Message from the Dean

To the Spring 2013 University of New Mexico School of Engineering Graduates

I am delighted and honored to welcome you to the University of New Mexico School of Engineering Convocation. Today we celebrate the impressive accomplishments of our graduating students and acknowledge your dedication, commitment, and perseverance. It is a memorable day in your lives and a special day for those who helped you get ready for this graduation—family, friends, teachers, classmates, colleagues, coworkers, counselors, advisors, and more.

Your academic successes are likely to carry over into professional, personal, and social achievements. We are excited about watching your careers flourish and hope that you will always be part of our academic family.

As you graduate from our School of Engineering, remember that you are part of a distinguished tradition that started with the founding of the School in 1906 and will be continued by your own work across our beautiful state and across the world.

Our School and its graduates represent a powerful engine of economic and social development. You had the opportunity to witness first hand the creation of new ideas and technologies and to learn from leaders in the field of science and engineering. It is now your turn to creatively apply the knowledge and experience you gained during your studies for the good of society at large.

Graduates, we welcome you to the distinguished company of the School of Engineering alumni and wish you every success in your new endeavors.

Gruia-Catalin Roman
Dean, UNM School of Engineering
The laws of New Mexico provide for a Board of Regents which is responsible for the governance of the University of New Mexico. The Board’s power to govern the University includes fiduciary responsibility for the assets and programs of the University, establishment of goals and policies to guide the University, and oversight of the functioning of the University.

The Board is comprised of seven members who are appointed by the Governor of New Mexico, with the consent of the Senate, for staggered terms of six years except for the student regent, who is appointed for a two-year term. The Governor and the Secretary of Education are designated as ex-officio, non-voting members.

THE REGENTS
Jack L. Fortner, President
James H. Koch, Vice President
Lieutenant General Bradley C. Hosmer,
Secretary-Treasurer
J. E. "Gene" Gallegos
Conrad D. James
Suzanne Quillen
Heidi N. Overton, Student Regent

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Front cover: Civil Engineering Professor Jerald Rounds


Platform Party

DISTINGUISHED GUESTS
Douglas M. Brown, Dean, Anderson School of Management
Julie E. Allred Coonrod, Dean, Graduate Studies
Gregory Heileman, Associate Provost for Curriculum

SCHOOL OF ENGINEERING ADMINISTRATION
Gruia-Catalin Roman, Dean, School of Engineering
Charles B. Fleddermann, Associate Dean for Academic Affairs
Christopher D. Hall, Chair, Department of Mechanical Engineering
Michalis Faloutsos, Chair, Department of Computer Science
Ramiro Jordan, Associate Chair, Department of Electrical and Computer Engineering
John Stormont, Chair, Department of Civil Engineering
Timothy L. Ward, Chair, Department of Chemical and Nuclear Engineering

FACULTY MARSHAL
Bruce M. Thomson, Regents' Professor, Civil Engineering

KEYNOTE SPEAKER
Stephen C. Mitchell, P.E., President, Knight Group LLC
B.S., Civil Engineering, '66; M.S., Civil Engineering, '68; M.B.A., University of Chicago, '74

STUDENT SPEAKERS
Matthew Kerry Raymer, B.S., Civil Engineering, '13
Diane A. Oyen, Ph.D., Computer Science, '13
Keynote Speaker

Stephen C. Mitchell, P.E.

B.S., Civil Engineering, ’66
M.S., Civil Engineering, ’68
M.B.A., University of Chicago, ’74

Stephen C. Mitchell is a professional engineer with over 45 years in the design and construction industry. He is the President of Knight Group LLC, a Chicago-based privately held firm involved in the start-up, development and management of new ventures.

For 27 years, Mr. Mitchell was one of the two principal owners of Lester B. Knight & Associates, Inc., an international professional services firm involved in the planning, design and construction of world-class advanced technology research and development and manufacturing facilities. As the President, Chief Operating Officer and Director, Mr. Mitchell successfully guided the firm’s transition into the advanced technology markets.

Currently he is the Vice-Chairman and Director of Knight Facilities Management, Inc, a leading facilities management company for industrial, commercial and governmental clients in the U.S. and abroad.

Mr. Mitchell has been very active in civic and professional organizations, including chairing the Civil Engineering Research Foundation headquartered in Washington, DC. CERF focused on accelerating the introduction of innovation into the design and construction field. He also chaired the Illinois Coalition, a public-private partnership focused on science and technology-based development in the state.

