Washington, D.C.  
MS: Brigham Young University, 1961  
Major: Counseling Psychology  
Major Professor: Dr. E. Wayne Wright  
Thesis Director: Dr. John R. Cragun  
Dissertation: A Study of Adequacy and Cost of Secondary School Guidance Programs in Utah

## MASTER OF SCIENCE

### AHMED, NIAZ

Peshawar, Pakistan  
BS: East Pakistan University, 1962  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Realization of the Gyator by Means of Operational Amplifiers

### AKIN, MERVIN LEE

Marysville, California  
BS: Fresno State College, 1959  
Major: Social Science  
Major Professor: Dr. Douglas Alder  
Thesis: Plan B

### ALLEN, GEORGE EDWARD, JR.

Preston, Idaho  
BS: Utah State University, 1966  
Major: Psychology  
Major Professor: Dr. Glendon W. Casto  
Thesis: An Investigation of the Relationship Between the Bender-Gestalt, Draw-a-man, and WPPSI

## MASTER OF SCIENCE (Continued)

### ALLRED, DOUGLAS VANCE

St. George, Utah  
BS: Utah State University, 1956  
Major: Physical Education  
Major Professor: Professor H. B. Hunsaker  
Thesis: The Life and Contributions of Lee Hafen to Dixie College Athletics

### AL-SALAMI, AMIN ABDUL-JABBAR

Basrah, Iraq  
BS: Baghdad University, 1965  
Major: Bacteriology  
Major Professor: Dr. Rex S. Spendlove  
Thesis Director: Professor Gerald M. Baker  
Thesis: Culture of *Myzus persicae* Organs

### ANDERSON, GENAN TAYLOR

Hyde Park, Utah  
BS: Utah State University, 1969  
Major: Child Development  
Major Professor: Dr. Don C. Carter  
Thesis: The Pre-school Child's Awareness of Body Structure in Sexual Differences

### ANDOLI, FREDERICK PAUL

Rockaway, New Jersey  
BS: Upsala College, 1963  
Major: Zoology  
Major Professor: Dr. Keith L. Dixon  
Thesis: A Comparative Study of Molt Patterns in the Ord Kangaroo Rat and Western Harvest Mouse

### ANDREW, NEIL J.

Trenton, Utah  
BS: Utah State University, 1967  
Major: Recreation Administration  
Major Professor: Professor Nolan K. Burnett  
Thesis: An Evaluation of the Recreation Program at Hill Air Force Base, Utah

### BAILEY, BARTON F.

Blackfoot, Idaho  
BS: Utah State University, 1967  
Major: Agricultural Economics  
Major Professor: Dr. Darwin B. Nielsen  
Thesis: An Analysis of Forest Service Grazing Statistics and a Case Study of Public Grazing in Rich County, Utah

### BAKER, CALVIN O.

Chadron, Nebraska  
BS: Humboldt State College, 1964  
Major: Range Science  
Major Professor: Dr. George B. Coltharp  
Thesis: The Effects of Some Silvicultural and Soil Treatments on Aspen (*Populus Tremuloides*, Michx.) Reproduction in Northern Utah

### BALLIF, JAMES DOUGLAS

Preston, Idaho  
BS: Utah State University, 1965  
Major: Civil Engineering  
Major Professor: Dr. Calvin G. Clyde  
Thesis: A Conceptual Model of the San Pitch River Basin

### BARNES, DAUREL H.

Liberty, Utah  
BS: University of Utah  
Major: History  
Major Professor: Dr. Douglas Alder  
Thesis: Plan B

### BARNES, LYLE JOSEPH

Lehi, Utah  
BS: University of Utah, 1963  
Major: History  
Major Professor: Dr. S. George Ellsworth  
Thesis Director: Professor C. Blythe Ahlstrom  
Thesis: Ogden's Notorious "Two-Bit Street," 1870-1954

### BARON, REED CLARK

Ogden, Utah  
BS: Utah State University, 1963  
Major: Mechanical Engineering  
Major Professor: Dr. Owen K. Shupe  
Thesis: Digital Model Simulation of a Nuclear Pressurizer

### BARRY, GERALD C., JR.

Los Alamos, New Mexico  
BS: Sul Ross State College, 1963  
Major: Social Science  
Major Professor: Dr. Robert Mollan  
Thesis: Plan B

### BASOVSKY, RUDOLPH ANTHONY

North Chicago, Illinois  
BS: Adams State College, 1962  
Major: Physical Education  
Major Professor: Professor Arthur H. Mendini  
Thesis: Plan B

### BAYOUMI, MOHAMED ABBAS

Port Sudan, Egypt  
BS: Alexandria University, 1962  
Major: Range Science  
Major Professor: Dr. Arthur D. Smith  
Thesis: Utilization of Forage by Sheep on a Big-Game Winter Range

### BEDKE, RUBY COLLARD

Burley, Idaho  
BS: Utah State University, 1945  
Major: Business Education  
Major Professor: Professor Floris S. Olsen  
Thesis: The Development and Evaluation of a Unit of Programmed Instruction for the Purchase Journal in Bookkeeping

### BELL, MEREDITH CRAGUN

Ogden, Utah  
BS: Utah State University, 1965  
Major: Psychology  
Major Professor: Dr. Glendon W. Casto  
Thesis: Predicting Success in Shorthand I

### BENNION, DAVID K.

Vernal, Utah  
BS: Utah State University, 1968  
Major: Civil Engineering  
Major Professor: Dr. Winfred O. Carter  
Thesis: A Computer Based Algorithm for the Analysis of Three Dimensional Frames

### BERRETT, MELVIN VICTOR

Twin Falls, Idaho  
BS: Utah State University, 1968  
Major: Audiology-Speech Pathology  
Major Professor: Dr. Steven H. Viehweg  
Thesis Director: Dr. Samuel G. Fletcher  
Thesis: A Reliability and Validity Study of an Instrumental Analysis Designed to Measure Syllable Pulse Rate

## MASTER OF SCIENCE (Continued)

### BEUTLER, LOLITA RAE

Kemmerer, Wyoming  
BS: University of Wyoming, 1952  
Major: Clothing and Textiles  
Major Professor: Dr. Anne Kernaleguen  
Thesis Director: Professor Alta Crockett  
Thesis: A Study of Peer Acceptance as Related to Level of Security and Opinions About Clothing Among High School Students

### BOHL, BERNARD LOREN

Mandan, North Dakota  
BS: Dickinson State College, 1966  
Major: Mathematics  
Major Professor: Professor E. E. Underwood  
Thesis: Propositions Equivalent to the Continuum Hypothesis

### BOYCE, GLENNA COOPER

Logan, Utah  
BA: Brigham Young University, 1960  
Major: Family and Child Development  
Major Professor: Dr. Jay D. Schvaneveldt  
Thesis: The Effect of Nursery School Experience Upon Readiness of Children in Kindergarten

### BRENCHLEY, RALPH REED

Preston, Idaho  
BS: Utah State University, 1967  
Major: History  
Major Professor: Dr. Gary Huxford  
Thesis: Plan B

### BRESEE, DUANE D.

American Fork, Utah  
BS: Utah State University, 1968  
Major: Special Education  
Major Professor: Dr. Devoe Rickert  
Thesis: Retention and Reacquisition of Reading and Math of Educable Mentally Retarded Students Utilizing Programmed Materials and Contingency Management

### BRIGHT, CHARLES DEAN

Evanston, Wyoming  
BS: Utah State University, 1961  
Major: Special Education  
Major Professor: Professor Phyllis Publicover  
Thesis: The Relationship Between Successful Completion of the GED Test and Scores Obtained on the Index of Adjustment

### BROSSARD, EVAN STRATFORD

Salt Lake City, Utah  
BS: University of Utah, 1967  
Major: Mathematics  
Major Professor: Dr. John E. Kimber, Jr.  
Thesis: Plan B

### BROUGHTON, ROBERT VERNE

Montrose, Colorado  
BS: Utah State University, 1965  
Major: Speech  
Major Professor: Dr. Rex E. Robinson  
Thesis: Plan B

### CALLEY, JERRY LEE

Williams, Arizona  
BS: Utah State University, 1966  
Major: Agricultural Economics  
Major Professor: Dr. Rondo A. Christensen  
Thesis: The Consumption and Use of Dairy Products and Their Substitutes in Metropolitan Salt Lake City

### CALLISTER, LYNDON

Delta, Utah  
BS: Brigham Young University, 1967  
Major: Sociology  
Major Professor: Dr. William A. DeHart  
Thesis: Attitudes of Non-Mormon Church Leaders Toward Public Welfare and the Relationship of These Attitudes to Selected Factors

### CAMPBELL, DON L.

Ogden, Utah  
BS: Utah State University, 1950  
Major: Industrial Engineering  
Major Professor: Dr. William E. Mortimer  
Thesis: The Development of Standards for High School Industrial Arts and Trade and Industrial Auto Mechanics Programs

### CARLING, MARY D. RIGSBY

Kansas City, Missouri  
BS: Utah State University, 1966  
Major: Business Education  
Major Professor: Dr. T. W. Ivarie  
Thesis: Occupational Experience Qualifications of Vocational Business Education Teachers in Utah

### CARLSON, RICHARD R.

Ogden, Utah  
BS: Utah State University, 1964  
Major: Psychology  
Major Professor: Dr. Glendon W. Casto  
Thesis: The Relationship Between Activity Delay and Freshman Academic Achievement

### CARTER, LEE FORREST

Ogden, Utah  
BS: University of Nebraska, 1955  
Major: Mechanical Engineering  
Major Professor: Dr. Edward W. Vendell, Jr.  
Thesis: A Review of the C\* Guidance Method

### CARVER, ROYAL THAIR

Logan, Utah  
BS: Utah State University, 1953  
DVM: Washington State University, 1959  
Major: Bacteriology  
Major Professor: Dr. Paul B. Carter  
Thesis: An Epidemiological Survey of Avian Tuberculosis in Livestock, Poultry, and Wild Birds in Rich County, Utah

### CATES, REX GORDON

Missoula, Montana  
BS: Utah State University, 1965  
Major: Plant Taxonomy  
Major Professor: Professor Arthur H. Holmgren  
Thesis: Biosystematic Study of the Genus *Aconitum* (Ranunculaceae) in the Intermountain Region

## MASTER OF SCIENCE (Continued)

- CHANG, MEI-YANG**  
Liaoyang, Liaoning, Republic of China  
BS: Tunghai University, 1965  
Major: Sociology  
Major Professor: Dr. Yun Kim  
Thesis: The Effects of Changing Age Patterns of Marriage on Birth Rate in Taiwan
- CHANG, NING-MING**  
Taipei, Taiwan, Republic of China  
BS: Cheng-Kung University, 1966  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Plan B
- CHANG, PHILLIP JAU-MING**  
Youngmei, Taiwan, Republic of China  
BSAE: National Taiwan University, 1962  
Major: Mechanical Engineering  
Major Professor: Dr. Reynold K. Watkins  
Thesis: A Study of Plucking Machine and the Effect on the Growth and Quality of Tea Bush With Mechanical Plucking
- CHANG, TSING-YUAN**  
Hsin-Chu, Taiwan, China  
BS: Taiwan University, 1953  
Major: Civil Engineering  
Major Professor: Professor Joel E. Fletcher  
Thesis: Some Precipitation Characteristics for Utah
- CHATELAIN, LARAE B.**  
Fayette, Utah  
BS: Utah State University, 1946, 1967  
Major: Household Economics and Management  
Major Professor: Dr. Louise J. Peet  
Thesis: A Comparative Study of Certain Typical Foods Baked in the Electronic Oven, the Conventional Oven, and the Combination (Electronic and Conventional) Oven
- CHAUDHARI, RAMJIBHAI V.**  
Dindarol, India  
BS: Sardar Vallabhbhai Patel University, 1962  
Major: Food Science and Industries  
Major Professor: Dr. Gary H. Richardson  
Thesis Director: Dr. Fredrick J. Post  
Thesis: Role of Lamb Pregastric and Gastric Extracts in Cheese Manufacturing
- CHEN, CHIA-PIN**  
Taipei, Taiwan, Republic of China  
BS: Utah State University, 1967  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Plan B
- CHEN, CHIN-YUAN**  
Taipei, Taiwan, Republic of China  
BS: Taipei Institute of Technology, 1959  
Major: Electrical Engineering  
Major Professor: Dr. Bruce O. Watkins  
Thesis: Relay Protection for Power Systems
- CHEN, YUNG-KUANG**  
Tou Fen Miaoli, Taiwan, Republic of China  
BS: National Taiwan University, 1963  
Major: Civil Engineering  
Major Professor: Professor Vance T. Christiansen  
Thesis: Applications of Numerical Methods to the Solution of Plates
- CHILD, CLARK B.**  
Brigham City, Utah  
BS: Utah State University, 1969  
Major: Business Education  
Major Professor: Professor Theodore W. Ivarie, Jr.  
Thesis: A Follow-up Study of the Business Students Who Graduated From Intermountain School From 1966-68
- CHILDERS, WILLIAM WALTER**  
New Braunfels, Texas  
BS: Southwest Texas State, 1964  
Major: Social Science  
Major Professor: Dr. Douglas Alder  
Thesis: Plan B
- CLARK, FRANKIE B.**  
Fillmore, Utah  
BS: Utah State University, 1962  
Major: Physical Education  
Major Professor: Dr. Lincoln McClellan  
Thesis: Current Grading Practices in Physical Education at the University Level
- CLARKE, NEIL HARVEY**  
Eltham, New Zealand  
BS: Massey University of Manawatu, 1964  
Major: Food Science and Technology  
Major Professor: Dr. Carl A. Ernstrom  
Thesis: Extraction of Rennet from Fresh Frozen Vells
- COLLINS, JULIA WHITNEY**  
Brigham City, Utah  
BS: Utah State University, 1958  
Major: Special Education  
Major Professor: Dr. Devoe C. Rickert  
Thesis: The Use of Positive Reinforcement in Teaching Survival Words to the Intellectually Handicapped
- COOMES, JAMES ARTHUR, JR.**  
Olympia, Washington  
BS: St. Martin's College, 1963  
Major: Social Science  
Major Professor: Dr. Gary L. Huxford  
Thesis: Plan B
- COONS, LEWIS BENNION**  
Salt Lake City, Utah  
BS: Utah State University, 1964  
Major: Entomology  
Major Professor: Dr. B. Austin Haws  
Thesis: Investigations on Alfalfa Weevil Damage to Selected Alfalfas
- COX, DUANE MORLEY**  
Logan, Utah  
BS: Utah State University, 1962  
Major: Mechanical Engineering  
Major Professor: Dr. Russell M. Holdredge  
Thesis: Criteria Relating to the Design of Pintle Type Valves Operating at Elevated Temperatures
- CRANE, ARTHUR DON**  
Brigham City, Utah  
BS: University of Utah, 1950  
Major: Sociology  
Major Professor: Dr. R. Welling Roskelley  
Thesis: Communication Patterns and Other Variables Within the LDS Family Which Influence the Development of the Family Home Evening Program



