

UNIVERSITY OF
COLORADO
at COLORADO SPRINGS

Commencement

May Twenty-Third
Nineteen Hundred and Eighty-Nine

**THE REGENTS
OF THE
UNIVERSITY OF COLORADO**

Chairman

Mr. Norwood L. Robb
Littleton

Mrs. Kathleen S. Arnold
Littleton

Mr. Richard J. Bernick
Denver

Mr. Robert E. Caldwell
Colorado Springs

Mr. Peter C. Dietze
Boulder

Mr. Lynn J. Ellins
Longmont

Dr. Harvey W. Phelps
Pueblo

Dr. Roy H. Shore
Greeley

Gen. David W. Winn
Colorado Springs

PROJECTIONS

To the Class of 1989:

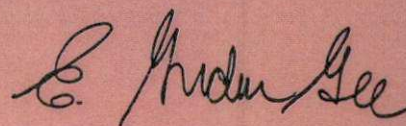
On behalf of the University of Colorado, I am pleased to extend congratulations upon your achievement. Your graduation is a special milestone in your life, and in the life of the University.

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

Gene Abrams, Commencement Marshall
(1988 UCCS Outstanding Teacher)

Processional (audience will please remain seated)

Posting of the Colors

UCCS ROTC Color Guard

Invocation

Dr. Merrill J. Lessley

America the Beautiful¹

Dr. Paul Ballantyne

Welcome

Chancellor Dwayne C. Nuzum

Address

President E. Gordon Gee

Distinguished Service Award
Gen. Robert T. Herres

Legislative Award
Lee Elwood Gillis

Regent Emeritus Award
Sandy F. Kraemer

Conferring of Baccalaureate Degrees
Recognition of Outstanding Graduates

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

Jane E. Brant Johnson
Rita Randolph
Charles S. Walters

College of Business and Administration

Joni L. McLain

College of Engineering and Applied Science

Chris D. Hyser

Conferring of Advanced Degrees

Initiation of Graduates into Alumni and
Friends Association

Kevin Olson

Charge to Graduates

School of Education Dean Margaret Bacon

Alma Mater²

Dr. Paul Ballantyne

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.!

