One Hundred Eighty-Fifth Commencement

Saturday, May Seventh
Two Thousand and Twenty-Two
The Monument Ice Arena
ORDER OF CEREMONY

Master of Ceremonies
Dr. Lance Roberts

Processional (Stand)
Graduation Band

Pomp and Circumstance by Elgar, arranged by Larry Clarke

Presentation of Colors
Army ROTC Color Guard

President’s Message
Dr. Jim Rankin

Recognition of the 50 Year Graduates
Dr. Lance Roberts

Senior Class Representative’s Message
Mr. Jacob West

Message from the Board of Regents
Mr. Jeff Partridge

Commencement Address
Dr. Billy Mills

Presentation of Honorary Degrees
Dr. Jim Rankin

Conferral of Degrees
Dr. Jim Rankin

Presentation of Degree Candidates
Dr. Joseph Dlugos

Retirement of Colors
Army ROTC Color Guard

Recessional (Stand)
Graduation Band

Flourishes! by William Owens

SOUTH DAKOTA MINES GRADUATION BAND

Dr. Haley Armstrong, Director
Christian Olson, Trombone
Kaden Adrian, Trumpet
Andrew Peterson, Percussion
Angelina Benda, Clarinet
Kole Pickner, Euphonium
Kyle Bergevin, Alto Sax
Sara Ringheimer, Flute
James Gormley, Cello
Margaret Thompson, Flute
Micah Hoylman, Trumpet
Noel Utecht, Euphonium
Jacob Jorgenson, Trumpet
Derek Whitesides, Tuba
Carolyn Kocken, Flute
Cherokee Winkler, Cello
Karen Ly, Oboe
Tanner Ziwicki, Bass

This program is not an official document. Due to strict requirements, it must be printed before the final list of degree candidates can be determined.
50-YEAR GRADUATES
CLASS OF 1972

300 graduates (237 BS degrees, 62 MS degrees, 1 PhD)
Only those attending today's Commencement are listed below.

Michael Alley, Geological Engineering, Nemo, SD
Robert Apa, Chemical Engineering, Boise, ID
Bruce Bad Moccasin, Civil Engineering, Rapid City, SD
Gary Baker, Electrical Engineering, Akron, OH
Ronnie Baruth, Mining Engineering, Alpena, SD
Alan Blair, Civil Engineering, Grand Island, NE
Bonnie (Koskan) Blair, Chemistry, Grand Island, NE
Bob Buchanan, Electrical Engineering, Rapid City, NE
Jerald Byg, Civil Engineering, Ames, IA
Jim Christman, Civil Engineering, Fontana, CA
Rick Clegg, Civil Engineering, Rapid City, SD
Barbara (Johnson) Coles, Chemistry, Williamston, MI
Gary Coles, Mechanical Engineering, Williamston, MI
Dan Daniels, Mechanical Engineering, Fort Wayne, IN
Gary Doolittle, Geological Engineering, Austin, TX
Gary Evensen, Mining Engineering, Rapid City, SD
Harald Flatøen, Mechanical Engineering, Bellevue, NE
Joel Grace, Mining Engineering, Cheyenne, WY
Douglas Ham, Civil Engineering, Shadehill, SD
Ted Heidrich, Mechanical Engineering, New Underwood, SD
John Hey, Mechanical Engineering, Rapid City, SD

Don Hixson, Chemistry, Rapid City, SD
Bill Klapperich, Civil Engineering, Spearfish, SD
Dale Koepp, Mathematics, Colorado Springs, CO
Greg Kronaizl, Mechanical Engineering, Elkhorn, NE
Jerry Lipovsky, Mechanical Engineering, Sioux Falls, SD
David Nold, Chemical Engineering, Highlands Ranch, CO
Daniel Nusz, Mechanical Engineering, Cheyenne, WY
Curt Olson, Mechanical Engineering, Rock Springs, WY
Mat Peabody, Chemical Engineering, Alto, MI
Larry Pearson, Mechanical Engineering, Bennington, NE
Steven Pirner, Civil Engineering, Pierre, SD
Jim Quinn, Civil Engineering, Rapid City, SD
Paul Schauer, Electrical Engineering, Scottsbluff, NE
Lyle Steffen, MS Geology, Nemo, SD
Larry Trautman, Metallurgical Engineering, Lemmon, SD
Leo Van Sambeek, Mining Engineering, Hermosa, SD
Allan Walters, MS Chemistry, Potomac, MD
Mr. Jacob B. West

