Corrosion Division 2010 Morris Cohen Graduate Student Award

Pouria Ghods has been named the recipient of the Corrosion Division’s 2010 Morris Cohen Graduate Student Award. He received his BSc degree in 2001 and his MSc degree in 2004, both in civil engineering from University of Tehran, Iran. He joined the PhD program at Carleton University and conducted research on corrosion of infrastructure with O. Burkan Işgor as his advisor. He completed part of his experimental work at CANMET Materials Technology Laboratories (MTL) in Canada. He obtained his doctorate degree in civil engineering materials in June 2010.

The main goal of Dr. Ghods’ PhD study was to carry out multi-scale investigations of the formation and chloride-induced breakdown of passive films on steel in the highly alkaline environment of concrete. The multi-scale investigation was designed to bridge length scales from the nanoscale to the macroscopic. In addition to traditional electrochemical methods such as electrochemical impedance spectroscopy (EIS), he used highly specialized experimental techniques, such as transmission electron microscopy (TEM) of the samples taken using focused ion beam (FIB) technique and X-ray photoelectron spectroscopy (XPS) as well as atomic force microscopy (AFM) to characterize the passive film properties both in the absence and presence of chloride.

Dr. Ghods has forty peer-review publications including thirteen journal articles. He received several awards including the NACE Foundation Academic Award in 2009, an NSERC Postdoctoral Fellowship in 2010, and the Jag Mohan Humar Graduate Student Fellowship in 2007. His research interests are numerical modeling of steel corrosion in concrete, microscopic studies of passivity and pitting corrosion, non-destructive corrosion measurement of rebar in concrete structures, and evaluation of coatings performance in aggressive environments. He may be reached at pghods@connect.carleton.ca.

Call for Nominations

The ECS Summer Fellowships were established in 1928 to assist students during the summer months in pursuit of work in the field of interest to ECS. The next fellowships will be presented in 2011.

Nominations and supporting documents should be sent to Vimal Chaitanya, New Mexico State University, Office of the VP for Research, MSC 3RES - Box 30001, Las Cruces, NM 88003-8001, USA, e-mail: vimalc@nmsu.edu. Materials are due by January 1, 2011.

The Student Research Award of the Battery Division was established in 1962 to recognize promising young engineers and scientists in the field of electrochemical power sources and consists of a scroll, a prize of $1,000, waiver for the meeting registration, travel assistance to the meeting if required, and membership in the Battery Division as long as a Society member. The next award will be presented at the ECS fall meeting in Boston, Massachusetts, October 9-14, 2011.

Nominations and supporting documents should be sent to Robert Kostecki, Lawrence Berkeley National Laboratory, 1 Cyclotron Rd., MS 70R0108B, Berkeley, CA 94720-8168, USA; tel: 510.486.6002, e-mail: r_kostecki@lbl.gov. Materials are due by March 15, 2011.

The Morris Cohen Graduate Student Award of the Corrosion Division was established in 1991 to recognize outstanding graduate research in the field of corrosion science and/or engineering. The Award, for outstanding master’s or PhD work, is open to graduate students who have successfully completed all the requirements.

For details on each award—including a list of requirements for award nominees, and in some cases, a downloadable application form—please go to the ECS website (www.electrochem.org) and click on the “Awards” link. Awards are grouped in the following sub-categories: Society Awards, ECS Division Awards, Student Awards, and ECS Section Awards. Please see the individual award call for information about where nomination materials should be sent; or contact ECS headquarters.