CANDIDATES FOR DEGREES COLLEGE OF LETTERS, ARTS AND SCIENCES

James A. Null, Dean

The Degrees Bachelor of Arts and Bachelor of Science

- Nancy E. Adams, Psychology
Cum Laude
- Judith B. Aghabian, Chemistry (B.S.)
- Charles G. Albrecht, III, Communication
- Judy A. Alexander, Psychology*
- John P. Allard, Psychology
- Carol A. Allen, Geography and Environmental Studies
Magna Cum Laude
- Dianna S. Anderson, Communication
- Kenneth C. Andrew, Communication
- Dean B. Atkinson, Chemistry (B.S.) w/high dist.
- Jennifer L. Baker, Psychology
- Pamela R. Baker, Communication
- Monica L. Barb, Biology*
- ~~Lori A. Barinque, Sociology~~ SGT. W. BARNARD, POL. SCIENCE
- Wendy A. Barone, Chemistry
- AGNA
Cum Laude
- ~~Tammy A. Barthel, Communication~~
- Joanne M. Battiste, Fine Arts*
- Louise M. Bauer, Sociology w/dist.
- Mark W. Bell, Communication**
- Faith A. Benton, Mathematics
- Delores D. Berdine, Psychology
Cum Laude
- 16NA
- Steven Bessette, Political Science
- Kirsten A. Bilzing, Sociology**
Cum Laude, with high distinction
- Donna L. Bissell, Communication*
- Felicia L. Blake, Psychology
- Catherine L. Bockey, Psychology
Cum Laude
- ~~Randal W. Bowen, Fine Arts~~
- Nawana J. Britenriker, History**
- Nikki T. Brooker, Psychology CUM LAUDE
- Jennifer L. Brown, Psychology
Cum Laude
- Pamela C. Brown, Psychology**
Magna Cum Laude
- Roy A. Brown, Jr., Spanish
- Song Ah Brown, Biology
Magna Cum Laude
- Elizabeth K. Bunting, Psychology/Sociology**
Magna Cum Laude
- Ann A. Burton, Communication**
with high distinction
- Sharri L. Cadman, Distributed Studies**
- Harold M. Calvert, Biology
- Robert T. Cambron, Chemistry (B.S.)
- Kevin L. Camerlo, Economics**
with high distinction
- Marc R. Canady, Communication
- Kimberly Carlin, Sociology
- Henry F. Carter, Communication**
- James R. Carver, Geography and Environmental Studies
- Charles E. Chase, Chemistry (B.S.)
- ~~Song Un-Chon, Sociology~~
- Julia O. Chung, Psychology
- John J. Ciofalo, Fine Arts
- Timothy E. Cockroft, Chemistry (B.S.) w/dist.
- Sheri L. Coe, Political Science
- Eddie R. Conley, Philosophy
- ~~Monica A. Cooper, Communication~~
- Susan B. Corcoran, Biology/Communication**
- Deborah M. Coultrip, English*
- Laura A. Cowan, Sociology
- Janice L. Craver, Communication/Psychology**
- Robert A. Cross, Distributed Studies*
- Barbara M. Curcio, Psychology*
- Joseph P. Cullen, Sociology
- Meredith A. R. Davis, Communication
with distinction
- Scott L. Dayberry, Physics and Energy Science (B.S.)
- ~~Henrietta K. DeGroot, Political Science~~
- Janeen A. Demi-Smith, Communication*
- James R. DeVault, Political Science*
- Paulette M. DiBenedetti, Political Science
- Jodi A. Dickes, Spanish
- ~~Daniel J. DiRito, Economics~~
- Mary J. Dodge, Psychology
Magna Cum Laude, with highest distinction
- William G. Drexler, Communication
- Antoine G. DuCros, Sociology**
- Win S. Eckert, Anthropology TAMI L. EDGERTON, ENGL/FINE ARTS
- Kathleen Ellis, Communication
Summa Cum Laude, with highest distinction
- Suzanne D. Ellis, Sociology
- ~~Michele L. Erbeck-Comfort, Sociology~~
- Jill D. Eye, Communication
- Cynthia K. Fallon, Fine Arts w/dist.
- Monique L. Fitch, Psychology**
- Nancy J. S. Fleming, Psychology
Magna Cum Laude
- Corrina F. Franklin, Psychology
Magna Cum Laude, with high distinction
- Clifton J. Fredericks, Distributed Studies*
- ~~Clark M. Friedrichs, Geography and Environmental Studies~~
- Andrea C. Frost, Mathematics**
- Bobbie J. Frost, Psychology
- Abel Fuentes, Psychology/Sociology
- Paul H. Gallogly, Economics*
- Brian S. Galpin, Psychology**
- Francina M. Galvin, History**
Summa Cum Laude
- Paula L. Gamache, Communication
- Barbara L. Gamble, Sociology
Magna Cum Laude w/high dist.
- Michele G. Gandy, Psychology
with highest distinction
- Kevin C. Gannon, Economics**
- Doris L. Garcia, Political Science
- Maria L. Garcia, Psychology
- Grace M. Garouno, Psychology
- Wesley P. Geiger, Psychology**
- Tina M. Gettman, Biology
- Abdul-Aziz S. Ghuloum, Communication**
- Robert G. Gibbons, Distributed Studies*
Summa Cum Laude
- Sharon A. Gibson, Fine Arts**
- Marcia L. Gieck, Sociology w/high dist.
- Dyanne K. Gillis, Communication**
- ~~William J. Gillum, II, Psychology/History~~
- Desiree R. Gonzales, Sociology
- Kimberleigh L. Green, Communication
- Allan G. Grines, Sociology
- Terry A. Guild, Distributed Studies
- Barbara J. Guinther, English*
with highest distinction
- Jo N. B. Hafer, English
- Kimberly L. Hale, Psychology
Cum Laude
- ~~Terryll B. Harfert, Distributed Studies~~
- Susanna N. Hasebe, Biology
- Sandra M. Haugen, Psychology/Sociology
- ~~Randall A. Hayes, Psychology~~
- Michael S. Held, Communication*
- Luann M. Helwig, Communication**
- Dolores A. T. Herbst, Distributed Studies
- Elizabeth A. Hickman, Biology
- Maureen F. Higgins, English
- Kent R. Hildebrand, Communication
- Lee A. Hillhouse, Political Science
Magna Cum Laude w/high dist.
- Mark L. Hockman, Mathematics*
- Mark A. Hodges, Geography and Environmental Studies
- Constance I. Hofmeister, Psychology
Magna Cum Laude w/high dist.
- Erika C. Hosier, Psychology
- Pamela A. Hosman, Psychology
- Michael K. Houser, Psychology*
- ~~Tad C. Howard, Political Science~~
- Annette M. Hritz, Psychology
Magna Cum Laude
- Tracie T. Hunt, Psychology*
- Shelly L. Jacobson, Sociology
- Cheryl L. Jenkins, English
- DeEnna R. Jensen, Sociology/Political Science

