The SAS Spectrum Newsletter
The Newsletter of the Society for Applied Spectrscopy

January, 2008

A Spectroscopy Power Couple

KAREN AND FRANCIS ESMONDE-WHITE: A SPECTROSCOPY POWER COUPLE

Karen and Francis Esmonde-White are two junior scientists with special fondness for SAS. Karen is a Ph.D. student under the direction of Michael Morris at the University of Michigan. Francis is working on his Ph.D. with David Burns at McGill University. They met briefly at the SAS Poster Session at the 2005 FACSS meeting in Quebec, and were better acquainted at the SAS Reception at that meeting. Both received SAS Poster Awards at the 2007 FACSS meeting (photos below). Karen is continuing her vibrational spectroscopy research and is planning to graduate in December, 2008. Francis is writing his thesis and will be doing a postdoc with Michael Morris. Their career goals include working together to create their own spectroscopy company. Francis would be involved in the development of hardware, while Karen would be focused on developing applications. Congratulations to both and we wish them continued success. They wanted to thank SAS for being a fun and inspiring organization to young people.

SAS POSTER SESSION STUDENT AWARDS

Recognizing outstanding poster presentations at FACSS involving spectroscopy research

Karen A. Esmonde-White
University of Michigan
Surface-Enhanced Raman Spectroscopy Evidence for Hyaluronic Acid Polymer Entanglement at Nanoliter Volumes
Director: Michael Morris.

Francis Esmonde-White
McGill University
Rapid Measurements of Optical Scattering using a Portable Photon Time-of-Flight Device
Director: David Burns.

Zorabel M. Lejeune
Louisiana State University
Controlling the Organization of Porphyrins on Surfaces using Nanolithography
Director: Jayne C. Garno.

SAS GRADUATE STUDENT AWARDS

Recognizing graduate students for their outstanding research in spectroscopy

Gary T. Dobbs
Georgia Insitute of Technology

Gary T. Dobbs was born and raised in Russelville, AR. He received an academic scholarship to attend the University of Central Arkansas in Conway, AR, where he graduated cum laude in 2002 with a B.S. degree in chemistry with ACS certification. In 2001, he received an Energy Research Undergraduate Fellowship from the U.S. Department of Energy to investigate applications of glow discharge mass spectrometry at Oak Ridge National Laboratory under the guidance of Dr. Douglas C. Duckworth. Gary began his graduate studies at the Georgia Institute of Technology in 2002, where he was awarded the Institutes Presidential Fellowship. He is currently finalizing his doctoral research in the field of analytical chemistry under the advisement of Dr. Boris Mizaikoff. As a participant in the Gulf of Mexico Gas Hydrate Research Consortium through the Center for Marine Resources and Technology Program at the University of Mississippi, his doctoral research has focused on the development of infrared spectroscopy as a tool for monitoring and examining oceanic gas hydrate ecosystems. His research has involved establishing the capability and first principles for monitoring simple, natural gas hydrates formed from aqueous solution in controlled laboratory experiments with mid-infrared fiber-optic evanescent wave spectroscopy, assessing the feasibility of implementing spectroscopic sensing strategies to monitor gas hydrate dynamics in seafloor sediments, and characterizing the diversity and origins of carbonate minerals characteristic of gas hydrate systems in the Gulf of Mexico. His current research interests include instrumental and application development for deep-sea chemical sensors.

JANUARY HISTORICAL EVENTS IN SPECTROSCOPY

by Leopold May, Catholic University

January 1, 1960 The first issue of Applied Spectroscopy published by the national Society for Applied Spectroscopy appeared on this date.

January 2, 1947 US Atomic Energy took over from wartime Manhattan Engineer Commission District on this day.

Comments to butcherATemail.wcu.edu