

UNIVERSITY OF
COLORADO
at COLORADO SPRINGS

Commencement

May Twenty-Second
Nineteen Hundred and Ninety

**THE REGENTS
OF THE
UNIVERSITY OF COLORADO**

Chairman
Mr. Lynn J. Ellins
Longmont

Mrs. Kathleen S. Arnold
Littleton

Mr. Richard J. Bernick
Denver

Mr. Robert E. Caldwell
Colorado Springs

Mr. Peter C. Dietze
Boulder

Dr. Harvey W. Phelps
Pueblo

Mr. Norwood L. Robb
Littleton

Dr. Roy H. Shore
Greeley

Gen. David W. Winn
Colorado Springs

PROJECTIONS

To the Class of 1990:

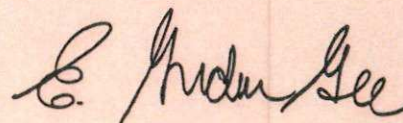
On behalf of the University of Colorado, I am pleased to extend congratulations upon your achievement. Your graduation is a special milestone in your life, and in the life of the University.

It is customary on these occasions to speak of the opportunities in your future. At this commencement, however, I prefer to dwell, however briefly, upon the University's educational task and the problems you will face in the coming decades.

The University is committed to missions in education, research, and public service. Of these, education is generally most visible through classroom teaching. Much more is involved in the pedagogical process, however. During the past several years, the University has endeavored to equip you with the knowledge and skills required to lead intelligent, productive lives in the coming decades. That is a basic component in our mission, but it is only the beginning. It is more important that you also have a sense of those societal and ethical values which have guided humankind in its noblest hours. Courage in the face of adversity, perseverance in times of difficulty, creativity under limits of constraint, these are some of the traits you must learn in confronting the problems and challenges of the future. They are functions of personality and experience, and cannot be taught in a classroom. You can, on the other hand, bring to these challenges the knowledge of human experience, and inherent in that experience is the accumulated wisdom of civilization. This is, and should be, your most influential source of learning. Once filtered through your own experience, consideration, and values, this knowledge may guide you in directing the future.

It is your obligation, of course, to consider all appropriate factors in any decision. I urge you to temper knowledge with compassion, to balance immediate gain with farseeing wisdom, and to promote at all times the common good, not self-interest. These are your true obligations to your society, your fellow-citizens, and the future.

The University of Colorado has, I trust, imparted to you an important quantity of knowledge and an appreciation of certain societal and ethical values. It is now your obligation to extend and develop your knowledge and values, and to direct these toward the common good, toward creating a better future. You will face unprecedented challenges requiring heroic efforts. Society's hopes rest with you.



E. Gordon Gee
President

ORDER OF EXERCISES

Leslie Manning, Commencement Marshal
(1989 UCCS Chancellor's Award Recipient)

Processional (audience will please remain seated)

Posting of the Colors

Invocation

America the Beautiful¹

Welcome

Address

Conferring of Honorary Degree
Leonard von Bibra Sutton

University of Colorado Medal
Fred and Nancy Thomas

University of Colorado Medal
Douglas R. Johnson

Legislative Award
James T. Rizzuto

Conferring of Baccalaureate Degrees
Recognition of Outstanding Graduates

College of Letters, Arts and Sciences
Natural Sciences
Social Sciences
Humanities

College of Business and Administration

College of Engineering and Applied Science

Conferring of Advanced Degrees

Initiation of Graduates into Alumni and
Friends Association

Charge to Graduates

Alma Mater²

Recessional (audience will please remain seated)

¹O beautiful for spacious skies,
For amber waves of grain,
For purple mountain majesties
Above the fruited plain!
America! America!
God shed His grace on thee
And crown thy good with brotherhood
From sea to shining sea!

²Hail, all Hail our Alma Mater!
Ever will our hearts be true
You will live with us forever
Loyal we will be to you.
We will sing forever your praises,
Ever more our love renew,
Pledge our whole devotion to you,
Dear Old C.U.!