## MASTER OF SCIENCE (Continued)

### CREER, JAMES MORRIS

Bancroft, Idaho  
BS: Utah State University, 1967  
Major: Mechanical Engineering  
Major Professor: Dr. Russell M. Holdredge  
Thesis: The Effects of Ultrasonic Vibrations on Heat Transfer from Cylinders in Liquid Nitrogen

### CUTLER, ELWYN DAVID

Dowagiac, Michigan  
BS: Michigan State University, 1960  
Major: Mathematics  
Major Professor: Dr. John E. Kimber, Jr.  
Thesis: A Concept of Buoyancy in Topological Spaces. With Applications to the Foundations of Real Variables

### DAS, GOPAL PRASAD

Madhapur, Keonjhar, Orissa, India  
BS: Orissa Veterinary College, 1961  
Major: Animal Science  
Major Professor: Dr. C. Elmer Clark  
Thesis: Influence of Ambient Temperature on Numerical Constituents of Blood and Histology of Certain Internal Organs in the Chickens

### DAVIS, CLINTON LAVEL

Logan, Utah  
BS: Utah State University, 1967  
Major: Geology  
Major Professor: Dr. Clyde T. Hardy  
Thesis: Structural Geology of Southeastern Margin of Bear River Range, Idaho

### DEGIORGIO, FRED

Ogden, Utah  
BS: Utah State University, 1967  
Major: Agricultural Economics  
Major Professor: Dr. Rondo A. Christensen  
Thesis: Comparisons and Effects of Assessing Agricultural Land According to Market Value Versus Agricultural Value for Taxing Purposes, Salt Lake County, Utah, 1967

### DESAI, THAKORBHAI C.

Palsana, India  
BS: M. S. University, Baroda, India, 1965  
Major: Civil Engineering  
Major Professor: Professor Vance T. Christiansen  
Thesis: Cable Roof Structures

### DIXON, RICHARD LESLIE

Mount Vernon, Washington  
BA: Western Washington State College, 1957  
Major: Social Science  
Major Professor: Professor Evan B. Murray  
Thesis: A Comparison of the Functions and Population Sizes of Central Places in Snohomish County, Washington and Cache County, Utah

### DORIUS, LARRY F.

Hailey, Idaho  
BS: Utah State University, 1965  
Major: Mechanical Engineering  
Major Professor: Dr. Owen K. Shupe  
Thesis: The Diffusion Rate of Carbon into Stainless Steel

### DOUGLAS, ELLA D. LEWIS

Shreveport, Louisiana  
BS: Grambling College, 1955  
Major: Social Science  
Major Professor: Dr. Douglas D. Alder  
Thesis: Plan B

### DOVER, R. JOSEPH

Portland, Connecticut  
BS: Upsala College, 1966  
Major: Geology  
Major Professor: Dr. Robert Q. Oaks  
Thesis: Palaeoecology of the Lowermost Carmel Formation, San Rafael Swell, Utah

### DRYSDALE, FRANK REIFF

Temple City, California  
BS: California State Polytechnic College, 1965  
Major: Botany  
Major Professor: Professor Arthur H. Holmgren  
Thesis: An Experimental Study of Variation Within and Between Populations of *Petrophytum Caespitosum* With Emphasis Upon Numerical Techniques

### DUNDAR, GUNGOR

Balikesir, Turkey  
BS: Istanbul Technical University, 1960  
Major: Mechanical Engineering  
Major Professor: Dr. Edward W. Vendell, Jr.  
Thesis: An Investigation of Lord Kelvin's Electrostatic Generator

### DWYER, WILLIAM PATRICK

Randolph, Nebraska  
BS: Utah State University, 1968  
Major: Fisheries Biology  
Major Professor: Dr. Robert H. Kramer  
Thesis: The Influence of Temperature on Scope for Activity of Cutthroat Trout, *Salmo clarki*

### EARL, THOMAS EUGENE

Saskatoon, Saskatchewan, Canada  
BS: Utah State University, 1962  
Major: Economics  
Major Professor: Dr. Reed R. Durtschi  
Thesis: Plan B

### ECKMAN, MELVIN FOSTER

Providence, Utah  
BS: Utah State University, 1961  
Major: Industrial and Technical Education  
Major Professor: Dr. Austin G. Loveless  
Thesis Director: Dr. Doran J. Baker  
Thesis: The Mechanical Design and Development of a Field Widened Interferometer

### EHLERT, LAWRENCE BRUCE

Magrath, Alberta, Canada  
BS: Utah State University, 1967  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Fabrication Techniques for Miniature Hybrid Circuits

### ELIASON, JAMES FRANCIS

Wrentham, Alberta, Canada  
BS: Utah State University, 1968  
Major: Geology  
Major Professor: Dr. J. Stewart Williams  
Thesis: The Hyrum and Beirdneau Formations of North-Central Utah and Southeastern Idaho

## MASTER OF SCIENCE (Continued)

### EMMONS, DAVID LYNN

Paonia, Colorado  
BS: Western State College, 1961  
Major: Social Science  
Major Professor: Dr. Gary Huxford  
Thesis: Plan B

### ENGSTROM, KERSTIN

Stockholm, Sweden  
BS: University of Lund, 1966  
Major: Audiology-Speech Pathology  
Major Professor: Dr. Jay R. Jensen  
Thesis: Operant Techniques Applied to Articulation Therapy

### EPLEY, GROVER EUGENE

Midland, Pennsylvania  
BS: Indiana University, 1965  
Major: Physical Education  
Major Professor: Professor Arthur Mendini  
Thesis: Plan B

### ERICKSON, ROY

Smithfield, Utah  
BS: Utah State University, 1963  
Major: Social Science  
Major Professor: Dr. Robert Mollan  
Thesis: Plan B

### FAYER, MARDELL LORENE

Rawlins, Wyoming  
BS: Utah State University, 1965  
Major: Sociology  
Major Professor: Dr. William DeHart  
Thesis: The Attitudes of Caseworkers and Supervisors Employed by County Welfare Departments in Box Elder, Cache, and Weber Counties Toward Public Assistance

### FERGUSON, KAY NELSON

Lynndyl, Utah  
BS: Utah State University, 1967  
Major: Physical Education  
Major Professor: Professor Pauline Fullmer  
Thesis: "Prisms of Color" Dance Concert

### FERGUSON, KENNETH ROBERT

Vancouver, British Columbia, Canada  
BS: Utah State University, 1967  
Major: Physical Education  
Major Professor: Dr. Dale O. Nelson  
Thesis: The Effect of Competitiveness on the Performance of Selected Gross Motor Tests of Athletic and Non-athletic Individuals

### FOLKS, F. NEIL

Ashland, Kansas  
BS: Fort Hays State, 1961  
Major: Wildlife Resources  
Major Professor: Dr. J. B. Low  
Thesis: Evaluation of Five Vegetative Sampling Techniques on Three Ecological Sites

### FOX, CRAIG WILLIS

Los Angeles, California  
BS: Utah State University, 1968  
Major: Food Science and Technology  
Major Professor: Dr. C. A. Ernstrom  
Thesis: Relationship of Calcium to Behavior of Caseinate at pH 4.6

### FRANZEN, ROBERT WILLIAM

Corning, New York  
BS: Cornell University, 1964  
Major: Wildlife Resources  
Major Professor: Dr. J. B. Low  
Thesis: The Abundance, Migration and Management of Mule Deer in Dinosaur National Monument

### FUHRIMAN, CLAUDIA JEAN

Salt Lake City, Utah  
BS: Utah State University, 1967  
Major: Family and Child Development  
Major Professor: Dr. Carroll Lambert  
Thesis: Language Development in Preschool Children

### GARLAND, WILLIAM EMERY, JR.

Danbury, Connecticut  
BS: University of New Hampshire, 1963  
Major: Social Science  
Major Professor: Professor Alice Smith  
Thesis Director: Professor Armand L. Mauss  
Thesis: "Adolescent Age, Socio-Economic Status, and the Deferred Gratification Syndrome"

### GARRETT, HENRY DEAN

Wellsville, Utah  
BS: Utah State University, 1967  
Major: Physical Education  
Major Professor: Professor Janice Pearce  
Thesis: A Comparison of the Drinking Behavior of Delinquent Youth Versus Non-Delinquent Youth in the States of Idaho and Utah

### GEERSTEN, DENNIS CALL

Salt Lake City, Utah  
BS: Utah State University, 1967  
Major: Sociology  
Major Professor: Dr. Wade H. Andrews  
Thesis: The Effects of the Psycho-Social Need for Security on Irrigation Farmers' Behavior and Cognition Related to Water Resources

### GIBBONS, LADAWN ANDERSON

Rupert, Idaho  
BS: Utah State University, 1966  
Major: Physical Education  
Major Professor: Dr. Dale O. Nelson  
Thesis: Teachers' Attitudes and Teachers' and Students' Knowledge of Alcohol and Alcoholism in Selected Utah High Schools

### GLASSER, STEPHEN PETER

Bellerose, New York  
BS: S.U.N.Y. College of Forestry at Syracuse, 1967  
Major: Forest Watershed Management  
Major Professor: Dr. George E. Hart  
Thesis: Analysis of Long Term Streamflow Patterns on Two Davis County Experimental Watersheds in Utah

### GOODE, DONN CALVERT

Smithfield, Utah  
BS: Utah State University, 1963  
Major: Industrial and Technical Education  
Major Professor: Dr. Austin G. Loveless  
Thesis Director: Professor Clair L. Wyatt  
Thesis: Industrial Design Study for an Airborne IR Mapper

## MASTER OF SCIENCE (Continued)

### GREAVES, DIANNE JENSEN

Preston, Idaho  
BS: University of Utah, 1965  
Major: Business Education  
Major Professor: Dr. Dona Frost  
Thesis: Plan B

### GRIFFIN, DON L.

West Weber, Utah  
BS: Utah State University, 1965  
Major: Electrical Engineering  
Major Professor: Dr. D. G. Chadwick  
Thesis: A Phase-Lock Tracking Filter for Use in the Recovery of Low-Level Telemetry Data From Noise

### GUNDERSEN, PAUL R.

Salt Lake City, Utah  
BS: University of Utah, 1961  
Major: Industrial and Technical Education  
Major Professor: Dr. Austin G. Loveless  
Thesis: Scheduling Standards for Instructors of Trade Technical Colleges

### HALES, DALE BRENT

Ogden, Utah  
BS: Utah State University, 1962  
Major: Plant Science  
Major Professor: Dr. J. Lamar Anderson  
Thesis: Plan B

### HAMID, AKHTAR

Lahore, Pakistan  
BS: Engineering University of Pakistan, 1965  
Major: Irrigation Engineering  
Major Professor: Professor Wayne S. Willis  
Thesis: Use of Jenab's Drainage Function in Evaluating the Design of a Drainage System

### HANCOCK, VALDON B.

Pocatello, Idaho  
BS: Utah State University, 1965  
Major: Range Management  
Major Professor: Dr. George B. Coltharp  
Thesis: Effects of Certain Soil Surface Treatments on the Soil Moisture Regime in the Cisco Basin, Utah

