Graduate Commencement  
May 12, 2016 | Marv Kay Stadium, Golden, Colorado

Anthem from the “CSM Commemoration Overture”
Processional
Welcome
Dr. Paul C. Johnson, President
National Anthem
The CSM Natural Miners
Student Address
Address
Senator Owen Hill
Presentation of the Class of 2016 to the Board of Trustees
Dr. Paul C. Johnson
Acceptance of Class
Mr. James Spaanstra
Presentation of Candidates for Graduate Degrees
Dr. Thomas Boyd, Provost
Conferring of Graduate Degrees
Dr. Paul C. Johnson
Announcement of Masters Degree Recipients
Dr. Bettina Voelker, Dean of Graduate Studies
Announcement and Hooding of Doctoral Degree Recipients
Dr. Anthony M. Dean, Vice President for Research
Presentation of Rath Research Award
Dr. Bhatka B. Rath, Associate Director of Research for Materials Science and Component Technology, Naval Research Lab
President’s Remarks
Dr. Paul C. Johnson
Alma Mater
The CSM Natural Miners
Recessional
(Audience is requested to stand and remain in place)

All graduates will be photographed by a professional photographer after receiving their diplomas. Proofs will be emailed to each graduate; copies may be ordered directly from the photographer.
MASTER OF ENGINEERING CLASS OF 2016
MASTER OF SCIENCE

College of Earth Resource Sciences and Engineering
Dr. Ramona M. Graves, Dean

Mining Engineering Department
Dr. Priscilla P. Nelson, Department Head

Master of Engineering Engineer of Mines
Yu-Ting Yu
Taipei, Taiwan

Master of Science Mining and Earth Systems Engineering
Vinay Duddempudi
Vijayawada, India
Zoheir Khademian
Shaveh, Iran
Chelsea A. Pomeroy
Centennial, Colorado
Matthew C Schreiner
Hamburg, New York

Geology and Geological Engineering Department
Dr. Paul Santi, Department Head

Professional Master Mineral Exploration
Chelsea A. Pomeroy
Blanca, Colorado
Jacob A. Smith

Master of Science Geological Engineering
Ethan James Faber
St. Louis, Missouri
Benjamin David Haugen
Rapid City, South Dakota
Jacquelyn A Negri
Bedford, New Hampshire
Joshua Charles Stewart
St. Marys, Canada

Master of Science Geology
Steffen Michael Ball
Milan, Michigan
Stephen W. Brennan
Pittsburgh, Pennsylvania
Benjamin A. Dellenbach
Denver, Colorado
Hannah Marie Durkee
Gilcrest, Colorado
Isabel Alida Gary
Boise, Idaho
Andrew Joseph Graham
Denver, Colorado
Joshua Charles Stewart
Tulsa, Oklahoma

Master of Science Hydrology
Anthony M. Actis
Colorado Springs, Colorado
Aaron Jacob Bandler
Medford, Oregon
Allison Johnston
Concord, California

Petroleum Engineering Department
Dr. Erdal Ozkan, Department Head

Master of Engineering Petroleum Engineering
Rammy Mohammed Al-Abssi
Denver, Colorado
Samer Mohammed Al-Abssi
Denver, Colorado
David Jay Bourquin
Glenwood Springs, Colorado
Kaitlyn R. Gilbert
Eagle River, Alaska
Ryan Andrew Paldanian
Golden, Colorado
Samuel D Schweitzer
Greenwood Village, Colorado

Master of Science Petroleum Engineering
Jingwei Huang
Xuzhou, China
Asm Kamruzzaman
Dhaka, Bangladesh
Kurt Peter Livo
Lakewood, Colorado
Thanh Ngoc Nguyen
Sai Gon, Vietnam
Andre Paul Panfiloff
Seattle, Washington
Andrew John Rixon
Deerfield, Illinois
Carver Haentjens Stone
Parker, Colorado
Di Zhang
Qing Yang, China
Mengnan Zhou
Beijing, China
Ziming Zhu
Dongying, China

Geophysics Department
Dr. Terence K. Young, Department Head

Professional Masters Petroleum Reservoir Systems
Michelle Elyse Rigsby
Houston, Texas
Darcy Kathleen St. Aubin
Wheat Ridge, Colorado

Master of Science Geophysics
Ben Peter Andrews
Port Isaac, United Kingdom
Jennifer Felicity Brush
Rancho San Margarita, California
Emily Susan Butler
Plano, Texas
Jarred Daniel Eppehimer
Madisonville, Louisiana
Alexandra Kate Grazulis
Palmer, Alaska
Alexandria Nicole Mabrey
The Woodlands, Texas
Staci Kathleen Mueller
Billings, Montana
Matthew William Paskvich
Stuarts Draft, Virginia

Economics and Business Division
Dr. Michael Walls, Division Director

Master of Science Engineering and Technology Management
Raphael Somayina Akaeze
Ogwashi-Uku, Nigeria
Joshua Neil Bacon
Farmington, New Mexico
Anthony Nicholas Boyd
Tempe, Arizona
Kodi C. Burns
Castle Rock, Colorado
Ryan Donovan Call
Henderson, Nevada
Scott Caywood
San Jose, California
Joseph Michael Corder
Aurora, Colorado
Adam Wayne Duran
Littlerock, Colorado
Benton R. Ellis III
Dallas, Texas
Parker R. Fawcett
Fort Collins, Colorado
Connor Austin Fritcher
Houston, Texas
Kyle James Gilbert
San Diego, California
Margaret Mary Golz
Carbondale, Illinois
Matthew Patrick Hamilton
Denver, Colorado
Joshua Forrest Hoffman
Johnstown, Colorado
Jacob Warren Kirkley
Golden, Colorado
Melinda Leann Krebs
Plano, Texas
Hea Jung Lee
Seoul, South Korea
Grant Thomas Maloney  
Joshua Ben Martinez  
Tanner M. McManus  
Oluwaseun Babatunde Ogunmodede  
Adam L. Pring  
Andrew William Renfrew  
Benjamin Paul Shideler  
James Woo  

Grant Thomas Maloney Denver, Colorado  
Joshua Ben Martinez Highlands Ranch, Colorado  
Tanner M. McManus Greeley, Colorado  
Oluwaseun Babatunde Ogunmodede Castle Rock, Colorado  
Adam L. Pring Colorado Springs, Colorado  
Andrew William Renfrew Colorado Springs, Colorado  
Benjamin Paul Shideler Silt, Colorado  
James Woo Los Angeles, California

Master of Science  
Mineral and Energy Economics  
Fernando Jose Alvarado Blohm Caracas, Venezuela  
James Bradley Becker Lake Milton, Ohio  
Stephanie Marie Berry Detroit Lakes, Minnesota  
Weston Shea Carloss Lakewood, Colorado  
Ivan Bryce Goskirk Oakland, California  
Andrew Logan Gulley Silet, Colorado  
Charles Barrett Hepper Norfolk, Virginia  
Joel Christopher Leonard Littleton, Colorado  
Daze Li Zhengzhou, China  
Franz Dennis Martinez Monrovia, Liberia  
Joseta S. Neufville Fairfield, Connecticut  
Kelly Elizabeth Shanley Missoula, Montana  
Jaren Dell Eugene Williams

College of Applied Science and Engineering  
Dr. Michael J. Kaufman, Dean  

George S. Ansell Department of Metallurgical and Materials Engineering  
Dr. Ivar Reimanis, Department Head  

Master of Engineering  
Metallurgical and Materials Engineering  
Adam Paul Solomon Orinda, California  
Master of Science  
Materials Science  
Chaudhry Ali Usman Lahore, Pakistan  
Master of Science  
Metallurgical and Materials Engineering  
Ana Luiza Azevedo de Araujo Ouro Preto, Brazil  
Camille Marie-Pauline Fleuriault Saintes, France  
Bernard Fosu Kenyasi, Ghana  
John William Friesinger Wilmington, North Carolina  
Sumedh Gostu Hyderabad, India  
Christina Elizabeth Hensley Hoover, Alabama  
Brian Kagay Dunedin, Florida  
Josue Nduwa Mushidi Likasi, Congo  
Douglas James Schriner Findlay, Ohio  
Caleb William Stanton San Diego, California  
Mark Lawrence Strauss Mesa, Arizona  
Sami M. Syammach Gardnerville, Nevada  
Yicheng Zhang Huanggang, China

Chemical and Biological Engineering Department  
Dr. David Marr, Department Head  

Master of Science  
Chemical Engineering  
Emily Joy Campion Rice, Minnesota  
Piyush Nilkanth Chaudhari Bhusawal, India  
Muhammad Zafar Iqbal Chiniot, Pakistan  
Muhammad Naveed Khan Lahore, Pakistan  
Christopher Moran Norfolk, Massachusetts  
Prithvi Vijayamohan Bangalore, India