UCCS ROTC Color Guard

Dr. Merrill J. Lessley

Dr. Paul Ballantyne

Chancellor Dwayne C. Nuzum

President E. Gordon Gee

Jaqueline L. Kiplinger
Dixie D. Vandeputte
Gloria R. Tuffield

Debra D.S. Offerson

Harlo A. Peterson

Kevin Olson

School of Education Dean Margaret Bacon

Dr. Paul Ballantyne

CANDIDATES FOR DEGREES
COLLEGE OF LETTERS, ARTS AND SCIENCES

James A. Null, Dean

THE DEGREES BACHELOR OF ARTS AND BACHELOR OF SCIENCE

- Elizabeth F. Aaron, Biology
Roxanne E. Adorno, Distributed Studies
Magna Cum Laude
Terence M. Aires, Communication
Robert E. Aldridge, Mathematics
Magna Cum Laude, with highest distinction
Adminda J. Allcock, Geography and Environmental Studies **
~~Jennifer L. Allison, Philosophy~~
Kirstin M. Anderson, Sociology
~~Sally Arnold, Biology~~
David B. Askew, Distributed Studies **
Theresa B. P. Askew, Distributed Studies
Jo Ann J. Atkinson, English
Magna Cum Laude
~~Daniel P. Avery, Political Science/History~~
Jimmy C. Avila, Psychology/Sociology **
Nathaniel J. Ayers, Distributed Studies
James W. Bailey, Sociology
with high distinction
Myla L. Baptiste, Distributed Studies
Keith L. V. Barber, Sociology
Tammy A. Bartel, Communication *
Denise L. Barton, Economics **
Michael R. Bauer, History
Sandra J. F. Baum, Communication
Curt R. Bayer, Biology
Patricia F. Beckstead, English
Melissa M. Beddingfield, Sociology
Christian D. Begley, Communication
Douglas L. Bennion, Psychology
~~Stephen A. Bergman, Sociology~~
Magna Cum Laude, with high distinction
Steven B. Bildstein, Physics and Energy Science (B.S.)*
with distinction
~~Betty J. Birchard, Communication~~
Evelyn P. Blakely, Sociology
Magna Cum Laude
John P. Blay, Political Science
Julia A. Blea, Communication **
Mary Ann Blitt, Spanish
Cum Laude, with distinction
Andrew A. Boucher, History
Randal W. Bowen, Fine Arts *
with distinction
Jennifer L. Brandner, Political Science
Michael A. Brass, Psychology **
Patricia L. Brock, Distributed Studies
Katrina M. Brohman, Philosophy/History
with high distinction in Philosophy
Roy A. Brown Jr., Spanish
Georgina S. Bryant, Communication *Cum Laude*
Patricia D. Bryant, Sociology
Christine L. Burkhardt, Communication
~~Marcia N. Calderaro, Psychology~~
Enrique Camacho-Cervantes, Political Science *
~~Christine C. Campbell, Communication~~
Janet L.P. Cardon, Political Science **
William D. Carr, Sociology **
Stephen G. Carroll, Jr., Political Science
Pamela A. Cherry, Geography and Environmental Studies
Haeh Choe, Biology
Song U. Chon, Sociology *
Heejoon Chung, Economics **
Stephen S. Church, Political Science
Karin A. Coleman, Psychology *with highest Dist*
Terry M. Conley, Psychology **
~~Nancy L. Coomer, Communication~~
Monica A. Cooper, Communication
Pamela J. Cooper, Communication **
Gregory, A. Coots, Biology **
Carrie E. Corcoran, Psychology
Stephanie A. Cordova, Spanish
Daniel C. Crawford, Biology
~~Brenda M. Creasy, Chemistry~~
Cum Laude
Lisa L. Currier, Psychology *with highest Dist*
- Theresa R. Daniels, Psychology
Kimberly S. Dark, Sociology **
Cum Laude
Scott L. Dayberry, Physics and Energy Science (B.S.)*
Magna Cum Laude, with high distinction
Jeffrey N. DeFelice, Communication **
Suzan L. DeGroff, Communication
Henrietta K. DeGrott, Political Science **
John A. Deignan IV, Distributed Studies **
Martin E. Depner, Physics and Energy Science (B.S.) **
Debbie D. Deterts-Kernan, Psychology
Paulette M. DiBenedetti, Political Science
Kenza Dillon, Political Science
Elizabeth M. Directo, Biology
Susan L. Dixon, Economics
~~Sharon L. Dotson, Psychology~~
Pauline A. Drobny, Geography and Environmental Studies
Magna Cum Laude
~~Cristy L. Dunlap, Psychology~~
Carol J. Eames, Communication
Corrine E.K. Eggers, Communication
Felicia M. Eggers, Political Science
Laura Ann Elgner, Sociology - *Cum Laude*
~~Henryetta E. Elze, Psychology~~
Kenneth M. Enright, Fine Arts **
Michele L. Erbeck-Comfort, Sociology
William L. Esch, Distributed Studies **
Cum Laude
David R. Escobar, Communication **
Katherine E. Essick, Sociology **
Jill D. Eye, Communication *
Amy Z. Fenlon, Mathematics
Karla D. Fischer, Distributed Studies **
Cum Laude
Ricky W. Fitzke, Economics
with high distinction
Silvia M. Folts, Communication **
Cum Laude
~~Andrew G. Foote, Mathematics~~
Jeffrey A. Ford, History **
Julie F. Forster, Psychology
Georgia M. Fortier, Distributed Studies
Cum Laude
Shellee L. Fortune, Psychology **
Clark M. Friedrichs, Geography and Environmental Studies *
Julie L. Gabel, Psychology
Thomas P. Gabriel, Economics
with distinction
Adriana M. Galvan, Economics
Ann M. Garcia, History
Leonard J. Gill, Distributed Studies
Cum Laude
Dalín D. Gilland, Psychology
Elizabeth I. Gillispie, Psychology *with highest Dist*
~~Elizabeth A. Girod, Communication~~
Diane S. Givens, Psychology
Edward T. Glaza, Communication
Magna Cum Laude
Stephen J. Gonczkowski, History
Suzanne D. Gregory, Psychology
Janet L. Gribben, Communication *
James G. Griffith, Economics **
Steven S. Griffith, Psychology *
Sharon J. Haffley, History
~~Jonathan K. Hage, Political Science~~
Michelle R. Haines, Psychology
Kathryn L. Hallahan, Communication/Spanish **
Magna Cum Laude
Tracy L. Harger, History **
Cum Laude
Carolyn V. Harmon, Sociology **
Valerie L. Harmon, Biology
Jeniell N. Harris, Fine Arts
Magna Cum Laude *with high Dist*
John L. Hatcher, Sociology
Leah A. Hauser, Fine Art **
Paula J. Havice, Psychology

Randall A. Hayes, Psychology **
Mallory S. Henning, Communication *
Brenda J. Heimbach, Psychology
Magna Cum Laude, with highest distinction
Susie J. Henry, Geography and Environmental Studies *
Cum Laude
Robbin L. Hensley, Communication
Sandra S. Hoag, Fine Arts
Edward L. Hocker, Geography and Environmental Studies **
Magna Cum Laude
Penelope Hogarth, Biology **
Magna Cum Laude
Patrick M. Hollinger, Economics
Annette M. Hritz, Psychology **
Magna Cum Laude
Holly A. V. Hudson, Psychology
Cum Laude
Robert C. Humphries, Distributed Studies **
Andrea L. Hurd, Psychology
Cum Laude
David N. Jackson, Mathematics *
Michael W. Jackson, English
Jeffrey S. James, History
Marilyn D. James, History
Rose M. Jodrey, Psychology
Kathleen K. Johnson, English/Communication
Cum Laude
Roy A. Johnson, Physics and Energy Science (B.S.)
Stacy J. Johnston, Psychology *
Nancy J. Keeton, Fine Arts **
Aimee J. Keith, Psychology
Summa Cum Laude
Cindy M. Kelly, Economics
Magna Cum Laude, with highest distinction
Mary E. Kelly, Political Science **
Cum Laude
Marla S. Kent, Geography and Environmental Science **
Katheryn E. Kilroy, Spanish
Mary K. Kimmel, English
Magna Cum Laude
Robert T. Kinzel, Communication
Jaqueline L. Kiplinger, Chemistry (B.S.)
Summa Cum Laude, with highest distinction
Arlene M. Kittel, Sociology
Summa Cum Laude, with highest distinction
William V. Klingbeil, Chemistry
Maria M. Knighten, Geography and Environmental Science **
Cum Laude
Deanna M. Knobbs, Psychology
Tommy D. Knott, Distributed Studies
Sharon A. Komyathy, History/Fine Arts
Magna Cum Laude
Kristen L. Kostner, Political Science
Linda S. Krager, Communication
Cum Laude
Shery R. Lamerson, Distributed Studies **
Cum Laude
Debra J. Lamke, Communication
Kathleen R. LaRoque, Communication
Kimberly L. Leeds, Mathematics **
Lori L. Lehman, Psychology
Brian M. LeMay, Communication
Timothy B. Lenehan, Biology
Charles A. Letner, Chemistry (B.S.)
Kathleen J. Lewis, English
Leslie A. Lindenberger, Communication/Psychology **
Cynthia D. London, Psychology
Kathleen A. Lopez, Political Science
Lisa C. Luse, Distributed Studies
Kathie A. Mac Donald, Psychology *
Magna Cum Laude
Dominic G. Madril, Biology
Catherine C. Markum, Fine Arts
Magna Cum Laude
Donnis A. Martin, Communication
Kelly C. Martin, Biology
Juanda Y. Mayberry, Political Science *
Molly A. Mayfield, Communication *
Douglas S. Mayne, Economics
Richard P. McClintock, Distributed Studies
Colleen M. McCormick, Communication
Kathleen S. McCoy, Communication
Lucinda G. McElderry, Communication
Elizabeth J. McGraw, Communication *
Carol J. McKenna, Psychology
Carl L. Medearis, History