Carol P. Johnson, Political Science**
Diane E. Johnson, Sociology
Jane E. B. Johnson, Chemistry (B. S.)
Summa Cum Laude, with highest distinction
~~Stacy J. Johnston, Psychology~~
Valerie M. Joiner, Sociology
David R. Jones, Political Science**
William T. Jordan, Psychology/Political Science
Cum Laude
Kiran Kanchanlal, Communication*
Patrick J. Kearney, Political Science/Economics
Marla S. Kent, Geography and Environmental Studies
Candace R. Kenyon, Biology
Meredith C. Kilby, Fine Arts
Elnor L. Kinsella, Fine Arts
Lisa G. Kirchner-Martin, Communication
Christine R. Knight, Geography and Environmental Studies
Elizabeth L. Kohlmeier, History
Patrick F. Kolarik, Physics and Energy Science (B. S.)
Thomas P. Kozak, Physics and Energy Science (B. S.)
Gary J. Krasovetz, Fine Arts**
Mark A. Kromer, Political Science**
Bruce J. Kuhns, Spanish*
Summa Cum Laude, with highest distinction
~~Ernest N. Lagasca, Jr., Biology~~
Annette D. Lasley, History
Thomas C. Latta, Communication**
Michael A. Lesser, Political Science**
Delores J. Liggett, Psychology
Summa Cum Laude
Alisa L. Loeper, Sociology*
Denise L. Lucero, Psychology
Magna Cum Laude w/ high dist.
Carol Mae Magruder, Psychology
Deborah C. Manyik, English
Caroline B. Mann, Psychology**
Rebecca A. Marincel, Communication
Jeffery B. Marshall, Biology
Yolanda L. Martinez, Communication**
Anthony Marzavas, Political Science**
~~Juanda Y. Mayberry, Political Science~~
Laura S. McAnulty, Psychology
Magna Cum Laude
Michelle D. McClure, Communication**
Kenneth S. McCoy, Philosophy**
~~Elizabeth J. McGraw, Communication~~
Lisa McGrew, Psychology**
Christopher G. McLaughlin, Biology
Kathleen M. McMahan, Communication
Debra K. Mikash, History
Melissa D. Mitchell, Psychology
Susan V. Moore, Communication*
Dedra T. Montoya, English
Cynthia M. Morgan, Psychology**
Deborah M. Morgan, Political Science
Jennifer J. Morin, Biology
Harry J. Myers, Communication
~~Christine M. Nevel, Political Science~~
Susan L. O'Banion, Fine Arts
Staci A. Oldehoeft, Communication
David A. Osborne, Economics*
Rebecca R. Ott, Communication
Linda J. Painter, Sociology**
Magna Cum Laude
Jacqueline D. Parrish, Psychology**
Elizabeth M. Payne, Psychology**
Leonard E. Petrocelli, Distributed Studies**
~~Catherine A. Pellow, Psychology~~
Charles E. Perry, Sociology
Patricia E. Petraglia, Psychology, w/dist.
Patricia A. Piche, Biology**
Magna Cum Laude
Julie M. Plylar, Sociology*
Donna M. Poponick, History
Magna Cum Laude
Donna J. Poulton, Sociology
Sharon M. Psensky, Geography and Environmental Studies
Melinda C. Quintana, Sociology**
Patricia A. Ramos, English**
Rita G. Randolph, Communication*
Summa Cum Laude
Diane M. Reed, Geography and Environmental Studies
Magna Cum Laude
Suzanne S. Reed, Psychology
Stephanie E. Reininger, Spanish

