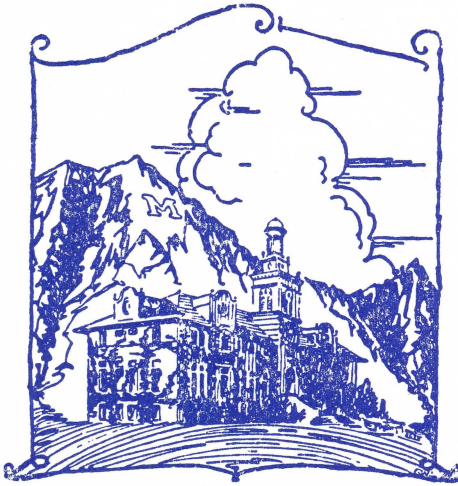


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VAULT



**Ninetieth  
Annual  
Commencement**

**COLORADO SCHOOL OF MINES**

**GOLDEN, COLORADO**

Red Rocks Amphitheater

**Friday, June Fifth**

Nineteen hundred sixty-four at ten o'clock

— — —  
**BOARD OF TRUSTEES**

Ben H. Parker, Golden

Kenneth R. Fenwick, Golden

Ted P. Stockmar, Denver

Joseph Coors, Golden

Edwin J. Eisenach, Frisco

# PROGRAM

1964

\*Processional

Mrs. Robert W. Newton, Organist

Star Spangled Banner

Mrs. Robert W. Newton, Organist

Invocation

The Reverend Bruce P. Moncrieff  
Calvary Episcopal Church  
Golden, Colorado

Address—"The Promise of a Profession"

Mr. Morgan J. Davis

Presentation of Class of 1964 to the Board of Trustees

President Orlo E. Childs

Acceptance of Class

Dr. Ben H. Parker, President  
Board of Trustees

Conferring of Engineering Degrees

President Orlo E. Childs

Presentation of Candidates for Graduate Degrees

Dean A. Raymond Jordan

Conferring of Graduate Degrees

President Orlo E. Childs

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\*The audience will please be seated during the processional.

## PROGRAM

1964

Presentation of Commissions, Corps of Engineers, U. S. Army  
to Graduates of Reserve Officers Training Corps  
Colonel William E. Leckie

Presentation of Medals for Distinguished Achievement  
Dr. Ben H. Parker, President  
Board of Trustees

Presentation of the van Diest Gold Medal  
President Orlo E. Childs

Recognition of the Golden Anniversary of the Class of 1914  
President Orlo E. Childs

Recognition of Service  
President Orlo E. Childs

Recognition of Student Prizes  
Dean Truman H. Kuhn

Conferring of Honorary Degree  
President Orlo E. Childs

Benediction  
The Reverend Bruce P. Moncrieff

\*Recessional  
Mrs. Robert W. Newton, Organist

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\*The audience will please be seated during the recessional.

# Class of 1964

June 5, 1964

## WITH HIGHEST SCHOLASTIC HONORS

Max Peter Rohde.....*Essen-Ruhr, Germany*

## WITH HIGH SCHOLASTIC HONORS

Kent Abram Fanning.....*Denver, Colorado*

Boyd David Watkins.....*Littleton, Colorado*

James T. Rheinheimer.....*Littleton, Colorado*

Christopher Allen Griffis.....*Houston, Texas*

Harold Carl Heinze.....*Flushing, New York*

## ENGINEER OF MINES

Anthony Clark Austin.....*Golden, Colorado*

Armine Frederick Banfield, Jr.....*South Norwalk, Connecticut*

Carl DeWitt Broadbent.....*Golden, Colorado*

Frank J. Buturla, Jr.....*Glendale, West Virginia*

Terry Leland Campbell.....*Louisville, Kentucky*

Saw Richard Chain.....*Insein, Burma*

Donald Richard Clarke.....*Ardsley, New York*

Eugene Baylor Colvard.....*Sterling, Colorado*

William Shafer Devine.....*Wayne, New Jersey*

†Rahim Ettehadieh.....*Tehran, Iran*

Clifford Clement Graber II.....*Ontario, California*

Lawrence Joel Gralla.....*Studio City, California*

†Thomas Lloyd Hughes.....*Mountain Lakes, New Jersey*

Milvoy James Janeck.....*Steamboat Springs, Colorado*

Franklin Fay Jones.....*Yampa, Colorado*

Robert Gary Lundquist.....*Denver, Colorado*

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†Completed work January 31, 1964