Chemistry Department  
Dr. David T. Wu, Department Head  

Master of Science  
Chemistry  
Ryan Scott Czarny Conroe, Texas  
Charles Adelbert Ponyik Mayfield Heights, Ohio  
Master of Science  
Geochemistry  
Angela Grace Barber Glenwood Springs, Colorado  
Katherine Ann Ebeling Topeka, Kansas

Physics Department  
Dr. Jeff Squier, Department Head  

Master of Engineering  
Nuclear Engineering  
Jaime Johnathan Baker Elizabeth, Colorado  
Pavlo Ivanusa Aurora, Colorado  
Peter E. Rottenborn Cleveland, Ohio  
Casey J. Spitz Sterling, Colorado

Master of Science  
Applied Physics  
Gina Marie Eldridge Centennial, Colorado  
Brooke Rhiannon Faulkner West Des Moines, Iowa  
Abigail Marie Meyer Northville, Michigan  
Kevin Scott Rozmiarek Liberty Hill, Texas

College of Engineering and Computational Sciences  
Dr. Kevin L. Moore, Dean  

Applied Mathematics and Statistics Department  
Dr. Willy A. Hereman, Department Head  

Master of Science  
Applied Mathematics and Statistics  
Computational and Applied Mathematics Specialty  
Alexander E. Charlesworth Portland, Oregon  
Paul Marcus Diaz Conifer, Colorado  
Brandon Steven Rundquist Rochester, Minnesota  
Holly Diane Wenham Phoenix, Arizona  
Steven Andrew Wray Denver, Colorado

Master of Science  
Applied Mathematics and Statistics  
Statistics Specialty  
Evalyn Vaera Breikss Elizabeth, Colorado  
Colin R. Eberl-Coe Arvada, Colorado  
Caitlyn Hannum Stony Point, New York
Civil and Environmental Engineering Department  
Dr. John E. McCray, Department Head

Master of Science Civil and Environmental Engineering
Dustin Markas Burner  
Carmella J. Caltagirone  
Thomas Carroll  
Kendall S Gadd  
Kyle Alan Hampton  
Evon E. Harmon  
Edward A. Huss III  
Michelle Ann Peters  
Travis Lee Stevens  
Barbara Frances Thunder  
Ella Louise Walker  
Skylar Huzyk Zilliox
Rifle, Colorado  
Dustin Markas Burner  
Carmella J. Caltagirone  
Thomas Carroll  
Kendall S Gadd  
Kyle Alan Hampton  
Evon E. Harmon  
Edward A. Huss III  
Michelle Ann Peters  
Travis Lee Stevens  
Barbara Frances Thunder  
Ella Louise Walker  
Skylar Huzyk Zilliox

Master of Science Environmental Engineering Science
Travis Borrillo-Hutter  
Michelle Marie Kelble  
Emily Antoinette Kraus  
Todd Alan VanderWall  
Meghan Alyssa Way  
Veronika Zhiteneva  
San Diego, California  
Lakewood, Colorado  
Clarence, New York  
Chesapeake, Virginia  
Colorado Springs, Colorado  
Chernogolovka, Russia

Master of Science Hydrology
Taylor Morgan Baird  
Ryan Patrick Edgley  
Evan Michael Thomas Ford  
Brandon Leslie House  
Samuel Saxe  
Jessica Anne Shirey  
Fort Collins, Colorado  
Fremont, California  
Paso Robles, California  
Madison, Connecticut  
Loveland, Colorado

Master of Science Underground Construction and Tunneling
Maxwell James Engen  
Deerwood, Minnesota

Electrical Engineering and Computer Science Department  
Dr. Atef Elsherbeni, Department Head

Master of Science Computer Science
Erol Sheethal Cornelio  
Ryan Matthew Dusina  
Madalyn Jo Gort  
Saman Hakimifar  
James Tyler Lyons  
Stacey Osborn  
Brian J. Reily  
Adithya Uligere Narasimhamurthy  
Udupi, India  
Littleton, Colorado  
Tehran, Iran  
Edmond, Oklahoma  
Manassas, Virginia  
Sagar, India

Master of Science Electrical Engineering
Scott Patrick Harris  
Garrett R. Hoch  
Jacob Andrew Juett  
Adam Gregory Longoria  
Jonathan William Reasoner  
Broomfield, Colorado  
Wichita, Kansas  
Flower Mound, Texas  
Colorado Springs, Colorado  
Delaware, Arkansas

Mechanical Engineering Department  
Dr. Gregory Jackson, Department Head

Master of Engineering Nuclear Engineering
Caitlin Renee Stack  
Roseville, California

Master of Science Mechanical Engineering
Mohammed Nasser Alyami  
Brendan Joseph Casias  
Aaron Michael Childers  
Nejran, Saudi Arabia  
Littleton, Colorado  
Montgomery, Texas

Steven M. Fuchs  
Luke M. Graber  
Ryan L. Hemphill  
Garrison M Hommer  
Yi-Hsiu Hung  
Keshini Aoife Keane  
Benjamin L. Kee  
Madison Andrew Kelley  
Moises Mendez  
Richard Thinh Huu Nguyen  
Adam R. Short  
Kevin S. Tan  
Trace R. Tomme  
Benjamin M. Traquair  
Jeremy David Webb  
Mark R. Wilbur  
Sara Grace Winberry  
Kevyn Christopher Young  
Colorado Springs, Colorado  
Morrison, Colorado  
Los Alamos, New Mexico  
Altoona, Wisconsin  
Longtan, Taiwan  
Englewood, Colorado  
Arvada, Colorado  
Blaine, Minnesota  
Denver, Colorado  
Fort Collins, Colorado  
Aurora, Colorado  
Austin, Texas  
Tucson, Arizona  
Golden, Colorado  
Anchorage, Alaska  
Parker, Colorado  
Conroe, Texas  
Loveland, Colorado

Geology and Geological Engineering Department  
Dr. Priscilla Nelson, Department Head

Doctor of Philosophy Mining and Earth Systems Engineering
Saqib Ahmad Saki  
Jhang, Pakistan  
Advisor: Juergen Brune  
Gob Ventilation Borehole Design and Performance Optimization for Longwall Coal Mining Using Computational Fluid Dynamics

Geology
Eider Hernandez Bilbao  
Gernika-Lumo, Spain  
Advisors: J.F. Sarg. & Stephen Sonnenberg  
High-Resolution Chemostratigraphy, Sequence Stratigraphic Correlation, Porosity and Fracture Characterization of the Vaca Muerta Formation, Neuquén Basin, Argentina

Long Wu  
Baoji, China  
Advisor: Bruce Trudgill  
Foreland Flexural Extension and Salt Diapir Reactivation in Oblique Extensional Systems

Hydrology
Laura Elizabeth Condon  
Boulder, Colorado  
Advisor: Reed Maxwell  
The Role of Large-Scale Water Management in Natural Systems: Connections, Interactions and Feedbacks

Jennifer Lynn Jefferson  
Nora Springs, Iowa  
Advisor: Reed Maxwell  
Exploring Sensitivities of Latent Heat Parameterizations Using a Coupled, Integrated Hydrologic Model
Petroleum Engineering Department
Dr. Erdal Ozkan, Department Head

Doctor of Philosophy Petroleum Engineering
Binh Thanh Bui  Hai Duong, Vietnam
Advisor: Azra Tutuncu
A Multi-Physics Model for Enhanced Oil Recovery in Liquid-Rich Unconventional Reservoirs

Chunlei Liu  Shandong, China
Advisor: Jennifer Miskimins

Anton Padin Deben  Galicia, Spain
Advisor: Azra Tutuncu
Experimental and Theoretical Study of Water and Solute Transport Mechanisms in Organic-rich Carbonate Mudrocks

Russell D Roundtree  Durango, Colorado
Advisor: Jennifer Miskimins
Experimental Validation os Microseismic Emissions from a Controlled Hydraulic Fracture in a Synthetic Layered Medium

Geophysics Department
Dr. Terence K. Young, Department Head

Doctor of Philosophy Geophysics
Nathan Leon Foks  Great Harwood Lancashire, England
Advisor: Yaoguo Li
Using Adaptive Sampling and Triangular Meshes for the Processing and Inversion of Potential Field Data

Nishant Kamath  Durgapur, India
Advisor: Ilya Tsvankin
Full-Waveform Inversion in 2D VTI Media

Satyan Singh  Las Lomas, Trinidad and Tobago
Advisor: Roelof Snieder
An Inverse Scattering Approach to Imaging Using Marchenko Equations in the Presence of a Free Surface

Xinning Wu  Loudi, China
Advisor: David Hale
3d Seismic Image Processing for Interpretation

Economics and Business Division
Dr. Michael Walls, Division Director

Doctor of Philosophy Mineral and Energy Economics
Andrew Logan Gulley  Littleton, Colorado
Advisor: Edward Balistreri
Valuation of Ecosystem Services Impacted by Mine Site Pollution

Grant Mark Nulle  Gillette, Wyoming
Advisor: Graham Davis
Migrant Labor Supply in A Booming Non-Renewable Resource Economy: Cure and Transmission Mechanism for De-Industrialization?