Ralph A. Richardson, Physics and Energy Science (B.S.)*
Donald C. Rickard, II, Communication
Christine G. Riley, History
Leonard Riley, II, Psychology
~~M. Dawn Robertson, Chemistry (B. S.)~~
Sharon C. Robbie, Communication*
Rebecca L. Rohr, English**
Jane B. Romano, Psychology
Jennifer K. Rudio, Fine Arts w/ high dist.
Paula J. Russel, Communication
Scott T. Ryden, Distributed Studies
Cum Laude
Azita Safai, Chemistry (B. S.)
Sandra L. Saliba, Psychology
~~Jillian E. Sampson, Communication~~
Susan M. Schlueter, Communication
Magna Cum Laude, with distinction
David S. Schmidt, Sociology**
Jennene J. Scott, Political Science
Kathryn E. Seeley, Political Science
Elizabeth R. Seitz, Sociology*
Rebecca S. Shields, Sociology
Edith L. F. Shotwell, English
Magna Cum Laude
Margaret C. Shoup, Chemistry (B. S.)
Magna Cum Laude, with highest distinction
Tammy R. Shuminsky-Ferguson, Psychology w/ highest dist.
Grace M. Silva, Psychology**
Magna Cum Laude
William J. Simmons, Psychology
Steven M. Sims, Distributed Studies**
Nadia P. Slusar, Physics and Energy Science (B.S.)*
Bonita H. Smith, Geography and Environmental Studies
Michael E. Smith, Physics and Energy Science (B.S.)*
Richard A. Smith, Psychology
Stephanie A. Smith, English
Hans F. Sorensen, Anthropology
~~Diana M. Spahr, English~~
Bonnie J. Stewart, Chemistry (B. S.) CUM LAUDE, w/ high dist.
~~Mara Sube, Communication~~
~~Marlin W. Sutton, Biology~~
Kelley J. Talbot, Distributed Studies**
Magna Cum Laude
Donna J. Tannehill, Mathematics
Lora B. Tannehill, History
Andrea L. Taylor, Mathematics**
Cum Laude
Tamara M. Teale, English**
Cum Laude
Pamela S. Terry, Distributed Studies**
Evelyn L. Thrugstad, History
Elizabeth W. Traver-Husband, Sociology w/ highest dist.
Philip G. Trejo, Sociology**
Robert B. Trimble, Political Science**
Carol J. Troutman, Psychology
Marilyn H. Ulanowski, Geography and Environmental Studies
Beth A. Ullom, English
Lisa Q. Ulfers, Sociology*
Shirley E. Va'i, Psychology
Cum Laude
Ann C. M. Van Wey, English**
Monika M. VanCleve, Psychology
Cum Laude
Carlotta D. Vetter, Sociology
Annette J. H. Visty, Communication
with high distinction
Shelly A. VorderLandwehr, Psychology
Kathleen D. Waidlich, Psychology w/ high dist.
Magna Cum Laude
John J. Walker, Chemistry (B. S.)
Charles S. Walters, Philosophy
Cum Laude
Carol R. Weissler, Geography and Environmental Studies**
Cum Laude
Beate D. White, Sociology w/ high dist.
Magna Cum Laude
Kelly D. Wickline, Sociology**
Wendy K. Wiegert, Communication*
Gina M. Wilcox, History/Geography and Environmental Studies
Brenda M. Williams, Psychology*
Patrick S. Williams, Communication
Mary J. Wooley, Psychology
Jean M. Wortley, Psychology CUM LAUDE
Joseph L. Wyatt, Political Science**
Christopher C. Zeitvogel, Distributed Studies