Frederick K. Maxeiner.....	<i>Rock Island, Illinois</i>
*James Thomas Rheinheimer.....	<i>Littleton, Colorado</i>
Robert Howard Robinson.....	<i>Kabul, Afghanistan</i>
**Max Peter Rohde.....	<i>Essen-Ruhr, Germany</i>
†Robert K. Rooke.....	<i>Denver, Colorado</i>
Dale D. Teeters.....	<i>Napa, California</i>
Henry Albert Truebe.....	<i>Mahopac, New York</i>
†Michael Alfred Watson.....	<i>Ballinger, Texas</i>
Edwin James White.....	<i>Golden, Colorado</i>
†Bleeker Rathbone Williams, Jr.....	<i>Ridgewood, New Jersey</i>
Carl Lawrence Williams.....	<i>Colorado Springs, Colorado</i>

#### METALLURGICAL ENGINEER

Gerald Damon Bahensky.....	<i>Wichita, Kansas</i>
Jeffrey Jackson Bell.....	<i>Ogden, Utah</i>
Charles Fredrick Berndt.....	<i>Grand Rapids, Michigan</i>
John William Carlson II.....	<i>Pueblo, Colorado</i>
Richard L. Clark.....	<i>Denver, Colorado</i>
Daryl C. Dickerhoff.....	<i>Trinidad, Colorado</i>
John D. Ellis, Jr.....	<i>Orlando, Florida</i>
Richard Jack Erfurdt.....	<i>Morrison, Colorado</i>
John Robert Feeley, Jr.....	<i>Orrington, Maine</i>
Thomas Arnold Freese.....	<i>Chicago, Illinois</i>
Walter Jefferson Frost, Jr.....	<i>Pueblo, Colorado</i>
J. Michael Galloway.....	<i>Tulsa, Oklahoma</i>
†Max Leroy Glenn.....	<i>Denver, Colorado</i>
Robert J. Governski.....	<i>Denver, Colorado</i>
*Christopher Allen Griffis.....	<i>Houston, Texas</i>
Ivor Guest Hanson.....	<i>Ithaca, New York</i>

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\*\*Highest Scholastic Honors

\*High Scholastic Honors

†Completed work January 31, 1964

George Gary Heiser.....	<i>Saratoga, California</i>
Karl Way Herrala.....	<i>Walnut Creek, California</i>
Bruce Avon Hersey.....	<i>Saugus, Massachusetts</i>
Errol Kent Hudson.....	<i>Monte Vista, Colorado</i>
Jan L. Krankota.....	<i>Denver, Colorado</i>
Richard Edward Leitner.....	<i>Denver, Colorado</i>
John Frederick Lohmiller.....	<i>Davenport, Iowa</i>
Jerry Ward McClure.....	<i>Montrose, Colorado</i>
Grant George Owen.....	<i>Downey, California</i>
Jerry Lee Peterson.....	<i>Loveland, Colorado</i>
John Lester Rutherford, Jr.....	<i>West Des Moines, Iowa</i>
†Eugene Joseph Rutkoski.....	<i>Arlington, Virginia</i>
Alan Dean Schedlbauer.....	<i>La Junta, Colorado</i>
John Charles Schmidt.....	<i>Inglewood, California</i>
†Robert William Schneider.....	<i>Denver, Colorado</i>
Arvid H. Sorensen II.....	<i>Westminster, Colorado</i>
Robert Van Strain.....	<i>La Junta, Colorado</i>
Charles Vincent Taylor.....	<i>Smithers, West Virginia</i>
Norman J. Thompson.....	<i>Boulder, Colorado</i>
Anthony Wayne Worcester.....	<i>Philadelphia, Pennsylvania</i>