Jacquelyn Ryan Pless  Wallingford, Pennsylvania
Advisor: Harrison Fell
Three Empirical Essays in Energy Economics

Fadli Rahman  Jakarta, Indonesia
 Advisors: Harrison Fell & Peter Maniloff
The Economics of Subnational Carbon Policy Interactions and Integration

Chemical and Biological Engineering Department
Dr. David Marr, Department Head

Doctor of Philosophy Chemical Engineering
Erika Paige Brown  Colorado Springs, Colorado
Advisor: Carolyn Koh
Studies of Hydrate Cohesion, Adhesion and Interfacial Properties Using Micromechanical Force Measurements

Piyush Nilkanth Chaudhari  Bhusawal, India
Advisors: Amadeu Sum & Luis Zerpa Acosta
Development of Hydrate Risk Quantiﬁcation in Oil and Gas Production
College of Engineering and Computational Sciences

Dr. Kevin L. Moore, Dean

Civil and Environmental Engineering Department
Dr. John E. McCray, Department Head

Doctor of Philosophy Civil and Environmental Engineering
Benjamin Michael Wallen Colorado Springs, Colorado
Advisor: Kathleen Smits
Heat and Mass Transfer Through Disturbed Soil: Multiscale Experimental and Modeling Investigation

Doctor of Philosophy Environmental Engineering Science
Jenna L. Shelton Melbourne, Florida
Advisor: Jonathan Sharp
Microbial Insights into Enhanced Organic Biodegradation Potential in Water Treatment

Electrical Engineering and Computer Science Department
Dr. Atef Elsherbeni, Department Head

Doctor of Philosophy Computer Science
Oscar Thyago Jose Duarte Dantas Lisboa Mota Fortaleza, Brazil
Advisor: Tracy Camp
Extracting and Modeling Commuting Networks from Social Media Communication

Mechanical Engineering Department
Dr. Gregory Jackson, Department Head

Doctor of Philosophy Operations Research with Engineering
Barry William King Durant, Iowa
Advisor: Alexandra Newman
Using Integer Programming For Strategic Underground and Open Pit-To-Underground Scheduling

Doctor of Philosophy Mechanical Engineering
Nathaniel Todd Pickle Colorado Springs, Colorado
Advisor: Anne Silverman
Dynamic Balance and Muscle Function in Individuals With and Without Unilateral Transtibial Amputation During Sloped Walking

Doctor of Philosophy Engineering Systems Specialty
Aalhamid Reda Alamin Sirte, Libya
Advisor: Ruichong Zhang
Modeling Of Acoustic-Emission Wave Propagation in Layered Media
Undergraduate Commencement
May 13, 2016 | Marv Kay Stadium, Golden, Colorado

Board of Trustees
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Adm. Richard Truly
Ms. Frances M. Vallejo ’87
Dr. Wendy Harrison,
Faculty Trustee
Mr. Tyrel Jacobsen ’16,
Student Trustee

Anthem from the “CSM Commemoration Overture”

Processional

Welcome
Dr. Paul C. Johnson, President

National Anthem
The CSM Natural Miners

Presentation of the Outstanding Student Service Award
Dr. Dan Fox, Vice President for Student Life

Student Address
Alexa Frazier, Lauren Melching, Shae Quigley and Diane Roher

Address
Professor Emeritus Marv Kay

Presentation of the Class of 2016 to the Board of Trustees
Dr. Paul C. Johnson

Acceptance of Class
Mr. James Spaanstra

Presentation of Candidates of Baccalaureate Degrees
Dr. Thomas Boyd, Provost

Conferring of Baccalaureate Degrees
Dr. Paul C. Johnson

Announcement of Baccalaureate Degree Recipients
Dr. Dan Fox, Vice President for Student Life
Dr. Linda Battalora, Teaching Professor, Petroleum Engineering

Recognition of Commissioned Cadets
Colonel John T. Cairney, United States Air Force

Recognition of Retiring Faculty
Dr. Paul C. Johnson

President’s Remarks
Dr. Paul C. Johnson

Alma Mater
The CSM Natural Miners

Recessional
(Audience is requested to stand and remain in place)

All graduates will be photographed by a professional photographer after receiving their diplomas. Proofs will be emailed to each graduate; copies may be ordered directly from the photographer.
BACHELOR OF SCIENCE CLASS OF 2016

College of Earth Resource Sciences and Engineering
Dr. Ramona M. Graves, Dean

Mining Engineering Department
Dr. Priscilla P. Nelson, Department Head

Bachelor of Science Mining Engineering
Ryan M. Bevans
Vassil Ivanov Boasheraliev
Michael David Burkhardt
Nicole Lucia deMontigny
Thomas Conner Hirsh*
Katherine Nicole Jennings
Brock Andrew Lane*
Brent Christopher Lytle
Nicholas John Mason
Sean W. McDaniel
Kevin Aussie Moran**
Aaron V. Mull***
Christopher Andrew Oestreicher
Brandon Wescott Ostert
Jordan R. Oxborrow
Levi Dylan Rawlings**
Donald Grant Ross*
Timothy R. Russo
Joseph Thomas Waite*
Ryan Arifin Zaini

Geology and Geological Engineering Department
Dr. Paul Santi, Department Head

Bachelor of Science Geological Engineering
Kyle Alexander Amoroso
Aimee A. Anderson*
Molly Rose Baron*
Ryan M. Berg
David Lane Boyd**
Ian Faulkner Campbell
Daniel Addison Chafetz
Matthew Bradley Coen
Patrick R. Collins
Brandon Leslie Conaway
Sean Robert Cowie
Daniel Loren Fraser
Andreana Christine Galvan
Hannah N. Hamblin
Craig S. Hendrich
Lora Jean Hoopes
Allison Elizabeth Keator**
Andrew Jacob Kerth
Kelsey Dian Lewis
Zoe Kathleen Lyman**
Madeline Jo Morones
Carolyn Celeste Pauly***
Lyn Pinkus
Tyler James Pitcher
Hayley Elaine Purdom
Carolyn E. Reilly
Preston Stuart Rich

Eric James Rink
Elizabeth Ann Starbuck McMillan
Quinton David Weber**
Melissa Ann Westhoff
Jenny Lin Wolicki**
Victoria Zsazsa Zahourek*

Petroleum Engineering Department
Dr. Erdal Ozkan, Department Head

Bachelor of Science Petroleum Engineering
John Michael Ahern
Nor Aiman Khalidah Ahmad Tarmizi**
Adam Bertram Ahnhut**
Karl Louis-Gabriel Akoko
Mariah Anissa Akoko
Bodour Abdulhadi Al-Iraani
Ghadere Abdulrauf Alrubaih*
Nur Amanin Amin Hamzah
Brian Moe Amosa Leitaua
Miguel Alberto R. Arguelles
Nicholas G. Aro
Loren Andrew Awtal
Bryan William Baker
Nolan Ryan Beasley
Chayapod Beechaimook***
Nicholas Jason Berry*
Brenna Marie Boehm
Suredech Boonland
Shea Harry Boynton
Jacob Davis Burchell*
Ashley Nicole Burk
Dylan T. Bush***
Justin Alan Cameron
Alejandro Caraveo Meraz
Tevin Anthony Champagne
Zhao Chang
Chanel Elizabeth Charbonneau
Daniel Wayne Chase Jr.
Lin Ngoc Thuy Chuong
Connor John Clark
Jared Matthew Clark
Tanner Joseph Corah
Bailey Elizabeth Cordero
Jonathan Colin Crank
Daniel Aidan Cucarola
Robert Tucker Randall Darby*
Jacob Louis Degrace
Deavin Dev**
Sean David Dolfinger
Michael Anbal Elliott
James Kent Ellis
Matthew Scott Enger
Mohammad Omar Faruque*
Alexa Jean Frazier***
Aaron K. Frey
Scott Mallory Fuller
Nicholas Russell Garver**
Eric David Garza**
Douglas Alan Geary
Cynthia Alexius Jordan Godfrey
John Travis Gordon
Christian M. Goue拥en**
Nolan D. Greenberg
Jeffrey Allen Grenfell
Andy Guanhua Han
Landon Marshall Harrison