COLLEGE OF BUSINESS AND ADMINISTRATION

Resident Dean James T. Rothe

THE DEGREE BACHELOR OF SCIENCE (BUSINESS)

Karen J. Alston**
 Terri B. Amon
~~Magna Cum Laude~~
 Constance L. Anderson
 Suzanne V. Anderson
 Cheryl E. Arata
 James M. Ash**
 Holly D. Atkins**
 Deborah L. Babcock**
 Katherine A. Babcock
Magna Cum Laude
 Russell W. Bailey**
 Leslie M. Baker
Cum Laude
 Richard L. Ball**
 Jeffrey P. Baron**
Magna Cum Laude
 Catherine M. Bartlett**
 Mark W. Berriman
 Pamela Berry**
 Alice G. Bingel**
 William J. Bottini**
 Deborah A. Bonn
~~Magna Cum Laude~~
 Michael E. Brown*
 Hugh A. Burns, Jr.
Magna Cum Laude
 Clark H. Burr
 Erin M. Butler
 Stephen L. Cassity**
 Layne M. Chamberlain
 James M. Cimino
 Kristin J. Cole
 Peter W. Crowell
Magna Cum Laude

Douglas O. Curry
 Ibrahim O. Dannoun
 Ronald W. DeMent**
 David T. Dixon**
 Neil W. Dozier**
 Stephen D. Dunnahoo
Magna Cum Laude
 Marie J. Ellingsworth**
 Mark W. Emeis
 Karen S. Erbes
Magna Cum Laude
 Sondra A. Evans
 Richard C. Fidler
 Craig M. Fleischmann**
 Kent D. Fortune
 Melanie J. Fuchs
Magna Cum Laude
~~Clark H. Gabriel~~
 Pamela W. Gamer**
Summa Cum Laude
 Heidi C. Gerhards
 Carol A. Godwin
 Julia M. Guice
 Cinda E. Haggren**
 Carol E. Hammer*
 Iona M. D. Hanenberg**
Summa Cum Laude
 Paula S. Hanson**
 Laurie A. Heisner**
 Selina K. Hensley
Cum Laude
 Kevin D. Hobbs
Magna Cum Laude
 Beverly A. Hodges**
Magna Cum Laude

Cindy L. Holley**
 Todd W. Holmquist**
 Raymond L. Javernick
 Luuis M. Jimenez
 Kathleen R. Kassing
 Debra K. Kiehn
 Un S. Kim**
 Donna M. Kress
 Susan M. F. Lachman
Summa Cum Laude
 Gary W. Leak
 Carolyn E. W. Lemp
Cum Laude
 Kevin F. Liston
 Jeffrey S. Loeper
 Woodrow Longmire
 Jennifer L. Loxley-Lexa
 Mary E. Lovell
 Om K. Manrao
 Karen L. Mason**
 Deborah J. Matheny*
 Deborah E. Matthews**
 Tamara D. Matthews
 Amy S. McClelland*
Cum Laude
 Michael G. McCoy**
 Marie E. McIntire
 Faye S. McKenny **LUM LAUDE**
 Joni M. McLain
Summa Cum Laude
 Matthew R. Miller**
 Patrick J. Miller
 Stephen E. Mills
 Nancy Missack**