Elizabeth I. Mendy de Carlton-Wippern, Psychology
Magna Cum Laude
Mary A. Meuret, Fine Art
Laura L. Midkiff, Sociology
with distinction
Beth A. Miller, Psychology
Joseph O. Miller, History
Michael D. Miller, Anthropology
Dennis C. Mills, History *
Mary L. Milvid, Psychology
Melissa D. Mitchell, Psychology *
Mary R. Mixon, Psychology
Marie J. Mooney, Biology
Anthony C. Moorman, Chemistry (B.S.)
Cum Laude
Jeff R. Mora, Biology
Cynthia L. Morton, Psychology **
Margaret A. Muller, Political Science **
Magna Cum Laude
Roy A. Myers, Biology
Cum Laude
Christine R. Neumann, Communication **
Christine M. Nevel, Political Science *
Walter Newell, Jr., Sociology *
Shannon Newson, English
Jean L. Nordberg, Psychology
Kathryn J. Oberle, Psychology *
Mary T. O'Connell, Political Science
Kevin W. O'Neil, Communication
Cum Laude
Michael J. O'Neil, Communication
James E. Osborne, Fine Arts
Shane P. Ousey, Communication
Barry J. Ousley, English
Cum Laude
Gretchen L. Painter, Communication
Lisa M. Palmer, Mathematics
Susan M. Panzer, English
Kimberly D. Parker, Communication
David P. Parrish, Communication
Christine D. Patterson, English/Geography and Environmental Studies
Cum Laude
John B. Pecoraro, History *
Cum Laude, with highest distinction
Shelbe L. Pederson, Communication **
Paul A. Petersen, Communication **
Cum Laude
Tracy L. Pezoldt, Fine Arts, **
Carla A. Phillips, Communication **
Veronica B. Pillsbury, Geography and Environmental Studies *
Michael R. Pipe, Psychology
John R. Piskoty, History
Michael S. Plonowski, Mathematics
Steven J. Polasek, Geography and Environmental Studies
Joan M. Pollard, Psychology *
Magna Cum Laude
Darlene F. Pullin, Communication **
Mark E. Qualls, History
Magna Cum Laude, with high distinction
Jerri C. Raitz, English **
Cum Laude
Victoria J. Ramirez, Psychology
Wayne W. Rasmussen, Geography and Environmental Studies *
Henry T. Rea, English **
Suzanne S. Reed, Psychology **
Lynn M. Reneau-Neilson, Communication
Paula L. Reorda, Psychology
Caroline L. Ricks, Political Science
Mitchell B. Riley, Communication **
Onorina V. Rinker, Fine Arts
Janice M. Roberts, English
Cum Laude, with highest distinction
Cheryl L. Robinson, Psychology **
Amy E. Routh, Political Science
Donna J. Rowe, Psychology
Monica L. Rundo, Psychology
Paula J. Russel, Communication *
Sandra L. Sanchez, Distributed Studies
Laura B. Schell, Communication
Ann C.R. Schmitt, Psychology
Cum Laude, with high distinction
Ann R. Schmitt, Biology
Penelope J. Schreiber, Psychology **
Debra J. Scruggs, Psychology
Cum Laude

magna

magna

with highest distinction

with highest dist

with highest dist

with highest dist in English

Amanda L. Randall, Psychology

with highest dist

Jeffrey B. Selig, Economics **
 Marsha E. Shaikhly, Anthropology/Fine Arts
 Todd S. Shogren, Geography and Environmental Studies
Cum Laude, with highest distinction
 Elaine M. Shupe, Mathematics
Magna Cum Laude, with highest distinction
 John H. Sideris, Psychology *w/ highest DIST.*
 Becky L. Skiles, Psychology **
 Maria E. Skonielznc, Biology
 Sean E. Slater, Sociology
 Deborah J. Sloan, Psychology **
 Patricia H. Sloan, English *w/ DIST.*
 Mark S. Slover, Political Science
 BettyJo Smith, Sociology
 Cindi L. Smith, Communication **
 David R. Smith III, Biology
Cum Laude, with highest distinction
 Erik J. Smith, Chemistry
 Frances A. C. Smith, History
 Kathryn H. Smith, Communication **
 Patricia A. Smith, Fine Arts
 Roger A. Smith, Chemistry, (B.S.)
 Leslie K. Sniff, English *w/ DIST.*
 Deborah R. Solomon, Psychology
 Diana M. Spahr, English *
 Renate A. Speer, Philosophy/Geography and Environmental Studies
Cum Laude, with highest distinction in Philosophy
 Wanda M. Stafford, Communication
 Max A. Stager, Psychology
Cum Laude
 Kristen R. Starr, Psychology **
 Karin B. Steadman, History
 Herman F. Stockinger III, Political Science
 Andrew J. Stover, Psychology
 Cynthia L. Swanson, Communication **
 Gregory W. Switzer, Physics and Energy Science (B.S.)
Magna Cum Laude, with highest distinction
 Heather K. Sykes, Anthropology *
 Eric H. Talbert, Economics
 Nancy J. Taylor, Philosophy
 Jennifer D. Thomas, Physics and Energy Science (B.S) **
Cum Laude with high distinction

