



**Pensacola Section  
of the  
American Chemical Society**



**SEPTEMBER 2008 MEETING NOTICE**

**DATE:** Monday, September 15, 2008

**TIME:** 6:00 - Social (*attitude adjustment period*)  
6:30 - Dinner  
7:30 - Lecture

**PLACE:** Cactus Flower Cafe  
3425 North 12<sup>th</sup> Avenue, Pensacola, FL 32503. Tel. 432-6100

**DINNER CHOICES:**

The following six items will be offered in variations via special menu upon arrival. (1) Enchilada Verde, (2) Quesadilla, (3) Chimichanga, (4) Tostada, (5) Tacos, (6) Burrito. Each with **one** of the following choices: beef, pork, chicken or vegetarian.

**COST:** \$ 16.00 - 23.00 depending upon choice (tip and tax included)

**TOPIC:** "Agricultural Polymers for Corrosion Protection of Metals"

**SPEAKER:** Dr. Victoria L. Finkenstadt

Plant Polymer Research Unit, United States Department of Agriculture, Peoria, IL

**ABSTRACT:** Corrosion is one of the most serious and challenging problems faced worldwide by industry. When metals come in contact with different environments such as air, water, chemical products and pollutants, they begin to degrade as the metal interacts with its environment. This research investigates the inhibition of corrosive behavior by agricultural-derived polymers such as starch and bacterial exopolysaccharides. Electrochemical Impedance Spectroscopy has been used to evaluate the corrosion inhibition of different polysaccharide thin films cast from an aqueous solution onto steel coupons. There were two different behaviors when films were cast onto the steel. Some polysaccharide films interacted immediately with the metal coupon to form an iron(III) oxide layer ("rust") during the drying process while others did not. The samples which did not form an initial oxide layer had the most corrosion inhibition and formed an iron (II) passivation layer during testing that persisted after the cells were disassembled.

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**RESERVATIONS:** Please call BRUCE LYSEK at 968-8822 by NOON, Thursday, September 11, 2008. Members at PJC and UWF please call the Department Secretary before the above deadline.

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Early Warning for **October** meeting: Mark your calendar for a Joint Meeting with the Mobile Section on October 14, 2008. Details later.