### HANSEN, JOHN A.

College Ward, Utah  
BS: Utah State University, 1963  
Major: History  
Major Professor: Dr. George Ellsworth  
Thesis: The History of College and Young Wards, Cache County, Utah

### HAQUE, FAZLUL

Dacca, Pakistan  
BS: Dacca University, 1959  
Major: Accounting  
Major Professor: Dr. Norman S. Canon  
Thesis: Plan B

### HARRIS, BOB LYNN

Malad, Idaho  
BS: Utah State University, 1967  
Major: Electrical Engineering  
Major Professor: Dr. Elliot Rich  
Thesis: Minimum Weight Hyperstatic Truss Design Using Gradient Projection Method

### HARRIS, DOYLE H.

Thatcher, Idaho  
BS: Utah State University, 1962  
Major: Applied Statistics  
Major Professor: Dr. Rex L. Hurst  
Thesis: Reliability and Maintainability Sampling Procedures for Life Cycle Cost Evaluation

### HAYCOCK, RICHARD CARL

Kanab, Utah  
BS: Utah State University, 1967  
Major: Political Science  
Major Professor: Professor Calvin W. Hiibner  
Thesis: Political Problems of Emerging Rural Subdivisions in Kane County, Utah

### HEAPS, HELEN

Smithfield, Utah  
BS: Utah State University, 1963  
Major: Psychology  
Major Professor: Dr. E. Wayne Wright  
Thesis: A Follow-up Study of Mound Fort Junior High's Ninth Grade Class of 1962-63

### HEUER, DON FRED

Idaho Falls, Idaho  
BS: Utah State University, 1967  
Major: Mechanical Engineering  
Major Professor: Dr. R. M. Holdredge  
Thesis: The Effect of Frequency on the Cryogenic Fatigue Strength of Metals

### HEUSSER, PORTER RAY

Deweyville, Utah  
BS: Utah State University, 1966  
Major: Manufacturing Engineering  
Major Professor: Professor G. Merrill Shaw  
Thesis: Feasibility Study of Expansion of Intermountain Store Equipment Company

### HICKEN, JOHN R.

Stirling, Alberta, Canada  
BA: University of Alberta, 1961  
Major: History  
Major Professor: Dr. Stanford Cazier  
Thesis: Events Leading to the Settlement of the Communities of Cardston, Magrath, Stirling, and Raymond, Alberta

### HICKS, CLAIR LLOYD

Springville, Utah  
BS: Utah State University, 1967  
Major: Food Science and Technology  
Major Professor: Dr. C. A. Ernstrom  
Thesis: Development of a Low-Fat Spread

### HIRSCHI, JACK J.

Phoenix, Arizona  
BS: Utah State University, 1966  
Major: Manufacturing Engineering  
Major Professor: Professor Rawson Child  
Thesis: Applications of the General Electric Computer Time-Sharing System to Manufacturing Engineering Education

### HOLDER, JAMES RICHARD

Lakewood, Colorado  
BS: Utah State University, 1967  
Major: Psychology  
Major Professor: Dr. Arden Frandsen  
Thesis: Spatial Reasoning as Related to Solving "Story Type" Problems

## MASTER OF SCIENCE (Continued)

- HOLDSWORTH, GRANT J.**  
Lehi, Utah  
BS: Brigham Young University, 1964  
Major: Industrial and Technical Education  
Major Professor: Dr. William E. Mortimer  
Thesis: Realistic Vocational Choice and its Relationship to Intelligence, Educational Aspiration, Attitude Toward School and Motivation Toward School
- HOLLIST, JOANNE**  
Teton, Idaho  
BS: Utah State University, 1961  
Major: Accounting  
Major Professor: Dr. Norman S. Cannon  
Thesis: The Theory of General Ledger Accounting for a Stockholder Owned, Legal Reserve Life Insurance Company
- HONE, KAREN KINGHORN**  
Rigby, Idaho  
BS: Utah State University, 1966  
Major: Clothing and Textiles  
Major Professor: Dr. Anne Kernaleguen  
Thesis Director: Dr. Ruth E. Hawthorne  
Thesis: Plan B
- HOSKINS, SHANNON REYNS**  
Ogden, Utah  
BS: Utah State University, 1962  
Major: History  
Major Professor: Dr. George Ellsworth  
Thesis: Galileo Galilei: Historical Interpretations 1900-1968
- HOWELLS, CHAD BURDETT**  
Orem, Utah  
BS: Brigham Young University, 1966  
Major: Family and Child Development  
Major Professor: Dr. C. Jay Skidmore  
Thesis: Family Life Education in the High Schools of Utah
- HSU, YUNG-HWA**  
Tainan, Taiwan, China  
BS: National Chenachi University, 1963  
Major: Accounting  
Major Professor: Dr. Joseph Merrill  
Thesis: Plan B
- HU, CHAO-WEN**  
Ho-Nan, China  
BS: Taiwan Provincial Taipei Institute of Technology, 1965  
Major: Mechanical Engineering  
Major Professor: Dr. Russell M. Holdredge  
Thesis: Plan B
- HUANG, CHUNG-HSI**  
Taipei, Taiwan, China  
BS: National Taiwan University, 1965  
Major: Mechanical Engineering  
Major Professor: Professor A. R. McKay  
Thesis: The Effect of Drag Retardants on Heat Transfer Rate for Dilute Polymeric Solution in Turbulent Tube Flow
- HUNG, ELDON JING-NAN**  
Taiwan, China  
BS: Cheng Kung University, 1965  
Major: Civil Engineering  
Major Professor: Professor Vance T. Christiansen  
Thesis: Plan B
- HUNSAKER, MERLE LEON**  
Brigham City, Utah  
BS: Utah State University, 1967  
Major: Physical Education  
Major Professor: Professor Richard Boyce  
Thesis: Tourist Recreation Interests and Desires in Bridgerland
- IRVINE, CHARLES ANTHONY**  
Buchanan, Michigan  
BS: Utah State University, 1966  
Major: Wildlife Resources  
Major Professor: Dr. J. B. Low  
Thesis: The Desert Bighorn Sheep of Southeastern Utah
- JACOBS, JESSE ELMER**  
Charleston, Mississippi  
BS: Tougaloo College, 1954  
Major: Physical Education  
Major Professor: Dr. Lincoln McClellan  
Thesis: Plan B
- JARRETT, ELAINE A.**  
Ogden, Utah  
BS: Weber State College, 1965  
Major: Business Education  
Major Professor: Dr. Ted D. Stoddard  
Thesis: An Experiment in Teaching Top-Row Proficiency on the Typewriter
- JEPPSEN, BRYCE HERMAN**  
Mantua, Utah  
BS: Utah State University, 1968  
Major: Manufacturing Engineering  
Major Professor: Dr. G. Merrill Shaw  
Thesis: Modernization Study of Intermountain Store Equipment Company
- JOHNSON, LARRY RAY**  
Baker, Oregon  
BS: Utah State University, 1967  
Major: Forest Science  
Major Professor: Dr. R. S. Whaley  
Thesis: The Status of Utah's Private Forest Land
- JOHNSON, MARLIN DEON**  
Providence, Utah  
BS: Utah State University, 1964  
Major: Industrial and Technical Education  
Major Professor: Dr. William E. Mortimer  
Thesis: A Descriptive Study Relating the Technologist Educational Patterns of Aeronautical Manufacturing-Development and Maintenance Operation
- JOHNSON, RONALD BENNION**  
Cornish, Utah  
BS: Utah State University, 1967  
Major: Sociology  
Major Professor: Dr. Yun Kim  
Thesis: Ideal Size of Family Among Unmarried Females in Northern Utah
- JOHNSON, THALES L.**  
Challis, Idaho  
BS: Utah State University, 1957  
Major: Physical Education  
Major Professor: Dr. Dale O. Nelson  
Thesis: Plan B



## MASTER OF SCIENCE (Continued)

### JOLLIFF, HERBERT H.

Arlington, Oregon  
BS: Eastern Oregon College, 1966  
Major: Applied Statistics  
Major Professor: Dr. Rex L. Hurst  
Thesis: Plan B

### JONES, KENNETH OSCAR

Salt Lake City, Utah  
BS: University of Utah, 1968  
Major: Audiology-Speech Pathology  
Major Professor: Dr. Richard D. Taylor  
Thesis: Some Considerations in the Development of an Auditory Discrimination Test: The Effect of Syntax, Semantics, and Transformational Sentence Type on the Intelligibility of Sentences

### JUCHAU, KAREN

Logan, Utah  
BS: Utah State University, 1965  
Major: History  
Major Professor: Dr. S. George Ellsworth  
Thesis: A History of the Utah Extension Service, 1888-1950

### KAISER, DONALD FREDERICK

Crystal Lake, Illinois  
BS: University of Illinois, 1967  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis Director: Dr. Alan Shaw  
Thesis: Investigation of the Spectral Characteristics of Light Emitting and Laser Diodes

### KANJANAVIVATANA, SOONTHORN

Bangkok, Thailand  
BS: Thammasat University, 1964  
Major: Accounting  
Major Professor: Dr. Norman Cannon  
Thesis: An Evaluation of Direct Costing for External Reporting

### KAO, MING-YIH

Taipei, Taiwan, China  
BS: Chung Hsing University, 1961  
Major: Applied Statistics  
Major Professor: Dr. David White  
Thesis: Bayesian Inference for Decision Making

### KAPP, JACK R.

Brigham City, Utah  
BS: Brigham Young University, 1958  
Major: Mechanical Engineering  
Major Professor: Dr. Alma P. Moser  
Thesis: Thermal-Mechanical Analysis of Composite Orthotropic Cylinders

### KEARL, LEONARD CHARLES

Logan, Utah  
BS: Utah State University, 1938  
Major: Animal Management  
Major Professor: Dr. Lorin E. Harris  
Thesis Director: Dr. John E. Butcher  
Thesis: Comparative Feedlot Response of Protein Level and Influence of Shelter on Finishing Cattle

### KEETCH, GORDON C.

Montpelier, Idaho  
BS: Utah State University, 1967  
Major: Animal Management  
Major Professor: Dr. John E. Butcher  
Thesis: Observation and Management of Beef Heifers from Calves to Three Years of Age for Efficient Productivity

### KEISEL, BOYD D.

Ephraim, Utah  
BS: Utah State University, 1961  
Major: Educational Administration  
Major Professor: Professor James A. Jacobson  
Thesis: The Role of the Principal: A Study of Expectations and Principal Perception of Expectations

### KEMP, JOHN C.

Logan, Utah  
BS: Utah State University, 1967  
Major: Electrical Engineering  
Major Professor: Dr. Doran J. Baker  
Thesis: Electronic Rapid-Scanning Spectrometer

### KHARBAS, SITARAM SHANKAR

Sirur, India  
BS: University of Poona  
Major: Food Science and Technology  
Major Professor: Dr. D. K. Salunkhe  
Thesis: Food and Nutritional Needs of the World Population by 2000 A.D.

### KIM, JUNG JA

Seoul, Korea  
BS: Ewha Womans University, 1966  
Major: Nutrition and Biochemistry  
Major Professor: Dr. Deloy G. Hendricks  
Thesis: Adaptive Changes of Some Enzyme Activities in Rats and Humans to Dietary Protein

### KIM, WHANG HEA

Seoul, Korea  
BS: Ewha Womans University, 1961  
Major: Food and Nutrition  
Major Professor: Dr. Deloy G. Hendricks  
Thesis: Adaptation to Dietary Protein of Nitrogenous Components in Blood and Urine

### KINRA, VIKRAM KUMAR

New Delhi, India  
BS: Indian Institute of Technology  
Major: Mechanical Engineering  
Major Professor: Dr. Edward W. Vendell  
Thesis: Boundary Corrections for a Coaxial Three-Coil Conductivity Velocity Plasma Probe

### KLIEFORTH, JOHN JAMES

Oskosh, Wisconsin  
BS: Utah State University, 1969  
Major: Business Education  
Major Professor: Professor Gary R. Smith  
Thesis: Suggested Course of Study for a Pre-employment Studies Program for a Small Rural School

### KNIGHTON, MAURICE DEAN

West Bountiful, Utah  
BS: Utah State University, 1967  
Major: Forest Recreation  
Major Professor: Dr. Ross S. Whaley  
Thesis: The Cumulative Effects of Rotated Use, Watering, Fertilizing and Seeding for Maintaining Vegetation Subjected to Simulated Recreational Use