#### GEOLOGICAL ENGINEER

A. David Alcott.....	<i>St. Petersburg, Florida</i>
William Ian Berke.....	<i>Dayton, Ohio</i>
Kelsey Boltz.....	<i>Tempe, Arizona</i>
John Briedis.....	<i>Beacon, New York</i>
Albert Peter Geyer, Jr.....	<i>West Islip, New York</i>
Jeffrey Dudley Goodman.....	<i>Town of Rye, New York</i>
†Robert Craig Goodmundson.....	<i>Oakland, California</i>
James R. Holley.....	<i>Glen Rock, Pennsylvania</i>

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†Completed work January 31, 1964

John Willis Lindemann..... *Englewood, Colorado*  
Russell Staley Powers..... *Chappaqua, New York*

### PETROLEUM ENGINEER

Kenneth Lee Ancell..... *Burlington, Colorado*  
Gary Edward Burtchaell..... *Hillsborough, California*  
Stephen Douglas Chesebro'..... *Tulsa, Oklahoma*  
Lloyd Ray Chism..... *Rangely, Colorado*  
Stanley E. Dobler..... *Burlington, Colorado*  
Clifford Wayne Hawk..... *Hedrick, Iowa*  
Ronald Ernest Hedges..... *Bethesda, Maryland*  
\*Harold Carl Heinze..... *Flushing, New York*  
Vernon Arthur Isaacs, Jr..... *Cucata, Columbia*  
Donald Melvin Johnson..... *Golden, Colorado*  
Weston Kilian Mauz..... *Denver, Colorado*  
Thomas Owen Morgan..... *Cos Cob, Connecticut*  
†Terry LeRoy Ramsey..... *Borger, Texas*  
Scott Terry Riley..... *Springfield, Colorado*  
Frank Alexander Salwerowicz..... *New York, New York*  
Gordon Louis Scheig, Jr..... *Aspen, Colorado*  
Robert Edwin Sidwell..... *Pampa, Texas*  
Richard Carl Smith..... *Stratton, Colorado*  
Richard William Webb..... *Arvada, Colorado*  
Juanita Annette Williams..... *Kittredge, Colorado*

### PETROLEUM REFINING ENGINEER

LeRoy Paul Berti..... *Colorado Springs, Colorado*  
Bruce George Bramley..... *Abilene, Texas*

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\*High Scholastic Honors

†Completed work January 31, 1964

Harold Carver Capshaw III.....	<i>Tulsa, Oklahoma</i>
Donn Lewis Dixon.....	<i>South New Berlin, New York</i>
Douglas Franklin Farris.....	<i>Golden, Colorado</i>
David Norris Harrison.....	<i>Eads, Colorado</i>
Lane Carrol Lummus.....	<i>Orcutt, California</i>
Dudley James McCracken, Jr.....	<i>Spokane, Washington</i>
William L. McDonnell.....	<i>Hollidaysburg, Pennsylvania</i>
Lloyd James Nordhausen.....	<i>Glenwood Springs, Colorado</i>
Charles Curtis Petty.....	<i>Westminster, Colorado</i>
†James Roy Sanchez.....	<i>Deer Trail, Colorado</i>
Francisco David Tejera.....	<i>Havana, Cuba</i>
Ralph Evans Townsend.....	<i>Wheat Ridge, Colorado</i>
†Vernon David Van Sant.....	<i>Jamestown, California</i>
Ronald Fredric Weiszmann.....	<i>Chicago, Illinois</i>

#### GEOPHYSICAL ENGINEER

Roger Gilbert Baker.....	<i>Lamar, Colorado</i>
George Lee Brinkworth.....	<i>Burbank, California</i>
Richard Dwight Crippin.....	<i>Denver, Colorado</i>
George Clark Davenport.....	<i>Wellesley, Massachusetts</i>
Jon Alan Ferris.....	<i>Tulsa, Oklahoma</i>
Herbert Francis Gammons.....	<i>Lorain, Ohio</i>
Donald Maxwell Gerwin.....	<i>Yonkers, New York</i>
David Brent Hackman.....	<i>West Chester Pennsylvania</i>
Floyd Shuichi Ito.....	<i>Denver, Colorado</i>
Terrance Stafford Rouse.....	<i>Saratoga Springs, New York</i>
Spencer Hoffman Wood.....	<i>Portland, Oregon</i>
Robert Henry Writz, Jr.....	<i>West Nyack, New York</i>