Morrison, Colorado
Rawang, Malaysia
Dallas, Texas
Aurora, Colorado
Abidjan, Ivory Coast
Alkhorab, Saudi Arabia
Saihat, Saudi Arabia
Rawang, Malaysia
Garden Grove, California
Broomfield, Colorado
Westminster, Colorado
Troy, Missouri
Anchorage, Alaska
Arvada, Colorado
Nonthaburi, Thailand
Littleton, Colorado
Humble, Texas
Roi-Et, Thailand
Arvada, Colorado
Broomfield, Colorado
Westminster, Colorado
Peyton, Colorado
Warrensburg, Missouri
Denver, Colorado
Houston, Texas
Yiyang, China
New Castle, Colorado
Las Vegas, Nevada
Ho Chi Minh City, Vietnam
Arvada, Colorado
Monterey, California
Littleton, Colorado
Littleton, Colorado
Worthington, Ohio
Sterling, Colorado
Longmont, Colorado
Golden, Colorado
Klang, Selangor, Malaysia
Highlands Ranch, Colorado
Lima, Peru
Littleton, Colorado
Lakewood, Colorado
Bangladesh, Chittagong
Anchorage, Alaska
Anchorage, Alaska
Fort Morgan, Colorado
Littleton, Colorado
Denver, Colorado
Olathe, Colorado
Littleton, Colorado
Las Vegas, Nevada
Ramsey, Minnesota
Arvada, Colorado
Aurora, Colorado
Burlington, Colorado

*** Summa cum Laude | ** Magna cum Laude | * Cum Laude | ^ Double Degree
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Daniel Hasz***</td>
<td>Arvada</td>
<td>Colorado</td>
</tr>
<tr>
<td>Lauren Nicole Headrick</td>
<td>Granite Bay, California</td>
<td>California</td>
</tr>
<tr>
<td>Ryan T. Heather</td>
<td>Erie</td>
<td>Colorado</td>
</tr>
<tr>
<td>Stephen James Heppell</td>
<td>Centennial, Colorado</td>
<td>Colorado</td>
</tr>
<tr>
<td>Michael Craig Horacek</td>
<td>Houston, Texas</td>
<td>Texas</td>
</tr>
<tr>
<td>Yelignan Houessou Sr.</td>
<td>Cotonole, Benin</td>
<td>Utah</td>
</tr>
<tr>
<td>Yu Hu***</td>
<td>Nanjing, China</td>
<td>China</td>
</tr>
<tr>
<td>Mohamad Moussa Jamil</td>
<td>Tyré, Lebanon</td>
<td>Lebanon</td>
</tr>
<tr>
<td>Christian Esoria Jimenez</td>
<td>Denver, Colorado</td>
<td>Colorado</td>
</tr>
<tr>
<td>Vishnu Goud Kadriarsani</td>
<td>Marlton, New Jersey</td>
<td>New Jersey</td>
</tr>
<tr>
<td>Daniel James Kaim*</td>
<td>Mount Laurel, New Jersey</td>
<td>Louisiana</td>
</tr>
<tr>
<td>Daniel Andrew Kalish</td>
<td>Monument, Colorado</td>
<td>Colorado</td>
</tr>
<tr>
<td>Muhammad Farhan Kamaludin*</td>
<td>Johor Bahru, Malaysia</td>
<td>Malaysia</td>
</tr>
<tr>
<td>Masud Shahriray Karim**</td>
<td>New York, New York</td>
<td>New York</td>
</tr>
<tr>
<td>Robert Lelo Keller*</td>
<td>Littleton, Colorado</td>
<td>Colorado</td>
</tr>
<tr>
<td>Allan L. Kittle</td>
<td>Littleton, Colorado</td>
<td>Colorado</td>
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<tr>
<td>Brett A. Kovach</td>
<td>Lakewood, Colorado</td>
<td>Colorado</td>
</tr>
<tr>
<td>Christian X. Kratz</td>
<td>Johnstown, Colorado</td>
<td>Colorado</td>
</tr>
<tr>
<td>Christopher J. Lach</td>
<td>Canton, Ohio</td>
<td>Ohio</td>
</tr>
<tr>
<td>Wyatt Austin Lang</td>
<td>Houston, Texas</td>
<td>Texas</td>
</tr>
<tr>
<td>Zachary William Larson***</td>
<td>Arvada</td>
<td>Colorado</td>
</tr>
<tr>
<td>Hayden Thomas Leach</td>
<td>Bennett, Colorado</td>
<td>Colorado</td>
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<tr>
<td>Erik Cameron Lee</td>
<td>Honolulu, Hawaii</td>
<td>Hawaii</td>
</tr>
<tr>
<td>Kendra Anne May</td>
<td>Linden, North Carolina</td>
<td>North Carolina</td>
</tr>
<tr>
<td>Gregorio Llorente</td>
<td>Bogota, Colombia</td>
<td>Colombia</td>
</tr>
<tr>
<td>Rebeka Danielle Locricchio</td>
<td>Northglenn, Colorado</td>
<td>Colorado</td>
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- Griffin James Cicillo: Missouri City, Texas
- Allison S. Crouch: Fort Collins, Colorado
- James Dang: Katy, Texas
- Kevin D. Day: Hasty, Colorado
- Taylan Wade Dillion
- Kyle Bernard Dymowski: Westminster, Colorado
- Jacob Daniel Emmel***: Colorado Springs, Colorado
- Maxwell Miller Eshleman****: Littleton, Colorado
- Justin G. Frazer: Lakewood, Colorado
- David M. Grisham: Pueblo, Colorado
- Stephen Alan Hamrick: Canon City, Colorado
- William M. Harvey**: Aurora, Colorado
- Nathaniel Parker Jacobi: Las Vegas, Nevada
- Jennifer A Jacobs**: Bremerton, Washington
- Christopher Travis Johnson*: Houston, Texas
- Austin James Kauffman: Littleton, Colorado
- Victoria Katharine Kay*: Centennial, Colorado
- Martin E. Kuchta**: Golden, Colorado
- Zhong Li: Xinxiang, China
- Xinyuan Liu: Fort Collins, Colorado
- Carter Aaron Mann: Durango, Colorado
- Leah Colin Marshall***: Colorado Springs, Colorado
- Nicholas J. Masching**

*** Summa cum Laude | ** Magna cum Laude | * Cum Laude | ^ Double Degree
Gokul Ganesh Natesan** | Santa Clara, California
Remington Winter-Yballa Norris | Denver, Colorado
Alexander S. Patel | Thornton, Colorado
Ryan M. Porter* | Castle Rock, Colorado
Christopher Aaron Rice* | Del Norte, Colorado
Esper Mejilvang Roth | Superior, Colorado
Eric Wade Sheeder** |
Ryan Alexander Shipp | Colorado Springs, Colorado
Johanna Margaret Smith | Austin, Texas
Colton Andrew Thomas | Littleton, Colorado
Corey Alexander Tokunaga-Reichert | Windsor, Colorado
Bernardo Velloso Trindade | Highlands Ranch, Colorado
Taylor Chase Tyree | Colorado Springs, Colorado
Isaac Jose Valdez II | Wheat Ridge, Colorado
Zachary T. Webb** | Boerne, Texas
Jon A. Weldon Jr. | Littleton, Colorado
Chase Ray West | Parker, Colorado
Daniel Zarrini***

Bachelor of Science Electrical Engineering
Kyle L. Alexander | Peyton, Colorado
Max L. Bubar* | Redmond, Washington
Steven Glenn Dear | Thornton, Colorado
Michael Keaghan Economon | Springfield, Missouri
Maxwell Miller Eshleman*** | Littleton, Colorado
Elizabeth Marie Frank | Anchorage, Alaska
Andrew J. French | Portmore, Jamaica
Richard Vladimir Garvey** | San Antonio, Texas
Jacob Lynn Ganzer | Littleton, Colorado
Brandon Jon Gong*** | Mancos, Colorado
Alicia N. Helmer | Woodinville, Washington
Jacob Aldo Hollister* | Aurora, Colorado
Jonathan Simon Hong | Fort Collins, Colorado
Kyle Patton Kaminsky** | Loveland, Colorado
William John Kelly* | Lakewood, Colorado
Holly Mae Krebs | Aurora, Colorado
Joel David Kuening | Lakewood, Colorado
Trevor Grant Lager | Golden, Colorado
Tommy Li | Aurora, Colorado
David Cameron Long*** | Parker, Colorado
Alex O. Manoilo | Colorado Springs, Colorado
James Cornelius Maroney | Longmont, Colorado
Courtney Joy Mort | Lakewood, Colorado
Kyle T Patel | Eagle, Idaho
Ryan Joseph Patton*** | Centennial, Colorado
Jordan Alexandra Pontillo* | Del Norte, Colorado
Christopher Aaron Rice* | Boise, Idaho
Alec J. Richey | Solvang, California
Rodney Bradford Roberts III | Littleton, Colorado
Frederick Thomas Rodgers III | Park City, Utah
Nathan Daniel Stanley** | Midland, Texas
Ev an Blake Stoelzel | Fort Collins, Colorado
Ian C. Tidd | Parker, Colorado
Timothy Alan Tribby Jr. | Parker, Colorado
Richard Lawrence Uhrie | Golden, Colorado
Ryan David Wareham** | Crosby, Texas
Emma Rose Watson | Colorado Springs, Colorado
Zachary T. Wood | Danville, California
Nathan Walter Young**** | Kaifeng, China
Jinbo Zhu