## MASTER OF SCIENCE (Continued)

- KORPRAPUN, NAUNPEN**  
Bangkok, Thailand  
BS: Thammasat University, 1965  
Major: Political Science  
Major Professor: Professor Calvin W. Hiibner  
Thesis: The Communication Barriers in Public Organizations
- KUEHL, ROBERT JOHN**  
Neenah, Wisconsin  
BS: Wisconsin State University, 1963  
Major: Social Science  
Major Professor: Professor Alice L. Smith  
Thesis: Reforms and Characteristics of Electoral College Proposals; Peyotism and the Reintegration of the American Indian
- KWOK, YUNG-YUAN RICHARD**  
Taiwan, China  
BS: National Taiwan University, 1963  
Major: Bacteriology  
Major Professor: Dr. F. J. Post  
Thesis: Characterization of a Group of Bacteroids
- LARSEN, VIRGIL JACK**  
Preston, Idaho  
BS: Utah State University, 1964  
Major: Civil Engineering  
Major Professor: Dr. I. S. Dunn  
Thesis: Determination of an Equilibrium Void Ratio in the Consolidation of Clay Soils
- LARSON, ALVIN K.**  
Cedar City, Utah  
BS: Utah State University, 1961  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Active RC Bandpass Filters
- LATESTERE, GUY M.**  
Bordaux, France  
BS: Institut Supérieur d'Electromque du Nord, 1966  
Major: Electrical Engineering  
Major Professor: Dr. Alan W. Shaw  
Thesis: Systems for the Recognition of Handprinted Characters
- LEATHAM, DOUGLAS ALLEN**  
Idaho Falls, Idaho  
BS: Idaho State University, 1961  
Major: Physical Education  
Major Professor: Professor Art Mendini  
Thesis: Personalities of Selected Groups of Leaders
- LEE, JAMES CHING-NAN**  
Yun-Lin, Taiwan, China  
BS: National Taiwan University, 1963  
Major: Accounting  
Major Professor: Dr. Norman S. Cannon  
Thesis: A Critical Evaluation on Convertible Debt and Debt Issued with Stock Purchase Warrants
- LEE, LONG-FREH**  
Taipei, Taiwan, China  
BS: National Taiwan University, 1965  
Major: Mechanical Engineering  
Major Professor: Dr. E. W. Vendell  
Thesis: Plan B
- LEHNER, BARBARA BARRON**  
Salt Lake City, Utah  
BS: Utah State University, 1967  
Major: Audiology-Speech Pathology  
Thesis: Neonatal Auditory Sensitivity
- LI, CHUN**  
Taiwan, China  
BS: National Taiwan University, 1960  
Major: Civil Engineering  
Major Professor: Dr. Vance T. Christiansen  
Thesis: Plan B
- LIANG, CHIEN-HUNG**  
Taiwan, China  
BS: Taiwan Cheng Kung University, 1965  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Sensitivities of Three Types of Active Filter
- LIANG, KUO-CHEE**  
Fukien, China  
BS: National Chengchi University, 1963  
Major: Applied Statistics  
Major Professor: Dr. Rex L. Hurst  
Thesis: Numerical Approximation to the Inverse Function of the Cumulative Chi-square, t and F Distribution
- LIAO, SHU SHENG**  
Fon Yuan Town, Taiwan, China  
BS: National Taiwan University, 1965  
Major: Accounting  
Major Professor: Dr. Joseph S. Merrill  
Thesis: Plan B
- LIN, YUH-NAN**  
Tainan, Taiwan, China  
BS: National Taiwan University, 1962  
Major: Plant Nutrition and Biochemistry  
Major Professor: Dr. David R. Walker  
Thesis: Effect of Gibberlic Acid and Chilling on Nucleic Acids During Germination of Dormant Peach Seeds
- LIND, BRUCE ELVIN**  
Soda Springs, Idaho  
BS: Utah State University, 1967  
Major: Distributive Education  
Major Professor: Professor Gary R. Smith  
Thesis: A Survey to Determine the Potential Training Stations Available for Distributive Education Students in Logan, Utah
- LIU, ANNA MAN-SAW**  
Taipei, Taiwan, China  
BS: National Taiwan University, 1963  
Major: Food and Nutrition  
Major Professor: Professor Ruth E. Wheeler  
Thesis Director: Dr. Ethelwyn B. Wilcox  
Thesis: Analysis of Fruit Juices and Drinks of Ascorbic Acid Content
- LIU, I CHUNG**  
Taiwan, China  
BS: Chung Chang Institute of Technology, 1956  
Major: Manufacturing Engineering  
Major Professor: Professor Rawson D. Child  
Thesis: A New Trend in N/C by Computer
- LOTT, JANE AGAYA**  
Lehi, Utah  
BS: Utah State University, 1962  
Major: Household Economics and Management  
Major Professor: Professor Edith Nyman  
Thesis: Diversity in Perception of Alternatives as Related to Selected Aptitude and Background Factors

## MASTER OF SCIENCE (Continued)

### LOW, LEO THOMAS

Smithfield, Utah  
BS: Utah State University, 1962  
Major: Physical Education  
Major Professor: Dr. Dale O. Nelson  
Thesis: A Comparison of the Short Ski and Official American Ski Techniques

### LUCAS, PAUL A.

Reno, Nevada  
BS: Humboldt State College, 1967  
Major: Range Science  
Major Professor: Dr. Arthur D. Smith  
Thesis: The Effects of Cattle, Sheep and Other Factors on Aspen Reproduction

### LUNDBLAD, DEAN H.

Coeur d'Alene, Idaho  
BS: University of Idaho, 1962  
Major: History  
Major Professor: Dr. Gary Huxford  
Thesis: Plan B

### LUONG, YEEN FONG

Saigon, Viet Nam  
BS: National Taiwan University, 1966  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Calculation of Impurity Concentration Distribution in Diffused Transistors

### MAGEE, MARIAN BREMER

Evanston, Wyoming  
BS: Butler University, 1954  
Major: Physical Education  
Major Professor: Professor Lois Downs  
Thesis: Plan B

### MAHMOUDI, KOOROS MOHIT

Mashhad, Iran  
BS: Utah State University, 1968  
Major: Sociology  
Major Professor: Dr. Yun Kim  
Thesis: Historical Study of the Demographic Aspects of Urbanization in Utah 1900-1960

### MAJOR, BARBARA C.

Yuma, Arizona  
BS: University of Arizona, 1967  
Major: Home Economics Education  
Major Professor: Professor Virginia H. Harder  
Thesis: An Analysis of Science Prerequisite Course Work for Home Economics Education Majors

### MANSHIP, DARWIN W.

Boise, Idaho  
BA: Northwest Nazarene College, 1966  
Major: Business Education  
Major Professor: Professor Ted D. Stoddard  
Thesis: Job Entry Requirements for Typists, Stenographers and Secretaries in the Salt Lake City Area

### MARKHAM, PHILLIP DAVID

Tremonton, Utah  
BS: Utah State University, 1967  
Major: Bacteriology  
Major Professor: Dr. Rex S. Spendlove  
Thesis: Effect of Proteolytic Enzymes on Infectious Canine Hepatitis (ICHV) Infectivity and Structure

### MARKS, MARY SANDRA

Clovis, New Mexico  
BS: New Mexico State University, 1963  
MEd: Eastern New Mexico University, 1964  
Major: Clothing and Textiles  
Major Professor: Dr. Norma Compton  
Thesis Director: Dr. Ruth Hawthorne  
Thesis: Clothing Factors Related to Personality Adjustment of Adolescent Girls from Three Social Classes

### MASTERSON, TERRENCE MICHAEL

Ellinwood, Kansas  
BS: Kansas State College, Fort Hays, 1961  
Major: Social Studies  
Major Professor: Professor Alice C. Smith  
Thesis: Plan B

### MAUGHAN, MICHAEL LYNN

Logan, Utah  
BS: Utah State University, 1966  
Major: Psychology  
Major Professor: Dr. Heber Sharp  
Thesis: Student Achievement Effort as Related to Achievement and Self Concept

### MCBRIDE, JAMES NIELSEN

Tooele, Utah  
BS: Utah State University, 1964  
Major: Manufacturing Engineering  
Major Professor: Professor Rawson D. Child  
Thesis: The Magnitude of Burrs Caused by Electrical-Discharge Machining

### MCCAMMON, JAMES RUSSELL

Georgetown, Idaho  
BS: Utah State University, 1966  
Major: Bacteriology  
Major Professor: Dr. Rex S. Spendlove  
Thesis: Microtubule Stability in Reovirus Infected Cells

### MCKEE, M. LYNN

Tridell, Utah  
BS: Utah State University, 1968  
Major: Civil Engineering  
Major Professor: Professor J. Paul Riley  
Thesis: Design Principles for the Surveillance of Salinity in River Systems

### MCKIM, RONALD L.

Thayne, Wyoming  
BS: Utah State University, 1967  
Major: Political Science  
Major Professor: Professor Wendell B. Anderson  
Thesis: Collective Bargaining in Utah's Council-Manager Municipalities

### MEALS, PAMELA

Idaho Falls, Idaho  
BA: Utah State University, 1967  
Major: Family and Child Development  
Major Professor: Dr. Jay D. Schvaneveldt  
Thesis: Comparison of Attitudes of Mothers and Fathers Toward Nursery School Education

### MILLER, DOROTHY ANN

Whittier, California  
BS: Utah State University, 1967  
Major: Family and Child Development  
Major Professor: Dr. Jay D. Schvaneveldt  
Thesis: The Effect of an Extended Music Curriculum on the Behavior of Nursery School Children

## MASTER OF SCIENCE (Continued)

### MILLER, FRED KEITH

Logan, Utah  
BS: Utah State University, 1964  
Major: Applied Statistics  
Major Professor: Dr. Rex L. Hurst  
Thesis: Computer Programs for Incomplete Block Designs

### MILLER, RUSSELL DUANE

Idaho Falls, Idaho  
BS: Idaho State University, 1962  
Major: Social Science  
Major Professor: Dr. Douglas D. Alder  
Thesis: Plan B

### MITCHELL, GEORGE WALTON

Breckenridge, Texas  
BS: Texas Technical College  
Major: Range Nutrition  
Major Professor: Dr. Jack Hooper  
Thesis: Nutritive Value of Crested Wheatgrass, Intermediate Wheatgrass, and Russian Wildrye Grazed by Cattle on Utah Foothill Ranges

### MITCHELL, HELEN DAINES

Ogden, Utah  
BS: University of Utah, 1951  
Major: Psychology  
Major Professor: Dr. Glendon Casto  
Thesis: The Effects of an Introduction to Psychology Course on College Students' Superstitions and Beliefs Which Have Some Scientific Sanction

### MORREAU, LANNY EDUARD

Bloomington, Illinois  
BS: Illinois State University, 1961  
Major: Psychology  
Major Professor: Dr. Marvin F. Daley  
Thesis: The Effects of a Programmed Text of Contingency Management Techniques on the Ability of Teachers to Write Behavioral Prescriptions

### MORRILL, G. DOYLE

Kimberly, Idaho  
BS: Utah State University, 1967  
Major: Plant Pathology  
Major Professor: Dr. Orson S. Cannon  
Thesis: Overwintering of *Erwinia amylovora* Inside Living Host Tissue in Cache Valley, Utah

### MORRIS, RICHARD ALLAN

Cedar City, Utah  
BS: Utah State University, 1968  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Bipolar and Unipolar Transistors in Oscillator Circuits

### MORTENSON, ALLAN JEROME

Ripon, Wisconsin  
BS: Wisconsin State College, 1954  
Major: Social Science  
Major Professor: Dr. Douglas D. Alder  
Thesis: Plan B

### NARAHARI, BANGALORE SUNDARRAJ

Bangalore, India  
BS: S. V. V. University, 1964  
Major: Manufacturing Engineering  
Major Professor: Dr. Carl D. Spear  
Thesis: Plan B

### NELSON, BERNICE

Logan, Utah  
BS: Utah State University, 1964  
Major: Household Economics and Management  
Major Professor: Professor Edith Nyman  
Thesis: Consumer Credit Knowledge of a Selected Group of Personal Bankruptcy Petitioners in the State of Utah

### NYE, PAUL JOHNSON

Ogden, Utah  
BS: Utah State University, 1964  
Major: History  
Major Professor: Dr. S. George Ellsworth  
Thesis: Peddling in Northern Utah as Compared to the Continental United States

### O'HARROW, CLIFFORD GEORGE

Sandy, Oregon  
BS: State College of Iowa, 1950  
Major: Social Science  
Major Professor: Dr. Gary Huxford  
Thesis: Plan B

### PALMER, WILLIAM D., JR.

Preston, Idaho  
BS: Utah State University, 1967  
Major: Sociology  
Major Professor: Dr. Bruce Bylund  
Thesis: The Use of Multiple Classification Analysis in Identifying Characteristics Associated with Influential Persons

### PARIKH, ANIL NANDLAL

Mehmadabad, India  
BS: S. V. V. University, 1966  
Major: Manufacturing Engineering  
Major Professor: Dr. Carl Spear  
Thesis: Plan B

### PARKER, DOUGLAS L.

Ogden, Utah  
BS: Utah State University, 1965  
Major: Entomology  
Major Professor: Dr. D. W. Davis  
Thesis: Feeding Habits of *Corticteus substriatus* (Leconte)

### PARMAR, YASH PAUL SINGH

Panjab, India  
BS: Panjab Engineering College, 1961  
Major: Civil Engineering  
Major Professor: Dr. W. O. Carter  
Thesis: Elastic Stability of a Slender Bar

### PATEL, PRABHAKAR N.

Mehsana, India  
BS: Gujarat University, 1966  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Design of an Active RC Elliptic Function Filter