Jacob B. West came to South Dakota Mines after graduating from Sturgis Brown High School in Sturgis, SD. His parents are Kristen and Wade Huntington, and Brad and Karine West. He has two brothers, Joshua and Adam West, and two step-siblings, Katie and Kade Huntington.

West has been involved in various clubs and activities while at South Dakota Mines. He served on the Student Association Senate since 2018 in several committees and most recently as vice president. He is the business manager and a regent of the Theta Tau professional engineering fraternity, treasurer of the Order of Omega Greek honor society, a first-year student mentor, and an orientation leader. He served on the South Dakota State Student Council Association from 2015 to 2018, as state president for two years and Rushmore Region reporter for one year, winning the All-State Student Council award in 2018. He has worked as a videographer, graphic designer, website designer, sound technician, stagehand, database administrator, and photobooth owner. He is currently interning at Omnitech, Inc., in Sioux Falls.

After graduating with his Bachelor of Science degree in computer science, West will be working at Omnitech in Rapid City as a software engineer and outside sales representative.
Mr. Don Barnett

Don Barnett graduated from Rapid City High School in 1960 and received a bachelor's degree in political science from South Dakota State University in 1964. He served in the U.S. Army from 1967 to 1969. His military service included a tour in Vietnam as commander of a medical company, and he earned a Bronze Star for meritorious achievement as a result.

In 1971, he was elected mayor of Rapid City, becoming its youngest mayor at the age of 28. During his tenure, he led the city through four turbulent years, including the long recovery process from the Black Hills flash flood of 1972, which caused $165 million in damage and killed 238 people; and the heightened racial tensions, violence, and resulting American Indian Movement's civil disobedience in 1973. His guidance led to the development and construction of the Rushmore Plaza Civic Center (now known as the Monument), the central fire station, and the Dahl Fine Arts Center.

He founded three cable television corporations and was responsible for preparing and managing the application process for dozens of cable television franchises in seven states. He then served as vice president and national marketing director for First Golf Corporation, a golf course development firm which led to the creation of 20 public golf facilities in 11 states. He later worked in marketing at THK Associates in Aurora, Colorado, providing financial feasibility, land planning, and landscape architecture services.

He retired in 2010. He is an author, recipient of the 2018 Monsignor William O'Connell Founders Award by Catholic Social Services, and a 2011 inductee into the South Dakota Hall of Fame.
William “Billy” Mills, a member of the Oglala Sioux Tribe, was born in Pine Ridge and raised on the Pine Ridge Indian Reservation. Orphaned at age 12, he took up running, and set records in numerous track events during high school at the Haskell Institute in Lawrence, Kansas, a former residential boarding school for Native American children now known as Haskell Indian Nations University. He earned a track scholarship to the University of Kansas, where he excelled in cross country. He became a three-time NCAA All-American cross-country recipient and won the individual title at the Big Eight cross-country championship in 1960. After graduating, he served in the U.S. Marine Corps Reserve from 1962 to 1965.

Mills was largely unknown in the running world when he qualified for the 1964 Summer Olympics. His competition included Ron Clarke of Australia, the world record holder at the time. Mills became the first and remains the only gold medalist from the U.S. in the 10,000-meter run. His winning time of 28:24.4 was almost 50 seconds faster than he had run before and set a new Olympic record for the event.

Mills later set U.S. records for the 10,000-meter run and the three-mile run. He and fellow American Gerry Lindgren both broke the six-mile run world record in 1965, when they finished in a tie at the Amateur Athletic Union (AAU) National Championships.

