Greetings to all! Like the entire globe of people, the Geology department has adapted to the new normal, which to be honest we are still all figuring out what the heck that means. I will dispense with the unfortunate things first, which mainly boiled down to the summer cancelations of Field Camp, the Interdisciplinary Field Program, and Freshman College Geology class. There were other collateral “geology” damages, including the cancellation of the Imperial Barrel Award competition, numerous withdrawals from conferences, the termination of summer field work, no end-of-year awards ceremony, and the abandoning of our annual alumni celebration. To use the cliché “we are all in it together” applies to all geoscience departments around the county, so in that respect the ramifications of the pandemic did not discriminate. UGA Geology, however, is responding with grace and compassion including the miraculous transition to online course delivery for much of the Spring 2020 term. Words cannot completely describe the sense of pride that the UGA administration and the UGA Geology community has for all the effort put forth by staff, students, and faculty alike. Below is a review of the past academic year, knowing that these highlights are just the tip of the iceberg that represents all the good things that have happened. We continue to improve the quality of our program, create novel instruction, support a climate of diversity, and increase our external funding.

Faculty accolades include Doug Crowe was named Teacher of the year and he has help to promote the generous giving from Chevron, where increased donations to sustain support of RA lines has gone from 1.5 per year to 2 per year. Steve Holland was named as Professor of the year and remains active on the advisory board for the international Paleobiology Database. Andy Darling has contributed immensely to our introductory lab delivery and teaching of Earth Science for Middle School teachers. Charlotte Garing published four articles in high-impact journals and presented six talks in both international, national, and regional settings, including Spain, California - American Geophysical Union (AGU), Auburn University, and UGA Marine Sciences (invited speaker). Erv Garrison navigated post-tenure review with glowing achievements that included two co-
authored papers this year. Christian Klimczak was tenured and promoted to Associate Professor and he was invited to present at the University of Alabama and at the Lunar and Planetary Science Conference in Houston, TX. Sally Walker completed her tenure in the Halbouty Endowed Chair at Texas A&M and later in the year participated in the Society for Sedimentary Geology first Field Experiences Program in Argentina, working with South America graduate students and professors in the Neuquén Basin, Northern Patagonia. Sue Goldstein remains an elected member of the Cushman Foundation Board of Directors and published three peer-reviewed papers. She is eyeing the transition to emeritus status at the end of this year. Rob Hawman continues to be successfully funded by NSF to study the structure of the crust and upper Mantle beneath the southern Appalachians. Adam Milewski had eight peer-reviewed publications, six active grants, and continues to maintain the Water Resources and Remote Sensing Laboratory. Valentine Nzengung developed a generous donation from Duke Energy to fund a Research Assistantship for a MS Student. He was also voted into the National Academy of Inventors where he has been recognized for his novel work with remediation of munitions in an environmentally friendly and cost-effective manner. Alberto Patino-Douce has been serving in excellent capacity as Graduate Coordinator and in particular helping to find extensions for graduate students whose research progress was been delayed because of COVID-19 restrictions. Alberto is looking to establish emeritus status at the end of this year. Marta Patino-Douce was recognized by the Beta Sigma Chapter Delta Kappa Gamma (DKG) Society of Women Educators and was invited to give a talk entitled “Insight into Book for Keeps” at the DKG convention. Mattia Pistone, our newest faculty member, has hit the ground running teaching petrology, writing numerous grant proposals, and well underway with establishing the new “Magma Mia experimental petrology lab” in the footprint of the hydrothermal lab once used by Vernon Hurst and Alberto. Bruce Railsback had five peer-reviewed contributions and his online illustrations are regularly appearing textbooks and peer reviewed publications. Jim Wright has opted to retire after a prolific career and the department wishes him well as we now look for someone to fill his shoes as a valued and long-standing Honors faculty member teaching UGA Honors students. I am on my seventh and final year of NSF support for Critical Zone Observatory research, with irons in the fire to continue this fantastic multi-disciplinary undertaking. I was fortunate to co-author several papers, two
of which were published in the exact same date: one in Science and the other Nature. Other department happenings to create innovative curricular offerings aimed at attracting more students include cross listed Rock Mechanics with Civil Engineering, offering E-courses including Introductory Geology (e-core) and Dinosaurs and qualifying introductory courses for new environmental awareness requirement.