### PATEL, PRAHLAD H.

Unjha, Gujarat, India  
BS: Bansilal Amaritlal College of Agriculture, 1963  
Major: Food Science and Technology  
Major Professor: Dr. C. A. Ernstrom  
Thesis: Accounting for Milk Protein Equivalents by Dye Binding Analysis of Cheese and Whey



## MASTER OF SCIENCE (Continued)

### PEARSON, WINIFRED SMITH

Clearfield, Utah  
BS: Utah State University, 1959  
Major: Special Education  
Major Professor: Dr. David R. Stone  
Thesis: A Comparative Analysis of Phoneme Identification as it Relates to Phonics Procedures Utilized Through Primary Grades in Five Basal Series

### PEREZ, MARIO

LaPaz, Bolivia  
BS: San Simon, 1958  
Major: Agronomy  
Major Professor: Dr. DeVere McAllister  
Thesis: Plan B

### PERRETT, LUELL J

Mountain View, Alberta, Canada  
BS: Utah State University, 1967  
Major: Physical Education  
Major Professor: Dr. Dale O. Nelson  
Thesis: Knowledge of the Effects of Alcohol and Tobacco and Extent of Their Use by Utah State University Students

### PERRIN, CARL AUSTIN

Imboden, Arkansas  
BS: Arkansas State Teachers College, 1964  
Major: Physiology  
Major Professor: Dr. LeGrande Ellis  
Thesis: A Quantitative Study of the Pathways for Estrogen Biosynthesis in Normal and Transplanted Ovarian Tissue

### PETERSON, BRUCE R.

St. Charles, Idaho  
BS: Utah State University, 1967  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Design of a Pulse Height Discriminator with Associated Gating and Logic Circuitry

### PETERSON, GLENN CLARK

Ogden, Utah  
BS: Brigham Young University, 1957  
Major: Physical Education  
Major Professor: Dr. Lincoln McClellan  
Thesis: Specific Player Qualities Evaluated by College Football Coach in Recruiting New Players

### PETERSON, JERRY PHIL

Ogden, Utah  
BS: Utah State University, 1960  
Major: Special Education  
Major Professor: Professor Gordon E. Belnap  
Thesis: A Survey of Employment Opportunities in the Weber County Area for the Educable Mentally Retarded

### PETERSON, PAUL

Cedar Valley, Utah  
BS: Utah State University, 1962  
Major: Agricultural Education  
Major Professor: Professor Stanley S. Richardson  
Thesis: A Study to Determine the Need for a Technician Training Program in Ornamental Horticulture at the Post High School Level in Davis, Salt Lake, and Utah Counties with Curricular Suggestions

### PETERSON, STEVEN ROGER

Eau Claire, Wisconsin  
BS: Colorado State University, 1964  
Major: Wildlife Resources  
Major Professor: Dr. J. B. Low  
Thesis: Waterfowl Utilization of Uinta Mountain Water Areas

### PETTY, JOSEPH GARY

Salt Lake City, Utah  
BS: College of Southern Utah, 1967  
Major: Psychology  
Major Professor: Dr. E. Wayne Wright  
Thesis: Self-Concept Attitudes of Delinquents vs. Non-delinquents

### PINCOCK, BLAIR D.

Sugar City, Idaho  
BS: Utah State University, 1962  
Major: Industrial Education  
Major Professor: Dr. Austin G. Loveless  
Thesis: Effectiveness of the Text-Workbook Method as Compared to the Textbook Method in Teaching Basic Units in Mechanical Drawing

### PITKIN, JAY BROWN

Logan, Utah  
BS: Utah State University, 1967  
Major: Civil Engineering  
Major Professor: Dr. Norman B. Jones  
Thesis: Plan B

### PLUMMER, MICHAEL V.

Massillon, Ohio  
BS: Harding College, 1967  
Major: Zoology  
Major Professor: Dr. Keith Dixon  
Thesis: Plan B

### POSTON, HERBERT JAMES

Crescent Beach, British Columbia, Canada  
BS: University of British Columbia, 1964  
Major: Wildlife Resources  
Major Professor: Dr. J. B. Low  
Thesis: Home Range and Breeding Biology of the Shoveler (*Anas clypeata*) in the Alberta Grassland

### PROMPRIENGPHANDHU, CHOMPHOL

Bangkok, Thailand  
BS: Utah State University, 1968  
Major: Political Science  
Major Professor: Professor Wendell B. Anderson  
Thesis: Politics and Population Policy in Thailand and Japan: A Comparative Study

### PULLEY, STEPHEN RIGBY

Logan, Utah  
BS: Utah State University, 1968  
Major: Accounting  
Major Professor: Dr. Joseph Merrill  
Thesis: Plan B

### RANDALL, JAMES KAY

Logan, Utah  
BS: Utah State University, 1964  
Major: Speech  
Major Professor: Dr. Burrell F. Hansen  
Thesis: A Historical Study of Educational Broadcasting and Broadcast Training at Utah State University

## MASTER OF SCIENCE (Continued)

- RAVSTEN, MILTON OLE**  
Clarkston, Utah  
BS: Utah State University, 1967  
Major: Mechanical Engineering  
Major Professor: Dr. A. P. Moser  
Thesis: A Determination of Fracture Toughness Using Edge Notched Rectangular Specimens
- REYES, ROBERTO (TITO) FIDEL**  
Shawnee Mission, Kansas  
BS: Kansas State, 1968  
Major: Child Development  
Major Professor: Dr. Jay D. Schvaneveldt  
Thesis: Preschool Children's Perceptions of Dogs and Cats as Pets
- RICHARDS, MICHAEL RALPH**  
Logan, Utah  
BS: Utah State University, 1967  
Major: Audiology-Speech Pathology  
Major Professor: Dr. Samuel G. Fletcher  
Thesis: Experimental Shaping of the /r/ Consonant in Speech Therapy
- ROMRELL, GLYN KITTREDGE**  
Pocatello, Idaho  
BS: Utah State University, 1966  
Major: Electrical Engineering  
Major Professor: Dr. Glen H. Smerage  
Thesis: Plan B
- ROYER, LAWRENCE E.**  
Dallas Center, Iowa  
BS: Utah State University, 1965  
Major: Outdoor Recreation  
Major Professor: Dr. John D. Hunt  
Thesis: An Analysis of the Outdoor Recreation Resource and its Development in the Canyon Country of San Juan and Grand Counties, Utah
- SALAZAR, ROMAN SANDOVAL**  
Bisbee, Arizona  
BS: Northern Arizona University, 1967  
Major: Business Education  
Major Professor: Dr. Ted Stoddard  
Thesis: A Survey of the Present Status and Future of Business Youth Organizations in Utah High Schools
- SANTANA, BARRY WAYNE**  
Spokane, Washington  
BS: Gonzaga University, 1967  
Major: Civil Engineering  
Major Professor: Dr. Elliot Rich  
Thesis: Plan B
- SAUNDERS, ROBERT CLAIR**  
Logan, Utah  
BS: Utah State University, 1966  
Major: Entomology  
Major Professor: Dr. Ting H. Hsiao  
Thesis: Laboratory Studies on the Biology of *Amblymerus bruchophagi* (Gahan), A Parasite of the Alfalfa Seed Chalcid
- SCHOW, ADONNA WATKINS**  
Logan, Utah  
BS: Utah State University, 1967  
Major: Mechanical Engineering  
Major Professor: Dr. Alma P. Moser  
Thesis: Eigenvalues for Elastic Stress Solutions Around Cracks
- SEELEY, EARL J.**  
Huntington, Utah  
BS: Brigham Young University, 1967  
Major: Plant Science  
Major Professor: Dr. David R. Walker  
Thesis: Methods of Correcting Iron and Zinc Deficiencies in Peach Trees
- SEELEY, SCHUYLER DRANNAN**  
Huntington, Utah  
BS: Brigham Young University, 1964  
Major: Plant Science  
Major Professor: Dr. David R. Walker  
Thesis: Morphological Development in Relation to Cold Hardiness of Dormant Peach Fruit Buds
- SESNEY, JOHN W.**  
Lake Tahoe, Nevada  
BS: Western Michigan University, 1964  
Major: Psychology  
Major Professor: Dr. Arden Frandsen  
Thesis: A Comparison of Mednick's Remote Test and Pettigrew's Category-Width
- SHAFFER, GARY MORRIS**  
Millville, Utah  
BS: Utah State University, 1967  
Major: Sociology  
Major Professor: Dr. Yun Kim  
Thesis: Fertility and Family Planning Among Navajo Indian Recipients of Public Welfare Assistance in Southeastern Utah, 1968
- SHAH, BHARATKUMAR BHOGILAL**  
Ahmedabad, India  
BS: L. D. College of Engineering, 1964  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Plan B
- SHELLABARGER, LOREN HUGH, JR.**  
Roy, Utah  
BS: Weber State College, 1967  
Major: Political Science  
Major Professor: Dr. Robert B. Mollan  
Thesis: An Evaluation and Suggested Modification of the Northwestern International Simulation Game
- SHIH, CHUNG-CHIH**  
Taipei, Taiwan, China  
BS: National Taiwan University, 1964  
Major: Electrical Engineering  
Major Professor: Dr. Duane G. Chadwick  
Thesis: A Digital Counter Using Magnetic Flux Increments Requiring Minimum Power
- SHUH, HONG-MING**  
Taipei, Taiwan, China  
BS: Taipei Institute of Technology, 1958  
Major: Electrical Engineering  
Major Professor: Dr. Bruce O. Watkins  
Thesis: Plan B
- SHUKLA, VISHNUPRASAD MOHANLAL**  
Ahmedabad, India  
BS: L. D. College of Engineering, 1964  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Plan B

## MASTER OF SCIENCE (Continued)

### SINCLAIR, BARBARA STOLL

Crowheart, Wyoming  
BS: University of Wyoming, 1956  
Major: Political Science  
Major Professor: Professor Calvin Hiibner  
Thesis: A Case Study of the Sewer Bond Issue in Logan, Utah: 1957-1965

### SIU, WAI LIM

Taipei, China  
BS: National Chengchi University, 1962  
Major: Political Science  
Major Professor: Dr. Phillip S. Spoerry  
Thesis: A Study of the Population and Birth Control in Communist China

### SLADE, NORMAN ANDREW

Wichita, Kansas  
BS: Kansas State University, 1965  
Major: Wildlife Resources  
Major Professor: Dr. J. B. Low  
Thesis: Factors Affecting Mourning Dove Use of Water in Artificial Catchment Basins in a Dryland Farming Area of Utah

### SMITH, EMMA LOIS

Clearfield, Utah  
BS: Utah State University, 1964  
Major: Sociology  
Major Professor: Professor Evelyn Hodges Lewis  
Thesis: A Study of a Community in the Process of Withdrawing a Service

### SOONTRONPRAPAS, TRAIRAT

Bangkok, Thailand  
BS: International Relations Phammasat University, 1965  
Major: Political Science  
Major Professor: Dr. Phillip S. Spoerry  
Thesis: Aspects of Organizational Decision Making

### SPENCER, BETTY FARNSWORTH

Logan, Utah  
BS: Utah State University, 1958  
Major: Speech  
Major Professor: Professor Farrell Black  
Thesis Director: Dr. Eldon Drake  
Thesis: A Study of the Amount and Quality of Poetry Being Read to Students on the Primary Grade Level in Selected Utah School Districts

### SPENCER, LANA KAY

Idaho Falls, Idaho  
BS: Utah State University, 1967  
Major: Child Development  
Major Professor: Dr. Carroll Lambert  
Thesis: Contact Comfort Initiated by the Nursery School Child

### STANDER, JOHN RUSSELL

Blackfoot, Idaho  
BS: Utah State University, 1966  
Major: Plant Breeding  
Major Professor: Dr. Wade Dewey  
Thesis Director: Professor J. Clair Theurer  
Thesis: Inheritance and Linkage Studies of Some Mutant Characters in Sugarbeets, *Beta vulgaris* L.