He has been inducted into the U.S. National Track and Field Hall of Fame, the U.S. Olympic Hall of Fame, National Distance Running Hall of Fame, the Kansas Hall of Fame, the South Dakota Hall of Fame, the San Diego Hall of Fame, the National High School Hall of Fame, the American Indian Athletic Hall of Fame, and the National Native American Hall of Fame. He is an author, public speaker, and co-founder of the nonprofit organization Running Strong for American Indian Youth.
GRADUATE DESIGNATIONS

† Army ROTC Cadet being commissioned as Second Lieutenant
‡ 2020 Graduate
‡‡ 2021 Graduate
‡‡‡ Summer 2022 Graduate
¥ Honors Program Graduate

BACHELOR OF SCIENCE DEGREE

*Cum Laude
**Magna Cum Laude
***Summa Cum Laude

White Tassels
Red Tassels
Gold Tassels

3.50 - 3.69 GPA
3.70 - 3.89 GPA
3.90 - 4.00 GPA
DOCTOR OF PHILOSOPHY DEGREE CANDIDATES

Biomedical Engineering
Zhipeng Liang
*Electrospun Three-Dimensional Nanofibrous Structures for Biomedical Applications and Wearable Sensors*

Chemical and Biological Engineering
Tanvi Govil
*Green Manufacturing of Polyhydroxyalkanoate in a Single Step Consolidated Thermophilic Mini-Cell Factory*

Abhilash Kumar Tripathi
*Applications of Omics Technology in Deciphering Microbial Mechanisms in Environmental Waste Management*

Geology and Geological Engineering
Brooke Lamonte Long-Fox
*Environmental and Phylogenetic Controls on Shells morphology in the Chemosymbiotic Lucinidae (Bivalvia)*

Geology, Geological Engineering, and Mining Engineering
Richard Amoako
*Applied Machine Learning in Mine Safety and Short-Term Underground Mine Production Scheduling*

Fleford Santos Redoloza
*Investigating the Use of Convolutional Neural Networks and Generative Adversarial Networks for Hydrogeological Inverse Modeling of Channelized Aquifers*

Nanoscience & Nanoengineering
Tochukwu Michael Emeakaroha
*Spectrally-Resolved Multiphoton Image Scanning Microscopy of Natural Vascular Scaffolding in Porcine Arterial Walls and Other Biomaterials*

Xavier Mary Jesintha Pasala
*Dislocation Density in GaAs Thin Films and Quantitative Determination of Order-Parameter in Ordered-ALnP/GaInP Alloys Using Transmission Electron Microscopy*

Ram Saraswat
*Novel Micropatterned Biphasic Platform for Maintaining Chondrocyte Phenotype*
MASTER OF ENGINEERING DEGREE CANDIDATES

Safety Management
Samantha Elizabeth Steffeck

MASTER OF SCIENCE DEGREE CANDIDATES

Atmospheric & Environmental Sciences
Laramie Jaela Colvin
Austin Joseph Jerke
Joseph Map Kragness

Biomedical Engineering
Kyle Jacob Bergevin
Brock Don Folkers
Zachary Isaiah Nix

Chemical Engineering
Gorky
Jordan Alex Hoops
Gregory Warren Opdahl
Dipayan Samanta

Civil and Environmental Engineering
Anna N. Allen
Tanner Allen Jacobs
Joseph Leonard Luebbers
Joseph Bryan Mulcahey
Louis Arthur Ratcliffe
Garrett Edward Roach
Emily Elise Sande
Austin James Stahlke
Joshua Allen Trapp
Andrew Josiah Benjamin Undt
Computer Science and Engineering
   Adam Lee Lenox

Construction Engineering and Management
   Franklin Joseph Luczak
   Ira Michael Pace Murphey
   Timothy Richard Myers
   Cornelio Adrian Perez
   Connie Jean Zehms

