



UNIVERSITY OF
COLORADO
at COLORADO SPRINGS

Commencement

May Twenty-Seventh
Nineteen Hundred and Eighty-Six

**THE REGENTS
OF THE
UNIVERSITY OF COLORADO**

Chairman
Dr. Roy H. Shore
Greeley

Dr. Charles M. Abernathy, Jr.
Montrose

Mr. Richard J. Bernick
Denver

Mr. Peter C. Dietze
Boulder

Mr. Lynn J. Ellins
Longmont

Mr. Hugh C. Fowler
Denver

Mr. Sandy F. Kraemer
Colorado Springs

Mr. Norwood L. Robb
Denver

Mr. David K. Sunderland
Colorado Springs

PROJECTIONS

To the Class of 1986:

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 a 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 the 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

Dr. Thomas P. Huber, Commencement Marshall
(1985 UCCS Outstanding Teacher)

Processional (audience will please remain seated)	
Posting of the Colors	Fort Carson Color Guard
Invocation	Dr. Joan Fairchild
America the Beautiful ¹	Dr. Paul Ballantyne
Welcome	Chancellor Dwayne C. Nuzum
Address	President E. Gordon Gee
Conferring of Honorary Degree Johnny Smith	Doctor of Humane Letters, <i>honoris causa</i>
University of Colorado Medal Thomas A. Saponas	
University of Colorado Thomas Jefferson Award Robert P. Larkin	
Conferring of Baccalaureate Degrees Recognition of Outstanding Graduates	
College of Letters, Arts and Sciences Natural Sciences Social Sciences Humanities	Ann L. Cushman Brigitte I. Laviolette Scott G. Leonard
College of Business and Administration	Ellin D. Jensen
School of Education	Kathleen F. Wenninger
College of Engineering and Applied Science	Pat Brus-Conley
Conferring of Advanced Degrees	
Initiation of Graduates into Alumni and Friends Association	Geraldine Iverson
Charge to Graduates	Vice Chancellor Jack E. Sherman
Alma Mater ²	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

Debra L. Abbott, Biology
Summa Cum Laude
Frederick G. Abbott, Chemistry (B.S.)
Catherine J. Adams, Psychology**
Summa Cum Laude
Dorothy M. Adams, History**
Janet M. Adams, Economics
with high distinction in Economics
William A. Adams, Geography and Environmental Studies**
Sharon Alpiner, Communication
Christine G. Amlicke, Psychology
Magna Cum Laude
Marcia G. Anderson, History
Richard D. Andrew, Geography and Environmental Studies
Eddie W. Angell, Psychology
William R. Arbogast, Anthropology
Kelly A. Arno, Communication
with high distinction in Communication
Diane M. Atwood, Biology
Summa Cum Laude
Daniel P. Avery, Political Science
Michael J. Bahr, Political Science
Tracy J. Bales, Communication*
Marlys M. Bane, History
Sylvia C. Banister, Biology
Magna Cum Laude
Janet L. Bastian, Economics
with highest distinction in Economics
Lloyd R. Batchelor, III, Psychology
Lawrence E. Bates, Jr., Communication
Sophia L. Beaudin, Communication
Sonya R. Bernard, Biology**
Ingrid Bibey, Distributed Studies**
Maureen K. Bird, Sociology
Frenda K. Blakney, Psychology
Christian Bloch, Geography and Environmental Studies
Jeffrey A. Boon, Chemistry (B.S.)
Barbara F. Boyd, Communication*
Jacque D. Brant, Sociology**
Karen L. Brink, Communication**
Ernest M. Brown, Sociology
Ron L. Brown, Anthropology**
Erin F. Buckley, English*
Jane E. Buffie, Psychology
Mary-Catherine Butler, Communication*
Annette M. Campbell, Biology
Cum Laude
Teri G. Cappellucci, Biology
Linda L. Cardi, Distributed Studies
Magna Cum Laude
Roxanne Carr, Psychology*
with highest distinction in Psychology
Patricia L. Carroll, Communication
Susan L. Carver, Psychology
Cum Laude
Steven L. Castle, Biology
Lynn M. Cawthra, English
Cum Laude
Kathryn H. Chantry, Psychology
Gloria J. Chapman, Distributed Studies
Manuel F. Chavez, Sociology*
Kathleen T. Clark, Chemistry (B.S.)
Kimberly A. Clark, Communication
James S. Clements, Economics
Magna Cum Laude with highest distinction in Economics
Deborah G. Combs, Communication
Jeffrey R. Conrad, Communication
Rhama R. Cragg-Martinez, Mathematics
Daurene L. Crider, History
Donald G. Crino, Biology
Magna Cum Laude