### STOKER, DOUGLAS M.

Brigham City, Utah  
BS: Utah State University, 1957  
Major: Physical Education  
Major Professor: Dr. Dale O. Nelson  
Thesis: Student Understanding and Use of Tobacco in Box Elder Senior and Junior High

### SUCHDEV, JAGAN NATH

Sri Ganganagar, India  
BS: Indian Institute of Technology, 1962  
Major: Manufacturing Engineering  
Major Professor: Dr. G. Merrill Shaw  
Thesis: Plan B

### SUCHINDA, PAIROJ

Bangkok, Thailand  
BS: Ohio State University, 1965  
Major: Plant Science  
Major Professor: Dr. Lamar Andersen  
Thesis: Effect of Stage of Seeding Development on Absorption of Selected Pre-emergent Herbicides

### SUNTHORNSARATUL, CHARUNEE M.

Bangkok, Thailand  
BS: Thammasat University, 1967  
Major: Political Science  
Major Professor: Professor Wendell B. Anderson  
Thesis: Some Aspects of United States Policy Directed Toward the Containment of Communist China

### SUNTHORNSARATUL, YONT

Bangkok, Thailand  
BS: Thammasat University, 1964  
Major: Political Science  
Major Professor: Professor Calvin Hiibner  
Thesis: The Peace Corps Volunteers: Their Recruitment, Selection, and Training

### TALBERT, ROBERT DEYO

Onarga, Illinois  
BS: Southern Illinois University, 1965  
Major: Landscape Architecture and Environmental Planning  
Major Professor: Professor Malcolm Bishop  
Thesis: A Planning Analysis of Utah Lake to Determine its Recreational Potential

### TALBOT, ALDEN A.

Lewiston, Utah  
BS: Weber State College, 1967  
Major: Business Education  
Major Professor: Dr. Ted D. Stoddard  
Thesis: An Evaluation of Vocational Shorthand Competency Attained in Utah High Schools

### TAO, DER-BENN

Taipei, Taiwan, China  
BS: Taipei Institute of Technology, 1965  
Major: Mechanical Engineering  
Major Professor: Dr. E. W. Vendell, Jr.  
Thesis: Gas Dynamic Similarity Rules

### TAYLOR, GARY LLOYD

Hyde Park, Utah  
BS: Utah State University, 1967  
Major: Audiology-Speech Pathology  
Major Professor: Dr. Jay R. Jensen  
Thesis: Comparison of the Effects of Delayed Auditory Feedback With and Without Reinforcement on Adaptation During Speech of Stutterers

## MASTER OF SCIENCE (Continued)

### TAYLOR, GORDON MORRIS

Hyde Park, Utah  
BS: Utah State University, 1966  
Major: Speech  
Major Professor: Dr. Burrell F. Hansen  
Thesis Director: Dr. Rex E. Robinson  
Thesis: A Survey for the Planning and Utilization of the Television Medium in Teaching Selected Courses at Utah State University and Continuing Education Centers

### TAYLOR, RHENON

Loa, Utah  
BS: Utah State University, 1968  
Major: Business Education  
Major Professor: Dr. Dona F. Frost  
Thesis: Selected Psychological Principles of Learning as Related to the Teaching of Shorthand and Transcription According to the Current Literature

### THOMAS, RONALD JOSEPH

Santa Fe, New Mexico  
BS: New Mexico State University, 1966  
Major: Physics  
Major Professor: Dr. John Merrill  
Thesis: Plan B

### THOMSON, SHERMAN VANCE

Logan, Utah  
BS: Utah State University, 1967  
Major: Plant Pathology  
Major Professor: Dr. Orson Cannon  
Thesis: The Overwintering of the Fireblight Bacteria Outside of Living Tissue in Utah

### TORGENSEN, NEAL CHRISTIAN

Monroe, Utah  
BS: Utah State University, 1961  
Major: Social Science  
Major Professor: Dr. Gary Huxford  
Thesis: Plan B

### TRIVEDI, USHAKANT GOVINDLAL

Baroda, India  
BS: University of Baroda, 1964  
Major: Manufacturing Engineering  
Major Professor: Dr. G. Merrill Shaw  
Thesis: Electrical Discharge Machining

### TSO, I-FAN BECKY

Tunghai, China  
BS: Tunghai University, 1965  
Major: Family Relations  
Major Professor: Dr. C. Jay Skidmore  
Thesis: Domestic Marital Role Expectations: A Comparison of Single American and Chinese College Students

### TU, KUEN-CHUN

Taipei, Taiwan, China  
BS: Taiwan Provincial Cheng Kung University, 1965  
Major: Civil Engineering  
Major Professor: Dr. W. O. Carter  
Thesis: An Algorithm for the Analysis of Three-Dimensional Orthogonally Intersecting Truss Systems

### TURLEY, MAX WALTER

Moses Lake, Wisconsin  
BS: Utah State University, 1962  
Major: Agronomy  
Major Professor: Dr. Devere McAllister  
Thesis: Some Parent-Progeny Relationships of *Agropyron elongatum*

### TYCHSEN, HOLGER B. C.

Tooele, Utah  
BS: Utah State University, 1963  
Major: History  
Major Professor: Professor William Lye  
Thesis: History of Raymond, Alberta, Canada

### UGALAT, SHANKARAPPA BASAPPA

Mallapur, India  
BS: Karnatak University, 1965  
Major: Manufacturing Engineering  
Major Professor: Dr. Carl D. Spear  
Thesis: The Control of Quality for Incoming Boron Carbon Steel

### UHARRIET, RAYMOND

Los Angeles, California  
BS: Utah State University, 1966  
Major: Electrical Engineering  
Major Professor: Dr. A. W. Shaw  
Thesis: Read and Gunn-Effect Microwave Oscillators

### VADER, ELNORA STRAHAN

Escanaba, Michigan  
BA: Western Michigan University, 1939  
Major: Social Science  
Major Professor: Dr. Robert Mollan  
Thesis: Plan B

### VANDORSTON, PHILIP LONN

Goshen, Indiana  
BS: Utah State University, 1968  
Major: Geology  
Major Professor: Dr. Robert Q. Oaks, Jr.  
Thesis: Environmental Analysis of the Swan Peak Formation in the Bear River Range, North-Central Utah and Southeastern Idaho

### VAUGHAN, JEANINE H.

Logan, Utah  
BS: Utah State University, 1967  
Major: Special Education  
Major Professor: Dr. Devoe C. Rickert  
Thesis: Behavior Modification in a Junior High Mental Retardation Classroom

### VOORHIS, JOHN R.

Billings, Montana  
BS: University of Montana, 1964  
Major: Social Science  
Major Professor: Dr. Robert Mollan  
Thesis: Plan B

### VYAS, JAGDISHCHANDRA I.

Gujarat, India  
BS: H. L. College of Commerce, 1955  
Major: Political Science  
Major Professor: Dr. Phillip S. Sperry  
Thesis: The Role of Peoples Liberation Army in the Present Cultural Revolution

### WAITE, WENDEN WAYNE

Hyde Park, Utah  
BS: Utah State University, 1965  
Major: Psychology  
Major Professor: Dr. Heber C. Sharp  
Thesis: Retention of Conservation Acquired by Instructional Methods, Eight Months After Termination of Instructions



## MASTER OF SCIENCE (Continued)

### WANG, JOHN TA CHUANG

Nan-King, China  
BS: Utah State University, 1966  
Major: Food Science and Industries  
Major Professor: Dr. C. A. Ernstrom  
Thesis: Distribution and Survival of Rennin During Cheddar Cheese Manufacturing

### WARNER, MARK CLAYSON

Nephi, Utah  
BS: Utah State University, 1966  
Major: Fisheries Biology  
Major Professor: Dr. William F. Sigler  
Thesis: The Efficiency of Furazolidone on Fununculosis in Rainbow Trout (*salmo gairdneri*) at 17C

### WEAVER, DIANA ELIZABETH

Hanover, Pennsylvania  
BS: East Stroudsburg State College, 1957  
Major: Recreation Education  
Major Professor: Professor Nolan K. Burnett  
Thesis: Leisure Time Activities and Interests of Utah State University Students

### WEGENER, KATHLEEN OLSEN

Logan, Utah  
BS: Utah State University, 1964  
Major: Food and Nutrition  
Major Professor: Professor Ruth Wheeler Hayden  
Thesis: Comparative Cost and Quality Studies of Dehydrated Vegetables Versus Fresh Vegetables Used in Institutional Food Services

### WEI, CHI-YUAN

Taipei, Taiwan, China  
BS: Taiwan Christian College, 1963  
Major: Civil Engineering  
Major Professor: Professor Gaylord Skogerboe  
Thesis: Design Criteria for USU Stilling Basin Pipe Flow to Open Channels

### WEIN, ELEANOR ELIZABETH

Kitchener, Ontario, Canada  
BS: University of Guelph, 1967  
Major: Food and Nutrition  
Major Professor: Dr. Ethelwyn B. Wilcox  
Thesis: A Longitudinal Study, Part II: The Relationship of Various Physical Characteristics, Health Status and Diet Serum Cholesterol Levels in Young Adults

### WELLS, DEANE LOWE

Idaho Falls, Idaho  
BS: Utah State University, 1962  
Major: Audiology-Speech Pathology  
Major Professor: Dr. Jay R. Jensen  
Thesis: A Comparison of Certain Psycholinguistic Skills in Mentally Impaired and Normal Children

### WHITELAW, CHANDLER

Beryl, Utah  
BS: Utah State University, 1967  
Major: Electrical Engineering  
Major Professor: Dr. William L. Jones  
Thesis: Modification and Documentation of the IBM 360/44 Version of ECAP

### WILLIAMS, CLARENCE FRANK

Hunter, Utah  
BS: Utah State University, 1967  
Major: Horticulture  
Major Professor: Dr. Alvin R. Hamson  
Thesis: The Influence of Petroleum Mulch on the Germination and Yield of Tomatoes

### WILLIAMS, DONALD WESLEY

Montpelier, Idaho  
BS: University of Utah, 1962  
Major: History  
Major Professor: Professor C. Blythe Ahlstrom  
Thesis: Plan B

### WILLIAMS, ROBERT GUS

Teasdale, Utah  
BS: Utah State University, 1962  
Major: Agricultural Economics  
Major Professor: Dr. Darwin Nielsen  
Thesis: Determining Market Areas for Livestock Grazing

### WOLFER, ALTON CARL

Bismarck, North Dakota  
BS: North Dakota State University, 1964  
Major: Social Science  
Major Professor: Dr. Robert P. Mollan  
Thesis: Plan B

### WU, YUH-JAO

Taiwan, China  
BS: Taiwan Provincial Maritime College, 1965  
Major: Fishery Biology  
Major Professor: Dr. John M. Neuhold  
Thesis: Effects of Gamma Radiation on Routine Oxygen Uptake, Sodium Uptake, and Sodium Excretion in Irradiated Rainbow Trout

### YAKSIC, MIGUEL

Oruro, Bolivia  
BS: University Mayor de San Simon, 1966  
Major: Soil Science  
Major Professor: Dr. R. L. Smith  
Thesis: Some Aspects of Growing Grain in Montana

### YU, ROBERT PI-CHANG

Taipei, Taiwan, China  
BS: Taiwan Cheng-Kung University, 1964  
Major: Civil Engineering  
Major Professor: Dr. Calvin G. Clyde  
Thesis: Two-Dimensional Flow Resistance Over a Bed of Spherical Roughness Elements

### YU, YUNG HOON

Seoul, Korea  
BS: Seoul National University, 1966  
Major: Civil Engineering  
Major Professor: Dr. Winfred O. Carter  
Thesis: Moment-Curvature-Deflection Relationships of a Simply Supported, Inelastic Wide-Flange Beam-Column Subjected to End Moments

### ZENK, LENYCE ANN

Idaho Falls, Idaho  
BS: Westmar College, 1948  
Major: Business Education  
Major Professor: Dr. Ted Ivarie  
Thesis: A Survey to Determine the Possibilities for Expansion of the Cooperative Office Practice Program in the Business Offices of Idaho Falls, Idaho

### ZINS, SANDRA JEAN

New Ulm, Minnesota  
BS: College of St. Benedict, 1968  
Major: Marriage and Family Relations  
Major Professor: Dr. C. Jay Skidmore  
Thesis: The Effects of Maternal Employment on the Scholastic Performance of Children