Bachelor of Science Engineering
Electrical Specialty
Eugene Vincente Duran Jr. | Rifle, Colorado

Mechanical Engineering

Dr. Gregory Jackson, Department Head
Bachelor of Science Engineering
Mechanical Specialty
Tyler Dean Cypher | Conifer, Colorado
Andrew Laurence Duty | Evergreen, Colorado
Andrew D. Grossnickle | Fort Collins, Colorado
Jonathan Chi Tran | Westminster, Colorado
Bachelor of Science Mechanical Engineering
Syamal Amri Abdul Malek | Kajang, Malaysia
Arjamand Alvi | Katy, Texas
Thor Erik Andreassen*** | Highlands Ranch, Colorado
Martin R. Andrie | Aurora, Colorado
Jesse Templeton Arnold** | Buena Vista, Colorado
Elias James Baier | Delta, Colorado
Alexander William Bainbridge | Golden, Colorado
Nicholas Philipp Baumgartner* | Lakewood, Colorado
Matthew Lealton Benett | Peyton, Colorado
Jack Gregory Beyvan | Walnut Creek, California
Shannon M. Bradley | Broomfield, Colorado
Matthew Bryan Brandt** | Arvada, Colorado
Thomas J. Buckholtz | Aurora, Colorado
Dylan Robert Bull | Highlands Ranch, Colorado
Karen E. Burke | Arvada, Colorado
Brandon Scott Burns | Pueblo, Colorado
Benjamin M. Bymaster | Wheat Ridge, Colorado
Daniel Thomas Campbell | Evergreen, Colorado
Joseph Michael Carattini | Arvada, Colorado
Forrest Quentin Carr | Broomfield, Colorado
Samuel Lawrence Chambers | Colorado Springs, Colorado
Lucas Slatyon Christian | Katy, Texas
Syndey Alexis Clark*** | Hinsdale, Illinois
Travis William Clark | Parker, Colorado
Ryan Lockwood Clingan | Parker, Colorado
Spencer Keith Connor** | Broomfield, Colorado
Joshua Luke Coors** | Colorado Springs, Colorado
Anna C. Corman | San Diego, California
Frances Alexandra Hunter Cormier | Hinsdale, Illinois
Michael D. Cothard IV | Parker, Colorado
Caleb Alexander Courkamp** | Parker, Colorado
Jordan Forest Daubenspeck | Colorado Springs, Colorado
Damian James David | Katy, Texas
Justin P. Dearden | West Lake, Ohio
Clare Howell Decker* | Long Valley, New Jersey
Sarah Kyleyn Dowar | Colorado Springs, Colorado
Courtney Nicole Dietsche | Colorado Springs, Colorado
Garrett William Dietz | Longmont, Colorado
Conor David Doyle | Morrison, Colorado
Elise M. Digwylwer | Littleton, Colorado
Kyle Ashton Duran | Penrose, Colorado
Justin Stephen Fantasky*** | Florence, Colorado
Tyler Lindo Faoro | Littleton, Colorado
Seth Adam Farmer | College Station, Texas
Nicholas S. Fawcett | Littleton, Colorado
Creed Taylor Flynn* | Glenwood Springs, Colorado
Paul A. Foreman | Spencer, West Virginia
Jonathan Paul Forristall | Arvada, Colorado
Tyrell Lee Frame | Superior, Colorado
Logan Alice Fulton | Littleton, Colorado
Sean E. Garneau | Denver, Colorado
Eric David Garza*** | Golden, Colorado
Audrey Meredith Gerhart | Littleton, Colorado
Drew W. Gillan | Corvallis, Oregon
Mackenzie Williams Golden | San Antonio, Texas
Isabel Goni-McAteer*** | Houston, Texas
Emmanuel C. Graves | San Antonio, Texas
David Harland Grimmer | Fort Collins, Colorado
Sean Christopher Guidi** | Colorado Springs, Colorado
Michael David Harrison | Colorado Springs, Colorado
Matthew Michael Hart |
<table>
<thead>
<tr>
<th>Name</th>
<th>City, State</th>
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<tbody>
<tr>
<td>Kevin Scott Hartmann*</td>
<td>Glenwood Springs, Colorado</td>
</tr>
<tr>
<td>Jared Scott Herselman</td>
<td>Kyle, Texas</td>
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<tr>
<td>Robert David Drapeau Hodge**</td>
<td>Georgetown, Colorado</td>
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<td>Garrett Arthur Hoffman</td>
<td>Aurora, Colorado</td>
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<td>Nathan James Hoffmann</td>
<td>Brighton, Colorado</td>
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<td>Brittany N. Holloway</td>
<td>Frederick, Colorado</td>
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<td>Christopher Michael Hollwedel</td>
<td>Grapevine, Texas</td>
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<td>John Charles Hood*</td>
<td>Parker, Colorado</td>
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<tr>
<td>Trey Vincent Hulbert**</td>
<td>Aurora, Colorado</td>
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<td>Alexis Ramsey Humann***</td>
<td>Loveland, Colorado</td>
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<td>Leah Christine Jaron**</td>
<td>Colorado Springs, Colorado</td>
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<td>Zachary Scott Jewell**</td>
<td>Nederland, Colorado</td>
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<td>Deirdre Elizabeth Johnson***</td>
<td>Afbu, New Mexico</td>
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<td>Christopher Branden Kale</td>
<td>Buena Vista, Colorado</td>
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<td>Masud Shahrriyar Karim**</td>
<td>Golden, Colorado</td>
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<td>Michael Budiono Karman**</td>
<td>Superior, Colorado</td>
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<td>Jordan Paul Kincaid-Smith</td>
<td>Lakewood, Colorado</td>
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<td>Hillary Ann Knaebel*</td>
<td>The Woodlands, Texas</td>
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<td>Logan Wilson Knowles</td>
<td>Meridian, Idaho</td>
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<td>Suchot Kongsomboonvech**</td>
<td>Aurora, Colorado</td>
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<td>Jayden Taylor Robert Kulhawy</td>
<td>Calgary, Canada</td>
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<td>Brandon Michael Lalonde***</td>
<td>Longmont, Colorado</td>
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<td>Daniel Gervacio Lamas</td>
<td>Arvada, Colorado</td>
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<td>James Mikel Lewis</td>
<td>Grand Junction, Colorado</td>
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<td>Andrew Michael Liebing*</td>
<td>Palmer, Alaska</td>
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<tr>
<td>Morgan L. Lindsey</td>
<td>The Woodlands, Texas</td>
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<td>Warren Edward Lockwood</td>
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<td>Garrett James MacInnis</td>
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<td>Ryan Joseph Maidhof***</td>
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<td>William Dean Martin</td>
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<td>Shane Everett Mathias</td>
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<td>Brennan C. Mayhak</td>
<td>Colorado, Maryland</td>
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<td>Jodi Lynn Mayhak</td>
<td>Colorado Springs, Maryland</td>
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<tr>
<td>Mitchell D McCarty***</td>
<td>Boulder, Colorado</td>
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<tr>
<td>Kylen Kearns McClintock</td>
<td>Reno, Nevada</td>
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<tr>
<td>Sean Patrick McGinley*</td>
<td>Colorado Springs, Colorado</td>
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<tr>
<td>Joshua Reuben Mesward</td>
<td>Westford, Massachusetts</td>
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<tr>
<td>Joseph Francis Meyer**</td>
<td>Auburn, Nebraska</td>
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<tr>
<td>Jeremy Michael Meyers</td>
<td>Bartlesville, Oklahoma</td>
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<tr>
<td>Ann Joyce Miller**</td>
<td>Erie, Colorado</td>
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<tr>
<td>James Moreland Mirabassi</td>
<td>Littleton, Colorado</td>
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<tr>
<td>Deanna Kela Mitchell</td>
<td>Colorado Springs, Colorado</td>
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<tr>
<td>Joshua David Mondy</td>
<td>Castle Rock, Colorado</td>
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<td>Andre Raul Montes***</td>
<td>Colorado Springs, Colorado</td>
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<td>Keenan James Murphy**</td>
<td>Buena Vista, Colorado</td>
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<td>Frank Worthington Musick</td>
<td>Fort Collins, Colorado</td>
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<tr>
<td>Lucas Andrew Neff</td>
<td>Colorado, Elizabeth</td>
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<tr>
<td>Nathan Daniel Nicholas*</td>
<td>Stewartville, Minnesota</td>
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<tr>
<td>John Michael Oberholtzer</td>
<td>Superior, Colorado</td>
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<tr>
<td>Gina Eliza Ogg</td>
<td>Tulsa, Oklahoma</td>
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<tr>
<td>Patrick Douglas Ogilvie***</td>
<td>Boulder, Colorado</td>
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<tr>
<td>Wyatt James Olea</td>
<td>Westminster, Colorado</td>
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<tr>
<td>Nathan J. Olinger*</td>
<td>Gunnison, Colorado</td>
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<tr>
<td>Jacob Earl Ost</td>
<td>Monica Clemencia Padeway</td>
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SENIOR AWARDS