Larry K. Crook, Geography and Environmental Studies
Laura L. Crumley, Economics
Lori J. Crystal, Economics
with high distinction in Economics
Jennell J. Cuevas, Psychology/Sociology**
Ann L. Cushman, Mathematics
Summa Cum Laude
Theodore B. D'Arcy, Anthropology**
Magna Cum Laude
Monica L. Davis, Distributed Studies
Cum Laude
Nancy A. De Lury, Communication
Roberta B. Dial-Borne, Anthropology/Spanish**
Magna Cum Laude with highest distinction in Spanish
Patrice M. Doeltz, Sociology*
Kateri M. Drexler, Psychology**
Judith C. Drinan, Psychology**
Brian L. Duane, Economics*
Margaret R. Duncan, Communication
with high distinction in Communication
Kenneth T. Eells, Political Science
Gennefer S. Eldredge, Chemistry
Cynthia L. Elliott, Psychology*
Karen R. Elliott, Psychology**
Cum Laude with high distinction in Psychology
Brian F. Ermel, Chemistry (B.S.)
Mark D. Eshnaur, Communication
with high distinction in Communication
Paul R. Fiebing, Psychology
Jane M. Fikus, Philosophy
with highest distinction in Philosophy
Margaret L. Fitt, Psychology/Communication**
Cum Laude
Justine L. Fix, Psychology
Pamela J. Foster, Mathematics
Karen J. Frantz, Biology
Terry L. Freeman, Fine Arts
with high distinction in Fine Arts
Catherine S. Gage, Biology
Janice D. Galka, Psychology
Magna Cum Laude
Suzanne M. Galloway, History*
Michael S. Garcia, Mathematics
Natalie Gaskins, History*
Mary E. Gazo, Geography and Environmental Studies**
Joel A. Giusti, Fine Arts**
Judith M. Goeke, Distributed Studies**
Lillian J. Gonzalez, Chemistry
Timothy R. Gotchey, Philosophy
Cum Laude
Patricia A. Gray, English
Magna Cum Laude
Judith A. Greenburg, Psychology*
Magna Cum Laude
Wendy M. Guyant, Sociology
John M. Haehn, History
Liisa H. Hall, Sociology
Ann Han, Sociology**
Magna Cum Laude
Esther F. Harder, Psychology
Sandra L. Hargrove, Psychology
Margaret P. Harnett, Biology
Cum Laude
Susan J. Hassed, Biology
Joan M. Hassel, Distributed Studies**
Lora L. Hatton, History
Magna Cum Laude
Karla M. Heard, Political Science
Mark R. Helm, Biology
David M. Henning, History
Deborah L. Henrichsen, Biology**

Nora L. Hensley, Sociology
Jerry T. Hicks, Jr., History
Monica E. Hobbs, History
Arleen P. Hof, English
Diane S. Hoover, History
Gayle B. House, English
Sandra D. Howard, Communication
Barbara J. Hoy, English
Sheri L. Huber, Psychology
Judith E. Huff, Sociology
Edgar G. Ingalls, Psychology
Cum Laude
Sandra E. Jacobson, Psychology
Cum Laude
Lubor Jarolimek, Biology*
Werner W. Jenkins, Geography and Environmental Studies**
Anna S. Johnson, Sociology
Palmer W. Johnson, Sociology
Steven F. Kalisch, Communication/Political Science
Rafik Y. Kamell, Political Science**
Janet E. Kandt, Psychology
Susan M. Kasprick, Psychology/Communication**
Robert E. Keating, Political Science
Todd A. Kemp, Psychology**
Vivian L. Kemper, Fine Arts
with high distinction in Fine Arts
Robert E. Kentner Jr., Communication**
Joseph M. Kerby, Sociology**
Michael K. Kightlinger, Communication
Shirley B. King, Mathematics
Elizabeth Kitchens, Political Science**
Martin A. Klein, Distributed Studies
Jane E. Knox, Psychology
Jaclyn Koehnke, Philosophy**
Cum Laude
Mary J. Kraus, Distributed Studies
Robert M. Lake, Sociology
Cindy A. Lampe, Geography and Environmental Studies**
Magna Cum Laude
Douglas E. Lampshire, Philosophy/Psychology
Jill J. Landem, English
Magna Cum Laude
Brigitte I. Lavolette, Communication/Psychology
Summa Cum Laude with highest distinction in Communication
Brenda C. Lear, Communication
Cum Laude
Wendy L. Lee-Lampshire, Philosophy
Janet K. Lehmann, Communication/Sociology**
Mary A. Leineweber, Distributed Studies**
Scott G. Leonard, English
Magna Cum Laude
Claudine Levenson, Psychology**
Cum Laude
Allison L. Lewis, Mathematics/Biology
Andra M. Lewis, Distributed Studies**
Kathleen J. Lewis, English
Danielle Love-Holcomb, Psychology
Barry G. Lubbers, Biology**
John R. Lujan, Psychology/Sociology
Saralyn M. Mahone, Chemistry (B.S.)
Keith R. Mann, Mathematics
Paula J. Marilley, Fine Arts
James E. Markum, Political Science
Tina B. McIntire, Psychology**
Sheila M. McMahon, Communication
Cum Laude
Tarek A. Mekhail, Distributed Studies
Pamela K. Mercer, Distributed Studies
Roy A. Merkle, History
Michelle M. Merwin, Psychology
Edith B. Miller, Psychology
Natalie N. Mitton, Psychology
Bonnie G. Moeder, Communication
Darlene J. Montani, Fine Arts
Jack M. Morgan, Chemistry (B.S.)
Jon C. Mueller, Communication
Lori B. Mugasis, Biology
Summa Cum Laude
Robert R. Mullins, Biology

