

Projekt pn. „*Wzmocnienie potencjału dydaktycznego UMK w Toruniu w dziedzinach matematyczno-przyrodniczych*”
realizowany w ramach Poddziałania 4.1.1 Programu Operacyjnego Kapitał Ludzki

Dr. Marshall D. McCue is a comparative physiologist from St. Mary's University in San Antonio, Texas, with an interest in exploring how different animals have adapted to physiologically cope with the challenges (e.g., dehydration stress, thermal extremes, food limitation, etc.) posed by their respective environments. He graduated from the University of Florida (B.Sc.), the University of California, Irvine (M.Sc.) and from the University of Arkansas, Fayetteville (Ph.D.) He spent many several years characterizing the digestive energetics and biochemistry among a wide range of animal models before switching his research focus on the physiological responses animals undergo when faced with limited food availability. Over the recent years he has begun integrating stable isotope chemistry into his physiological investigations. He developed mathematical models and protocols to explore how animals ‘choose’ to oxidize different types of nutrients in different situations. He also developed models that enable researchers to characterize the extent to which different nutrients are differentially allocated among different organs to achieve competing physiological endpoints.