Nancy L. Thomason, Sociology
 Bernadette T. Trask, English
Cum Laude
 Tory L. Traut, Mathematics
 Linda C. Tray, Communication
 Gloria R. Tuffield, English/Sociology **
Summa Cum Laude
 Roland D. Valdez, Sociology *
 Christopher J. Valin, History **
 Dixie D. Vandeputte, English/Psychology
Summa Cum Laude, with highest distinction in Psychology, w/ DIST in English
 LeAnne W. Vaughan, Psychology *
 James E. Vialpando, Political Science
 Jack E. Voets, Geography and Environmental Studies
 James W. Vorhies, History
 Donna R. Wagner, Political Science
 Diane C. Walker, Communication
Magna Cum Laude
 Loni J. Wallace, Fine Arts
Summa Cum Laude
 Mary P. Walsh, Fine Arts **
Cum Laude, with highest distinction
 Lisa J. Watkins, Distributed Studies **
Summa Cum Laude
 Ryan A. R. Webb, History
Cum Laude
 Mary E. Weidner, Political Science
Magna Cum Laude w/ highest DIST.
 Susan Wentworth, Sociology
Cum Laude, with distinction
 Moira A. White, English
 Catherine A. Whitney, History
 Mary J. Wiejaczka, English
 Sandra S. Wilkins, History
 Jodie L. Williams, Distributed Studies
Cum Laude
 Roberta L. Wilson, Sociology/Psychology
 Ellen R. Woodhouse, Biology
 Evan S. Wyman, Psychology
 Gary J. Zakjicek, Fine Arts
 Kevin C. Zehnder, Communication

COLLEGE OF BUSINESS AND ADMINISTRATION

James T. Rothe, Dean

THE DEGREE BACHELOR OF SCIENCE (BUSINESS)

Hassan S. Alame
 Penny L. Amaral **
Summa cum laude
 Douglas F. Arroyo **
 Kim Ashley **
 Teresa L. Barnhart **
 Theresa M. Barnes
 Gary V. Barr **
 John P. Barry
 Steven A. Beck
 Steven A. Beebe
 Deborah A. Black
 Michael W. Bowman *Cum Laude*
 Kimberly M. Brockway
 Denise A. Brown
 Scott E. Brzycki
 William P. Bunney
 Ronald A. Burns, Jr.
 Rebecca G. Burreight **
 Sheryl A. Calvert *
Cum laude
 Lain R. Chappell
 Cynthia A. Espinoza Chavez *
 Howard D. Cheshire
Magna Cum Laude
 Deborah A. Chlebus
 Wendy D. Colby **
 Eugene G. Contreras
 Karin A. Craft
Cum Laude
 Elizabeth M. Davis
 Ted T. Del Duca
 Louis E. Dennis, Jr. **
 Salena DiMatteo **
 Debra L. Drobney **
Cum laude

James P. Egan **
 Dana A. English **
 Danielle M. Ennenga
 Scott R. Erickson
 Raymond G. Everhart
 Douglas K. Fettig **
 James W. Finnell **
 Elizabeth A. Flanders **
 James A. Fletcher **
 Kristi L. Ford
 Scott T. Freeland
 Heath A. Fuehrer **
 Andrew D. Gates
 Cynthia G. Gearhart
 Mary E. Glynn **
 Marla L. Goettsche **
 Lorraine M. Gourde
Cum Laude
 Kirsten L. Gray
 Deborah J. Grey **
Cum Laude
 Nanette C. Grys *
 Ronnie W. Hairston **
 Carol L. Hansen
 G. Duane Hendrickson **
 Phillip J. Hildebrand **
 Richard J. Holzmer
 Barbara A. Horst **
 Maryanne Hostetler
 Edward J. Hughes
 James B. Humeston **
 Mary S. Hunsinger **
 Keith Jeffries
 Tanya M. Johnson
 Roy A. Jung

Christopher K. Kane **
 Michael J. Kearney **
 Sarjit K. Kellerman
 Joseph F. Klingensmith
 Michael L. Koenigsknecht **
 Carol J. Kulik **
 Connie J. Lane
 LeAnn G. Langeliers
 Karen A. Lavee
 Renee L. LeMoine **
 Lisa L. Lessig
 Trent A. Linville **
 Gail E. Lott
 Margaret R. M. Marsh
Cum Laude
 Anthony Marinucci *
 Leslie J. Martinez
 Michael K. May **
 Julia A. McCarthy
 Patricia A. McConnel
 Terry L. McDaniel
 Mark T. McElderry
 Donna M. McElroy
Magna Cum Laude
 Timothy J. McNamara *
 Carman L. Miller
 Elaine L. Miller
 Suzanne E. Miller
 Wayne O. Mills *Cum Laude*
 Robert J. Mone
 Wayne F. Monroe
 Steven L. Morris
 Mina E. Morse **
Cum laude
 Brian P. Murphy

Bich H. T. Nguyen
 Jennifer T. Nguyen **
 Suong T. H. Nguyen
 Steve M. Norman *
 Joline D. Nortum **
 Debra D. S. Offerson
Summa Cum Laude
 Tamra S. Oglesby
Cum Laude
 Ilse M. Owens **
 Robert L. Ownbey **
 Jyoti V. Patel **
 Susan K. Peverley **
 Michael T. Peyton
 Tammy L. Phillips **
 Barbara A. Porter
 Barbara L. Propp *
 Amber T. Ramey
 Wendy S. Rees
 Mary M. Reis **
Summa cum laude
 Randy L. Rowe **
 Karen C. Rubino
 Robert A. Sala **
 Michael J. Schenk
 Deborah L. Schwab **
Magna cum laude
 Jeffrey L. Schwartz
 Pamela C. Scott
 Herlinda C. Serna
 Ronald T. Shaffer **
 Theresa M. Simon **
Cum laude
 Judy M. Smith
Cum Laude
 Richard A. Smith