Edgar D. Nazario, Political Science*
Kara M. Nease, Communication
Kimberlyn G. Neely, Biology/Anthropology
Katherine L. Nomura, Psychology
Nader Norrihan, Chemistry (B.S.)
Cum Laude
Pamela J. Northern, Communication
Roger Olstein, Economics**
Anne M. O'Malley, Psychology*
Linda K. O'Neal, Fine Arts/Psychology
John C. O'Neill, Chemistry (B.S.)
Jean S. Oscarson, English
Rhea D. Osmun, Political Science**
Jennifer R. Payne, Communication*
Michael R. Payne, Mathematics
Patricia M. Pazera, Distributed Studies
Diana M. Pemberton, Communication
Rosemary C. Pierce, Communication
Jennifer M. Post, Communication
Cum Laude with distinction in Communication
Michael A. Pound, Economics
Linda W. Pyfrom, Mathematics
Shirley T. Quigley, History
Jana Ramsey-Cross, Sociology
Mary J. Ray, Psychology
H. Benjamin Reed, Political Science
Susan E. Reed, Philosophy**
John Reese, History
Heidi A. Reid, Distributed Studies*
Linda D. Reinhardt, Communication
Glenn T. Richardson, Geography and Environmental Studies
Nancy S. Ridley, Geography and Environmental Studies
Cum Laude with highest distinction in Geography and Environmental Studies
Lucien E. Rising, Spanish**
with highest distinction in Spanish
Lisa M. Riutzel, Psychology**
John H. Roberts, Psychology/Sociology
Karen R. Roberts, Communication*
Cum Laude
Richard R. Rodger, Distributed Studies
Cum Laude
Michael A. Roslin, Communication
Lisa K. Ross, Mathematics
Timothy W. Rudy, Geography and Environmental Studies
Bonita G. Rummage, Sociology
Janet S. Russell, Biology
Cum Laude
Tanya E. Sapuntzoff, Communication
Janet L. Sather, Psychology
Douglas G. Sauer, Economics**
with highest distinction in Economics
Anthony Sayka, Chemistry (B.S.)**
Elmyra J. Schaal, English*
Daniel M. Schaarschmidt, Communication
Hans D. Schalk, Political Science/Sociology
with highest distinction in Political Science
Derek B. Schanz, Communication
Larry R. Scheinplflug, Geography and Environmental Studies
Cum Laude
Pamela J. Schine, History
Sally L. Schmidt, Fine Arts**
Cum Laude
Raymond J. Schneider-Kuhn, Psychology
Thomas A. Schuck, Communication
Sharon I. Selveen, Communication**
John W. Shea, Chemistry (B.S.)
William J. Shea, History**
Shirley C. Shepherd, Communication**
Stephen A. Shepherd, Psychology**
Becky L. Sheridan, Chemistry
Basil S. Shiber, Political Science
Cum Laude
Diana L. Short, Psychology
Pamela K. Sicola, Political Science
Cum Laude
Karl H. Sietman, Distributed Studies**
Victoria M. Silva, Distributed Studies
Ina M. Smith, Communication
Charles D. Snow, Fine Arts**

Cynthia L. Snyder, Psychology/Communication**
 JoEllen S. Solita, English
 Jefferson R. Spencer, History
 David W. Starr, History
 Carolena M. Steen, Sociology*
Magna Cum Laude
 Diane L. Stevens, Fine Arts
Cum Laude with distinction in Fine Arts
 Glenn D. Stewart, Geography and Environmental Studies/Anthropology*
 Sheila J. Stewart, Fine Arts/Sociology**
Cum Laude
 David C. Stiver, Political Science
 with high distinction in Political Science
 William E. Strutton, Sociology
 Sherri L. Stump-Alonso, History
 Evelyn H. Sullivan, Communication
Magna Cum Laude with highest distinction in Communication
 Susan H. Szyrka, Anthropology**
 Debra S. Tallent, Communication**
 Rita J. Tassia, Distributed Studies*
Cum Laude
 Bonnie L. Thomas, Mathematics
 Donald M. Thomsen, History/Political Science
 Dorothy J. Thrutchley, Psychology**
 Terri L. Tinkham, Geography and Environmental Studies
 Jane C. Tome, Biology
Cum Laude
 JoAnn Totoro, Psychology
 Carol T. Treece, Psychology
 Sandra J. Trujillo, Geography and Environmental Studies**
Cum Laude with high distinction in Geography and Environmental Studies
 Kimberly A. Trundy, Mathematics**
 Kenneth W. Tucker, Communication