An active member of the American Society for Civil Engineers, Mr. Mitchell served as president of the Illinois Section and was a national director and vice president of ASCE. He played an instrumental role in developing and promoting quality standards within the engineering community.

For several years, Mr. Mitchell served on the Board of Visitors for the UNM School of Engineering and on the UNM Foundation Board of Trustees.
Student Speakers

Matthew Kerry Raymer
B.S., Civil Engineering, '13

As a student athlete, Matt Raymer excelled not only academically but in time management and leadership skills while playing Lobo football. Matt started playing Lobo football as a walk-on (without a scholarship). He improved every season and became an integral member of the defense in 2012. He was such a valuable player that coach Bob Davie was quoted as saying, "I can win with a team full of Matt Raymers." In 2012, Matt was nominated for the Bulworth Award, which goes to the nation's best player who began his career as a walk-on. He received the Chuck Cummings Most Inspirational Award, the Clyde Hill Most Improved Player Award, and the New Mexico Man award.

Matt earned a 3.5 cumulative grade-point average in his undergraduate program. He likes the design and hands-on aspects of civil engineering and is going to pursue a graduate degree in civil engineering at UNM this fall.

Diane A. Oyen
Ph.D., Computer Science, '13

After receiving her B.S. degree in Electrical and Computer Engineering from Carnegie Mellon University in 1998, Diane worked in industry designing computer chips for three years. When she and her husband moved to Albuquerque, Diane taught high school math for four years and then began graduate school at UNM.

While pursuing her Ph.D., Diane did research at the Mind Research Network modeling networks in the brain and at NEC Laboratories modeling protein networks. She studied how networks change as people learn, blood proteins in cancer patients, and patterns in functional MRIs for people with schizophrenia. She thoroughly enjoyed the research and the potential to help people by diagnosing disease. "I get to do brain research even though I'm not a neuroscientist and haven't taken college-level biology," she says. This fall, Diane will work for Los Alamos National Laboratories doing image analysis from satellites and microscopes to detect particular sets of elements in materials.
George E. Breece Award

The George E. Breece Award was established in 1921 to honor the UNM School of Engineering senior with the highest grade point average from each graduating class. The recipients of this award consistently have grade point averages higher than 4.0, reflecting a majority of A+ grades throughout their undergraduate courses.

Mitchell Conner Malone
B.S., Electrical Engineering, '13

Mitch grew up in Fort Worth and attended Oklahoma State University for a year. He came to UNM because it is one of the few universities in the country to offer a degree in Nanoscience and Microsystems (NSMS).

Mitch says that from an early age, his older brother influenced him to pursue nanotechnology, advising that these elements that are 50,000 times smaller than a human hair are the materials, structures, and machines of the future. In the fall, Mitch plans to pursue a Ph.D. in NSMS at UNM. While working on his undergraduate degree, Mitch worked with Dr. Mani Hossein-Zadeh on a nanotechnology project, an opportunity for him to get hands-on experience in the field that interests him so greatly.

Mark Sinclair Montoya
B.S., Computer Science, '13

Mark says Computer Science is a great field for him because “it fits the way I think.” Since March 2012, he has interned at Sandia National Laboratories designing software for large-scale applications.

Recently Mark received the prestigious Master’s Fellowship, a program where Sandia pays for exceptional bachelor’s-level minority candidates to receive fully funded master’s of science degrees. Mark will work at Sandia during the summer and receive an annual stipend while at school, then has guaranteed placement in an appropriate technical staff position at Sandia after receiving his master’s. Mark’s top choice was University of California, Los Angeles; that’s where he will be this fall, pursuing a master’s degree in Computer Science.

Mark also enjoys hiking, especially the strenuous La Luz Trail in the Sandias, where he can hike, take a lunch break, then ride down the mountain on the tram.
Convocation Traditions

Throughout their long and proud history, universities have retained and cherished strong ties to their ceremonial roots. When English universities were taking form in the twelfth and thirteenth centuries, scholars were also clerics. They adopted robes similar to those of their monastic orders. Caps were a necessity in the drafty buildings and copes, or capes with hoods attached, were needed for warmth.

School of Engineering Convocation

The School of Engineering Convocation pays tribute to the history and traditions of graduations throughout the ages. The bachelor’s gown is red, has long sleeves, and is worn closed. The master’s and doctor’s gowns are black. The cap, originally round, is now a square mortarboard and is the same for all degrees. Caps are traditionally black with a long tassel fastened to the mid-point. The tassel is worn on the right side until the degree has been conferred; it is then worn on the left. The hood indicates the type of degree and the official color or colors of the university conferring the degree. For example, the color orange represents engineering, and that color is used on the velvet binding or edging of the hood. The official University of New Mexico colors are cherry and silver, so the hood is lined with silver gray with a chevron of cherry red.