Sandra S. Smith **
 Melinda M. Snow **
Magna cum laude
 Josephine A. Spiridigliozzi *
 Richard N. Spreier **
 Cherilyn Lee Srajer *
 Philip D. Stafford **
 Kazuko Stern *
 Scott R. Straus
 Barbara J. Taylor **
 James S. Traynor **
 Kathleen M. Unverrich *
 Nancy J. Vail *
Cum laude
 Janet M. Valentine
 Sally A. Vargas
 Jacqueline A. Veri *
 Paula M. Vickerman
 Michael A. Waller
 Max A. Walz
 Jacqueline K. Watkins
Cum Laude
 Rodney P. Watkins
Summa Cum Laude
 Stephanie L. Weber *Laura R. Watt magna Cum Laude*
 Laura M. Wenker **
Magna cum laude
 Elinor I. West *
 Margaret P. Williams
 Pamela E. Williams
 Leah J. Wilson
 Michelle L. Wise
 Hilda J. Wolffi **
 Stuart A. Woods **
 John D. Wyckoff

COLLEGE OF ENGINEERING AND APPLIED SCIENCE

Pieter A. Frick, Dean

THE DEGREE BACHELOR OF SCIENCE

Ingrid I. Aligaen, Computer Science <i>with honors</i>	Linda L. Miner, Electrical Engineering **
Donna D. Bellows, Computer Science **	Mary L. Modic, Computer Science
Charles R. Brath, Electrical Engineering **	Thomas L. Morel, Computer Science **
Rhonda F. Burns, Applied Mathematics	Sozila D. Nagieswaran, Computer Science <i>with special honors</i>
Steven G. Cocroft, Computer Science	Monica A. Novack, Applied Mathematics **
Torry L. Ebell, Computer Science	Benjamin B. Nystuen, Computer Science **
Charles R. Edmundson Jr., Computer Science **	Thomas W. O'Steen, Computer Science **
Karen V. Espinoza, Computer Science **	Kevin E. Pawlik, Applied Mathematics and Electrical Engineering
Debra L. Evans-Kamp, Computer Science <i>with special honors</i>	Bryan J. Peachey, Electrical Engineering
Bradford E. Golson, Computer Science * <i>with special honors</i>	Evan S. Pedersen, Electrical Engineering **
Janet M. Greensweight, Computer Science <i>with honors</i>	Arnel I. Periquet, Computer Science <i>with honors</i>
Donald R. Henninger, Computer Science	Harlo A. Peterson, Computer Science <i>with special honors</i>
Daniel F. Hewett, Computer Science	Hung Q. Pham, Electrical Engineering **
Jennifer S. Hilty, Electrical Engineering	Curt D. Pigford, Electrical Engineering
Judith E. Hoch, Electrical Engineering **	Jeffrey M. Polk, Computer Science
Rodney F. Hofer, Electrical Engineering	Richard B. Rooks, Computer Science
Jane A. Houtsma, Applied Mathematics * <i>with special honors</i>	Mark N. Shaw, Electrical Engineering
Jeffrey H. Jewell, Electrical Engineering ** <i>with special honors</i>	Judith E. Smith, Electrical Engineering <i>with honors</i>
Mark A. Jones, Electrical Engineering <i>with honors</i>	Matthew T. Starr, Electrical Engineering
Wayne E. Kuntz, Electrical Engineering	Dale A. Strickland, Electrical Engineering
Kent C. Lawyer, Electrical Engineering	Mary C. Strohmeier, Applied Mathematics
Jennie C. Manson, Electrical Engineering **	Vernon L. Tague Jr., Computer Science
Paul W. McDermott, Electrical Engineering	Steven R. Tourville, Applied Mathematics **
Alison G. Milligan, Electrical Engineering	Henry M. Watkin, Computer Science <i>Roger W. Wild</i>
	Dale L. Yones, Electrical Engineering <i>with honors</i>

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

James T. Rothe, Dean

THE DEGREE MASTER OF BUSINESS ADMINISTRATION

Sam Ashman	Mildred B. Garrison **	Edward G. Martinez **	Debra A. Scheiwe
Daniel S. Baracz **	Milton E. Gigax Jr.	Harold E. Maxwell *	Barbara A. Schnathorst
John L. Barbato **	Bobbie M. Goldstein **	Sharon M. Meyer **	Debra K. Scott **
Mark A. Bertison *	Ellin J. Graham	Leon L. Mitchell	Frank R. Selders
Bradley S. Bickford	John S. Hackett	Joseph Monroe Jr.	Elaine A. Silver
David K. Bishop **	John C. Hamilton	Robert E. Morris	Randal L. Simpson
Richard D. Bruder **	Carol A. Hatmaker	Kimberle A. Mueller **	Carolyn J. Skarke
Janet S. Carlisle *	Julie S. Hogan **	Carol A. Norman **	James M. Stata **
Rodney A. Connell	Denise M. Hollywood **	Gerard S. Paul **	James Thomson **
Drue L. DeBerry	Sandra K. Holst **	Debra S. Paquin	Robert T. Thul
David G. Dietz **	Todd R. W. Horn	Gregory J. Quimby	David L. Tolle
Richard J. Duprey **	David L. Hudson	Ronald K. Quinn **	Tuan A. Tran **
Frances C. Durham	Barbara H. Ihde	Susan L. Rauscher	Emma S. Tritt *
Bruce L. Eskew **	Karen A. James	Jill Roberts	James L. Wentz
Robert D. Foley	Lawrence D. Jewell	Barbara J. Robinson	Nathan E. Winterfield
Claude Fortin **	Norman L. Karasa	Carol A. Rosenbaum	Renita P. Wolf
Robert J. Franson	Michael A. Ketterhagen **	Rex C. Rudy	
James R. Fries	Richard S. Loraine	James E. Scarlett **	
Thomas G. Gallogly	Sue M. Malone	Charles A. Schaefer	