Electrical Engineering
   Md Ali Azam‡
   Anthony Dale Benitez
   Firas Slewa Dawod
   Brandon Michael DeVries
   Jamison Scott Duckworth
   Dalton Anthony Lund
   Liam Carrington Samuelson McEuen
   Skye Itza-Chu Rutan-Bedard

Engineering Management
   Antonio Bano-Sanoguera
   Miranda Faith Berge
   Gerrit Tyler DeVries+++‡‡‡
   Nathan D. Guymon+++‡‡‡
   Kassidy Yvonne Kitzmiller¥
   Maggie Ann Sebert
   Abigail Alana Stark
   Ryan Elizabeth Weiss
   Beau Jackson White

Geology and Geological Engineering
   Erica Wong Cung
   John Bruce Hewitt
   Stephanie Alicia Loose
   Mathew Nicholas Weinberger‡‡

Industrial Engineering
   Grant Thomas Syverstad
Materials Engineering and Science
   Madilyn Rae Fesenmaier
   Kirstie Marie Gildemeister‡‡‡
   Kal Aaron Imlay

Mechanical Engineering
   Hayley Mikah Benson
   Elise Margaret Flachs
   James Ryan Gormley
   Strauss Carl Langrud
   Renner McArthur Larson
   Christian Louis Leckband
   Thomas Mathias Machamer
   Nicholas Eric Pugh
   Nicholas Kolby Zell‡‡‡

Mining Engineering and Management
   Clint William Kling
   Archibald Warren Minerich

Paleontology
   Michael E. Cyrier
   Carolyn Marie Kocken
   Colleen Ann Sullivan

Physics
   Jairo Heran Rodriguez Rondon
BACHELOR OF SCIENCE DEGREE CANDIDATES

Applied Biological Sciences
Maya Isabelle Johnson

Applied & Computational Mathematics
Jordan Marie Baumeister
Anna Combalia I Pardo
Jacob Todd Harris
Peyton James Krahulik
Daniel Joseph Madden
Dustin N. Reff
Ian Matthew Shaver
Raiza Carmen Soares**
Jarod Tyler Svensson*
Benjamin Pratt Titus***

Atmospheric and Environmental Sciences
Lexy Ezrah-Jade Elizalde
Bryce Andrew McDermaid

Biology
Aubrey Corrine Gonsorowski
Anna Christine Thomas
Micaela Elise Zachmeier***

Biomedical Engineering
Kody Ray Hanson
Andrew James Kramer
Ethan Daniel Nesbit
Alexandra R. Reader
Adam Scott Trapp

Business Management in Technology
Dylan Thomas Colt
Darik Ethan Dudley
Kyle Thomas Haddix
Jonathan Aaron Mack
Elexious Shadrach Musick
Addie Jennine Stanley
Aren Charles Wells
Allec Marc-Kristopher Williams
Chemical Engineering
Helen Ayn Babits**
Shyann B. Bastian**
Henry Jacob Brouwer
Faith Marie Chambers
Nathan Timothy Claver*
Timothy T. Dunham
Rachel Yolanda Engel
Christen Violet Gauker*
Whitney Jimngang Djeumen***
Melissa Kay Johnstone*
Spencer A. Jones*
Isabel Olivia MacLachlan*
Ryan Moen**
Paiton Ann Mueller
Adam Jon Namyst
Trigg Scott Peasley*
Jessica Ann Peterson**
Drake Landen Schafer***
Kahlee Marie Taylor
Henry M. Washnok
Jacob Zoellner Wingert

Chemistry
Tatiana Irene Beasley
Audrey Elsa Dunn‡‡‡
Adam Mitchell Price
Greydon Scott Shangreaux

