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114-10 - THE KECK GEOLOGY CONSORTIUM: A CONTINUING LEGACY OF REINHARD (BUD) WOBUS



Monday, October 11, 2021

4:05 PM - 4:20 PM

Oregon Convention Center - B113/B114 (Hybrid Room)

Abstract

Undergraduate research experiences have become ubiquitous and widely recognized as important for the development of a vigorous and diverse STEM workforce. However, this was not always the case. In the 1980's, pioneers like Reinhard (Bud) Wobus and a number of like-minded colleagues at small liberal arts colleges from across the country suggested that undergraduate students working with dedicated faculty mentors could make a real contribution to science through undergraduate research. Fortunately, Bud found Sandra Glass, a sympathetic ear at the W. M. Keck Foundation, and in 1987 the Keck Geology Consortium was formed. The Keck Consortium supports undergraduate research and collaboration between students and faculty from all over the United States and has supported >1600 students from >140 institutions and >530 faculty from >50 institutions since 1987. There are also more than 50 Keck alumni in college/university teaching and research positions.

Today's Keck Geology REU is a lasting legacy of the program started by Bud and his colleagues. With support from the NSF-REU program and members of the Consortium, the Keck Geology Consortium has continued to evolve its programs and membership in response to educational and societal needs. The Advanced program for rising seniors consists of a four-week summer field and laboratory research experience followed by mentored research during the academic year that culminates in a presentation at a national meeting and publication of a "short contribution" in the Proceedings of the Keck Geology Consortium. Our current Gateway program for rising sophomores is also modeled after the innovative sophomore program that was first pioneered in the early 1990's. The goals of the Gateway program include diversifying and retaining students in the geosciences by giving students an opportunity to explore and do research early in their

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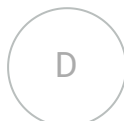
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also find their origins in the program started by Bud and his colleagues. Presently, the Keck Geology Consortium is collaborating with SERC at Carleton College to better understand the development of science identity and to develop new instruments for assessing undergraduate research experiences.

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Presentation File(s)

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Session

114: T152. Advances in Undergraduate Research and Education, Colorado Geology, and Igneous Petrology II: Celebrating the 55-Year Career of Reinhard “Bud” Wobus
Brock Riedell, Consulting Geologist, West Vancouver, BC, Canada, Rachel Beane, PhD, Bowdoin CollegeEarth & Oceanographic Science, Brunswick, ME and Cathryn Manduca, Science Education Resource Center, Carleton College, Northfield, MN



📅 Monday, October 11, 2021

🕒 1:30 PM - 5:30 PM

📍 Oregon Convention Center - B113/B114 (Hybrid Room)

Advances in Undergraduate Research and Education, Colorado Geology, and Igneous Petrology II: Celebrating the 55-Year Career of Reinhard “Bud” Wobus Ended October 11, 5:30 PM

Topical Sessions

Technical Programs

Similar

- BUD WOBUS, UNDERGRADUATE RESEARCH AND THE PIKES PEAK BATHOLITH

SMITH, Diane, Geosciences, Trinity University, 1 Trinity Place, San Antonio, TX 78212
- THE 67-YEAR LEGACY OF BUD WOBUS ON THE FLORISSANT QUADRANGLE, COLORADO

MEYER, Herb, National Park Service, Florissant Fossil Beds National Monument, P.O. Box 185, Florissant, CO 80816 and MCLAIN, Jerry, Colorado Outdoor Education Center, P.O. Box 167, Florissant, CO 80816
- COMMUNITY, LEGACY, AND CAMARADERIE IN THE CLASSROOM OF REINHARD “BUD” WOBUS: THREE FORMER STUDENTS REFLECT ON THEIR EXPERIENCE

MARCARELLI, Matthew, Wethersfield, CT 06109, WILLIAMS, Noah, Leadville, CO 80461 and KEENAN, Martin, Boston, MA 02116
- ASSESSING UNDERGRADUATE RESEARCH EXPERIENCES USING KNOWLEDGE SURVEYS

WIRTH, Karl, Geology Department, Macalester College, Saint Paul, MN 55105, DAVIDSON, Cameron, Department of Geology, Carleton College, 1 N College St, Northfield, MN 55057 and NUHFER, Edward, Geoscience Professor, Director of Faculty Development and Learning Assessment

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EXPANDING CAVE AND KARST SCIENCE IN THE FORM OF SUMMER RESEARCH EXPERIENCES FOR UNDERGRADUATES

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