GRADUATE SCHOOL OF PUBLIC AFFAIRS

Marshall Kaplan, Dean; Mark McConkie, Resident Dean

THE DEGREE MASTER OF PUBLIC ADMINISTRATION

Marvin R. Adams Sr.	Zeone J. DeMarrais	Gerald E. Paulus **	Margo Vaughan
Arvald R. Avery **	Linda J. Firth **	Charlotte L. Schuler	Edwin W. VonBorstel **
Laurel H. Bennett	Karen R. Grines *	Donald K. Seidel II	Michael G. Wallingford **
Wayne E. Blubaugh	Richard J. Karlsson	John N. Shults **	James H. Williams **
Barry J. Brinton **	Patricia A. Mather **	Bobby D. Throldah	Allen J. Wineland
Daniel L. Corsentino **	Bruce A. Mathis **	Jeanie D. Turse **	Charles J. Zeitvogel

T
Lande

GRADUATE SCHOOL

Merrill J. Lessley, Resident Dean

THE DEGREE OF MASTER OF ARTS

Jane D. Aldea, Education
 Connie G. Ashmun, Education *
 Cathy G. Bailey, Education **
 Wesley A. Baki, Education *
 Gerald L. Bartsch, Education
 Darlene E. Beaton, Education **
 Louise C. Beisler, Education *
 Marit A. Brandt, Education *
 Nancy J. Bressler, Education *
 Peter R. Brumlik, History
 Rebecca W. Cafasso, Education
 Carolyn J. Coatney, Education
 Deborah L. H. Cole, Education
 Elden E. Daniel, Education
 Janeen A. Demi-Smith, *sociology*
 Momilani C. Dufault, Education
~~Dorothy E. Dunlap, Education~~
 Kathleen S. Dutke, Education *
 Stephen M. Ferguson, Education *
 Teresa J. Garcia, Education *
 Carol A. Goeson, Education
 Daniel L. Gould, Education
 Judy A. Hall, Education *
 Michael R. Hannigan, Education **
 Susan K. S. Harmon, Education
 LaVonne C. Harris, Education

Dale R. Hart, Education *
 Patricia M. Hawkins, Education
 Floy A. Hay, Education
 Janet L. Henderson, Education *
 Deborah C. Hill, Education *
 Joseph L. Hodge, Education **
 Anita M. Hohisel, Education
 Patricia L. Holst, Education **
 Becky S. A. Houston, Education *
 Gail S. Iida, Education *
 Richard H. Jewett, Education
 Terence A. Johnson, Education
 Mary K. Jones, Education *
~~Judith S. Kay, Education~~
 Robert B. Kean, Sociology **
~~Carole A. Klinger, Education~~
 Stephen A. Krygier, Education *
 Deborah A. Kueck, Education *
 Nancy K. Law, Education
 Patricia A. Lee, Education **
 Karen H. Lepore, Education *
 Thomas D. Lepore, Education **
 Lana L. Lipich, Education *
 Leslie J. Lobban, Education **
 Glenn R. Logan, Education **
 Roxanne M. Logan, Education

Linda L. Loper, Education
 Stephen D. Lovelace, Education *
 Catherine A. Martin, Education **
 Sherry L.S. Maxwell, Education **
 Dennis P. McCloskey, Education *
 Kathleen M. McEneny, Education **
 Constance McMillan, Education *
 Lillian R. Mears, Education *
 Donna J. Melton, Education *
 Corrinne V. Minnard, Education **
 Joseph P. Moroski, Education
 Judith M.L. Morrill, Education *
 Anne L. Muehlbauer, Education **
 Jeanette F. Mutchler, Education *
 Susan S. Nosal, Education
 Kathleen D. Papachronis, Education
 Carol A. Pharris, Education
 Cheryl A. Pratt, Education **
 Janice A. Prendergast, Education *
 Judith E. Price, History **
 Beverly J. Raider, Education
 Barbara J. Rauer, Education *
 Martha L. Reid, Education *
 Sandra L.P. Risberg, Education *
 Virginia C. Roska, Education
 Katherine A. Salaz, Education

Sue A. Saylor, Education *
 Eric M. Schewe, Education **
 Ronda J. Schimpf, Education **
 Diane L. Sebastian, Education **
 Joan C. Sheffer, Education *
 Pamela K. Sicola, Education *
 Judith I. Sikes, Sociology
 Martha E. Slayden, Education *
 Cynthia S. Smith, Education **
 Mark J. Stahler, Education *
 Tara L. Strohm, Education
 Barry K. Thorpe, Education *
 Mary A. Tinsley, Education **
 Martha A. B. Tirk, Sociology
 Carmen K. Unruh, Education *
~~Richard E. Valdez, Education~~
 Kathy A. Van't Hull, Education **
 Merl A. Wallace, Education
 Anita L. Waller, Education *
~~Lynne A. Williams, Education~~
 Judith M. Williamson, Education *
 Janet E. Wineland, Education **
 Barbara A. Zeornes, Education

THE DEGREE MASTER OF BASIC SCIENCE

~~Anis M. Abutabikh~~
 Sheila M. Arrendondo*
 Gregory J. Bennett**

David A. Brown**
 Rosemary J. Dewey**
 Alta J. Dunst

~~Matthew W. Haile~~
 Steven P. Quigley
~~Karl H. Sietman~~

THE DEGREE MASTER OF SCIENCE

Leo Anderson, Electrical Engineering
 Craig M. Barnhart, Electrical Engineering **
 William D. Beteille, Computer Science **
 Curtis Bressler, Mathematics *Applied*
 Darin L. Buchanan, Computer Science **
 Thomas R. Bushman, Mathematics ** *Applied*
 Jerome J. Butler, Computer Science
 Charles D. Carlson, Mathematics ** *Applied*
 David E. Dauenhauer, Computer Science *
 Frank B. Dubach, Computer Science
 Robert S. Dunn, Electrical Engineering *
 Roberta Ewart, Electrical Engineering
 Armand A. Fannin Jr., Computer Science **
 Donnie Gray, Electrical Engineering
 Chris Herdt, Electrical Engineering
 Ryan N. Jensen, Electrical Engineering **
 Robert Karschnia, Electrical Engineering
 Charulata Kearney, Computer Science
 Cheryl L. Kimble, Computer Science
 Shannon T. Kingsley, Electrical Engineering *
 Raymond W. Kolbe, Computer Science **