## MASTER OF EDUCATION

- ALLEN, GRANT LAMAR  
Hyrum, Utah  
BS: Utah State University, 1968  
Major Professor: Professor Walter L. Saunders
- ANDERSON, RODNEY R.  
Gunnison, Utah  
BS: Utah State University, 1961  
Major Professor: Dr. Lorenzo Gail Johnson
- APPLEGATE, DON J.  
Circleville, Utah  
BS: College of Southern Utah, 1951  
Major Professor: Dr. Lorenzo Gail Johnson
- BARKER, HAZEL ADAMS  
Lovell, Wyoming  
BS: Utah State University, 1961  
Major Professor: Dr. Devoe C. Rickert
- BOHART, JANET BRAY  
Lander, Wyoming  
BS: Utah State University, 1965  
Major Professor: Professor Evelyn L. Wiggins
- BRIDGES, SHERWOOD ELGIN  
Montpelier, Idaho  
BS: Utah State University, 1959  
Major Professor: Dr. Walter L. Saunders
- CARIGAN, MARY ELIZABETH  
Liberty, Kentucky  
BA: University of Kentucky, 1951  
Major Professor: Dr. Malcolm Allred
- CARSON, MYRON NELSON  
Fayette, Ohio  
BS: Bowling Green State University, 1962  
Major Professor: Dr. Kenneth C. Farrer
- CARTER, RICHARD LYLE  
Ogden, Utah  
BS: Utah State University, 1956  
Major Professor: Dr. Basil C. Hansen
- CHIEN, LIAN-GNO ALICE  
Taichung, Taiwan, China  
BS: Taiwan Normal University, 1965  
Major Professor: Professor LaDell C. Hoth
- CHING, VICTOR M. L.  
Wahiawa, Hawaii  
BS: Utah State University, 1967  
Major Professor: Dr. Ross R. Allen
- CHRISTENSEN, KAREN BETH  
Logan, Utah  
BS: Utah State University, 1965  
Major Professor: Professor Lorenzo Gail Johnson
- CINFIO, RALPH M., JR.  
East Ely, Nevada  
BS: Utah State University, 1962  
Major Professor: Dr. Charles O. Ryan
- COOK, CALVIN M  
Archer, Idaho  
BS: Brigham Young University, 1963  
Major Professor: Professor Robert G. Hammond
- COOPER, MARY FLORENCE MARTINEAU  
Pocatello, Idaho  
BS: Brigham Young University, 1950  
BA: Idaho State University, 1965  
Major Professor: Dr. Malcolm Allred
- CROWELL, R. DAVID  
Tulsa, Oklahoma  
BS: University of Tulsa, 1956  
Major Professor: Dr. Charles O. Ryan
- DABLING, HELEN HOBSON  
South Ogden, Utah  
BS: Utah State University, 1959  
Major Professor: Professor Dorothy Jean Pugmire
- DAVIS, MELVIN JOSEPH  
Samaria, Idaho  
BS: Utah State University, 1950  
Major Professor: Dr. Charles O. Ryan
- EDMUNDS, CAROL J.  
Bassett, Nebraska  
BS: Wayne State College, 1961  
Major Professor: Dr. Morris Leon Mower
- FELT, HOWARD JOHN  
Idaho Falls, Idaho  
BS: Brigham Young University, 1961  
Major Professor: Dr. Malcolm Allred
- FOX, BOYD  
Ririe, Idaho  
BS: Utah State University, 1963  
Major Professor: Dr. John David Haas
- GEORGOUSSIS, PANAYIOTIS NICHOLOLOU  
Nafpactos, Greece  
BS: Teachers' College, Greece, 1954  
Major Professor: Professor Arthur D. Jackson
- GILLIES, PHIL MARLO  
Malad, Idaho  
BS: Utah State University, 1954  
Major Professor: Dr. Oral L. Ballam
- GLANDERS, ALBERT E.  
Fairfield, Idaho  
BS: Westminster College, 1956  
Major Professor: Professor James Albert Jacobsen
- GOLIGHTLY, MARVIN CHADWICK  
Preston, Idaho  
BS: Utah State University, 1962  
Major Professor: Professor Robert G. Hammond
- GROVE, EVELYN ELNORA  
Boise, Idaho  
BS: Bethel College, 1958  
Major Professor: Dr. Devoe C. Rickert
- HASLAM, MARTIN CLAIR  
Smithfield, Utah  
BS: Utah State University, 1959  
Major Professor: Dr. Bryce E. Adkins

## MASTER OF EDUCATION (Continued)

- HASLAM, LYNN  
Roosevelt, Utah  
BS: Brigham Young University, 1965  
Major Professor: Dr. Oral L. Ballam
- HESLOP, WELDON A.  
Ogden, Utah  
BS: Utah State University, 1964  
Major Professor: Dr. Eldon M. Drake
- HOMER, LOUISE  
Tremonton, Utah  
BS: Utah State University, 1947  
Major Professor: Dr. Lorenzo Gail Johnson
- HUMPHREY, KENNETH H.  
Kittanning, Pennsylvania  
BS: Indiana University of Pennsylvania, 1962  
Major Professor: Dr. Bryce E. Adkins
- HUNTER, LEON WILLIAM  
Taylor, Utah  
BS: Utah State University, 1960  
Major Professor: Dr. David R. Stone
- JACOBS, MARGUERITE VARNADO  
Charleston, Mississippi  
BS: Tougaloo College, 1954  
Major Professor: Dr. Ross R. Allen
- JENSEN, ROMA LYMAN  
Parowan, Utah  
BS: Utah State University, 1963  
Major Professor: Professor Evelyn L. Wiggins
- JOHNSON, BLAYLOCK  
Smithfield, Utah  
BS: Utah State University, 1966  
Major Professor: Dr. Devoe C. Rickert
- JOHNSON, REBA TEW  
Smithfield, Utah  
BS: Utah State University, 1966  
Major Professor: Professor Phyllis Publicover
- LARSEN, MARLIN SMITH  
Layton, Utah  
BS: Utah State University, 1951  
Major Professor: Dr. Homer M. Johnson
- LARSEN, MELVIN HOWARD  
Logan, Utah  
BS: Utah State University, 1966  
Major Professor: Dr. David R. Stone
- LUTHI, ROMA MARILYN  
Salt Lake City, Utah  
BS: Utah State University, 1958  
Major Professor: Professor Dorothy Jean Pugmire
- MAY, WAYNE B  
Brigham City, Utah  
BS: Utah State University, 1963  
Major Professor: Dr. John David Haas
- MCCURDY, CHARLES GARY  
Logan, Utah  
BS: Utah State University, 1964  
Major Professor: Dr. Lester C. Essig
- MORRELL, DAVID NICHOLS  
Brigham City, Utah  
BS: Brigham Young University, 1960  
Major Professor: Dr. Charles O. Ryan
- MOYLE, MAURICE S.  
Yerington, Nevada  
BA: University of Nevada, 1959  
Major Professor: Dr. Homer M. Johnson
- NIEMANN, DAVID ALAN  
Quincy, Illinois  
BS: Utah State University, 1966  
Major Professor: Professor Walter L. Saunders
- OFSHANNEY, ANDREW J.  
La Mesa, California  
BS: San Diego State College, 1960  
Major Professor: Dr. Kaye Don Owens
- OFSHANNEY, HATTIE S.  
La Mesa, California  
BS: San Diego State College, 1961  
Major Professor: Dr. Kaye Don Owens
- PERRY, NORMA SMITH  
Logan, Utah  
BS: Utah State University, 1965  
Major Professor: Dr. Devoe C. Rickert
- PHILLIPS, JAMES NOEL  
Paris, Tennessee  
BS: Austin Peay State University, 1966  
Major Professor: Dr. Homer M. Johnson
- PILKINGTON, W. FARRELL  
Smithfield, Utah  
BS: Utah State University, 1954  
Major Professor: Dr. Oral L. Ballam
- RIGBY, MARTHA H.  
American Fork, Utah  
BS: Utah State University, 1957  
Major Professor: Dr. Michael Bertoch
- RUSSELL, CLIFFORD DEWAYNE  
Ogden, Utah  
BS: University of Maryland, 1965  
Major Professor: Dr. Bryce E. Adkins
- SHUPE, JAMES WILBERT  
North Ogden, Utah  
BS: Utah State University, 1960  
Major Professor: Dr. Heber C. Sharp
- SHY, RALPH MERRILL  
Nyssa, Oregon  
BS: Utah State University, 1964  
Major Professor: Dr. Malcolm Allred
- SIMKINS, RONALD  
Circleville, Utah  
BS: College of Southern Utah, 1965  
Major Professor: Dr. Oral L. Ballam
- SINGLETON, SAMUEL MORRIS  
Ferron, Utah  
BS: Brigham Young University, 1952  
Major Professor: Dr. Homer M. Johnson

## MASTER OF EDUCATION (Continued)

SMEDLEY, CLYDE C.

East Ely, Nevada  
BS: Northern Montana College, 1965  
Major Professor: Dr. Terrance E. Hatch

SMITH, LELAND JAMES

Ogden, Utah  
BS: University of Utah, 1954  
Major Professor: Dr. David R. Stone

SMUSKIEWICZ, DENNIS LEONARD

Cicero, Illinois  
BS: St. Procopius College, 1966  
Major Professor: Dr. Ross R. Allen

STEPHENS, RONALD L.

Ogden, Utah  
BS: Utah State University, 1958  
Major Professor: Dr. Terrance E. Hatch

STIRLING, KATHERINE HARVEY

Fruit Heights, Kaysville, Utah  
BS: Utah State University, 1961  
Major Professor: Professor Evelyn L. Wiggins

TANIGUCHI, ROBERT IWAO

Price, Utah  
BS: University of Utah, 1967  
Major Professor: Dr. Ross R. Allen

WARR, MAT E.

Burley, Idaho  
BS: Utah State University, 1948  
Major Professor: Dr. Oral L. Ballam

WEBSTER, WILMA H.

Ada, Oklahoma  
BS: Utah State University, 1960  
Major Professor: Professor Arthur D. Jackson

WHITESIDES, PRESTON MARK

Layton, Utah  
BS: Weber State College, 1967  
Major Professor: Professor Robert G. Publicover

WILLIE, CAROL DAWN

Malad, Idaho  
BS: Utah State University, 1948  
Major Professor: Dr. Malcolm Allred

ZOHNER, BETH MADSEN

Idaho Falls, Idaho  
BS: Utah State University, 1964  
Major Professor: Dr. John David Haas

## MASTER OF FINE ARTS

BERGERA, CLIFFORD HREINSON

Helper, Utah  
BS: Utah State University, 1966  
Major: Drawing and Painting  
Major Professor: Professor Adrian Van Suchtelen  
Thesis: A Study of Man Through Symbolic Graphic Media

BISHOP, RONALD ADAMS

Pocatello, Idaho  
BS: Idaho State University, 1966  
Major: Art  
Major Professor: Professor Everett Thorpe  
Thesis: Woman—An Exploration

CLARK, RALPH TRACY

Smithfield, Utah  
BS: Utah State University, 1950  
Major: Photography  
Major Professor: Dr. Twain Tippetts  
Thesis: Studies in Photographic Portraiture

CURTIS, WALTER DONALD

Jal. New Mexico  
BS: New Mexico Highlands University, 1964  
Major: Ceramics  
Major Professor: Professor Larry Elsner  
Thesis: The Use of Oxides and Oxide-Grog as a Means of Obtaining Various Colors in Hi-Fire Clay Bodies

EBERSOLE, CHARLES WILLIAM

Bainbridge, Pennsylvania  
BS: Utah State University, 1967  
Major: Photography  
Major Professor: Professor Ralph T. Clark  
Thesis Director: Professor H. Reuben Reynolds  
Thesis: Canyonlands Country

FAIN, JAMES W.

Phoenix, Arizona  
BFA: Utah State University, 1967  
Major: Photography  
Major Professor: Professor Ralph T. Clark  
Thesis: Landscape Photography, A Photographic Analysis of the North Rim of Grand Canyon National Park

HARSTON, RUTH

Logan, Utah  
BFA: Utah State University, 1968  
Major: Art  
Major Professor: Professor Ralph T. Clark  
Thesis: Photographic Portraiture of Young Children

HILLS, ROBERT A.

Brigham City, Utah  
BS: Utah State University, 1967  
Major: Advertising Design  
Major Professor: Professor Jon Anderson  
Thesis: Advertising Design with Emphasis on Photography as a Means of Illustration

HONE E. LYNN

Ogden, Utah  
BS: Brigham Young University, 1963  
Major: Sculpture  
Major Professor: Professor Larry Elsner  
Thesis: Sculpture Created from Found Metal Components

JEPPESEN, M. KENT

Boise, Idaho  
BS: Brigham Young University, 1967  
Major: Ceramics  
Major Professor: Professor Gaell Lindstrom  
Thesis: Merging the Intuitive Process with the Ceramic Craft in the Fine Arts



## MASTER OF FINE ARTS (Continued)

### JOHNSON, INGRID JO-ANNE

Perth Amboy, New Jersey  
BS: Utah State University, 1967  
Major: Painting and Drawing  
Major Professor: Professor Everett Thorpe  
Thesis: The Archetypal Female Figure

### MORGAN, JOHN L.

Nephi, Utah  
BS: Utah State University, 1966  
Major: Art  
Major Professor: Professor Harrison Groutage  
Thesis: An Individual Expression of Our Transitional Environment

### MUNNS, LYNN R.

Garland, Utah  
BS: Utah State University, 1968  
Major: Ceramics  
Major Professor: Professor Larry E. Elsner  
Thesis: Wood Firing and Ash Glazes, Their Importance to the Studio Potter

### NAEGLE, STEPHEN HOWARD

Toquerville, Utah  
BS: Utah State University, 1968  
Major: Art  
Major Professor: Professor Gaell Lindstrom  
Thesis: Plant Forms and Weathered Houses in Watercolor

### SMITH, JUDITH MERILYN WORTHEN

Burley, Idaho  
BA: Utah State University, 1964  
Major: Fabric Design  
Major Professor: Professor Jessie Larson  
Thesis: Woven Room Divider in Open Tapestry Weave and Harmonizing Drapery Yardage

### TOBEY, CLINTON EUGENE

Dragerton, Utah  
BFA: Utah State University, 1967  
Major: Sculpture  
Major Professor: Professor Larry Elsner  
Thesis: Unfaithful Wings

### WEI, JU-CHANG

Taipei, Taiwan, China  
BS: Taiwan Normal University, 1965  
Major: Art  
Major Professor: Professor Jon Anderson  
Thesis: Advertising in Taiwan

### WESTERGARD, JAMES B.

Ogden, Utah  
BFA: Utah State University, 1968  
Major: Printmaking  
Major Professor: Professor Harrison T. Groutage  
Thesis: Blessed with Parents: A Personal Protest Through the Graphic Arts

### WILSON, SANDRA

North Ogden, Utah  
BFA: Utah State University, 1964  
Major: Fabric Design  
Major Professor: Professor Jessie Larson  
Thesis: A Woven Decorative Wall Fabric Creative Project Thesis

