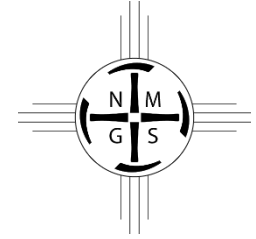


NMGS NEWSLETTER

VOLUME 20, DECEMBER 2017



President's Message

Matthew Heizler

The New Mexico Geological Society continues to be a premiere organization that promotes education and understanding of New Mexico geology. Specifically the mission of the Society is to advance the public interest in the geosciences, and to foster the next generation of geoscientists through student scholarships and by researching the geology of our state. Dedicated volunteers are the backbone to the success of the Society and a large number of members have contributed immensely this year. As a fellow member, I am indebted to their tireless efforts. It also was emphasized to me this year how much the New Mexico Bureau of Geology and the New Mexico Universities contribute to our Society. These organizations were especially instrumental in providing vehicle and financial support for the fall field conference and facilitated a huge student turnout. We all owe much gratitude to our "sister" organizations.

2017 Scholarships

Student participation in the Society remains strong and the future of the NMGS appears to be in good hands. The Society places high emphasis on the support of students and this year was no exception. The Society awarded \$45,846 to various student initiatives in 2017. Our grants-in-aid provide a major source of funding for students to conduct their research and the students gain valuable experience in preparing proposals that is sure to help them in their professional future. In addition, the Society granted students free memberships to the Society, a reduction in the price of NMGS publications, free attendance to the Annual Spring Meeting, and numerous field scholarships to attend the Fall Field Conference. There was excellent student participation in the Annual Spring Meeting and record student turnout at the Fall Field Conference. The Society should be very proud of their efforts that help students complete their research and prepare them for their professional careers.

Spring Meeting Registration & Student Memberships	\$3,721
Spring Meeting Best Papers	\$400
Pipkin Scholarships and Outstanding Senior (Spring)	\$4,900
Grants-In-Aid	\$15,725
Wellnitz (FCC)	\$2,000
FCC Scholarships & Student Memberships	\$18,900
New Mexico Science Fair Awards	\$200
TOTAL 2017 STUDENT SUPPORT	\$45,846

Scholarship Funding

The Society benefits greatly from the generous charitable gifts from the estates of Lucille H. Pipkin, Beverly and Robert Wellnitz, and Frederick D. Trauger. These individuals donated



New Mexico Tech MS student Kyle Stark received the 2017 Kottowski Grants-in-Aid competitive Scholarship. Kyle was one of dozens of students supported by the Society this year.

reoccurring financial assets to the Society, which continue to support student scholarships to this day. In addition, the Los Alamos Geological Society generously sponsors four students every year to attend the Fall Field Conference. It is also with great pleasure that I announce a new scholarship provided by James and Susan Cearley. They recognize the value of students being able to attend the Fall Field Conference (FFC) and this year pledged \$25,000 over the next 5 years to support the attendance up to 10 students (\$5000/year) to attend the FFC. This began in Fall 2017 and we are happy to announce that indeed 10 students from

multiple NM universities attended with support of the Cearley's. Thank you James and Susan! The Society also saw great financial support from its members and a list of donors is

provided at the end of this newsletter. With reduced income to the Foundation, the Society and the Foundation would sincerely appreciate, your consideration to donate during your tax and estate planning. Lastly, you currently have a fantastic opportunity to double your contribution as the Foundation board members are matching up to \$14,000 this calendar year. Paste this link into your browser to participate. <https://nmgs.nmt.edu/donations/home.cfml>

2017 and 2018 Annual Spring Meetings



Ted Wilton of Westwater Resources speaks during the evening mixer at the NMGS 2017 spring meeting. Students had an opportunity to get career advice from professionals. About 85 people attended the event, including about 50% students.

The Annual Spring Meeting held April 7, 2017 on "Uranium in New Mexico: the Resource and the Legacy" was a great success. Bernard Bonifas of Energy Fuels Company provided an interesting keynote entitled "Uranium Industry: Overview". Meeting organizers Bonnie Frey and Virginia McLemore did an outstanding job running the event and also created an innovative effort to involve industry

sponsors. The New Mexico Tech Society of

Economic Geologists, the New Mexico Mining Museum, AMEC Foster Wheeler and NM

American Institute of Professional Geologists participated and had numerous students attend a dinner to foster student interaction with professional organizations. Thank you Bonnie and Ginger for keeping the Spring Meeting fresh and engaging. The 2018 Annual Spring Meeting will soon be upon us and this year's special theme is "Environmental Geology and Hydrology". Stacy Timmons and Dennis McQuillan will co-chair the meeting and the keynote address will be given by Dennis McQuillan, chief scientist at the New Mexico Environment Department. So, mark your calendars for Friday April 13, 2018 at the Macey Center on the New Mexico Tech campus, Socorro. Registration information and the call for abstracts will soon be available at: <https://nmgs.nmt.edu/meeting/home.cfm>.