Lisa S. Tucker, English
 Marci L. Twombly, Sociology
 Donna J. Tyree, Communication
 Wayne A. Uhrman, Psychology
 Connie J. Ulmer, Psychology
 Jo B. Van Gorder, Political Science**
 Michael A. Vandall, English/Psychology
 Erica M. Vann, Economics
 Amy L. Velimirovich, Psychology
Cum Laude
 Betty J. Verdieck, Fine Arts
 Ingvar A. Wallace, III, Chemistry (B.S.)
Summa Cum Laude
 Pauline Ware, Sociology**
 Colleen K. Webb, Psychology
 Sandra R. Weingold, Economics
 Judith L. Wendell, Distributed Studies
 Ellen E. Werner, Communication
 Regina Werry, Distributed Studies**
 Lyvonne L. White, Communication
 Marian F. White, Biology*
Cum Laude
 Patricia A. Whitmore, Communication
 Kathryn R. Willard, Biology
 Carmen B. Willoughby, Spanish**
 with high distinction in Spanish
 Mary K. Wyatt, Distributed Studies
Cum Laude
 Gail M. York, Fine Arts
Cum Laude
 Michael R. Younker, Biology
Cum Laude
 Anthony J. Zavarelli, Economics/Political Science

COLLEGE OF BUSINESS AND ADMINISTRATION

Acting Dean Philip R. Cateora; Edward B. Oppermann, Acting Resident Dean

THE DEGREE BACHELOR OF SCIENCE (BUSINESS)

Kimberly A. Adams	Mary C. Fox	Laura L. Kalkowski	Jeanne L. Regh**
James T. Adcox	Goldie C. Francis	Patricia S. Kelley*	Sheri D. Renoux*
Kay B. Ahrentzen	Juan B. Gallegos	Gregory P. Kemp**	<i>Magna Cum Laude</i>
<i>Magna Cum Laude</i>	Daniel R. Gamache**	Roger Y. Kirouac**	Cynthia C. Riead-Gottlieb**
John A. Alcorn	Lalita R. Ganesan**	Jeffrey N. Kledis	Marilyn E. Robinson
Robert E. Allen*	Robert B. Gilbert	<i>Cum Laude</i>	Allen L. Ruminski
Jessica E. Anderson*	Veronica L. Gilmartin	Richard A. Klopenstine**	Deborah J. Ryan**
Nancy L. Anderson*	Patricia A. Glidden*	Rebecca A. Konshak*	Suzanne V. Sala
<i>Magna Cum Laude</i>	Angela Godinho-Crook	Clover M. Kunau*	Sheryl A. Sanderson**
Karen D. Arment	David P. Grabowski**	David E. Langley**	David K. Schwartz
Shawn R. Banks	Bret E. Graham	Mara D. Laulo	Stephen D. Scott
Denise M. Brendell**	Liane I. Griffith	<i>Cum Laude</i>	Mark A. Smit
<i>Magna Cum Laude</i>	Sharon L. Grimshaw	Sharon P. Lawrence*	Andrew S. Smith**
James R. Bressler**	<i>Cum Laude</i>	Janine F. Leuthauser	Barbara A. Smith**
Barbara L. Broome**	William E. Gustkey*	Harvey E. McAninch*	Robert L. Sorenson
Donna L. Brown	Scott S. Hansen**	David W. McAtee	Virginia A. Stover**
James N. Brown**	John B. Harfert**	Donald L. McCardle**	Bonnie C. Talty**
Michele L. Brown	Deborah C. Hassler*	Daniel E. McGee	Stacie L. Taylor**
Thomas P. Brown	Lisa C. Hellbusch*	Kathleen A. Major	Gary L. Thompson*
Lance T. Cameron	<i>Magna Cum Laude</i>	<i>Cum Laude</i>	<i>Magna Cum Laude</i>
Kimberly J. Carpenter-Thomas	Donna J. Henderson	Donna J. Mason	Brian L. Throne
<i>Magna Cum Laude</i>	Linda M. Himes	Thomas E. Mattoon	Bethany A. Tozer*
Victoria S. Classen	Marion A. Hintz**	Sharon M. Meyer	Emma S. Tritt**
Lisa K. Collett**	Karin E. Hogberg	Jeffery A. Monken	<i>Magna Cum Laude</i>
Jo A. Condon	Susan E. Horst	James D. Moore	David S. Tyson
Thomas F. Corbin, III	Debra A. Houlden	Victor Morrison**	A. Josphe Varrone, Jr.**
Diane M. Damphousse**	Jesse E. Houston, Jr.	Ralph C. Muenchau*	Ray R. Wachter
Sandra J. Damron**	Russell C. Hunter	Edward F. Murrah	James E. Wagner, Jr.
Gail D. Danner**	Susan M. Hust	Linda J. Nicholous	Leighanna D. Ward
Albert W. Dolan**	Irene B. Janez	<i>Cum Laude</i>	Michael A. Ward**
Gloria E. Donnelly	<i>Cum Laude</i>	Dolores A. Ogawa	Denise A. Welmon
Mary D. D'Orazio**	Carol A. Janicek	Cheryl O'Gwynn	Susan E. White
Cheryl A. Duffy*	Michael E. Janitell**	Bryan J. Otte	Robert W. Wright*
Louise Eckrich*	<i>Cum Laude</i>	Peter C. Perkins**	Mark R. Yeadon
Karen L. Engel	Ellin D. Jensen**	Michael S. Poll	John V. Zavarelli
<i>Cum Laude</i>	<i>Magna Cum Laude</i>	Ellen L. Reasoner	Mark A. Zawacki
Shari A. Enger	Bobbie J. Johnson	Jean E. Reed**	
<i>Magna Cum Laude</i>	Ann M. Kalgren**	Ann G. Reeverts**	
	<i>Cum Laude</i>	<i>Cum Laude</i>	