Randall Musselman, Electrical Engineering
 Robert Oliver, Electrical Engineering
 D'Arlyn C. Oppeboen-Fromme, Electrical Engineering **
 Ronald Persson, Electrical Engineering
 Josef E. Pfauntsch, Computer Science **
 James F. Popelka, Electrical Engineering **
 Robert J. Power, Electrical Engineering **
 Carl D. Reintsema, Electrical Engineering **
 Kerry Rhea, Electrical Engineering
 Jamey Robbins, Electrical Engineering
 David Schlottman, Electrical Engineering
 Kevin L. Schultz, Electrical Engineering
 Ian Sheridan, Mathematics *Applied*
 Mark D. Smith, Electrical Engineering
 Cynthia L. Starr, Electrical Engineering **
 Timothy L. Trowbridge, Electrical Engineering **
 Kirstan A. Vandersluis, Computer Science **
 Gary D. Unger, Computer Science
 William E. Walsh, Computer Science **
 Carolyn M. Yeager, Computer Science *

THE DEGREE MASTER OF ARTS IN COMMUNICATION WITH C.U. AT DENVER

Marta B. Benson

THE DEGREE MASTER OF ARTS IN PSYCHOLOGY WITH C.U. AT BOULDER

Teresa L.S. Anderson *
 David C. DiRito **

Teresa J. Lange *
 Jennifer C.P. Nagode

Sandra L. Rooks
 Kathryn L. Swanson

Eugene E. Van Dusseldorp *

THE DEGREE MASTER OF ENGINEERING IN SPACE OPERATIONS WITH C.U. AT BOULDER

Maria E. Badessa
 Charles A. Danley **

Reynal R. Guillen
 Brenda J. Kallighan **

Richard W. Kile
 Richard R. Mayer, Jr. *

Peter J. Ouellette
 Dale B. Watts **

THE DEGREE DOCTOR OF PHILOSOPHY

Douglas E. Dunn, Electrical Engineering **
 "A Velocity—Space Model of Carrier Transport in Gallium Arsenide"

THE DEGREE DOCTOR OF PHILOSOPHY FROM CU AT BOULDER

Judith Ann Laux, Business Administration
 "Content Analysis and Corporate Bankruptcy"

* Graduated August 1989

** Graduated December 1989

The preceding lists of candidates for degrees and honors are not an official record that such candidates have been awarded such degrees or honors.

CANDIDATES FOR COMMISSION

Second Lieutenant, United States Army

Sean F. Ahrens
Kristilee Arndt
Edwin L. Bedford
Laurinda S. Burns

Ronald A. Burns Jr.
Christine J. Gutierrez
Jonathan K. Hage
Keith E. Igyarto

James B. Knight
Mark L. Lazarcheff
Steven C. Mekus
Steven L. Morris

Brian P. Murphy
Shane P. Ousey
William H. Rabe III
Eliezer Santana

Richard D. Smith
Michael J. Welch
Douglas M. Williams

HONORARY DEGREE

LEONARD VON BIBRA SUTTON

Leonard von Bibra Sutton, former Chief Justice of the Colorado Supreme Court, is a noted Colorado, national, and international judicial reformer; an advocate for global understanding and world peace; and a humanitarian.

He was a national leader of court reform who was very instrumental in bringing about revisions in the Colorado Court System including the re-creation of the Colorado Court of Appeals and the construction of a judicial building to house the Supreme Court and the Appeals Court. Later, as Chief Justice, his inspirational leadership resulted in moving the Colorado Supreme Court to first place in the nation in opinions written.

He has also extended his vision for the judiciary system well beyond Colorado. He was instrumental in establishing the American College of Trial Judges and created the first-ever Institute for Trial Judges in the U.S. When he became

concerned about the state of the judiciary in Central America, he traveled at his own expense throughout the region to examine first-hand ways in which the courts could be modernized.

While Judge Sutton has left a judiciary legacy throughout the hemisphere, he has also remained a loyal supporter of the University of Colorado Law School. The "Chief Justice Sutton Room" was conceived and beautifully furnished by him, and the time he has donated to sitting on the Moot Court has been valued by a generation of CU law students.

Therefore, in recognition of his dedication, commitment and untiring efforts to improve our system of justice and the advancement of peace through law, the Board of Regents is pleased to present Leonard von Bibra Sutton with the degree, of Doctor of Laws, Honoris Causa.

1990 LEGISLATIVE AWARD

JAMES T. RIZZUTO

State Senator James T. Rizzuto is currently serving his second term in the Colorado State Senate. During his tenure as a senator, Jim Rizzuto has worked vigorously on behalf of higher education and the University of Colorado.

He is a member of the Joint Budget, Appropriations and Education committees, and has been an influential member of the Advisory Committee Commission on Higher Education. He has long been an advocate of higher education and has played a key role in securing a significant increase in general fund support for higher education over the past three years. In addition, he has worked tirelessly to keep his District 2 Electorate aware of the importance of education in Colorado.

Senator Rizzuto has cultivated a well-earned reputation for fairness and a willingness to listen to his constituents. He is an effective negotiator and arbitrator whose skills in analyzing issues and fostering fair debate contribute greatly to the legislative process.

The University of Colorado and its Colorado Springs campus have benefited from Senator Rizzuto's commitment to sound and equitable decision making, clarity in direction, and his ability to set forth alternatives on behalf of his constituents and all the citizens of Colorado.

It is appropriate, therefore, that Senator James T. Rizzuto be the recipient of the University of Colorado at Colorado Springs Legislative Recognition Award for 1990.

UNIVERSITY OF COLORADO MEDAL

FRED AND NANCY THOMAS

Fred and Nancy Thomas, both graduates of the University of Colorado, have helped organize and fund a far-reaching link from the University of Colorado to the Western Slope.

As residents of Cortez, the Thomases helped establish the CU-Cortez partnership. They donated a building in Cortez to house a physical presence of the University in the form of a museum, lecture hall, and meeting place for prospective CU students.

Since 1988, more than 4,000 people have visited the museum, and the weekly lectures have drawn CU alumni and residents of the Southwestern Colorado city together to work toward economic development and cultural enrichment.

The center also is a distribution point for information about the role of CU as the University continues in its mission to broaden its commitment to serve rural Colorado. The efforts of the Thomases have resulted in increasing CU's activity and contributions to Southwestern Colorado.

Fred and Nancy Thomases' initial concept for bringing the resources of the University of Colorado to their city has evolved into a strong university-community partnership, resulting in a wide array of educational and enrichment opportunities for the residents of Montezuma Valley.