2017 Fall Field Conference: Ouray-Silverton, CO Area

With some trepidation, organizers Karl Karlstrom, David Gonzales, Matthew Zimmerer and myself proposed to return to this area of Colorado that was the site of the 1957 FFC. We asked: "Will members come?" "Will the weather cooperate?", "Can we keep the costs reasonable?"



A) Spectacular views were everywhere to be seen. B) 161 participants including 36 students fully supported by NMGS Scholarships! C) Trip leaders Karl Karlstrom and David Gonzales - great job you two. D) Trip leader Matt Zimmerer - always first in line to help in any way needed. Photos with permission from Laura Crossey.

along with many others. We are happy to report that the answer to all our questions for the 68th annual FFC was an overwhelming YES. What a spectacular FFC in a spectacular location it turned out to be. Due to popular demand, we opened the floodgates and capped the meeting at 160 participants and spent 3 fun-filled and informative days hiking, driving and taking gondola rides through some of the most beautiful and geologically rich areas of anywhere on our planet. We had 36 student participants that were fully funded to attend due to generous contributions from our members and the Foundation. By all accounts it was very successful and the trip organizers spent countless hours working together to make it happen. Logistics were praised by all and went off without a hitch due to an over the top effort by Lynn Heizler. Good food and plenty to drink is a key to success. Laura Crossey contributed to all aspects of the trip and Jeff Hrcir, Andres Aslan, Johanna Blake and Stacy Timmons ran trips or made major contributions to road logs. Dana Ulmer-Scholle was guidebook editor and produced a very professional and attractive guidebook. Lastly, Ginger McLemore and Kelsey McNamara handled the drink truck and I extend a very special thank you to registration chair Connie Apache who behind the scene contributes more than anyone knows.

2018 Fall Field Conference: Las Cruces Country III

The organization of the FFC 2018 is well underway and is scheduled for Oct. 24-27, 2018 <https://nmgs.nmt.edu/ffc/home.html>. The trip is lead by Greg Mack, Jim Witcher, Frank Ramos, and Brian Hampton and for those of you that have been fortunate to attend a "Mack Trip" you know there will be lots of nose to the outcrop with minimal prepared outcrop presentations. Many new discoveries and data advancements have occurred since the last visit to this geological wonderland, so get out your rock hammers and join the fun next October.

Future Fall Field Conferences

Future Fall Field Conferences are already in the planning process. The anticipated schedule is shaping up for the following locations:

2019 – Northeastern New Mexico. This conference will be based in Raton and is being organized by Matt Zimmerer, Kate Zeigler, and Frank Ramos, among others.

2020 – Mt. Taylor Region. This conference will be based out of Grants, New Mexico with a focus on Mt. Taylor and the uranium deposits of Ambrosia Lake. Trip leaders include Bonnie Frey, Shari Kelley, Fraser Goff, Kate Zeigler, and Virginia McLemore, among others.

It's not too early to begin planning for 2021. Suggestions, trip leaders, and volunteers to help with Fall Field Conferences are always welcome. Please submit your suggestions or interests to the Executive Committee.

2017 NMGS Honorary Member – Dr. Karl E. Karlstrom

The NMGS has a great tradition of awarding an honorary membership that recognizes service to the Society and contributions to the geology of New Mexico. The list of honorees is impressive, but few, if any, have contributed to the geological understanding of New Mexico and surrounding regions more than Professor Karl Karlstrom at the Univ. of New Mexico. Tireless energy and enthusiasm towards our science are only a couple of words to describe Karl efforts. Karl has mentored over 50 graduate students and encourages them to be active participants in the NMGS. Karl has contributed immensely to NMGS publications and was the primary force behind producing the 2017 FFC in the Ouray-Silverton area. Karl takes the complex and makes it understandable to any level of expertise and thus his presence on the outcrop at FFC's always gathers a crowd of interested onlookers and curious students. It was with great pleasure and fun that myself and Foundation president Frank Ramos conspired to add a little extra to the awarding of the honorary membership at this years' FFC banquet. Frank enthusiastically donned a dress to become Francis Ramon in helping me conceal the identity of the winner and with great fanfare we surprised Karl with his much-deserved award.

Congratulations Karl!



A) Matt and Frank (AKA - Dr. Francis Ramon) conspire to surprise Karl. B) Dr. Karl Karlstrom, a very deserving honorary award winner. Karl thanks for your years of dedicated work to the NMGS. Photos with permission from Laura Crossey.