SCHOOL OF EDUCATION

Dennis E. Mithaug, Dean

THE DEGREE BACHELOR OF SCIENCE (EDUCATION)

Elizabeth A. Bissey	Rebecca S. Green	Tammara E. Lyons	Casey C. Tencick
Darla M. Campbell	with special honors	with honors	with special honors
Mary J. Carleton	Gina M. Grogan	Lisa A. Magaw-Collier	Susan A. Tolzman
Jody S. Fahrenkrug	Janelle K. Heeke	Maureen A. O'Donnell*	with special honors
with honors	Tammy A. Kinnear	Shawn M. Puga	Ray T. Van Horn
Manijeh S. Forouzandeh	Rebecca S. Lovato	Kim M. Ruth	Kathleen F. Wenninger
with honors		Jamie M. Sigl	with special honors

COLLEGE OF ENGINEERING AND APPLIED SCIENCE

James H. Tracey, Dean

THE DEGREE BACHELOR OF SCIENCE

Ali A. Abdul-Karim, Computer Science	Nancy K. Hawk, Computer Science
Michael H. Alonso, Computer Science	James E. Hines, Electrical Engineering**
David B. Anderson, Computer Science	Robert V. Holland, Electrical Engineering
George Argos, Jr., Electrical Engineering	Jimmy R. Jenkins, Electrical Engineering*
Douglas C. Baker, Computer Science**	Richard K. Jessop, Applied Mathematics
George E. Barbera, Electrical Engineering	Mark F. Judiscak, Computer Science
Jerry K. Barnett, Electrical Engineering**	Donald M. Kemper, Jr., Computer Science**
Joseph R. Beaudoin, Jr., Electrical Engineering**	Karen L. Kidder, Computer Science
Kimberly A. Bitner, Computer Science	Richard G. Klingler, Jr., Electrical Engineering
Michael P. Bitner, Electrical Engineering**	Stephany A. Kozak, Applied Mathematics**
Robert J. Blanchette, Electrical Engineering**	William F. Lahey, Electrical Engineering**
Dennis A. Bone, Electrical Engineering*	Steven M. Mahone, Computer Science**
Nicholas J. Bourg, Electrical Engineering**	Louis Masucci, Electrical Engineering*
Arthur J. Boysen, Electrical Engineering	Susan P. McAdams, Electrical Engineering**
Jill A. Breckenridge, Electrical Engineering	Curtis L. McBride, Electrical Engineering
Pat Brus-Conley, Computer Science	Scott A. McDonnell, Electrical Engineering
with special honors	Michael L. Moats, Electrical Engineering
James H. Bundgaard, Electrical Engineering**	Kirk M. Moore, Computer Science
with honors	Delvin R. Neugebauer, Electrical Engineering
Mark T. Burbach, Electrical Engineering	Dzung X. Nguyen, Computer Science**
Paul E. Bussey, Electrical Engineering	Jerrold C. Pasley, Jr., Electrical Engineering
with special honors	Michael A. Phillips, Computer Science
Brian N. Chavet, Electrical Engineering*	Mark A. Preston, Electrical Engineering**
Paul S. Cheng, Electrical Engineering**	Anthony G. Randell, Electrical Engineering/Computer Science**
Alice E. Colson, Computer Science	Lawrence E. Roohr, Electrical Engineering
Robert N. Cooksey, Electrical Engineering**	Michael V. Schade, Computer Science**
Joseph J. Cotanch, Electrical Engineering**	Nikhil B. Shah, Electrical Engineering
Kenneth L. Cramer, Electrical Engineering**	Clark D. Short, Electrical Engineering
Kim G. Devane, Computer Science*	Mark L. Smith, Electrical Engineering**
Sandra J. Dix, Computer Science**	Allison B. Spector, Electrical Engineering**
Deborah A. Dye, Computer Science	Ralph J. St. John, Electrical Engineering**
with honors	Michael P. Stapleton, Computer Science
Rolf G. Eisenbeis, Electrical Engineering/Computer Science	Amy M. Stephens, Computer Science
Donald W. Erickson, Electrical Engineering/Computer Science*	with honors
Henry M. Fahey, Computer Science	Edward L. Strauch, Electrical Engineering**
with honors	Kenneth L. Sullivan, Applied Mathematics**
Ivor D. Frazier, Electrical Engineering**	Olivia M. Velasco, Computer Science
Barry S. Gamblin, Computer Science**	Edward T. Wall, Jr., Electrical Engineering
Floyd J. Glick, Electrical Engineering	David L. Wheeler, Electrical Engineering
Michaela M. Gonzalez, Computer Science	Philip J. Windholz, Electrical Engineering**
Clarissa K. Goschen, Electrical Engineering	with honors
Roger A. Grandpre, Electrical Engineering	Louis A. Winterfield, Jr., Electrical Engineering**
Andrew P. Hardy, Electrical Engineering**	with special honors
Maria T. Hasbun, Computer Science*	Scott Wittrock, Electrical Engineering*
Mark A. Hausman, Electrical Engineering*	with honors
	Jon D. Zobel, Jr., Electrical Engineering

GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

Philip R. Cateora, Acting Dean; Edward B. Oppermann, Acting Resident Dean

THE DEGREE MASTER OF BUSINESS ADMINISTRATION

Patricia L. Arreola	Barbara J. Geller*	Laurel A. Jones**	Joan R. Martin**	Roxanne Phillips**
Dan Blaylock**	Patti I. Goin**	Dennis M. Kaan	Gregg Maykowski**	Kaaren L. Riker
Margaret A. Bryson**	Sharon A. Grenz	Daniel E. Kane**	Lorrie A. McClellan	Gregory R. Schlabs
Robert G. Doerfler, Jr.	Steven M. Gurnett	Dennis P. Koehler**	Dennis P. McGuire	Joan L. Shulz**
Mark S. Elsner	Michael B. Guthrie**	Sandra V. Krieg*	John R. Nyhof	Cynthia D. Sparks
Cynthia A. Eppley**	Albert J. Guyot	Steven P. Landry**	Joan C. O'Brien	Randall C. Stempsey
Donna L. Felts	R. Scott Hooley**	Donna J. Lengyel	Jeanne I. Paling	Robert J. Wambach
Michael C. Gasparin*	Terrence C. James	Lela LeRoy	Walter Paul**	Ann L. Zenk**

GRADUATE SCHOOL OF PUBLIC AFFAIRS

Marshall Kaplan, Dean; Michael W. Spicer, Resident Dean

THE DEGREE MASTER OF PUBLIC ADMINISTRATION

Doris I. Bayles	David Felice*	Geffory B. Johnson	Janice M. Rabalais**
Patricia Bender	Michael J. Fitzgibbons*	Dave Kenyon**	Doris Ralston**
Sharon Berthrong	Joyce Fox**	Stephen P. Klett	Carol Russell
Ted Blach**	Thomas Gasser	Vera Langley	Marilyn Speer
Faustino Carreno	Ronald L. Gaston*	Mary Losik**	Richard Sullivan
Barbara Counts*	Michele Hanley	Bruce McCloskey**	Kevin Wagner**
Susan A. Emala			Regina Watson*

