



# The Dirt

*Dig into it...*

## Department Changes...



2018 Field Camp

Among the faculty, Dr. Natalie Bursztyn left CSUF at the end of the 2017-18 academic year for a position at Quest University in her native Canada. Dr. Bursztyn arrived in 2015 and, in her short time here, revamped the science education courses and established the Department's learning assessment program that was frequently cited by CSUF administration as an example for the entire university. Canada's gain is CSUF's, and Southern California Roller Derby's, loss. We will miss Natalie and wish her all the best.

Dr. Phil Armstrong announced that this Spring's geophysics (356) class will be his last. Phil will retire at the end of the 2018-19 academic year after 20 years at CSUF. Dr. Armstrong is on sabbatical for the Fall 2018 semester and we wish him all the best and send our condolences to trout everywhere.

Most recently, Dr. Diane Clemens-Knott announced that she will be retiring at the end of the Fall semester after 27 years at CSUF. She will enter the faculty early retirement program in 2019, teaching half-time and exploring her new passion for scuba diving the other half. Dr. Jeff Knott will retire at the end of the 2018-19 academic year as well.

Another logistical change for the Department is that CSUF and Geological Sciences are no longer participants in Orange County's John D. Cooper Archeological and Paleontological Center. The university and the department put substantial effort into assembling a proposal to continue its efforts there; however, the County of Orange decided not to award the contract to CSUF. In the Cooper tradition, CSUF leaves the Cooper Center in much better condition than we received it. Over the years, Directors Dr. Jeri Lipps and Dr. John Foster organized and improved the Center such that Dr. James Parham and his many students completed numerous research projects with the abundant fossil material. The Department, and everyone in Orange County, is thankful to the many professionals, students and volunteers who made the Cooper Center an outstanding research center.

- Jeff Knott, 2018-19 Chair

*After many years in western Montana, the 2018 field camp was in the White/Inyo Mountains. During the 1st half students mapped the structurally complex Poleta Folds area with Dr. Akciz.*

*For the 2nd half, the students learned Quaternary mapping in the Waucoba Lake Beds near Big Pine. In between, there were excursions to Long Valley caldera, the Bishop Tuff, Mono Lake and the glacial moraines at Convict Lake.*



Mapping in the Waucoba Beds at the base of the Inyo Mountains with the Sierra Nevada in the background



Dinner bell at French Camp in the Sierra Nevada

*The students dry camped the entire 3+ weeks in the White Mountains cooking their own meals and enjoying the occasional "bath" in the Owens River.*



# NSM Awards HIGHLIGHTS

## Dr. Margaret S. Woyski

*Dr. Woyski was not only a Professor of Geological Sciences, but also served as Department Chair, Associate Dean of Natural Sciences and Mathematics, and Acting Director of Academic Advisement.*

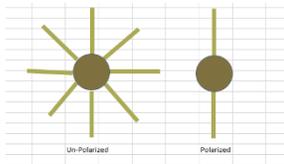
As many of you may already know, on March 10, 2018, we lost one of the original pillars of the Department with the passing of emeritus professor Dr. Margaret S. Woyski.

Dr. Woyski was 96 years old. She came to CSUF in 1967 to the Department of Earth Science and served the Department, College and University for 25 years.

Upon hearing of Dr. Woyski's passing, a number of alumni related stories of, and tributes to, Margaret Woyski. Here are some excerpts from a few:

*From Jeffrey Bennett ('97), Principal Hydrogeologist, EarthCon:*

I can still see her in optical mineralogy using tinker toys to explain how polarizing filters worked. It was funny watching her put them together, but it was effective. Pretty sure she used yellow for the light rays. She'll be missed.



*From Dr. Donna Anderson ('74), Affiliate Faculty, Colorado School of Mines*

Margaret was a major part of my early career: getting me to major in geology, being a good mentor, inspiring me that, yes, I could persevere as a woman geologist having seen all the trials and tribulations that she went through. She was my example of how one could overcome adverse situations...the education I received from her was, indeed, rigorous and scientific, which stood me well through my M.S. and Ph.D. degrees and through my work history in the oil and gas industry over my 40+-year career.