The Robert A. Baxter Award  
Presented for meritorious work in chemistry.  
Vincent Pane

Charles N. Bell, 1906, Award  
Provided for by Mr. Bell, is a Brunton transit, awarded in mining for completing the course in mining with the most progress in school work during the entire period for which the course is given.  
Tom Hirsh

The Honorable D. W. Brunton Award  
Provided for by Mr. Brunton, is awarded for meritorious work in mining.  
Joe Waite

The Brunton Award in Geology  
Awarded in recognition of the highest scholastic achievement and interest in and enthusiasm for the science of geology.  
David Boyd

The Clark B. Carpenter Award  
Presented to the graduating senior in mining or metallurgy who, in the opinion of the seniors in mining and metallurgy and the professors in charge of the respective departments, is the most deserving of this award.  
Don Ross  
Hairuo Tan

The Mary & Charles Cavanaugh Award  
Presented in metallurgy, is determined by scholarship, professional activity and participation in school activities.  
Jake Wands

The Colorado Engineering Council Awards  
Presented for excellence in scholarship, high integrity, and general engineering ability.  
Alexis Humann  
Kathryn Sciamanna  
Levi Rawlings

The Distinguished Military Graduate Award  
Designated by the ROTC professor of military science for graduating seniors who possess outstanding qualities of leadership and high moral character, and who have exhibited a definite aptitude for and interest in military service.  
Julian Joseph Uy

Dwight D. “Ike” Eisenhower Award  
Provided for by Mr. and Mrs. R.B. Ike Downing, $150 and a plaque is awarded to the outstanding ROTC Cadet commissioned each year based on demonstrated exemplary leadership within the Corps of Cadets, and academic excellence in Military Science.  
Julian Joseph Uy

The Professor Everett Award  
Provided for by Frank Ausanka, ’42, in honor of James R. Everett, an outstanding former faculty member in mathematics at CSM, is presented to a graduating senior in Mathematics who demonstrates scholarship, leadership, community service, and the potential for the innovative application of mathematics to mineral engineering.  
Jake Wakefield

The Cecil H. Green Award  
Given to the graduating senior in geophysical engineering who, in the opinion of the department of geophysics, has the highest attainment in the combination of scholastic achievement, personality, and integrity.  
Stuart Farris

The Neil J. Harr Memorial Outstanding Student Award  
Provided by the Rocky Mountain Association of Geologists, is presented in geology for scholastic excellence in the study of geology with the aim of encouraging future endeavors in the earth sciences.  
Jenny Wolicki

The Harrison L. Hays, 1931, Award  
Presented in chemical and petroleum refining for demonstrating by scholarship, personality and integrity of character, the general potentialities of a successful industrial career.  
Philip Walker

The H. L. Hazen Prize in Process Metallurgy  
Presented to the graduating senior who shows exceptional potential for a career in process metallurgy based upon demonstrated interest, academic achievement and extracurricular activities.  
Tyrel Jacobsen

The John C. Hollister Award  
Given to the graduating senior in geophysics who, in the opinion of the seniors in geophysical engineering, has the highest academic achievement and extracurricular activities.  
Joan Sanborn

The John C. Hollister Award  
Presented to the most deserving student in geophysics and is not based solely on academic performance.  
Aimee Anderson  
Victoria Zahourek

The Clark B. Carpenter Award  
Presented to the graduating senior in mining or metallurgy who, in the opinion of the seniors in mining and metallurgy and the professors in charge of the respective departments, is the most deserving of this award.  
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Joan Sanborn

The John C. Hollister Award  
Presented to the most deserving student in geophysics and is not based solely on academic performance.  
Aimee Anderson  
Victoria Zahourek

The Henry W. Kaanta, 1915, Award  
Presented for the outstanding paper on a laboratory procedure or experimental process written by a graduating senior majoring in extractive metallurgy or mineral processing.  
Elliot Britvec

The Maryanna Bell Kafadar Award  
Presented to the graduating senior who has excelled in humanities courses and humanities-related activities.  
Richard Sebastian-Coleman

The Guy T. McBride Jr. Honors Program in Public Affairs for Engineers Award  
Presented to a senior in the McBride Program whose scholarship, character and personality best exemplify the ideals of the program as determined by the committee of tutors.  
Clara Levy  
Courtney Widhalm

The McIver - Metallurgical and Materials Engineering Faculty Award  
Presented from time to time by the faculty of the department to the graduating senior who, by participation in and contribution to campus life and by academic achievement, has demonstrated those characteristics of a well-rounded graduate that Mines aspires to develop in its students.  
Samara Omar

The Old Timers’ Club Award  
Presented to the graduating senior who, in the opinion of the department of mining engineering, has shown high academic standing in coal mining engineering and potential for the coal industry.  
Levi Rawlings

The Outstanding Chemistry Service Award  
Presented to the graduating senior who, in the opinion of the department of mining engineering, has shown high academic standing in coal mining engineering and potential for the coal industry.  
Orlando Martinez

The Outstandning Chemistry Service Award  
Presented to the graduating senior who, in the opinion of the department of mining engineering, has shown high academic standing in coal mining engineering and potential for the coal industry.  
Orlando Martinez

The Outstandning Chemistry Service Award  
Presented to the graduating senior who, in the opinion of the department of mining engineering, has shown high academic standing in coal mining engineering and potential for the coal industry.  
Orlando Martinez
The Outstanding Graduating Senior Award
May be presented by each degree-granting department to its outstanding graduating senior.

Mining Engineering
Kevin Moran

Geology and Geological Engineering
Carolyn Pauly

Petroleum Engineering
Jeffrey Olson

Geophysics
Ginevra Moore

Economics & Business
Kownoon Her

Metallurgical and Materials Engineering
Elliott Britvec

Chemical and Biological Engineering
Bethany Simonson

Brittany Schreiner

Chemistry and Geochemistry
Patrick Skelly

Physics
Daniel Schemmel

Applied Mathematics and Statistics
Taylor Chott

Computational & Applied Mathematics
John Wakefield

Civil and Environmental Engineering
Shae Quigley

Emma Ely

Electrical Engineering and Computer Sciences
Nathan Young

Max Eshleman

Mechanical Engineering
Isabel Goni-McAteer

Undergraduate Award
Presented to the International Student who has demonstrated Scholastic Achievement. Her academic achievements are even more impressive due to the fact that English is not her native language.

Chayapod Beokhaimook

The Outstanding Student Service Award
Presented by the Division of Student Life to the student/s who, during their tenure at Colorado School of Mines, outside and above their academic role, vigorously participated in activities or projects for the greater benefit of their peers and community to promote excellence and well-being.

Samara Omar
Joe Haines

The Thomas Philipose Outstanding Senior Award
Awarded to the senior in the Guy T. McBride Jr. Honors Program in Public Affairs for Engineers whose intellectual development, scholarship, leadership and character best exemplify the ideal of the Program.

Robert Kyle Flanegin

The Physics Faculty Distinguished Graduate Award
Presented from time to time by the faculty of the department to graduating engineering physics seniors with exceptionally high academic achievement in physics.

Daniel Rosen
Derek Hart

The George R. Pickett Memorial Award
Presented on the basis of demonstrated interests and accomplishments in the study of borehole geophysics.

Dana Gallegos

The President’s Senior Scholar Athlete Award
Presented to one graduating female and male athlete with a cumulative grade point average of 3.0 or higher, has lettered in a sport during their senior year, and who has demonstrated leadership qualities of an exemplary student-athlete.

Ann Miller
Gokul Natesan

The Phillip R. Romig Award
Presented to the graduate who best exemplifies excellence in the acquisition of field geophysical observations.

Michael (Andrew) Blaney

The Arthur B. Sacks Award for Excellence in Environmental Sustainability
Recognizes graduate or undergraduate students who have excelled in studying and raising awareness of environmental sustainability.

Robert Kyle Flanegin

The Ryan Sayers Memorial Award
Recognizes the outstanding academic achievements of a graduating student, majoring in engineering physics and/or mathematical and computer sciences, who has performed significant undergraduate research.

Kerrek Stinson

The Selim Memorial Scholarship
Presented by the faculty of the department of chemical engineering to a graduating student who promises great success in graduate school.

Ryan Gasvoda
Kathryn Sciamanna

The William D. Waltman, 1899, Award
Provided for by Mr. Waltman, is presented 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 and/or lady during the recipient’s entire collegiate career.