In recognition of their generosity and commitment, and for embodying the highest values of University of Colorado graduates, the Board of Regents is pleased to present the University of Colorado Medal to Fred and Nancy Thomas.

UNIVERSITY OF COLORADO MEDAL

DOUGLAS R. JOHNSON

Douglas R. Johnson is a highly accomplished and greatly admired administrator at the University of Colorado at Colorado Springs who, for 20 years, has dedicated himself to this University and its students.

As director of the Office of Admissions and Records, Doug Johnson helped usher in a new age of student registration as chair of the University of Colorado's systemwide Student Information System. Through SIS, the University developed modules for admissions, courses, records, registration, telephone registration, transfer credit, scheduling, student billing, and financial aid. This large, complex system will serve the students and faculty of the University into the 21st century.

Mr. Johnson has also worked to inspire a greater sense of community and compassion on the Colorado Springs campus. For the past five years, he has served as co-chair of

the campus United Way campaign, providing innovative leadership that resulted in a 400 percent increase in campus contributions. In 1989, in recognition of his long-term service to the University, he was awarded the President's University Service Award.

Now, as he prepares to retire, he is leaving a special legacy to this campus through the creation of an endowed fund to support lectures, symposia, and workshops to bring to the campus and the community people whose lives, work and philosophy have made a difference in how we see ourselves and function as a humane society.

In recognition of his outstanding achievements as a campus and community leader, and for his dedication to the students of this University, the Board of Regents is pleased to present the University of Colorado Medal to Douglas R. Johnson.

THE PRESIDENTIAL CHAIN OF OFFICE

The Presidential Chain of Office was created in 1980 by Mary Sartor, M.F.A., University of Colorado, Boulder, for the inauguration of President Arnold R. Weber. The Chain was a gift to the University by Mr. and Mrs. David G. Hawthorn, Class of '24.

Colorado gold and silver are used throughout the chain to symbolize the importance of those minerals to the history of the State. The gem stones chosen also consist entirely of minerals from Colorado.

Three pendants are suspended on the chain. The back pendant is the Seal of the State of Colorado surrounded by a golden ribbon representing the golden Circle of Knowledge. The top pendant in the front, the Seal of the University of Colorado surmounted by an arch set with diamond and topaz, signifies the necessary link between the search for knowledge and its practical application to the world outside the University. The Seal is supported at the bottom by the laurel wreaths found in the Seal, emblematic of honor and success.

The bottom pendant is centered with a golden topaz indicating man's quest for knowledge. The surrounding ring is paved with fragmented cubes and diamonds which suggest fragments of knowledge with brilliant breakthroughs of understanding.

The chain surrounding these pendants symbolizes the endless but ever-changing cycle of human knowledge.

THE UNIVERSITY SEAL

The University of Colorado has used three different seals in its lifetime.

The present seal, adopted in 1908, depicts a classical Greek male figure seated against a pillar and holding a scroll. A burning torch framed in laurel is placed beside him. The Greek inscription means "Let your light shine."

According to Denver designer Henry Read, the classical design was used because Greek civilization "stands as the criterion of culture." The laurel symbolizes honor or success, the youth of the figure suggests the "morning of life," and the scroll represents written language.

From 1893 to 1908, a seal was used which copies Wyon's medallion, "Science Trims the Lamp of Life." The classical figure of a kneeling Greek woman was flanked by mariposa lilies, which President Baker described as "a true Colorado flower."

Before 1893, a seal was used which essentially copies the Colorado state seal. It was never adopted by the Regents.

The official seal of the University of Colorado is used only by the Regents in transmitting official business.

THE NORLIN CHARGE TO GRADUATES

(From the baccalaureate address by President George Norlin, of the University of Colorado, June 1935.)

"You are now certified to the world at large as alumni of the University. She is your kindly mother and you her cherished sons and daughters.

"This exercise denotes, not your severance from her, but your union with her. Commencement does not mean, as many wrongly think, the breaking of ties and the beginning of a life apart. Rather it marks your initiation in the fullest sense into fellowship of the University, as bearers of her torch, as centers of her influence, as promoters of her spirit.

"The University is not the campus, not the buildings on the campus, nor the faculties, not the students of any one time—not one of these or all of them. The University consists of all who come into and go forth from her

halls, who are touched by her influence and who carry on her spirit. Wherever you go, the University goes with you. Wherever you are at work there is the University at work.

"What the University purposes to be, what it must always strive to be, is represented on its seal, which is stamped on your diplomas—a lamp in the hands of youth. If its light shine not in you and from you, how great is the darkness! But if it shine in you, today and in the thousands before you, who can measure its power?

"With hope and faith, I welcome you into the fellowship. I bid you farewell only in the sense that I pray you may fare well. You go forth, but not from us. We remain, but not severed from you. God go with you and be with you and us."

ACADEMIC DRESS

The tradition of the academic costume apparently began during the twelfth or thirteenth century in the early European universities. Since the clergy composed the majority of the educated class, academic dress is an adaptation of the cope or mantle which was usually of silk or wool, and worn by church dignitaries in religious processions.

Through the years, great diversity in color and in style of cap, gown and hood developed. In 1896, the colleges and universities in the United States adopted a uniform code governing academic dress. Today, the black gown, hood, and mortar board worn by the graduates in most institutions follow this code.

While it is not apparent to the casual observer, the gowns worn by the recipients of the various degrees vary somewhat in design. The sleeves of the gown worn by the baccalaureate candidate are long and pointed, while the sleeves of the gown worn by the master's degree recipient are square at one end with a slit at the elbow. The doctor's gown has flowing sleeves with three bars of velvet, and a facing of velvet down the front of the gown.

Those who receive a master's or a doctoral degree from the University of Colorado wear hoods lined with the school colors, silver and gold. The hood worn by the doctoral candidate differs in design from that of the master's as it has side panels and is slightly longer. The velvet border of the hood indicated the degree and usually follows the same code as the color of the tassels.

The oxford cap, usually referred to as a mortar board, is black and has a long tassel which is fastened by a button on the top. Candidates for the baccalaureate degree wear the tassel pendant over the right front of the cap before the degree is conferred, then it is worn on the left side. *Summa Cum Laude* and special honors candidates will wear gold honor cords.

ACKNOWLEDGEMENT

Music for the commencement ceremony is provided by the Colorado Springs Concert Band.