



ROB COE

**Professor Emeritus
Earth and Planetary Sciences**

Rob Coe is a geophysicist whose primary research applies paleomagnetism to a broad spectrum of problems such as tectonics, magnetostratigraphy, the geodynamo, and long-term behavior of the geomagnetic field. In 2016, the American Geophysical Union awarded Coe the John Adam Fleming Medal for his original research and technical leadership in geomagnetism and related sciences.

“ GEOMAGNETIC POLARITY REVERSALS: DECIPHERING THE MAGNETIC ARCHIVE PRESERVED IN ROCKS ”

An amazing discovery of the last century is that half the time in the geologic past our compasses would have pointed south. In other words, the earth's magnetic field has reversed its polarity repeatedly, most recently 770,000 years ago. It took 60 years for this hypothesis to be demonstrated and finally accepted, by measuring and interpreting magnetization that was preserved by rocks when they formed. Now, by searching the globe for key magnetic records, assessing their reliability, and fitting them together, we are learning how the field behaves *during* a polarity transition and what else might happen when it does reverse again.

UC SANTA CRUZ EMERITI ASSOCIATION PRESENTS THE 2017 FALL **EMERITI FACULTY LECTURE**
TUESDAY, NOVEMBER 7, 7 P.M. | **UCSC MUSIC RECITAL HALL**
FREE AND OPEN TO THE PUBLIC

DOORS OPEN AT 6:30 P.M. **COMPLIMENTARY** PARKING IS AVAILABLE IN THE PERFORMING ARTS PARKING LOT.
FOR QUESTIONS OR ACCOMMODATION REQUIREMENTS, CONTACT UC SANTA CRUZ SPECIAL EVENTS OFFICE AT
831.459.5003 OR SPECIALEVENTS@UCSC.EDU.