*From Dr. James Kubicki ('83), Professor and Chair, Department of Geological Sciences, UT El Paso*

She was a great teacher and really so into it that students had the discipline and critical thinking skills we needed to develop. I have been impressed how she persisted in a "Man's World", and she is a pioneer and to be appreciated for helping to break the gender barrier in geology.



### NSM Awards Banquet - April 2018...

The NSM Awards Ceremony was held in April. On hand to help Dean Johnson present the awards were Dr. Prem K. Saint, Emeritus Professor, Ms. Nancy Cooper, wife of the late Dr. Cooper, Ms. Candice Jones and Ms. Nancy Stuck, daughter of the late Professor Woyski.

### 2017-18 Geological Sciences Award and Scholarship Recipients

Candice L. Jones Outstanding Service	Shayna Avila
David L. Willoughby Scholarship	Sabrina Green
Field Camp Scholarship	Shayna Avila
John D. Cooper Field Camp Award (2017 camp)	Joseph Gutierrez
John D. Cooper Field Camp Scholarship	Adrian Escobar
Margaret Skillman Woyski Scholarship	Leah Wiitablake
Marilyn A. Brown Scholarship	Anthony Macias
Outstanding Academic Achievement in Earth Science	Maria Rivera
Outstanding Academic Achievement in Geology	Judith Avila-Avalos
Outstanding Graduate Student	Austin Poncelet
Outstanding Graduate Teaching Associate	Jenifer Leidelmeijer
Outstanding Major Award in Earth Science	John Ayers
Outstanding Major Award in Geology	Erin Boeshart
Prem K. Saint Hydrology Award	Adrian Escobar



### TUFFY THE MAMMOTH

Next time you visit campus make sure to drop into the Chapman Atrium of Titan Student Union to see Tuffy the Mammoth. The Siberian woolly mammoth skeleton was unveiled on November 29<sup>th</sup> and was a gift from John Gregg and the Gregg Family Foundation. The fossil is on permanent display.

The students, faculty and staff of Geological Sciences thank the following people for their generous support of the Department over the last 12 months. Your donations form the bulk of the scholarships and awards earned and awarded to undergraduate and graduate students each year. All of us remember how those few extra dollars help during the year or while we're at field camp. Keep in mind that a donation to a Geological Sciences scholarship or award is a high-value donation in that all of your donation goes to students. Any amount helps. Department donations may be made through the Department web site (<http://www.fullerton.edu/geology/>).

Mr. Patrick W. McNelly '82	Mr. Eric S. Patschull	ConocoPhillips Company
Dr. Valbone Memeti	Mr. Carlos M. Landaverde	Mr. J. Michael Palin '81
Mr. Rene A. Perez '02 & '09	Ms. Nancy H. Cooper	Dr. Merri L. Casem '84
Mr. Thomas C. Kartrude '76	Mr. Thomas J. Handzus, Jr.	Ms. Mary C. Lacey
Environmental Engineering & Contracting, Inc	Hamilton And Associates	Mr. Aron Taylor '02 & 06 / GMU
Ms. Anna L. Garcia '95 & '10	Mr. Benjamin T. Lewis	Kay Pitts
Ms. Shelby R. Barker '10	Dr. Jeffrey R. Knott	Mr. William Goodman '83 / NMG
Mr. Joe A. Roe '01	Ms. Jeri J. Young	Searchers Gem and Mineral Society
Mrs. Susan C. Smith '08	Mrs. Nancy E. Stuck	Chrysta Wells '09
Mr. Timothy A. Alderman '02	Mr. William B. Woyski	Mike Cruikshank '06
Ms. Michelle L. Vitale '12 / Chevron	Mr. Brian and Ms. Kay L. Pitts ('79 & '78)	Dan Black '67
Mr. Daniel P. Wieder '79		