Publications Committee

The NMGS Publications Committee continues to be co-chaired by Andy Jochems and Virginia (Ginger) McLemore. If any member would like to serve on the publications committee, please contact Andy, Ginger, or any of the executive committee members.

Publication sales for 2016 were approximately \$20,600 and are projected to reach a similar figure for 2017.

Prices for all NMGS publications can be found here:

https://nmgs.nmt.edu/publications/2018_NMGS_pricelist.pdf

New publications and updated prices are summarized below:

New publications:

Special Publication 13—Energy and Mineral Resources of New Mexico—was released in Summer 2017. This already popular publication consists of 6 volumes providing the most comprehensive and extensive review of New Mexico's energy and mineral resources to-date. The 6-volume boxed set is priced at \$125 (quantities are limited). Individual volumes are \$25 each.

Guidebook 68 Geology of the Ouray-Silverton, Colorado Area, 2017, K.E. Karlstrom, D.A. Gonzales, M.J. Zimmerer, M. Heizler, and D.S. Ulmer-Scholle, eds., 218 p. \$65.00 for full volume, \$19.95 for spiral-bound road logs (*road logs and mini-papers only*)

Updated prices:

Guidebook 3 Rio Grande Country, 1952, R.B. Johnson and C.B. Read, eds., 126 p. \$10.00 (*CD-ROM only*)

Guidebook 57 Caves and Karst of Southeastern New Mexico, 2006, L. Land, V.W. Lueth, W. Raatz, P. Boston, and D.W. Love, eds., 344 p. \$5.00

Guidebook 58 Geology of the Jemez Region II, 2007, B.S. Kues, S.A. Kelley, and V.W. Lueth, eds., 499 p. \$10.00 (*CD-ROM only*)

Guidebook 63 Geology of the Warm Springs Region, 2012, S.G. Lucas, V.T. McLemore, V.W. Lueth, J.A. Spielmann, and K. Krainer, eds., 580 p. \$32.50

Upcoming 2018 publication:

Guidebook 69 Las Cruces Country III (prices TBA)

Guidebook and Special Publications Editors

NMGS guidebooks are some of the highest quality geologic publications in the nation. However, the Society needs additional managing editors and design and layout to continue in this tradition of excellence. We encourage NMGS members to reach out to qualified persons in an effort to create a candidate pool. If you or someone you know is interested, please contact the Executive Committee.

Final Thoughts



On behalf of the Society's Executive Committee, and myself I want to thank all of the people who have contributed and volunteered their time to make the Society successful. I have enjoyed my time on the Executive Committee and am sincerely grateful for the opportunity to serve. As I leave to take the post of past president I am confident that the Society is in capable hands. I also want to express sincere gratitude to David Ennis who has done an admirable job these past 5 years. Agreeing to serve a 5-year tour on the executive committee is a big commitment and one that Dave did not take lightly. With excellent organization and good humor Dave served above and beyond the call of duty as an EC member and we should all thank him for his service. He will remain active as our sole member of the finance committee. Thanks Dave.

Dave Ennis is rotating off the EC and he will be missed. His service was exemplary!

2017 Executive Committee Members:

Past President: David Ennis, Mining and Minerals Division

President: Matt Heizler, NM Bureau of Geology & Mineral Resources, New Mexico Tech

Vice President: Susan Lucas-Kamat, NM Environment Department

Treasurer: Dan Koning, NM Bureau of Geology & Mineral Resources

Secretary: Shannon Williams, Daniel B. Stephens & Associates

2017 NMGS Donors

(as of 12/19/17)

Total donations - \$10,995

Lawrence Baldwin	Mark Betts
Peter Burch	Tom & Eloise Byrd
James and Susan Cearley	Robert Couch
Cynthia & David French	Lynn & Matt Heizler
Susan Hoines	Jerome Kendall & Jan Phillips
Barry Kues	David & Sandra Lemke
Los Alamos Geological Society	Bob Newcomer
Timothy Powell	James Sallee
Jonathan Sandor	James Scott
David Swenson	Phillip Young
Maryann Wasiolek	

New Mexico – American Institute of Professional Geologists

2017 Foundation Donors

(as of 12/19/17)

Total donations - \$17,540

James and Susan Cearley	Keith Davis
Nelia Dunbar	Maya Elrick
Will Keener	Barry Kues
Susan Lucas-Kamat	Virginia McLemore
Robert Newcomer	Charles Oviatt
Donald Owen	John Rogers
Frank Ramos	John & Dianna Shoemaker
David Swenson	Matthew Symonds
Galen Treadgold	

\$\$\$ THANK YOU ALL FOR YOUR GENEROUS SUPPORT \$\$\$