Leah Jaron

The H. G. Washburn Award
Presented in mining for good scholastic record and active participation in athletics.

Nicole Demontigny

School of Mines Senior Class Gift is a long standing tradition recognizing the numerous seniors who actively participated in acquiring contributions for the Senior Class Gift to the Colorado School of Mines. Thank you, Class of 2016, for partaking in this tradition of giving back to the institution. Your munificence makes a lasting difference for future Mines students and further advances the School’s long history of excellence.
ACADEMIC HONORS, SCHOLARS, AND HONOR SOCIETIES

Mines awards the academic honors designations of summa cum laude, magna cum laude, and cum laude. The honor cords worn by students earning the highest designation, summa cum laude, are royal blue and orange. Magna cum laude is represented by light blue and orange. Cum laude is represented by silver and orange. Honor cords and stoles are also worn to signify involvement in honor societies, scholars programs, and recognition of international students.

Scholars and Special Programs
Many Mines students benefit from scholarships provided by our generous alumni and friends. The Harvey and Boettcher Scholars programs provide full tuition for four-years.

Harvey Scholars
Corrine Din
Robert Flanegin
Katie Gann
Deirdre Johnson
Hailey Meyer
Lucille Orsi
Jordan Partin
Steven Sandoval
Logan Yamamoto

Boettcher Scholars
Kevin Hartmann
Marisa LaRouche
Brandon Smith

McBride Honors Program
The Guy T. McBride Honors Program in Public Affairs allows students to explore the interfaces between their areas of technical expertise and the humanities and social sciences resulting in a minor in public affairs with the honors distinction.

Nor Aiman Khalidah
Ahmad Tarmizi
Molly Baron
Ashley Burk
Joshua Coors
Tessa Cummins
Emma Ely
Robert Flanegin
Creed Flynn
Clara Levy
Sean McGinley
Michelle Preston
Bianna Robinson
Joan Sanborn
Richard Sebastian-Colman
Alyssa Spomer

Blue Key Honor Society
Recognizes students for balanced all-around excellence in scholarship, leadership and service.

Adam Ahnhut
Chayapod Beokhaimook
Taylor Chott
Cory Cline
Allison Crouch
Anna Corman
Clare Decker
Dan Dupuis
Mohammad Faruque
Hannah Blum
Trey Hubert
Leah Jaron
Vishnu Goud Kadirisani
Robert Keller
Melinda Krebs
Nolan Leue
JoshuaMcCulloch
Patrick Ogilvie
Samara Omar
Madison Post
Michelle Preston
Sampson Ramsay
Carolyn Reilly
Daniel Shang
William Sirola
Alyssa Spomer
Rita Stauter
John Stuntz
Jenny Wolicki

Order of Omega
Recognizes outstanding leadership in fraternity and sorority systems.

Corinne Beck
Keira Bell
Libby Booton
Karlie Gande
Julian Uy
Michael Warren
Vincent Rignol
Hannah Govett
Jennifer Jacobs
Johanna Smith
HannahKirkeide
Marisa LaRouche
Zachary Carlson

Phi Beta Delta
Recognizes achievement through international educational exchange.

Kamilia Putri

Tau Beta Pi
National Honor Society of Engineers

Elliot Gatley Britvec
Corey Brugh
Cory Cline
Caleb Alexander
Courkamp
Shannon Craig
Tessa Cummins
Tucker Darby
Clare Decker
Jason Dibble
Corrine Din
Maxwell Eshleman
Michael Eustis
Ryan James Gasvoda
Mitchell Hinds
Sean Hoef
Alexis Humann
Dane Hyer-Peterson
Neumann Jacob
Leah Jaron
Kyle Kaminky
David Cameron Long
Zoe Lyman
Claire Mahoney
Andre Montes
Jacob Neumann
Cory A. Nunez
Carolyn Pauly
Steven Rennolet
Austin T Roberts
Steven Sandoval
Brittany Schreiner
Austin C Shaffer
William Sirola
Holden Steppan
Kaitlin Sweeney
Ian Tappan
Yee Wei Teoh
David Van Akkeren
Philip Walker
Benjamin Wallen
Jake Wands
Ryan David Wareham
Quinton Weber
Courtney Widhalm
Logan Yamamoto
Kevyn Young
Nathan Young

MILITARY COMMISSIONS

The following students will be commissioned as Second Lieutenants in the United States Air Force:
Michael A. Blaney
Kristina M. Gately
Matthew S. Jaszai

The following student will be commissioned as Second Lieutenant in the United States Army:
Julian J. Uy

GRADUATE AWARDS

ME Outstanding Dissertation Award
Presented to the ME Ph.D. student whose has demonstrated outstanding achievement and impact in research through the publication and presentation of his/her dissertation and associated publications and professional presentations.

Nathaniel T. Pickle

Mendenhall Prize
Awarded to graduating MS or PhD students who, throughout their graduate program, have demonstrated outstanding academic performance, the ability to conduct cutting-edge research, and the highest standards of integrity and professional conduct.

Satyan Singh

Dr. Bhakta B. and Sushama Rath Research Award
Awarded for the best Ph.D. thesis with the potential for the greatest societal impact.

Laura E. Condon
Advisor: Reed M. Maxwell, Professor of Geology and Geological Engineering
FACULTY AWARDS

The Dean’s Excellence Award
Recognizes a full-time tenured or tenure-track academic faculty member who has demonstrated significant and meritorious achievement in teaching and scholarship.

Dr. Carolyn Koh
Professor of Chemical and Biological Engineering
Dr. Koh is the Director of the Center for Hydrate Research with expertise in the fields of gas clathrate hydrates, inclusion compounds and hydrophobic hydration. Dr. Koh has more than 145 peer-reviewed publications, and is co-author of the definitive book on hydrate science. In the classroom, Dr. Koh has a gift for connecting with students through her lectures and active learning techniques and she has received numerous teaching awards including the Order of the Omega Teacher of the Year in 2012 and Outstanding Faculty Member from the CBE Senior Class in 2013.

The CSM Teaching Award
Presented to recognize superior teaching at the undergraduate level over a period of several years and to provide encouragement and incentive for teaching achievement.

Dr. Cynthia Rader
Teaching Professor of Electrical Engineering and Computer Science
Dr. Rader has taught computer science at Mines since 2000. She is recognized as an instructor who tirelessly and patiently works to educate students. Dr. Rader’s pedagogical innovations include project-based learning that mimics industrially relevant “agile” software development practices allowing students to acquire the important skill of test-driven development (TDD). She has developed online-mediated courses and instructional videos as well as restructured and designed classroom instruction in which she integrates state of the art tools.

Dr. Amanda Hering
Assistant Professor of Applied Mathematics and Statistics
Dr. Hering joined Mines in 2009. Since joining Mines, Dr. Hering has taught a variety of courses in statistics and multivariate analysis. Dr. Hering’s demonstrated excellence in teaching is seen in the innovation she brings to her classes, including the incorporation of poster sessions that attract representatives from industry and allow her students to make the transition from the abstractions in the classroom to the practical issues involved in real-world applications. She developed the Statistics Practicum in which students work on independent projects creating statistical models to solve real-world issues provided by sponsoring organizations.

The Alfred E. Jenni Faculty Fellowship
Awarded to a faculty member based on track record of scholarship in educational research and development; reputation among students for strong dedication and concern toward their learning, and a vision of how the individual will contribute to institution-wide enhancements in education and how this vision can be translated into viable actions.

Dr. Kip Findley
Associate Professor of Metallurgical and Materials Engineering
Dr. Kip Findley has developed new laboratory exercises to enable students to better understand underlying principles in the field of Metallurgical and Materials Engineering. His NSF Research Experience for Undergraduate (REU) grant focused on Advanced Metallurgical Design for Transportation, Infrastructure, and Energy and was considered a huge success by the participating undergraduates. He received the MME Outstanding Faculty Award in 2010 and the NSF Early Career Development Award in 2010.

Mr. John Persichetti
Teaching Associate Professor of Chemical and Biological Engineering
Professor Persichetti has incorporated biology and bioprocessing into the Chemical and Biological Engineering design curriculum, has excelled as an undergraduate educator and is the lead instructor in the capstone design course and summer Field Session. He brings relevant chemical, environmental and bio-based engineering experience to the courses he teaches and he has significantly restructured and developed multiple courses, providing students an industrially relevant and innovative design viewpoint.

Emeritus Faculty
Distinguished faculty members announced their retirement during the past academic year and have been awarded Emeritus Status. Mines’ University Emeritus faculty have demonstrated exemplary service through a distinguished teaching career and achievement of national and international recognition through outstanding scholarship.