Civil Engineering
Dillon Andrew Batka
Devin Matthew Cheshier‡‡‡
Coleton Thomas Deitz***
Ashlee Jean Dikoff
Sydney Gabrielle Ferrie
Paige Renee Gehlsen
David James Gonzalez
Garrett Paul Jankord*
Cameron James Kenner
Jae JaRyn Kloker
Samantha Marie Kunkel
Jacob David Leone
Alexander J. Lesselyoung*
Emelia Rose Nelson
Brianna Clara Newman***
Cole Allan Peterson**
Alexus Drew Pierce*
Ethan Alexander Rader-Hunt
Naomi Loy Scherrer
Kyle David Schilling*
Isaac Kevin Schulz
Cole William Seiwald
Austin Taylor Shoun
Kate Lynn Sieverding
Megan Terese Stone
Nicholas Joseph Sudbeck**
Brandon Joseph Thomas**
Amanda Ann Tomes**
Taran Lynn Tucker
John Marek Vargo

** Computer Engineering
Joshua Wayne Crawford
Samuel Stosh Donovan
Caleb Lewis Ehrisman
Tanner Joseph Hohn
David Michael Mathews
Andrew Thomas Nelson
Graham Townsend Noble
Jarod James Osborn*
Samantha Marie Pfeiffer**
Dustin Bryan Richards**
Avery Charles Schroer
Vytautas Juozas Soderholm

** Computer Science
Minati Preetika Alphonso*
Dalton Scott Baker**
Jordan Marie Baumeister
Trevor Scott Bormann***
Jackson Stephen Cates***
Makiya Sol Crochiere
Ryan Christopher Driscoll*
Nathan Clint Fjelstad
Elijah James Flinders**
Lance Robert Henne
Daniel Kollodge
Peyton James Krahulik
James Matthew Leon
Ira Canfield Mitchell¥
Jarod James Osborn*
Andrew Glen Oveson
Madeleine Rose Price***
Dustin N. Reff
Jessica Michelle Roberts
Samuel John Ryckman***
Charles Thomas Scott Shook
Ranjun Arunjit Singh***
Raiza Carmen Soares**
Jay Charles Sprackling
Dana Marie Thomson**
Cole John Titze*
William Wendell Ward
Jacob Bradley West

Electrical Engineering
Christopher Daniel Belik
David Jeffrey Bolt***
Timothy Lawrence Crittenden
   Spencer Doriot
   Rebecca J. Fagrey*
   Spencer Daniel Gerdes
   Lane Hansen*
   Nicholas Byron Janovy
   Rhys Christopher Kenny
   Shawn Allen Kohl
   Toan Duc Luc
   Sasha Anne Mahlen
Liam Carrington Samuelson McEuen***
Christopher Jacob Mentele***
   Zachary George Mettler
   Courtney Jack Miller***
Dillon James Muntefering
Joshua Dean Powell***
   Jordan Robin Reed*
   Ryland James Schmitt**
   Abdoul Aziz Sore
   Anders Stenstadvolden***
Abdollah Abdolvahed Tavangar
Kelsey Megan Webb**
Cherokee Murie Winkler***

**Geological Engineering**
Samuel Babbage Hatfield
Koby J. Klassen**
Grace Marie Lickteig*
Richard Lim*

*Geology*
Corrine Roe Cranor***
Shawn Israel Enstrom
Sawyer Scott Hagen‡‡‡
Marissa Louise Holinka
Adam James Jaroszewski
Alice Gwen Morris
John Anthony Murzyn
Christopher James Patterson
Gabriel Stephan Poteet
Adam G. Vantellingen

**Industrial Engineering and Engineering Management**
Tanner A. Batka
Blake Andrew Benson*
Wyatt Andrew Dodge
Karlee Marie Dressen
Jonathan Robert Henkel
Jerald Cameron Hickey
Clint Nicholas Lewis
Jerrod Jeffrey Miller
Anthony Vernon Nelson
Jamie Michelle Pazour
Douglas William Wild Scott
Dessa Rae Spellman
Heidi Lynn Stiklestad*
Anthony Michael Ullrich
Chloe Elizabeth Wegehaupt
Samuel Douglas White
Sarah Marie Ziehm‡‡‡

