

Meet the Presenter...

Michael K. Schultz

Dr. Schultz is a tenure track Assistant Professor in the Departments of Radiology and Radiation Oncology (Free Radical and Radiation Biology Program) at the University of Iowa. Mike earned a PhD in Oceanography at Florida State University where he studied environmental radiochemistry of naturally-occurring and anthropogenic actinides and uranium-series radionuclides in terrestrial and aquatic systems. Dr. Schultz's field studies of actinide aquatic chemistry include investigations of the effect of seasonal anoxia and redox-active transition metal cycling on the behavior of actinides (U-nat, Th-nat, $^{239/240}\text{Pu}$, ^{238}Pu , ^{241}Am) and ^{210}Po in a seasonally anoxic lake (Pond B) at the Savannah River National Laboratory Site. Mike joined the University of Iowa in 2006 after a post doctoral appointment at the National Institute of Standards and Technology in Gaithersburg MD, in addition to work in radioanalytical methods development for General Engineering Labs, and 5 years as a Business Manager for ORTEC near Oak Ridge National Laboratory.



He was appointed to his current position in 2009. His research interests include radiochemistry of the elements for nuclear forensics and the development of new synthetic strategies toward novel small molecules and peptides for targeted molecular imaging and therapy for cancer. This research involves application of light radionuclides ^3H , ^{11}C , and ^{18}F , as well as transition metal radionuclides ^{64}Cu , ^{68}Ga , ^{90}Y , ^{213}Bi , ^{212}Pb , and rare earth ^{177}Lu for imaging and therapy of disease.

His current projects involve the development of multi-receptor targeted agents for imaging and treatment of metastatic melanoma, as well as clinical translation of new ^{68}Ga labeled peptides for imaging neuroendocrine tumors. His efforts to bring ^{68}Ga labeled compounds from bench to bedside have recently resulted in the first ^{68}Ga labeled peptide for clinical imaging of patients in the United States at the University of Iowa.

In the nuclear forensics, the breadth of Dr. Schultz's experience in radiochemistry, combined with synthetic expertise in radiometal/organic chelator molecular construction, provides a backdrop for the development of innovative new paradigms in the analysis of a variety of natural-matrix and manufactured materials for nuclear forensic applications. Mike currently has collaborative projects with the SRNL and the INL.

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