Don't forget to follow the department on Facebook and Twitter



## Upcoming Department Events/Seminars

Oct 24 - Dr. MacKenzie Day – UCLA – Sand in Space: How Wind Shapes the Surface of Earth & Mars

Nov 14 - Dr. Chris Milliner – JPL – Using GPS to Detect Subtle and Transient Ground Deformation: Resolving Early Post-Seismic Afterslip Following the 2016 Mw 7.1 Kumamoto, Japan Earthquake, and Daily Water Storage Variations from Hurricane Harvey

Nov 28 - Dr. David Kimbrough – SDSU – Volcanic Activity and Stepwise Mass Extinction: The Case for the End Permian Extinction Event

Dec 5 - Geology 590 Presentations

### [Apr 12, 2019 - Research Day Fullerton Arboretum](#)

10<sup>th</sup> Annual C.S.U.F. Geological Sciences Research Day

Friday, April 12, 2019 – 3:00 to 6:00 PM

Fullerton Arboretum – Bacon Pavilion

## In the News...

### [Geology Researchers Delve Into the Depths of the Earth to Study Ancient Volcanoes](#)



CSUF geologist Vali Memeti, front, with students in her volcanology class at Panum Crater in early May. Panum Crater erupted only 600 years ago and is part of the larger, still active Long Valley caldera system. In the background is Yosemite National Park, located in the snow-covered Sierra Nevada mountains.

### [The Digitization of Marine Invertebrate Fossils Brings Ancient Sea Life to Light](#)



This collection of marine invertebrate specimens includes clams, snails and mussels. Nicole Bonuso, associate professor of geological sciences, and graduate student Crystal Cortez worked on digitalizing marine invertebrate fossils found in Orange County as part of a collaborative project with museums.

## Department of Geological Sciences 2018 Alumni of the Year **William Goodman**



### About Bill

Bill Goodman received his Bachelor's Degree from the CSUF Department of Geological Sciences in 1983. As a senior, he was a student assistant for the California Division of Mines and Geology and a research assistant for the Department of Geological Sciences. He completed his senior thesis under the advisement of Dr. John Cooper. In 1984 he was hired by Dr. F. Beach Leighton as a staff geologist at Leighton and Associates, Inc.

In May 1994, Bill and two colleagues departed Leighton to form NMG Geotechnical, Inc. (NMG). As the company grew, the opportunity arose to increase staff and Bill immediately looked to the CSUF geology department for future professionals. Bill has hired 15 entry level and intern geologists from the geology department at Cal State Fullerton, many of whom are still employed by NMG. He is passionate about geotechnical fieldwork and values the focus the department places on field techniques.

Bill remains an active and dedicated supporter of the CSUF Department of Geological. He has coordinated field trips with the CSUF geology department to allow engineering geology students an opportunity to experience a day in the life of an engineering geologist. Students were able to observe downhole logging of a large diameter bucket auger borings, mapping of ancient and active landslides and observed the placement and testing of engineered fill. The students also interacted with professional engineering geologists, geotechnical engineers, soil technicians and grading contractors.

Bill was also on the Advisory Board to the Dean of Natural Science and Mathematics at CSUF. He is an active member of the Association of Engineering Geologists, the South Coast Geological Society, and the Association of Environmental Professionals and consults for the Board of Professional Engineers, Land Surveyors and Geologists for review of professional licensing exams.



Bill is a distinguished alumnus who provides an outstanding example to the past, current and future CSUF geology students of his enthusiasm for geology, dedication to CSUF and his professionalism.



# 10th Annual CSUF Geological Science Research Day

Department of Geological Sciences  
California State University, Fullerton



## Save the Date

Fullerton Arboretum Pavilion  
Friday, April 12, 2019  
Time: 3:00—7:00 p.m.