Our undergraduate students have been very productive. Six undergraduates completed senior theses. Included are Kirsten Farmer: Population and Size Distribution of Cibicides antarcticus on Adamussium colbecki within Explorers Cove, Antarctica (Walker), Catherine Labriola: Preliminary Test of the Mesozoic Marine Revolution Hypothesis Using Repair Scars on Cretaceous Oysters, Southern Atlantic Gulf and Coastal Plain (Walker), Morgan Lewis: Testing Martian Valley Formation Mechanisms. (Milewski), Cash Owens: Geologic History and Lava-Fracture Interaction at King’s Bowl, Craters of the Moon National Monument, Idaho. (Klimczak) Ashley Little: Structural diagenesis of the Heidelberg Sandstein, Subhercyian Cretaceous Basin, Germany. (Klimczak), and Sydney Shatz: Sandstone provenance of the marine Jurassic of western Canada and central Montana. (Holland). Including other undergraduates, nine co-authored oral papers or posters were submitted to regional/national conferences. Tyler Combs and Sarah Hood were named outstanding field school students and Cash Owens and Sydney Shatz were named outstanding undergraduate students.

Major and Minor Elemental Variations in Olivine”, M.S. (Klimczak), **Sydney Lee**, “Testing two paleogeographic interpretations of the Jurassic of western North America”, M.S. (Holland), and **Andrew Clements**, “Investigation of rift basins and underlying crust beneath the southeastern Atlantic Coastal Plain using teleseismic phases”, M.S. (Hawman). Our graduate students collectively co-authored ten peer review papers and technical reports and an amazing twenty-two meeting abstracts for oral papers and posters.

Many graduate students were also recognized for external funding and other leadership roles. Lindsey Parsons received an Alliance for Weedon Island Archaeological Research and Education, Inc. Levitt Foundation Grant, **Kelly Cronin** was named a Future Faculty Fellow by the UGA Center for Teaching and Learning and Co-organized symposium on Antarctic ecosystems and climate change at the North American Paleontological Convention in Riverside, California, **Yonesha Donaldson and David Richards** continued to be awarded the Louis Stokes Alliance for Minority Participation (LSAMP) Bridge to the Doctorate Fellowships, National Science Foundation, David received the SEGS-Southeastern Geological Society Student Research/Field Work Grant. Yonnie was a Geopaths Near Surface Geophysics Field Mentor for the National Science Foundation Shale Hills Critical Zone Observatory (CZO), **Rachel Rotz** received the Beta Sigma Chapter of Delta Kappa Gamma Georgia State Organization Scholarship Grant, the Delta Kappa Gamma International Society for Women Educators - Virginia Macagnoni Grant, and the Farouk El-Baz Student Desert Research Award from the GSA Foundation. Rachel was also named Outstanding Ph.D. student. **Laura Fackrell and Melanie Callihan** were named Outstanding Teaching Assistants. **Bear Jordan** was name Outstanding M.S. student. **Anik Regan, Max Deckman, and Samantha Khatri** received the Gilles and Bernadette Allard Geology Award. Most all of the graduate students also received benefits for travel and research from our Miriam Watts-Wheeler Scholarship.

Last but not least we continue to receive strong support from the UGA geology Alumni. The contributions of time and money have truly made a difference and will be even more important in these times of trial. The alumni advisory board continues to serve a key role in guidance for assessing the
mission of the geology department. **Frank Leith** has transitioned from alumni advisory board Chair to emeritus alumni board member, while the **Grant Eager** has taken on the role of Chair. This year we have recognized **Devon Verellen** as an Outstanding young alumni and **Skip Forstoff** as Distinguished alumni. We also note that **Jeff Shellebarger** is now officially retired from Chevron N.A. Exploration and Development, but from all that we hear, he has hardly slowed down as a champion for promoting the virtues of the geologic sciences.

Geology continues to make positive progress in terms of teaching, research, and outreach in 2019 and 2020. The top-heavy demographics of senior Geology faculty who have great wisdom to deliver excellence in teaching and outreach is a positive, however changes are in the wind. Three senior faculty members have announced retirements and within the next 5 years will likely see a few more. The addition of a new faculty is promising, and the short-term projection is that Geology is increasing extramural funding. The Geology department is poised to propose new hires in specialty areas of basin analysis, paleobiology, and economic geology. These priorities are guided by a 5- to 10-year plan based on faculty retreats and trends in geoscience.

Hiring in the Earth Science is strong and the need for geoscientists is projected to be strong for the next 10 years. Most all of our undergraduates and graduates go on to employment or further their academics. Enrollment for the undergraduate is following the national trend experienced by all Geoscience departments, which is a ~50% decrease. This trend is not unusual as the cyclicality of sectors in mining, energy, government, and environmental geosciences all have different periods and amplitudes. Consensus amongst geoscientists is that we are at a low point and enrollments will restore to higher levels, particularly given the projected demands into the future. Hang in there. Go Dawgs!

**Best,**

**Paul Schroeder**
**Professor and Head**