

March 7-8, 2019

**ITEM 182-1503-R0319**

**Request for authorization to confer the title of Professor Emeritus of Chemistry on Dr. Douglas Cameron - Montana Technological University**

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**THAT**

Upon the occasion of the retirement of Professor Douglas Cameron from the faculty of Montana Tech, the faculty wishes to express its appreciation for his 29 years of dedication and valued service by requesting the rank of Professor Emeritus be conferred upon him by the Board of Regents of Higher Education.

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**EXPLANATION**

Dr. Douglas (Doug) Cameron was born and raised in Butte Montana, where his family owned and operated a local trucking company. Doug worked through high school and college hauling freight and moving furniture. He graduated with Honors from Montana State University with a B.S. degree in Chemistry. He attended Purdue University earning his M.S. (1978) and Ph.D. (1979) degrees in Analytical Chemistry. His graduate work focused on the use of tandem mass spectrometry to study both low and high-energy, gas phase, ion/molecule reactions.

Dr. Cameron began his professional career as a Senior Research Chemist for Unocal Corporation in the Science & Technology Division developing analytical methodology to support oil exploration, production and processing. He joined the University of Wyoming Research Corporation Western Research Institute as a Senior Research Chemist exploring the chemical composition and use of tar sands and oil shales for crude oil production and the chemical analysis of asphaltenes. At that time he was also an Adjunct Professor in the Chemistry Department at the University of Wyoming. Subsequently, he joined Los Alamos National Laboratory as a Staff Member in the Analytical Chemistry Group where he explored the development of a transportable gas chromatograph/mass spectrometry system for chemical analysis in support of environmental and national defense initiatives.

In 1990 Dr. Cameron accepted a position as an assistant professor of chemistry at the Montana College of Mineral Science and Technology. He was promoted to associate professor in 1993 and to full professor in 1999. He served as Interim Department Head in the Chemistry & Geochemistry Department for the 1997-1998 academic year, Department Head in Health Care Informatics and Pre-Professional Health Studies from 2003 to 2006, and as Department Head in Chemistry & Geochemistry, from 2005 to 2012.

Dr. Cameron has served on numerous committees on the Tech campus including Assessment Committee, General Education Committee, Advising/Retention Committee, Strategic Planning Committee, Curriculum Review Committee, Instructional Improvement Committee, Chancellor and Vice-Chancellor Search Committees, and numerous Departmental Search Committees. He was also very involved with recruiting students to Tech through the Dine with the Chancellor which traveled to various cities in Montana to visit with high school administrators and counselors to enlighten them about the programs and advantages for students attending Tech. Dr. Cameron traveled to high schools throughout the State doing Chemistry Magic Shows and talking about programs at Tech. He has also served the Southwest Montana Regional Science Fair as a Judge for over 25 years. He was active in the State and Regional sections of the American Chemical Society serving as the State treasurer for 13 years and organized several Montana Section conferences as Montana Tech. He served as Chairmen of the Awards Committee for the Northwest Region of the American Chemical Society for three years, and was an active member of the local chapter of Sigma Xi, serving

as the local treasurer for five years. He coordinated the Mile Marker 73 Fund Raiser to help defray the medical expenses for several Tech students who were involved in a deadly car wreck in 2012.

For 28 years Dr. Cameron has taught courses primarily in General (College) Chemistry, Honors General Chemistry, Analytical Chemistry and Advanced Instrumental Analysis with labs. He developed special topics classes in Problem Solving in Chemistry, which eventually morphed into the Pre-Professional Studies courses, and advanced courses in chromatography and mass spectrometry. He co-developed courses on the spectroscopic identification of organic compounds, fate and transport of organic compounds in the environment, and computational chemistry. Dr. Cameron has been responsible for the maintenance and repair of most of the chemical instrumentation in the Chemistry Department; and, he has instructed a large number of chemistry students and students from other departments on campus on the use of this instrumentation for their undergraduate and graduate research. Dr. Cameron developed the initial Pre-Professional Health (PPH) Studies at Tech to assist students interested in attending professional health schools. Along with other Tech faculty, he has been advising these PPH students for nearly 20 years. He has taught the Freshman PPH seminar from its inception along with a Current Topics in Health Care seminar and an entrance exam preparation course. The PPH studies has also been a very successful recruiting tool for the Chemistry and Biology programs. Dr. Cameron developed Tech's first Honors Program and served as the Chair of the Honors Program Committee for several years along with teaching in the Honors Seminar Classes. In addition, he organized and was the group leader for three short-term studies abroad for Tech students, faculty and staff, traveling to Italy, Ireland and Spain.

Dr. Cameron was an active researcher while at Montana Tech serving as the research advisor/mentor to 18 undergraduate chemistry majors and seven M.S. students. Throughout his career he has 12 peer-reviewed publications, 11 published Governmental Reports, 6 published conference proceedings, and 37 conference presentations. He was successful in acquiring over \$440,000 in external funding for research as the Principle Investigator (PI) and an additional \$400,000 as a Co-PI. He assisted Dr. Doug Coe as one of several Co-PI's in successfully receiving three NSF-STEM grants for \$1.6 million dollars for the Montana Minds, Scholarships for Science and Engineering Students.

In the community, Dr. Cameron was instrumental in establishing soccer as a varsity sport in Butte High School. He served as vice president and president of the local youth competitive soccer club and was a coach and referee for several years. He also served as a high school soccer referee for the Montana High School Association. He has been a member of the Butte Exchange Club service organization for many years helping to raise money and awareness for youth and local civic projects and to raise awareness and prevent child abuse. He is currently on the Board of Directors for the Exchange Club. He is also a Board Member for the Jacob Wheeler Foundation. This group works to raise awareness of and prevent suicide and provides scholarships to local high school students as part of the awareness process. Dr. Cameron was ordained a Deacon in the Catholic Church several years ago and serves the Holy Spirit Catholic Church in a number of duties. He also volunteers at St. James Hospital as an on-call chaplain primarily in the evenings.

Based on his accomplishments in teaching, research and service, the Chemistry and Geochemistry Department of Montana Tech is pleased to nominate Professor Douglas Cameron as Professor Emeritus of Chemistry and Geochemistry at Montana Tech together with all the rights, privileges, and honors thereto appertaining.