## MASTER OF ARTS

### BAILEY, ROBERT HAMILTON

Toccoa, Georgia  
BA: LaGrange College, 1963  
Major: History  
Major Professor: Dr. Gary Huxford  
Thesis: Plan B

### CATTANI, KARLA GEDDES

Banida, Idaho  
BS: Brigham Young University, 1957  
Major: English  
Major Professor: Dr. Hubert W. Smith  
Thesis: Plan B

### CAVALLI, DONALD OSCAR

Ogden, Utah  
BS: Utah State University, 1967  
Major: Political Science  
Major Professor: Professor Wendell Anderson  
Thesis: Analysis of a Prospective North Atlantic Free Trade Area

### CHARLTON, ROBERT E.

Ogden, Utah  
BA: Utah State University, 1968  
Major: Counseling Psychology  
Major Professor: Dr. Keith T. Checketts  
Thesis: A Comparison of Direct and Indirect Methods of Assessing Needs as Measured by the Edwards Personal Preference Schedule

### FOWLER, BARRY KAY

Ogden, Utah  
BA: Weber State College, 1964  
Major: Sociology  
Major Professor: Dr. R. Welling Roskelley  
Thesis: The Public Opinion of Persons in Weber County Toward the Forest Service and Selected Roles it Plays

### HAWKES, GENEVIEVE THOMAS

Preston, Idaho  
BA: Utah State University, 1966  
Major: English  
Major Professor: Dr. John Patrick  
Thesis: Women in the Life and Fiction of Daniel Defoe

### JONES, CAROLYN WALDRON

Arlington, Virginia  
BS: Utah State University, 1967  
Major: History  
Major Professor: Dr. George Ellsworth  
Thesis: Plan B

### MADSEN, LOUANN

Price, Utah  
BS: Utah State University, 1968  
Major: English  
Major Professor: Dr. Kenneth Hunsaker  
Thesis: Plan B

## MASTER OF ARTS (Continued)

### MAUGHAN, CAROLYN RAMPTON

Logan, Utah  
BA: Utah State University, 1964  
Major: English  
Major Professor: Professor Thomas Lyon  
Thesis: Responses to Nature in Four Western American Novels

### MECHAM, EDWARD M.

Brigham City, Utah  
BA: Utah State University, 1965  
Major: English  
Major Professor: Dr. Hubert Smith  
Thesis: Plan B

### MORTENSEN, RONALD SMITH

Tremonton, Utah  
BS: Utah State University, 1960  
Major: English  
Major Professor: Dr. Del Rae Christiansen  
Thesis: Plan B

### PAYNE, ALLAN DEAN

Logan, Utah  
BA: Utah State University, 1966  
Major: English  
Major Professor: Professor King Hendricks  
Thesis: Thomas Gray: A Study in Rational Expenditure for Irrational Aims

### PITTARD, HAROLD WAYNE

Cedar City, Utah  
BS: Utah State University, 1966  
Major: History  
Major Professor: Dr. Douglas Alder  
Thesis: The Political Interrelationships of Protestantism and Communism in the German Democratic Republic

## MASTER OF INDUSTRIAL EDUCATION

### BANGERTER, LELAND VICTOR

Roy, Utah  
BS: Utah State University, 1952  
Major: Industrial and Technical Education  
Major Professor: Dr. William E. Mortimer

### HOLLINGSWORTH, LAVERN GYLE

Preston, Idaho  
BS: Utah State University, 1964  
Major: Industrial and Technical Education  
Major Professor: Dr. Austin Loveless

### HOLMES, CARL MELVIN

Huntsville, Utah  
BS: Utah State University, 1961  
Major: Industrial and Technical Education  
Major Professor: Dr. Austin Loveless

### MAUGHAN, RALPH CLARK

Tooele, Utah  
BS: Utah State University, 1941  
Major: Industrial and Technical Education  
Major Professor: Dr. Neill C. Slack

### NEWELL, RULON KAY

Salt Lake City, Utah  
BS: Brigham Young University, 1957  
Major: Industrial and Technical Education  
Major Professor: Dr. Neill C. Slack

### REGIER, J. DOUGLAS

Logan, Utah  
BS: Sioux Falls College, 1966  
Major: English  
Major Professor: Dr. John M. Patrick  
Thesis: The Lament and Resignation of Randall Jarrell: A Critical Study of His Poetry

### ROBBINS, ELAINE STEVENS

Logan, Utah  
BS: Utah State University, 1962  
Major: English  
Major Professor: Dr. Hubert Smith  
Thesis: Cultural Transplantation in the Novels of Willa Cather

### SAFSTEN, ROBERT GARY

Bellingham, Washington  
BS: Brigham Young University, 1956  
Major: Social Science  
Major Professor: Dr. Gary Huxford  
Thesis: Plan B

### SHIPLEY, RICHARD LYLE

Preston, Idaho  
BS: Utah State University, 1968  
Major: History  
Major Professor: Dr. S. George Ellsworth  
Thesis: "Voices of Dissent" A History of the Reorganized Church of Jesus Christ of Latter Day Saints in Utah, 1863-1900

### WILBUR, AMELIA RUTH OKESON

Boise, Idaho  
BS: Utah State University, 1968  
Major: Speech Pathology  
Major Professor: Dr. Jay R. Jensen  
Thesis: Plan B

### PANICH, SRISOT

Bangkok, Thailand  
BS: Prasammit Educational College, 1964  
Major: Industrial and Technical Education  
Major Professor: Dr. Austin Loveless

### SIRIRAT, DECHA

Bangkok, Thailand  
BS: Prasammit Educational College, 1964  
Major: Industrial and Technical Education  
Major Professor: Dr. William E. Mortimer

### THOMSON, ANTHONY CLAIR

Salt Lake City, Utah  
BS: Utah State University, 1939  
Major: Industrial and Technical Education  
Major Professor: Dr. William E. Mortimer

### THONGOUN, SEG

Bangkok, Thailand  
BS: College of Education, Thailand, Bangkok, 1965  
Major: Industrial and Technical Education  
Major Professor: Dr. Neill C. Slack

## MASTER OF BUSINESS ADMINISTRATION

- ALLEN, DAVID BRUCE  
Logan, Utah  
BS: Utah State University, 1968  
Thesis: Business Reports
- ANDERSEN, CARLOS FRILDO  
Bear River City, Utah  
BS: Utah State University, 1967  
Thesis: Business Reports
- ANDERSON, LYNNE ALTON  
Rexburg, Idaho  
BA: Utah State University, 1965  
Major Professor: Dr. Elroy C. McDermott  
Thesis: Plan B
- CHUANG, HORN CHING  
Taipei, Taiwan, China  
BS: National Taiwan University, 1964  
Thesis: Business Reports
- CLARK, ROGER C.  
Smithfield, Utah  
BS: Utah State University, 1966  
Major Professor: Professor Howard M. Carlisle  
Thesis: Plan B
- DANSIE, BOYD WILLIAM  
Riverton, Utah  
BS: Utah State University, 1967  
Thesis: Business Reports
- DRYDEN, JOHN MICHAEL  
Upland, California  
BS: Utah State University, 1967  
Thesis: Business Reports
- GIVENS, STEVEN ROY  
Eagle, Idaho  
BS: University of Idaho, 1967  
Thesis: Business Reports
- GREAVES, MELVIN J., JR.  
Cleveland, Ohio  
BS: Ohio State University, 1963  
Thesis: Business Reports
- HOWELL, JAMES R., JR.  
Salt Lake City, Utah  
BS: University of Utah, 1966  
Major Professor: Dr. Elroy C. McDermott  
Thesis: Supermarket Bakery Service: A Study in  
Customer Attitudes
- JORDAN, BARRY DUANE  
Duchesne, Utah  
BS: Brigham Young University, 1967  
Thesis: Business Reports
- KUEHN, ROBERT CARL  
Dover, New Jersey  
BS: Utah State University, 1967  
Major Professor: Dean Robert Collier  
Thesis: Relative Character and Performance Differences Between Low-Priced, Middle-Priced, and High-Priced Common Stock Portfolios
- LAWRY, GORDON LANGFORD  
Providence, Utah  
BS: University of Oregon, 1939  
Major Professor: Professor Howard M. Carlisle  
Thesis: International Business Education—A Separate Discipline or an Extension of Traditional Courses
- MILLER, JOSEPH, JR.  
Peoria, Illinois  
BS: University of Illinois, 1959  
Thesis: Business Reports
- PEDERSON, DUARD SNOW  
Salt Lake City, Utah  
BA: University of Utah, 1968  
Thesis: Business Reports
- PETERSON, WAYNE SKEEN  
Roy, Utah  
BS: Utah State University, 1963  
Major Professor: Dr. Norman Cannon  
Thesis: A Comparative Analysis of the Advantages and Disadvantages of the Regular and Subchapter S Forms of Incorporation for Use in Small Businesses
- PLOWMAN, LOWELL BRENT  
Smithfield, Utah  
BS: Utah State University, 1967  
Thesis: Business Reports
- SENDEL, CARLOS  
Mexico City, Mexico  
BS: Brigham Young University, 1967  
Thesis: Business Reports
- SKIDMORE, WILLIAM W., JR.  
Logan, Utah  
BS: Utah State University, 1967  
Thesis: Business Reports
- THOMPSON, RALPH LARRY  
Rexburg, Idaho  
BS: Utah State University, 1967  
Thesis: Business Reports
- THORPE, A. LEAR  
Logan, Utah  
BS: Utah State University, 1967  
Major Professor: Professor Lawrence C. Taylor  
Thesis: An Analysis of Like Factors Associated with the Establishment of a Fertilizer Industry in Northeast Brazil
- TRESTER, KENNETH ROBERT  
Milwaukee, Wisconsin  
BS: Utah State University, 1967  
Thesis: Business Reports
- VOLB, TERRANCE RICHARD  
Calgary, Alberta, Canada  
BS: Utah State University, 1968  
Major Professor: Dr. Norman Cannon  
Thesis: A Study of the Reasons for the Salary Differential Between Professional Staff Members at the University of Utah and Utah State University
- WALLIS, KENT ROBERT  
Logan, Utah  
BS: Utah State University, 1969  
Major Professor: Professor Vernon M. Buehler  
Thesis: Technical Stock Market Analysis: A Charting Comparison of Growth Stocks Versus Cyclical Stocks
- ZAUGG, WILFRED LEE  
West Point, Utah  
BS: Brigham Young University, 1967  
Thesis: Business Reports

## MASTER OF FORESTRY

### SMITH, BERNARD ALLEN

Campbell, California  
BS: California State Polytechnic College, 1967  
Major: Forest Recreation  
Major Professor: Dr. Richard A. Ogle

### THOMSON, HUGH MCQUEEN, JR.

Salt Lake City, Utah  
BS: University of Utah, 1967  
Major: Outdoor Recreation  
Major Professor: Dean J. Whitney Floyd

## MASTER OF MUSIC

### BRENCHLEY, DOUGLAS CHARLES

Preston, Idaho  
BS: Utah State University, 1967  
Major: Music  
Major Professor: Dr. William Ramsey  
Recital

### MORRIS, STERLING JOHN

Roy, Utah  
BS: Utah State University, 1961  
Major: Music  
Major Professor: Dr. Max F. Dalby  
Recital

### FURCH, CLAYTON GENE

St. Paul, Minnesota  
BS: University of Minnesota, 1952  
Major: Music  
Major Professor: Dr. A. L. Dittmer  
Recital

### PETERSON, GERALD GRAHAM

Ogden, Utah  
BS: Utah State University, 1965  
Major: Music  
Major Professor: Dr. Max F. Dalby  
Recital

### GRIFFIN, DENNIS DONALD

Ogden, Utah  
BS: Utah State University, 1968  
Major: Music  
Major Professor: Dr. Max F. Dalby  
Recital

### WILLIAMS, MARILYN JEAN

Logan, Utah  
BA: Ottawa University, 1952  
Major: Music  
Major Professor: Professor Irving Wassermann  
Recital

Everyone is encouraged to accept the invitation of Utah State University to visit the annual Graduating Senior Art Exhibit now on display in the Art Gallery Lounge of the Chase Fine Arts Center. A warm welcome to view the annual Utah State University Art Faculty Exhibit now being shown in the University Gallery of the Library is also extended.

A registered nurse is available in the Fieldhouse. The University Health Services, Located in the basement of the Student Union, Room 1, will be open until 12:30 p.m. to handle any emergencies. Assistance may be obtained by calling the Health Services at 752-4100, extension 435, or Dean Claude Burtenshaw at 752-6891.





## ALMA MATER HYMN

Across the quad at eventide the shadows softly fall,  
The tower of Old Main appears and peace rests  
over all.

The lighted "A" upon the hill stands out against the  
blue;

Oh, Alma Mater, Utah State, my heart sings out to you.

And through the years as time rolls on and student  
friendships grow,

We'll ne'er forget the joys we had, those days we  
used to know,

Thy mem'ries ever will be new, thy friends be  
ever true.

Oh, Alma Mater, Utah State, my heart sings out  
to you.

Composed by Theodore M. Burton