The Convocation begins and ends with a colorful academic procession, led by a staff member carrying a banner in front of the School of Engineering degree candidates. The faculty marshal is usually selected from School of Engineering emeritus faculty, an honorary title for retired full-time faculty. The faculty marshal carries a mace or ceremonial staff and leads the platform party, composed of School of Engineering academic leadership, UNM regents and dignitaries, and convocation speakers.

The mace traces its origins to a medieval weapon and was later carried before kings and high church officials as a ceremonial emblem of authority. The UNM Engineering mace was designed by Dean Emeritus Joseph L. Cecchi and constructed in 2003 by engineering staff member Penn Davis. The mace handle is connected to a machined aluminum cube with wood panels inscribed with the University Seal and “The School of Engineering 1906,” the year the School was founded. The mace is crowned by a wooden sphere.
School of Engineering History

Engineering instruction at the University of New Mexico has a rich tradition, beginning in 1906, with four-year programs in Civil, Electrical, Mechanical, and Mining Engineering. The first Bachelor of Science degree was awarded in June 1912. By 1916, enrollment was at 37 with two or three graduates each year. In 1947, the Department of Chemical Engineering was established, and in 1972 it expanded to the Department of Chemical and Nuclear Engineering. Computer Science courses were initially offered in the Mathematics Department and in 1976, the Computer Science Department was established. With the addition of Computer Engineering to the Department of Electrical Engineering in 1979, the present-day complement of academic departments was in place.

This fall, the UNM School of Engineering enrolled over 1200 students in nine undergraduate degree programs and over 700 students in more than a dozen graduate degree programs. These degrees are offered through the School’s five academic departments and, increasingly, through interdisciplinary and interdepartmental programs. Research is integrated into each degree program in an environment that fosters teamwork, cultural and intellectual diversity, a strong sense of public responsibility, and lifelong learning. An exceptionally active research faculty work in critical and cutting-edge areas, collaborating within UNM and with other universities, the national laboratories, and industry to develop innovative solutions for societal challenges.
Degrees Awarded

Order of Presentation

Department of Civil Engineering
Department of Computer Science
Department of Electrical and Computer Engineering
Department of Mechanical Engineering
Department of Chemical and Nuclear Engineering
Biomedical Engineering
Nanoscience and Microsystems
Optical Science and Engineering

Graduate Student Recognition

“Graduating with Distinction” recognizes the exceptional performance of students who graduate with a Master’s or Doctor of Philosophy degree. The status is determined at the time of the final examination through agreement of the examining committee members, with final approval given by the department chair.
Civil Engineering

Bachelor of Science in Civil Engineering

Kwasi Addae-Mensah  James E. Lopez  Matthew Kerry Raymer
Melinna L. Boyd  Catherine L. Lucero  Naomi Ruth Waterman
April Suzanne Eckhardt  David Joseph Noah
Cameron J. Herrington  Vincent Salvador Perea

Bachelor of Science in Construction Management

Deirdre Mary Dolan  Justin Michael Mitchell  Nicholas P. Rivera
Carolyn Marie Gutierrez  Noel J. Nevarez  Marc A. Salazar
Natalie Virginia Kutchera  James Michael Rich  Patricia I. Tafoya

Master of Science in Civil Engineering

Sherif Hassan Abdelkader Aboubakr†  Hossein Honarvar Gheitanbaf*  Kelly Renee Montoya
Douglas Chan Austin  Andrew Seth Griffin*  Abdou Harrisou Ouro Bang’na Nassam*
Ivan Antonio Campos Varela†  Fei Han
Chun Hung Chan  Valerie Charmaine McCoy*

Master of Engineering in Civil Engineering

Patrick L. McClernon

Doctor of Philosophy in Engineering

Yuanzhong Qiu  Anthony Samuel Torres†

*Summer 2013 Graduates  †Graduating with Distinction
Computer Science

Bachelor of Science in Computer Science
Jeremy Ray Bernstein  Brian John Kraus  Ramsey Rashid
Joseph M. Collard  Mark Sinclair Montoya  Christopher James Reisinger
Kavitha Dodda  Toby W. Ngo  Ben F. Russell
Thomas Donald Gonzales  Lucas L. Nunno  April Nicole Suknot
Brady Russell Key  Stephen Thomas Patel

