



MARK ORAZEM

For his contributions to the understanding of impedance spectroscopy and to cathodic protection for buried pipelines and for his distinguished service to the educational and research

missions of The Electrochemical Society.

Mark Orazem obtained his BS and MS degrees from Kansas State University and his doctorate in 1983 from the University of California, Berkeley. In 1988 he joined the faculty of the University of Florida where, since 1992, he holds the position of Professor of Chemical Engineering. He is the director and organizer of the UF/BP Engineering Development Program for the Caspian Sea Region. Orazem is the recipient of two teaching awards and two research professorships from the University of Florida. He was recognized as an outstanding educator in 2004 by BP Azerbaijan. He was recognized as the 2005 College of Engineering Distinguished International Educator, and he received the 2006 Excellence in Teaching Award from the local student chapter of the AIChE.

Orazem has over 100 refereed publications, and he has delivered five plenary lectures at international meetings. Orazem's interests in electrochemical engineering include development of mathematical models for corrosion processes and cathodic protection of complex structures. His work on electrochemical impedance spectroscopy has encompassed corrosion, biomedical processes, and electronic materials. Orazem's group at the University of Florida was the first to develop finite-element and boundary-element models for cathodic protection of coated pipelines with coating defects that expose bare steel. The measurement model approach, developed in collaboration with Professor Luis García-Rubio (University of South Florida), provides a powerful method for statistical analysis of impedance data.

Orazem serves since 2001 as Associate Editor for the *Journal of The Electrochemical Society*. He has served on the Publication, Education, and Finance committees of the Society. He is a vice-president of the International Society of Electrochemistry and served previously as their U.S. Regional Representative. He has delivered numerous short courses on Impedance Spectroscopy for the Electrochemical Society (ECS) and is co-authoring, with Bernard Tribollet, of the CNRS in Paris, a textbook on impedance spectroscopy.