GRADUATE SCHOOL

Hunter R. Rawlings, Dean; Joan M. Fairchild, Resident Dean

THE DEGREE MASTER OF ARTS

Elaine R. Adams, Education*	Jeremiah M. Gallagher, Education	Mary A. Natchez, Psychology**
Wendy J. Allor, Education**	Claudia A. Gallegos, Education	Barbara L. Neilon, History**
Clare L. Alsko, Education	Valerie E. Garcia, Education	Donna B. Norfleet, Psychology**
Susan J. Ault, Education	Leslie A. Garrity, Education	Deborah A. O'Brien, Education*
Diane M. Ball, Education*	Robert L. Gonzales, Education*	Carol J. Odell, Education*
Jerry L. Ball, Education*	Catherine Grace, Education	Stephen R. Paul, Sociology**
Pamela P. Bendele, Education	Doris K. Hammond, Education*	Helen J. Peterson, Education*
Steve R. Benson, Education*	Marie E. Haney, Education**	Michelle A. Peterson, Education
Theresa A. Biava, Education*	Judith K. Hansen, Education	Alta R. Poppe, Education
Sarah F. Binder, Education	Judith D. Hawkins, Education	Edmond D. Quesada, Education
James L. Bingham, History	Kenny L. Hazelip, Education	Patricia S. Quinn, Education
Gregory C. Biondi, Education	James T. Heaton, Sociology*	Kelli J. Robbins, Education
Laurie J. Boschen, Sociology*	Kimberly H. Hennion, Psychology	Germaine D. Roberts, Education
Judith Bowman, Psychology**	Cheryl L. Hilton, Education*	Thomas N. Roberts, Sociology
Duane D. Bracken, Psychology*	Franka L. Hopwood, Education	Joan C. Ross, Education**
Catherine A. Bradshaw, Education	Bonnie T. Horner, Education*	Bonnie K. Schamback, Education
Mary B. Brown, Education**	Darlene L. Howe, Education*	Sharon M. Schwartz, Education
Rachel H. Brown, Education	Christine A. Johnson, Education*	Lorraine M. Schwellenbach, Psychology**
Carol P. Brownell, Sociology*	Laila S. Johnson, Education*	Anthony K. Scott, Education
Lisa Campbell, Education	Barbara L. Jones, Education**	Steven S. Seals, Education
Kevin J. Chalfant, Education**	Mary S. Kennedy, Education	Carole A. Sebben, Education
Gloria C. Chiunti, Education**	Chip I. King, Education*	Abigail A. Seibert, Education*
Mirjana Churchill, Sociology	Gail M. Kinsey, Education	James E. Shatto, History**
Dinah S. Choi, Education	Philip B. Knight, Education**	Diana L. Sirko, Education*
Avis B. Cook, Education*	Deanna G. Lang, Education	Cheryl A. Smith, Education
Vivian W. Cook, Education**	Joyce M. Larson, Education	Hollis W. Smith, Education*
Corinne M. Cooper, Education	Roy H. Larson, Education**	Richard D. Stratton, Education*
Michael H. Craine, Education	Joseph H. Livergood, Education*	Judy L. Strong, Education*
Robert B. Danin, Education	Anne M. Loochtan, Education**	Sandra A. Suddarth, Education**
Constance Davis, Education**	Harriet E. Lubchenco, Education*	Marianne T. Tedone, Education*
Deborah A. Dawson-Jones, Education	Sherry D. Martin, Education	Lorraine Thorson, Education*
Donald G. Dinwoodie, Education	Jo A. Majors, Education**	Elizabeth M. Uhlig, History**
John C. Drew, Education	Rose M. Martin, Education*	Barbara A. Van Flein, Education*
Salvador G. Espinosa, Education*	Sharon D. Mauro, Education**	Judy L. Vander Molen, Education
Amy H. Fetters, Education	Noe Maza, Education**	Nancy J. Vickerman, Education
Carolyn P. Fisher, Education*	Tamara A. McCammon, Education**	Kathleen F. Voelsing, Education
Judy T. Fogle, Education**	Michael J. McKay, Sociology	Patricia J. Watson, Education*
Helen M. Foster, Education	Janice M. McKenzie, Education**	Cynthia A. Wenzel, Education
Angela D. Francisco, Education*	Ewa R. Meoni, Education	James R. Williams, Education
Karen E. Frank, Education*	Marianne J. Michaux, Education*	Kathi J. Williams, Education
		Kathryn A. Zenthoef, Education**

THE DEGREE MASTER OF BASIC SCIENCE

Linda L. Coughlin John M. Hilb Lori A. Houser

THE DEGREE MASTER OF SCIENCE

Sohail Aslam, Computer Science**	Christopher Freymuth, Electrical Engineering*	Gary W. Reneau, Computer Science
Thomas A. Black, Computer Science	Hans D. Heinzer, Computer Science**	Janet W. Reinking, Computer Science**
Albert A. Brouillette, Computer Science	Donald A. Kelly, Electrical Engineering*	R. Daniel Resler, Computer Science**
Thomas H. Brown, Electrical Engineering**	Richard A. Laubhan, Electrical Engineering	Ruth M. Scott, Electrical Engineering**
D. Scott Campbell, Computer Science*	Nancy A. Levit, Computer Science	Mark A. Taylor, Computer Science
Donald R. Fraser, Electrical Engineering**	Lee Neuwirth, Electrical Engineering	Jerome T. Weiler, Applied Mathematics
		Mohammad-Reza Youssefi, Electrical Engineering

*Graduated August 1985 **Graduated December 1985

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

Charlotte D. Alvarenga	Wendy M. Guyant	Tarek A. Mekhail
Christian Bloch	Michael K. Kightlinger	John Reese
Michael D. Crandell	Martin A. Klein	Anthony J. Zavarelli
		John V. Zavarelli

HONORARY DEGREE

JOHNNY SMITH

JOHNNY SMITH, world renowned guitarist, composer and musical arranger, has spent nearly forty years in the mainstream of American popular music.