Janice R. Mount
 Laura J. Myers
 Barbara A. Negilski
 John A. Normile
 Guy N. Ockerlund**
 June C. O'Rourke
 Neal O'Sullivan
Cum Laude
 Karen I. Pajor
 Chris M. Pappas**
 Sharon M. Paulson**
Cum Laude
 Robert L. Peterson, Jr.**
 Teresa R. Phillips**
 Deborah D. Pierce
 H. K. Prettyman
 Pamela A. Pryce
Magna Cum Laude
 Clarisse H. Ramirez
Magna Cum Laude
 Kathryn A. Raymond
~~Magna Cum Laude~~
 Steven A. Reid
Cum Laude
 Lisa M. Ripple
 Kelly J. Robbiano
 Gregory L. Rodriguez
~~Bryan E. Scanlon~~
 Charles A. Scheiwe
 Wendy S. Schickantz
Cum Laude
 John R. Schneebeck
 Carol A. Schodorf**
 Kathleen M. Seitz

Tabitha A. Slaven
 Susan L. Smith**
 Michelle M. G. Somers
Magna Cum Laude
 Michael L. Sondgerath
 Kevin T. Stansberry**
 James G. Starkweather
 Catherine L. Stedman**
 Jack Sulsona**
 Barton G. Swanson
 Karla R. Swanson
 Jillayne R. Tancock*
 Donald B. Taylor*
 Carol Sue Thomas*
 Lisa A. Thomas
 Kelley K. Thompson
 Elena S. Tomorzitz
Summa Cum Laude
 Molly C. Tredwell
 Alissa S. Turner
 Jeffrey W. Utrias
 Gail A. Vallance
 Maria D. S. Vera **JAMES A**
 Michelle R. Walker
 Duane M. Waterman**
 William J. Weide
 Russell W. Wekamp
 Stephen A. White
 Heather A. Wilkerson
 Stephanie E. Wilmer
 Michele E. Withrow**
 Jason P. Young

COLLEGE OF ENGINEERING AND APPLIED SCIENCE

Dean Pieter A. Frick

THE DEGREE BACHELOR OF SCIENCE

Richard C. Anderson, Computer Science
 Charles F. Avila, Electrical Engineering*
 James Barrilleaux, Electrical Engineering**
 Theresa M. Bertolini, Electrical Engineering**
 Alireza Boroumand, Electrical Engineering
 David C. Brabb, Electrical Engineering**
 Kevin W. Brugh, Computer Science
 James R. Campe, Electrical Engineering
 Scott S. Carter, Computer Science**
 Bruce D. Crump, Electrical Engineering
 Christopher J. Curl, Electrical Engineering
 Renée Depew, Electrical Engineering
 Sarah L. Disch, Electrical Engineering
 Jalal Droodiani, Electrical Engineering**
 Laura L. Dulcie, Electrical Engineering**
 Roger D. Fulton, Computer Science*
 Karen T. Elsey, Electrical Engineering**
 Richard L. Enger, Electrical Engineering**
 Sandra L. Evans, Computer Science
 Donald J. Eydenberg, Electrical Engineering
 Lorne C. Fetterman, Electrical Engineering
 Ronald C. Flores, Electrical Engineering**
 Michele A. Glaze, Electrical Engineering
 Frederick G. Glock, Electrical Engineering**
 Trenton H. Hall, Computer Science
 Jeb S. Harman, Computer Science**
 Keith D. Hemenway, Electrical Engineering**
 Thomas H. Huntington, Applied Mathematics**