Dr. Tom Davis
University Emeritus Professor of Geophysics

Dr. Brajendra Mishra
University Emeritus Professor of Metallurgical and Materials Engineering

Dr. Chester Van Tyne
Emeritus Professor of Metallurgical and Materials Engineering

Dr. Terence Young
Emeritus Professor of Geophysics
Marvin L. Kay graduated from Colorado School of Mines in 1963 with a degree in Mining Engineering and as an Army ROTC Distinguished Military Graduate. The future Orediggers football coach and athletics director was literally born on campus during his father’s junior year and grew up playing sports among the mining towns on Colorado’s Western Slope. The man who would devote most of his life to Mines never saw himself heading anywhere else.

As a student at Mines, Kay was very active in athletics and student life. He was honored to serve as President of two classes and his fraternity. In athletics he lettered in wrestling and football and earned small college All American honors in football and a free agent contract with the Denver Broncos.

After serving two years as a lieutenant in the Army Engineer Corps he returned to Mines in 1966 to begin his career in the Department of Athletics. His first assignments were as the freshman football coach and head swimming coach. In 1969 he was appointed head football coach, a position he held for 24 years and following that served nine years as director of athletics. After retirement from athletics in 2003 he joined the Colorado School of Mines Foundation where he serves today.

During his time at Mines, Kay has been active in the Golden Community. He was on the Golden City Council for 12 years and served as mayor for eight of those. He continues his involvement today with several community organizations. Marv has been honored with several civic, philanthropic and athletic awards but is most honored by those from Mines, including the Mines Medal, Mines Faculty Distinguished Lecturer, having spirit mascot Marvin the Miner named in his honor, induction in the Mines Athletic Hall of Fame, and his name on the Marv Kay Football Stadium.

Marv and his wife Diane continue to live in Golden and enjoy spending time with their two daughters, Chandra and Kendra, and their families, also Golden residents.
Colorado State Senator Owen Hill is the chairman of the Senate Education Committee, vice-chairman of the Senate Finance Committee, and a former U.S. Air Force Captain. He is a graduate of the U.S. Air Force Academy and holds a Ph.D. in Economic Policy Analysis from the Pardee RAND Graduate School.

At the Air Force Academy, Hill began a major in mechanical engineering, but quickly shifted to Operations Research. This major, together with the Air Force Academy’s rigorous core curriculum covering topics from physics to philosophy and thermodynamics to military theory, provided the spark of curiosity that quickly fanned into a fire for learning, no doubt aided along by his chemical engineer father and biology teacher mother.

After completing his PhD dissertation on efficiencies in aircraft modernization practices, Hill was stationed at Peterson Air Force Base in Colorado Springs. Following his career in the Air Force, Hill was CFO for Compassion International, a worldwide children’s advocacy nonprofit serving over 1 million children in 27 countries.

Hill began his political career in 2009 and won a seat in the State Senate in 2012 representing El Paso County. During the Senate’s off-season (June–December) Senator Hill operates a small business servicing American nuclear ballistic missile warning systems around the globe. This physical work, which entails rappelling off of the missile, provides a rich balance to his political career and education advocacy work.

Senator Hill and his wife Emily reside in Colorado Springs with their four children.
COLORADO SCHOOL OF MINES: A TRADITION OF INNOVATION

Since its founding in 1874, the Colorado School of Mines has distinguished itself by developing educational and research programs that address the world’s critical needs for energy, materials, water, and the responsible stewardship of the earth. This nexus between the earth, the environment, and society’s need to generate and distribute energy in an economic and sustainable way is central to Mines’ specialized mission. Today’s graduates continue the Mines tradition of innovation and take their place in a long line of alumni who have put their degrees to work to advance the frontiers of knowledge in both the traditional and emerging fields of science and technology.

CONFERRING DEGREES

Departmental degrees are awarded at Colorado School of Mines according to the order in which the department or program originally conferred a degree, dating back to the first Mines commencement in 1883, at which two Mining degrees were awarded. The College of Engineering and Computational Sciences, established in 2011, offers the newest degrees.

SILVER DIPLOMAS

While the degrees granted by Colorado School of Mines are valuable and unique, so are the diplomas themselves. The Mines silver diploma is a long-standing tradition dating back to 1933 when Charles A. Hull engraved a silver diploma as a gift for his son, a recent graduate. The diploma caught the eye of then President Melville F. Coolbaugh, who asked that silver diplomas be made for all Mines graduates.

Starting with the commencement of 1934, Mines began issuing silver diplomas, measuring 5 by 6 inches and etched into pure sterling silver. Creating these diplomas required two men spending six weeks (or 500 man hours) making 19 delicate etchings in each diploma.

Today the tradition of metal diplomas continues, with all students receiving a silver/nickel plated diploma upon graduation from Mines.
ACADEMIC REGALIA: CAPS, GOWNS, AND HOODS

The academic dress worn by today’s graduates reflects a tradition begun in the late twelfth century, when universities were taking form, and codified in the U.S. in 1895 under the Academic Costume Code. Originally the dress may have had a practical purpose: to keep the student warm in unheated buildings, but today it is ceremonial and divided into three parts: caps, gowns, and hoods.

The traditional cap is the mortarboard with colored tassels to identify the graduate’s discipline or field of study. Doctors of Philosophy wear a gold tassel, Master of Science a yellow tassel, Master of Engineering an orange tassel, and Bachelor of Science a black tassel.

Bachelors’ and masters’ gowns are untrimmed (though women may wear white colors with a bachelor’s gown), but doctors’ gowns are faced down the front with velvet and trimmed with three velvet bars across the sleeves. The velvet facing and bars are black or the color of the field of study.

Hoods are also black. The doctor’s hood is four feet in length, the master’s three and one-half feet. Colorado School of Mines hoods are lined with silver and blue, the official school colors. The velvet border on the hood, which is three and five inches wide for the master’s and doctor’s degree, respectively, identifies the field of study to which the degree pertains. Colorado School of Mines hoods have yellow velvet borders for Master of Science, orange velvet borders for Master of Engineering and blue velvet borders for Doctor of Philosophy.

UNIVERSITY MACE

The Colorado School of Mines Faculty Senate Distinguished Lecturer, Dr. Tracy Camp, carries the mace, which has a rich history as a symbol of authority back to the 13th century. In commencement processions, the mace is carried before the president and the dignitaries composing the platform party. The Mines Mace stands 4 feet 8 inches high and weighs 16 pounds. The core is a rosewood staff, covered by fitted brass and cast bronze, silver plated, and topped by Mines mascot Blaster. Mines Professor Emeritus Robert Taylor executed the design and Mr. Emil Dangreau produced the finished standard with the official school seal photoengraved on the base of the staff.

THE BOOK: De Re Metallica

The Colorado School of Mines Faculty Senate President, Dr. Ken Osgood, leads the academic portion of the commencement procession, carrying a replica of the sixteenth-century treatise De Re Metallica. Widely regarded as the seminal text on mining and the science of metallurgy, this historic volume serves as a symbol of the body of knowledge shared by Mines’ faculty and students.

The book is placed on a stand at the front of the stage. Its opening marks the start of the commencement ceremony and also recalls the beginning of the students’ education at the school. The ceremony’s end is signified by the closing of the book.

A first edition of De Re Metallica, written by Georg Bauer under the pseudonym Agricola and printed in 1556, resides in the vault of Mines’ Arthur Lakes Library, as does a subsequent edition printed in 1621. In addition to these original texts, the library also houses several copies of Herbert Hoover’s 1912 translation from the Latin, including one signed by the nation’s 31st president and his wife, Lou. Hoover contributed the introduction and lengthy footnotes. He visited mine sites and carried out Agricola’s formulas in laboratories to check the translations. Issued in a limited edition, it quickly became a collector’s item. Of the 3,000 copies printed, more than half were given free to mining engineers and students.

PRESIDENTIAL MEDALLION

The silver medallion, worn only by the president of the Colorado School of Mines, was designed by Dr. Rex Bull, an emeritus professor in the George S. Ansell Metallurgical and Materials Engineering Department, and cast by students using silver donated by the Colorado School of Mines Alumni Association. It was first used at the inauguration of Dr. George S. Ansell as the 13th president of the school on February 8, 1985.
MINES ALMA MATER
The Mines Alma Mater, to the tune of Aura Lee, is played during the Commencement Recessional, to acknowledge graduates’ transition from Mines students to Mines alumni. Lyrics for the Mines Alma Mater were written by Lois Moessner Leonard, wife of Weldon I. Leonard, Engineer of Mines, 1949.

Raise your voices engineers, your devotion sing
To the greatest School of Mines, let the chorus ring
Hail to thee, C.S.M. to our hearts most dear
Ev’ry miner lauds name and ev’ry engineer.

Honor, glory to thy name, these we pledge anew
While we live to sing thy fame, Alma Mater true
Hail to thee School of Mines, silver and blue
Ev’ry Miner sings thy praise, Alma Mater true.