

Meet the Presenter...

Dr. Mikael Nilsson

Dr. Mikael Nilsson is an assistant professor in the Department of Chemical Engineering and Materials Science at the University of California, Irvine. Before 2009, Dr. Nilsson was a post-doctoral research associate at Washington State University. He graduated with an M.S. in chemical engineering in 2000, and with a Ph.D. in nuclear chemistry in December 2005 from Chalmers University of Technology, Gothenburg, Sweden.



During his M.S. and Ph.D. studies, Dr. Nilsson was one of the Swedish contributors to the European projects for partitioning of spent nuclear fuel, PARTNEW and EUROPART. He was also a member of the Swedish reference group on partitioning and transmutation research during this time. In 2004, he was a visiting scientist at the research center in Jülich, Germany under the supervision of Dr. Giuseppe Modolo. Between September and November 2008, Dr. Nilsson was a visiting scientist at Pacific Northwest National Laboratory. In October 2010, he became a certified senior reactor operator for the UC Irvine TRIGA nuclear reactor.

At UC Irvine, Dr. Nilsson teaches courses in Advanced Chemical Engineering Thermodynamics, Chemical Engineering Unit Operations (laboratory course), The Nuclear Fuel Cycle, Introduction to Nuclear Chemical Engineering, and Radioisotope Techniques, and is involved in summer programs for nuclear reactor operators. His research interests include actinide chemistry, solvent extraction fundamental chemistry and process development, extraction and detection equipment development, radiolysis and phase composition of organic solvents. Dr. Nilsson's research group currently comprises six graduate student researchers and four undergraduate students. He is active in the Industrial and Engineering Chemistry Division of the American Chemical Society. Dr. Nilsson is author of over 20 papers in peer-reviewed journals and proceedings, ten publicly-released reports, several papers in conference proceedings, and numerous oral conference presentations.

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