Chris D. Hyser, Electrical Engineering
 with special honors
 Kurt J. Ianacone, Electrical Engineering**
 Michael L. Kinney, Electrical Engineering**
 Lisa M. Klag, Computer Science**
 Carolyn J. D. Kurtz, Computer Science
 Elizabeth R. Lang, Electrical Engineering**
 Arlan G. La Voie, Electrical Engineering
 Elizabeth A. Lee, Applied Mathematics**
 Michael A. Mares, Electrical Engineering
 William S. McBride, Electrical Engineering**
 Larry D. McMillin, Computer Science
 Michelle P. Meadows, Electrical Engineering
 Kurt W. Metzger, Electrical Engineering
 Shon B. Mitchell, Computer Science**
 Mary J. Morin, Electrical Engineering
 Douglas E. Neufeld, Computer Science
 Hang T. Nguyen, Electrical Engineering
 Sharon L. Norred, Computer Science
 Simon W. Nunn, Computer Science
 Amy E. O'Keefe, Computer Science
 Thomas W. O'Steen, Computer Science
 Michael J. Pararas, Electrical Engineering**
 Gertraud Pascucci, Computer Science
 Madhuker M. Patel, Electrical Engineering**
 with honors
 Ferdinand D. Periquet, Computer Science**

Brent A. Petersen, Electrical Engineering
 Hung Q. Pham, Electrical Engineering
 Dale L. Pittock, Electrical Engineering**
 Lisa M. Ponzini, Electrical Engineering**
 Steven A. Roodbeen, Applied Mathematics**
 Daniel B. Ruth, Electrical Engineering
 Andishe Samandari, Electrical Engineering
 Patricia A. Sanchez, Electrical Engineering**
 Douglas A. Scott, Electrical Engineering
 Leroy M. Silva, Computer Science**
 Greg F. Shumaker, Electrical Engineering*
 Darryl L. Snively, Electrical Engineering*
 Richard P. Soares, Jr., Electrical Engineering**
 Charlie M. Stallard, Jr., Electrical Engineering
 Robin C. Sulski, Electrical Engineering
 Gregory A. Tarca, Electrical Engineering
 Joyce E. Terry, Electrical Engineering**
 Pamela H. Thomas, Electrical Engineering*
 Philip D. Tonge, Electrical Engineering
 Jeffery E. Turner, Electrical Engineering**
 David C. Uraneck, Computer Science with honors
 Steven W. Wernli, Electrical Engineering**
 with special honors
 Brent R. Whitsitt, Electrical Engineering**
~~Roger W. Wild, Computer Science~~
 Scot R. Wurster, Electrical Engineering
 Christopher M. Wyckoff, Computer Science

THE DEGREE MASTER OF BASIC SCIENCE

David A. Brown
Kirt E. Casler
Patricia K. Coomber

Mark D. Rice*
Michael A. Simpson*

THE DEGREE MASTER OF SCIENCE

Ray Beamer, Electrical Engineering**
Barret J. Belian, Computer Science
~~William D. Beteille, Computer Science~~
Jeffrey Brooke, Electrical Engineering**
Kim Buckler, Electrical Engineering**
Yohtz Chang, Electrical Engineering
Hsiu Coe, Electrical Engineering**
Ann L. Cushman, Applied Mathematics
~~Frank B. Dubach, Computer Science~~
~~Roberta M. Ewart, Electrical Engineering~~
Barry S. Gamblin, Computer Science
Mark A. Geiger, Applied Mathematics
Kenneth Gibson, Computer Science**
Joann Gravitt, Electrical Engineering**
Joel L. Gross, Electrical Engineering
Steven P. Hardyman, Applied Mathematics**
Debra Jaeger, Computer Science**
~~Ryan N. Jensen, Electrical Engineering~~
Thomas Johani, Electrical Engineering
Michael P. Johnson, Electrical Engineering
Dwight R. Kinney, Electrical Engineering*

~~Raymond W. Kolbe, Computer Science~~
James R. Logan, Computer Science
David Lohman, Computer Science**
Andrew T. McMahon, Electrical Engineering
Karen M. Michels, Computer Science
John E. Oldberg, Computer Science
James W. Pero, Electrical Engineering
Leslie Roberts, Computer Science**
~~Robert M. Rutherford, Computer Science~~
Randall L. Sandusky, Electrical Engineering
Thomas E. Schmid, ~~Electrical Engineering~~ APPLIED MATH
~~Cynthia L. Starr, Electrical Engineering~~
William Staton, Electrical Engineering**
Mark Taylor, Computer Science**
~~Timothy L. Trowbridge, Electrical Engineering~~
~~Linda S. Tully, Computer Science~~
Michael G. VanGrouw, Electrical Engineering
Roger J. Veracruyse, Electrical Engineering
~~William E. Walsh, Computer Science~~
Mark C. Wallace, Electrical Engineering
~~Carolyn M. Yeager, Computer Science~~