**Interdisciplinary Sciences**
Taran Scott Multz
Mathematics
Alysha Briana Aitchison
Garrett Paul Jankord*
Lane Daniel Jensen**
John Anthony Murzyn

Mechanical Engineering
Alex Jordan Aldes
Tavis Michael Allam
Garrett W. Ames*
McCoy James Bila**
Nickolas Darling Bock
Mark Edward Boden
Emma Lynn Boeke
David Craig Boisjolie
Chandler M. Callejo**
John Milo Carter
John Parker Chandler
Thomas Callahan Creese*
Justin Hunter Davis
Jack Sterling Douglas**
Jay Joseph Dykstra
Trevor Scott Elliott
Adrian Taylor Epp
Andrew Oliver Ferguson
Quincy Cooper Ford
Emory Scott Fryberger
Madison Makay Goldsmith
Shane Price Good
Ryan Patrick Grant
Austin Samuel Gutknecht**
Samuel James Hagen
Kody Ray Hanson
Ethan Daryl Hartmann
Aaron Matthew Hoelscher
Zachary Dean Hogan*
Alec Bradley Hohn
David Manuel Holzberger
Logan Robert Horsberger
Bryce J. Howard*
Chayse A. Jimenez
Aren S. Jorgensen
Wyatt John Gowan Kainz
Ryan Rodney Kappenman
Parker Tennysen Kirby
Spencer Steven Kirkpatrick
Adrianna Marie Larson
Renner McArthur Larson***
Michael Benjamin Linde***
Philip Andrew Litecky*
Brandon Jeffery Maag
Patrick K. McDonagh
Tony Curtis Monroe*
Robert Vern Munyan
Frederic Henryk Muteba
Darren Andrew Nissen‡*
Isaac Zackary Orozco
Zeb James Parsons
Willem Purcell Peters
Russell Ivory Phillips**
Kole Samuel Pickner*
James Donald Plutowski
Joshua Dean Powell***
Trey Daniel Powell
McCabe Alexander Radzwill
Alex Antoine Robin*
Daniel Scott Rohde*
Kaleb David Roth*
Samuel John Ryckman***
Daniel David Rynders
Theodore William Scheafer
Andrew Robert Scherrer**
Jacob Carl Schlinkert
Skyler Bradley Scott
Sommer Rose Scott**
Maggie Ann Sebert***
Jason S. Shields*
Hunter Reed Sperling
Casey Paul Strong**
Curtis James Swanson
Kelvin Michael Sweetman
Morgan Marie Tatge
Margaret Helen Thompson***
Leif Riley Thorson*
Theresa R. Tourtillott
Noel Matthew Utecht
Cade Robert Venhuizen
Ian G. Waltz
Kaelin Anthony Washington-Blair
Jacob C. West*
Jarod Allen White
Derek Brennan Whitesides
Shayne Whitmyer
Wyatt Ward Wiening
Shon Bennett Williamson
Logan James Wolbeck
Collin Van Zur*

**Metallurgical Engineering**
Logan Malachi Baker
RyAnne Blau Nathan
Marissa Abenecia Hirchert
Christopher William Mathews
Estee O. Medberry
Tate Richmond Nickerson
Tanner York O'Hara

**Mining Engineering**
Rhett Buttleman*
Stephen M. Dobie*
Karli Jo Fortner
Connor Kirk Garside†††
Kyle Benjamin Hughes**
Johnathan Philip Juergens*
Jared Daniel Kennedy
Carson James McDaniel**
Jordan Toler

**Physics**
Seth Isaiah Bendigo**
Jace Oliver Dasher†
Ian Edmund Gaida
Marcus Issac Heintz†

**Pre-Professional Health Sciences**
Makenna Bodette
Emma Elizabeth Murphy**
Zoe Noel Ryherd
Victoria Paige Tucker

**Science, Technology, and Society**
Brandi Jean Monnot
THE TRADITION OF COMMENCEMENT

Dating back to the universities of thirteenth-century Europe, the conferring of degrees signified that faculty members had attained the guild status of a master. Originally, this "master's" degree was the only one offered; the baccalaureate was simply a stage toward mastership. During the ceremony, black robes were worn in imitation of the clergy, for church and university were one at the time. When the hood was placed over the candidate's head, the ceremony was consummated, and mastership was achieved.