Master of Science in Computer Science
Carlos Javier Alvarez Bailleres, Jr.  Matthew James Hall  Edward Christopher Miles
Sylvain Robert Bernard  Thomas Berry Jones  Rahul Bimal Poddar
Jeffrey Richard Bowles†  Munand Reddy Kotha  William Scott Wittenburg
Geoffrey Charles Danielson  Brian Lott  Alexander Ryan Woody

Doctor of Philosophy in Computer Science
Soumya Banerjee  Diane A. Oyen*

*Summer 2013 Graduates  †Graduating with Distinction
Electrical and Computer Engineering

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Thomas E. Bauer
Timothy Wesley Boyer
Aaron James Caldwell
Edgar Thomas Chavez
Zachary Scott Cleveland
Omar D. Delgadillo
Yadira Jacquez
Dennis Matthew Magee, Jr.
Reymundo Juan Rael
Stephen A. Sanchez
Jonathan H. Saylor
Phillip J. Shaw
Kassuen Tadesse Wodajo

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Sadhvikas J. Addamane
Wilmer Stalin Rios Aguilar
Jorge Apodaca
Mitchell H. Castillo
Eric Keith Cooper
Christopher F. De La Cruz
Erfan Hakimian
Daniel J. Herrera
Andrew Martin Jones
Camron G. Kouhestani
Benito Christopher Lopez
Mitchell Conner Malone
Matt D. McCullough
Matthew Lawrence Montoya
Carlos P. Ortiz Y Pino
Larry L. Schweizer
Benjamin R. Stromberg
Adam Kelly Summers
Dave Ray Torres

MASTER OF SCIENCE IN COMPUTER ENGINEERING

Phani Kumar Kandregula
Tu-Toan Quach
Ruicong Yuan
Zhihao Yuan

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Thomas Edward Christian, Jr
Dean Hunter Galarowicz*
Andrew William Gamulja
Byungchul Kim
Tony Liu
Phillip Michael Mazzei
Isaac Newton Neal
Ifeoma Ego Onunkwo
Lupe Romero
Alvaro Emilio Ulloa
Ehsan Vadiiee*

DOCTOR OF PHILOSOPHY IN ENGINEERING

COMPUTER ENGINEERING

James C. Aarestad*
Matthew Cody Areno
John Colby Hoffman*
Pankaj Ahirwar*
Mario Tannous Bkassiny*
Timothy Emmanuel Buckley*

ELECTRICAL ENGINEERING

Glauco Rogerio Cugler Fiorante*
Kamrul Hakim

*Summer 2013 Graduates
†Graduating with Distinction
Mechanical Engineering

Bachelor of Science in Mechanical Engineering

Matthew Anthony Baca  Dustin Robinson Hardy  Curtis Allen Norman
Rolando Tapan Benally  Evan Samuel Harris  Jonathan Alexis Pinsonneault
Scott Richard Bodette  Ian Patrick Hulse  Devin S. Plagge
Cody Ray Bond  David F. Hulem  Howard Anthony Rennis
Christina Marie Brown  Bryan Edward Kaiser  Juan Carlos Rodriguez
Michael Justin Carrillo  Kyle K. Kaniho  Ross Jason Savedra
Tsungwei John Chang  Jon-Claude Leger  Christopher J. Sharp
Danielle Marie Cotugno  Kenton D. Losinski  Brandon Scott Simmons
Mark David Ehrhart  Amanda Josephine Luketa-Hanlin  James Michael Steward
Weston Ryan Faber  Gary R. Macias  Joe Alan Tubb
Jacob Carl Fackelman  Rebecca Lynn Maes  Nicholas Stephen Warin
Michaela Grace Farr  Steven Alfred Martinez  Kirby Ann Witte
Robert Donald Habbitt III  Jesse William Nord

Master of Science in Mechanical Engineering

Sergio Rodriguez Esparza  Ryan Dallon Levine  Nathan Reynolds Schanfein
Jeremy L. Guthrie  Daniel Nathan Rogers  Jeremy N. Sment

Doctor of Philosophy in Engineering

Khawar Abbas  Drew Francis Goettler  Arash Kheyrraddini Mousavi*
Amir Farris Ali

*Summer 2013 Graduates  †Graduating with Distinction
Chemical and Nuclear Engineering