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

~~Teresa S. Anderson, Psychology~~
Susan E. Becker, Psychology*
~~David C. DiRito, Psychology~~
Kathleen A. Hake, Psychology*
Fred H. Herring, Jr., Psychology*

ANAN E. RAITZ
Jennifer C. Nagode, Psychology
Heather Sena, Psychology*
Laurie M. Taylor, Psychology*
~~Eugene E. Van Dusseldorf, Psychology~~
James F. Yates, Psychology**

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

Raymond A. Beamer, Jr.**
Mary Beth Bridgham
Mary Jo H. Darress
Lucien T. Hall*
~~Brenda J. Kallighan~~
Timothy J. Lea**

Kenneth A. Lillie*
Scott F. Merrow**
~~John A. Paulsen~~
Merri Anne Stowe**
Richard E. Tremblay
Charles E. Wivell**

CANDIDATES FOR COMMISSION

Second Lieutenant, United States Army

Steven Bessette
E. Camachocervantes
William D. Carr
James M. Cimino
Dana A. English
Doris L. Garcia
Allan G. Grines
Terry A. Guild
Michael W. Hester
Jeff R. Mora
Scott M. Muir

Michael R. Nyberg
Michael J. O'Neill
Thomas W. Osteen
Dean T. Ross
Ronald T. Shaffer
Heike M. Scholz
Cindi L. Smith
Stephanie A. Smith
Martin W. Vandoorninck
Christopher C. Zeitvogel

*Graduated August 1988 **Graduated December 1988

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

RESOLUTION OF APPRECIATION

SANDY F. KRAEMER

WHEREAS Sandy F. Kraemer was elected to the Board of Regents for a six-year term from Congressional District 5 in 1976, and re-elected for a second six-year term in 1982;

WHEREAS he served in conjunction with the administrations of Presidents Rautenstrauss, Weber, Baughn, and Gee; and was Chairman of the Board during 1982-83;

WHEREAS he authored resolutions establishing: monthly general fund and budget plan alerts; a minority committee to advise each campus administration on minority student recruitment and retention; and annual substance abuse awareness week at each campus; a cooperative statewide effort to publish an economic development report to be used in attracting industry to the state (Research Mountains Colorado); standards of conduct for persons attending events at Folsom Stadium and the Events/Conference Center; increased institutional contributions for need-based financial aid; and uniform student academic honor codes and conduct codes;

WHEREAS he was instrumental in seeking the approval and construction of the Engineering Building in Colorado

Springs; was concerned with the preservation and expansion of recreational space on the campuses; was a vocal advocate for energy conservation by the University; had reservations about the sale of 3.2% beer in Folsom Stadium; was a strong supporter of affirmative action; and co-authored the Kraemer-Noel report on minority enrollment and retention;

WHEREAS he brought to the Board important personal philosophies, was a forceful advocate of financial accountability, and consistently challenged the administration to pursue the quest of becoming a world-class university;

WHEREAS the Board and the University community will greatly miss the active and in-depth involvement of Sandy and Dorothy Kraemer in the events of the institution;

NOW THEREFORE BE IT RESOLVED that the Board of Regents expresses its deep appreciation to Sandy F. Kraemer for his dedication, his conscientious and long service, and his many accomplishments on behalf of the University and the State of Colorado; and he be granted the title of Regent Emeritus of the University of Colorado.

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 doctor's degree from the University of Colorado wear hoods lined with the school colors, silver and gold. The hood worn by the doctor's 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.