Over the centuries, graduation evolved to commemorate more than the end of an educational endeavor or the mastership of a craft. Instead, it became the start of a new adventure, a passage to professional status recognized by the community of scholars and the community at large.

Today, we call this ceremony commencement, a term defined as both an act of commencing and the ceremony for conferring degrees. In essence, it means a beginning within an end. A middle English term, commencement traces its roots to Anglo-French, Old French, and finally, the Latin word, cominitiare, a combination of the prefix com and iniciare, meaning "together, begin," a fitting origin for a term that evokes a graduate's first steps taken in fellowship and a poignant reminder that in each destination lies a new dawn.

ACADEMIC ATTIRE

The use of academic dress stems from costumes used in universities of the fourteenth and fifteenth centuries, particularly at Oxford and Cambridge in England. The dress has been used in the United States since colonial times and was standardized by an Intercollegiate Code in 1895.

The style of gown and hood designate the degree earned. The bachelor's gown is royal blue without a hood and the sleeves are pointed; the master's gown is black and has oblong sleeves; and the doctoral gown is trimmed with velvet, has three distinctive chevrons on each arm, and bell-shaped sleeves.

The two colors on the inside of the hood are traditionally the colors of the college granting the degree. The School of Mines' colors are blue and gold; however, the hood for the School of Mines is gold and silver, symbolic of the university's connection to these precious metals. Caps are black mortarboards with the tassel worn over the left front quadrant.

As one may observe from the procession, the faculty wear hoods and gowns of varying styles and colors. The color of the tassel on the hat and the outside velvet trim of the hood indicate the field of study.
THE CEREMONIAL MACE

During today's ceremony, the chair of the faculty will carry the South Dakota School of Mines & Technology's ceremonial mace. The university mace is an academic tradition that dates back to medieval times. The mace has acquired the ceremonial function of “guarding” the president in the tradition of a medieval sergeant-at-arms.

The School of Mines mace was designed to represent the university's many disciplines. The handle was crafted from a fossil and represents paleontology, while the pink quartz sphere, encased in the symbol of an atom, symbolizes both geology and physics. The silver and gold signify the institution's rich mining tradition. The laurel leaf garland crown, fashioned from Black Hills Gold, represents a mark of honor, distinction, and success.

The mace was designed by Ms. Deborah Mitchell, former director of the Apex Gallery and associate professor in the Department of Humanities. The seal was engraved by Dr. Ryan Koontz, integrated manufacturing specialist for the Center of Excellence for Advanced Multidisciplinary Projects.

COMMENCEMENT COMMITTEE

Dr. Haley Armstrong
Ms. Ann Brentlinger
Dr. Joseph Dlugos
Ms. Diana Eastman
Ms. Morgan Else
Mr. Dane Finnesand
Ms. Gina Fiorello
Mr. Elijah Flinders
Dr. Jade Herman

Ms. Rachel Howard
Mr. Marlin Kinzer
Dr. Travis Kowalski, Chair
Ms. Michaela Mader
LTC Gregory Shipper
Ms. Rachel Skea
Dr. Vladimir Sobolev
Ms. Sarah Von Eye

SOUTH DAKOTA BOARD OF REGENTS

Ms. Pam Roberts, President
Mr. Jim Thares, Vice President
Mr. Tony Venhuizen, Secretary
Dr. Brian Maher, Executive Director
Mr. John W. Bastian

Dr. Joan Wink
Mr. Brock Brown
Mr. Jeff Partridge
Mr. Tim Rave

PHOTOGRAPHY SERVICES

The Grad Team will be providing photography services to the graduates. Photos will be available online at TheGradTeam.com/events approximately one week after the ceremony.