As a performer he has recorded more than twenty albums. He has been featured with many of the great jazz musicians of the century, including Benny Goodman, Bing Crosby, Gene Krupa, Django Reinhardt, Chet Atkins, Count Basie, Roy Clark, Stan Kenton and Stan Getz. His performances with the NBC Symphony Orchestra under both Dimitri Mitropoulos and Arturo Toscanini are legendary in the world of music.

His musical arrangements and compositions were heard for many years on NBC television programs like "The Fireside Theater" and "The Dave Garroway Show." He has also appeared with the New York Philharmonic, the City Center Opera and has been broadcast on ABC and CBS.

Several of his instructional techniques, outlined in "The Johnny Smith Approach to Guitar," especially in

harmonic voicings and progressions are extremely influential and continue to have far reaching implications for the development of the jazz guitar.

A native of Birmingham, Alabama, he has made Colorado Springs his home since 1958. One of his more esoteric accomplishments was a new guitar design adapted by guitar makers at the Gibson Company and now known as the Johnny Smith guitar.

The winner of *Downbeat* magazine jazz polls in 1954, 1955 and 1956, he has stimulated a great deal of musical interest among young people throughout Colorado. He has played often at schools and colleges in the state and throughout the nation. Many of the country's leading guitar players have received his personal tutoring.

In recognition of his accomplishments and for his dedicated work in the world of contemporary music, the Board of Regents is pleased to present Johnny Smith with the degree of Doctor of Humane Letters, *honoris causa*.

University of Colorado Medal

THOMAS A. SAPONAS

THOMAS A. SAPONAS is the Engineering Manager of the Colorado Springs Division of Hewlett-Packard, heading the branch effort in research and development. A staunch and longtime supporter of the University of Colorado, he graduated from UCCS with B.S. and M.S. degrees in Electrical Engineering from the College of Engineering and Applied Science

A member of the Dean's Engineering Advisory Council for many years, his countless hours spent in service to the University have been beneficial in moving forward the partnership between UCCS and the Colorado Springs business and high-technology communities.

He has led a major effort within Hewlett-Packard to secure the most recently produced and currently available high-technology equipment donations for the College. His efforts have significantly enhanced the academic, scholarly and research excellence in the College of Engineering and

Applied Science enabling it to become one of the finest and best equipped for its size in the nation. His leadership in this area has been critical in the support of the new Master of Science degree offering in Computer Science because it has helped to establish the reputation and credibility of the new program.

He exemplifies a new type of UCCS alumnus whose service to the campus extends far beyond advising sessions into the realm of public speaking and advocacy on behalf of the University.

His strong personal commitment to the University, enhancing the alliance between the academic and business communities, is gratefully acknowledged by the Board of Regents in the presentation of the University of Colorado Medal to Thomas A. Saponas for the dedication and service that he has rendered to his alma mater.

University of Colorado Thomas Jefferson Award

ROBERT P. LARKIN

ROBERT P. LARKIN'S ideals are founded on the same broad principles as those of Thomas Jefferson. His career embodies the Jeffersonian ideal of a true democracy where the common person is given the education and opportunity to make a genuine contribution to life and become an active participant in the decision-making processes of society.

A Professor of Geography and Environmental Studies on the Colorado Springs campus since 1974 his primary teaching and research responsibilities have been complimented by his civic-minded work with senior citizens and the physically disabled in the city and around the country. Director of the UCCS Center on Aging, he has been called "the archetype of the academic" who brings knowledge and the joy of learning to the people who would not normally be exposed to new ideas and knowledge.

The recipient of numerous awards and grants from the National Science Foundation, the President's Council on

the Humanities, the National Endowment for the Humanities and the Colorado Endowment for the Humanities, among others, he most recently received two prestigious awards in 1985: the UCCS Chancellor's Award and the Colorado Endowment for the Humanities Award for Outstanding Achievement in the Humanities.

As the University of Colorado faculty member who most advances the Jeffersonian ideals of a broad interest in the arts, sciences and public affairs and demonstrates a deep commitment to the rights and welfare of the individual, as the individual who stands for Jefferson's words of "the diffusion of knowledge among the people," the Board of Regents are pleased to present the University of Colorado Thomas Jefferson Award to Robert P. Larkin, the first UCCS professor in the twenty-year history of the Colorado Springs campus to receive this high distinction.

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."

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 breakthrough of understanding.

The chain surrounding these pendants symbolizes the endless but ever-changing circle 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 male Greek classical 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.

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.

ACKNOWLEDGEMENT

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