Bachelor of Science in Chemical Engineering
Amanda Elizabeth Anderson Edward C. Jameson Ruben Andres Martinez-Barrientos
Hani Nabil Barghout Aaron Randley Jenkins Monica Alisa Padilla
Daniel Traver Birdsell Kushal Karki Manish Paudel
Zachariah R. Harris Tye Dwight Martin Denise Pinon
Sasha M. Hollingsworth Carmen Maria Martinez

Bachelor of Science in Nuclear Engineering
Andrew James Brink Nathan P. Layman Montgomery Tristan Streeter
Denise Ann Haskins Minh H. Ngo Jedediah Daniel Styron
Colin J. Josey Kayla Chantel Nowlen
Philip L. Lafreniere Mario I. Ortega

Master of Science in Chemical Engineering
Jose Alberto Cornejo Aaron Joseph Roy

Master of Science in Nuclear Engineering
Richard Emery Blakeley Drew Michael Mader Boyce W. Travis

Doctor of Philosophy in Engineering

Chemical Engineering Nuclear Engineering
Louis J. Tribby Paul Guy Edelmann
In-Hwan Yang Rodney Lyman Keith

*Summer 2013 Graduates †Graduating with Distinction
INTERDISCIPLINARY PROGRAMS

Biomedical Engineering
MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING
Juan Anaya*         Michael Gene Shaw

Nanoscience and Microsystems
MASTER OF SCIENCE IN NANOSCIENCE AND MICROSYSTEMS
Mario Santiago Rojas Carbonell  Marisa A. Durfee  Matthew N. Rush
Andrew Cochrane  Tieshia D. Francis
Jonathan E. Dorsey  Emmalee M. Jones*
James K. Douglas  Mario J. Paz*

DOCTOR OF PHILOSOPHY IN NANOSCIENCE AND MICROSYSTEMS
Vincent M. Cowan*         Stephen A. Myers  Josephine J. Sheng
Patricia S. Langan*         Michael H. Robson

Optical Science and Engineering
MASTER OF SCIENCE IN OPTICAL SCIENCE AND ENGINEERING
Alireza Kazemi  Brandyn M. Way  Ruichao Zhu
Emmanuel Mercado Sotelo

*Summer 2013 Graduates  †Graduating with Distinction
We pay tribute to our alumni who graduated fifty years ago, our Golden Graduates. We honor their lifelong connection to the UNM School of Engineering and extend a warm welcome to those Golden Graduates who are able to join us today.

### Class of 1963

<table>
<thead>
<tr>
<th>Name</th>
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<td>Rodger Carlson, BSEE</td>
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<td>Gary West, BEE</td>
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<td>John Vigil, MSME</td>
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<td>Weldon Carsey, BSEE</td>
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<td>Robert Wheeler, Jr., BSEE</td>
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<td>Marvin Daniel, MSEE</td>
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<td>Thomas Williamson, MSEE</td>
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Guidelines for Graduates and Guests

Cooperation Requested
Family members and guests are encouraged to take photos of the ceremony and the graduates. While taking photos, please be courteous and respectful of the students leaving the stage. The audience may not enter the stage area at any time during the program.

Commencement Photographer
GradImages will take candid photographs of all graduates at their special moment of recognition. Graduates will receive a free proof of this photo via email and regular mail within 5 to 7 days following the ceremony. You may place orders or obtain answers to questions at the GradImages website for graduate photos, www.gradimages.com or by calling 1-800-424-3686.

Diplomas
The Records and Registration Office will mail diplomas (unless the student has specified that it be held for pick-up) after grades have been received and recorded, which is usually in mid-July for Spring graduates. Diploma-related questions should be directed to UNM Records and Registration at 505-277-6310 or by email to degrees@unm.edu.

Messages to Graduates

From The UNM Alumni Association
Congratulations, Graduates! Now that you have graduated, you are automatically a member of the UNM Alumni Association. There are no dues. Visit www.unmalumni.com for information about the Young Alumni Chapter and valuable services for alumni as well as news, events, networking, links to online communities, and more.

From UNM School of Engineering Alumni Relations
Congratulations and welcome to the School of Engineering Alumni Family. UNM Engineering Alumni Relations organizes events and activities to keep you connected to the School of Engineering and to your fellow alumni/ae.

As you move forward, please keep us informed regarding address changes, career moves, and significant events in your life. Let us know if you are interested in collaborating on an activity to engage fellow alums and be sure to "like us" on our UNM School of Engineering Alumni Association facebook page. I look forward to meeting you at a future School of Engineering event.

Best Wishes,

Kara Clem, UNM School of Engineering Alumni Coordinator
505.277.5758 karaclem@unm.edu