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†Completed work January 31, 1964



### MINERAL ENGINEER—CHEMISTRY

*Kent Abram Fanning.....	<i>Denver, Colorado</i>
Lawrence Lee Murrell.....	<i>Denver, Colorado</i>
William Edward O'Grady.....	<i>Denver, Colorado</i>
David Galen Reese.....	<i>Kemmerer, Wyoming</i>
Ronald Alan Wedemeyer.....	<i>Pueblo, Colorado</i>

### MINERAL ENGINEER—MATHEMATICS

Craig Randall Hutchinson.....	<i>Titusville, Pennsylvania</i>
Douglas Von Sanders.....	<i>Houston, Texas</i>

### MINERAL ENGINEER—PHYSICS

Donald Lewis Bingham.....	<i>Lakewood, Colorado</i>
James Donathan Dunn.....	<i>Tulsa, Oklahoma</i>
Douglas Frank Miller.....	<i>Pueblo, Colorado</i>
Gary Dean Porter.....	<i>Sidney, Nebraska</i>
William Quentin Sumner.....	<i>Arvada, Colorado</i>
Stephen James Tyley.....	<i>Denver, Colorado</i>
James Everett Wasinger.....	<i>Lakewood, Colorado</i>

**July 18, 1964**

### ENGINEER OF MINES

Carl Gene Consalus.....	<i>Grand Junction, Colorado</i>
Robert Richard Roenicke.....	<i>Toronto, Canada</i>

### METALLURGICAL ENGINEER

Richard Kannaly Doran.....	<i>Chagrin Falls, Ohio</i>
Edward Albert Faeth.....	<i>South Pasadena, California</i>
John Harry Jones.....	<i>Denver, Colorado</i>

### PETROLEUM REFINING ENGINEER

John Harland Gray.....	<i>Denver, Colorado</i>
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### MINERAL ENGINEER—PHYSICS

Lee Gordon Findley.....	<i>Tucson, Arizona</i>
Thomas Philip Hansen.....	<i>Sacramento, California</i>
Floyd Emory Snyder.....	<i>Elizabethsville, Pennsylvania</i>
*Boyd D. Watkins.....	<i>Littleton, Colorado</i>

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\*High Scholastic Honors

September 12, 1964

ENGINEER OF MINES

Allan Kent Bowles.....*Denver, Colorado*  
Robert David Carnes.....*Bessemer, Alabama*  
John Harold Fatum.....*St. Jacobs, Ontario, Canada*  
Martin George Olsen.....*North Merrick, New York*  
Barrett Ernest Gilmour Sleeman.....*High River, Alberta, Canada*  
Lawrence Eugene Welborn.....*Dacca, East Pakistan*

METALLURGICAL ENGINEER

Daniel Keith Fix.....*Wray, Colorado*  
Robert Francis Geisendorfer.....*Golden, Colorado*  
Albert John Getz.....*Morristown, New Jersey*  
William J. Kovacs.....*Long Island, New York*  
Ronald Wayne Nokes.....*Denver, Colorado*  
Thomas Frank Phillip.....*Bethlehem, Pennsylvania*  
Lee Alan Seymour.....*Chicago, Illinois*  
Gerald Lee Strecker.....*Arvada, Colorado*

GEOLOGICAL ENGINEER

Frank James Anderson.....*Wilmette, Illinois*  
Charles Cecil Hammill, Jr.....*St. Petersburg, Florida*

PETROLEUM ENGINEER

Ronald Bruce Mellor.....*Billings, Montana*  
Arthur Victor Petersen.....*Omaha, Nebraska*

GEOPHYSICAL ENGINEER

Del W. Callicotte.....*Denver, Colorado*

MINERAL ENGINEER—PHYSICS

Carlton H. Aspin.....*Rochester, Massachusetts*  
Gregory Wayne McIlvain.....*Lakewood, Colorado*

## Class of 1964

### MASTER OF SCIENCE

#### DEPARTMENT OF MINING ENGINEERING

Ramon E. Bouche.....*David, Republic of Panama*  
Samuel Shaw III.....*Golden, Colorado*

#### DEPARTMENT OF METALLURGICAL ENGINEERING

Bernard M. F. Perinne.....*Paris, France*  
L. Raul Reyes A.....*Bucaramanga, Colombia, S. A.*

#### DEPARTMENT OF GEOLOGICAL ENGINEERING

Daniel E. Karig.....*Flintridge, California*  
Dennis Duff Stewart.....*Hopewell, New Jersey*

#### DEPARTMENT OF PETROLEUM ENGINEERING

Ching Huang Wu.....*Miaoli, Taiwan, Free China*

#### DEPARTMENT OF PETROLEUM REFINING ENGINEERING

Guido Gatchalian Advincula, Jr.....*Manila, Philippine Islands*  
Elwyn Shimoda.....*Denver, Colorado*

#### DEPARTMENT OF GEOPHYSICAL ENGINEERING

Clyde William Kerns, Jr.....*Denver, Colorado*  
James I. Pritchard.....*Tulsa, Oklahoma*  
Jimmy J. Jacobson.....*Buffalo, Wyoming*

#### INTERDISCIPLINARY PROGRAM

#### CHEMISTRY AND PETROLEUM REFINING ENGINEERING

James Wright Hobbs.....*Wichita Falls, Texas*

### DOCTOR OF SCIENCE

#### DEPARTMENT OF MINING ENGINEERING

Charles John Haas.....*Platteville, Wisconsin*

#### DEPARTMENT OF METALLURGICAL ENGINEERING

Wilbur J. Guay.....*Butte, Montana*  
Mohamed Rafik M. Soliman.....*Cairo, Egypt*

#### DEPARTMENT OF GEOPHYSICAL ENGINEERING

Alfred H. Balch.....*Littleton, Colorado*  
Wilfred P. Hasbrouck.....*Arvada, Colorado*

## PRIZES

A Brunton transit for meritorious work in mining engineering, provided by the late Hon. D. W. Brunton, to *Max Peter Rohde*.

The William D. Waltman Award to the graduating senior "whose conduct and scholarship have been most nearly perfect and who has most nearly approached the recognized characteristics of an American gentleman," awarded by the late Mr. William D. Waltman, '99, to *Harold Carl Heinze*.

A prize of twenty-five dollars to a senior in petroleum refining engineering who has demonstrated by scholarship, personality, and integrity of character, the general potentialities for a successful industrial career, awarded by Mr. Harrison L. Hays, '31, to *Lloyd J. Nordhausen*.

A Brunton transit to be awarded to a senior in mining engineering who "in completing the course in mining engineering has made the most progress in his school work during the entire period for which the course is given," provided by the late Charles N. Bell, '06, to *Carl Dewitt Broadbent*.

A membership in the American Chemical Society for meritorious work in chemistry, presented by Robert A. Baxter, Professor Emeritus, to *Lawrence Lee Murrell*.

Clark B. Carpenter Award to a graduating senior in the metallurgy or mining option of the Colorado School of Mines, who in the opinion of the seniors in the metallurgy and mining options and the professors in charge of the respective departments, is the most deserving of the award, to *Carl Dewitt Broadbent*.

A prize of twenty-five dollars to the senior athlete at the Colorado School of Mines who has contributed the most to athletics, presented by Mr. and Mrs. John C. Burt, to *George Lee Brinkworth*.

Cecil H. Green Award. "A gold medal to the graduating senior student in geophysical engineering who, in the opinion of the Department of Geophysics and the Administration, has attained the highest rating in the combination of scholastic attainment, personality, and integrity," to *George Lee Brinkworth*.

An award by the Rocky Mountain Association of Geologists for outstanding scholastic achievement and exemplary conduct in Geological Engineering, to *John Willis Lindemann*.

Robert F. Aldredge Memorial Prize, an award of fifty dollars to the graduating senior in geophysics who has attained the highest scholastic average in geophysical courses, to *Spencer Hoffman Wood*.