American Chemical Society
Wichita Section

May 2010 Newsletter
Stephen Donnelly, Editor

Section Meeting
Tuesday, 18 May, 7:00 PM
Broadhurst Student Center
Central Christian College
McPherson, Kansas

Meal (optional): 6:00 p.m.
The meal will be served in the Alumni Dining Room of the Broadhurst Student Center on the campus of Central Christian College. The cost is $12.50 per person, and the section will pick up half the cost for students. Cash or checks made out to the ACS Wichita Section will be collected before the meal. RSVP to Robin Jackson by 14 May – her contact information is listed below.

Meeting: 7:00 p.m., The meeting will take place in the Reimer Business Center, room 1134 on the CCC campus. Dr. Alan Tonelli will give a presentation on polymers.

Directions: Central Christian University, 1200 S. Main Street, McPherson
From I-135 take exit 60, U.S. Highway 56 west to Main Street in McPherson. Turn left (south) on to Main Street. Turn right (west) on to Avenue D. After one block turn left (south) onto Maple Street. The Broadhurst Student Center is on the right between Avenues E and F.
See also: http://www.centralchristian.edu/aboutcampusmap.html

Speaker: Dr. Alan Tonelli
Title: Polymers: The Chemistry of Commerce and Life

The high molecular weight, long-chain nature of polymers is utilized to explain their unique properties and shapes. Unlike small-molecule and atomic materials, which may only respond by altering their intermolecular or interatomic spatial arrangements, polymer chains can in addition uniquely respond internally by changing their intramolecular sizes and shapes. The singular internal flexibility of polymers is utilized to explain their unique properties as exhibited by both man-made synthetic polymers and naturally-occurring biopolymers. For example, it is concluded that life is critically dependent upon the ability of biopolymers to undergo intramolecular, single-chain conformational phase transitions in order to organize into the complex bio-materials found in nature.

Speaker Bio:

Chair’s Message
Greetings to the Wichita Local Section!

Those of you in attendance at the April meeting enjoyed a great presentation by Dr. Ariel Fenster
from MaGill University, Montreal, Canada concerning GMO’s. We enjoyed a great dinner and presentation about a timely topic. Student awards and 50-year member awards were also given.

Please join us on Tuesday, May 18, for another timely topic: Polymers: The Chemistry of Commerce and Life by Dr. Alan Tonelli. Dinner will be served at 6:00 P.M. with the talk immediately following at 7:00 P.M. on the Central Christian College Campus in the ADR, and the lecture in the Reimer Business Center, 1134. Cost for the dinner will be $12.50, with the section paying half the cost for student meals.

In the history of Chemistry, May is right in step with the topic for our next section meeting. On May 1, 1839, French chemist Hilarie Chardonnet was born. Chardonnet developed the first artificial rayon fiber “accidentally” while searching for a substitute for silk. On May 2, 1979, Giulio Natta died. Natta shared the 1963 Nobel Prize in Chemistry with Karl Ziegler for their work creating polymer chains using the Ziegler-Natta catalyst. The polymer they created, polypropylene, became the most widely used polymer: plastics!

Don’t miss out on the May meeting!

Sincerely,
Robin Jackson, Chair ACS Wichita Section

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Position Available…

Certified Environmental Management, Ltd.

ISO 17025 Laboratory looking for BS/BA Chemist/Biologist/or Engineer to work within a fully accredited AIHA laboratory. Applicant must be willing to travel once/month for a week. Laboratory experience desirable, computer skills and communication skills are essential along with impeccable ethics and integrity. Please submit application to CEM, Ltd., P.O. Box 504, Salina, KS 67401. Review company background at www.cemih.com.

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Molecule of the Week

[5-chloro-2-(2,4-dichlorophenoxy)phenol] or Triclosan is an antibacterial and antifungal agent that has been used since the early 1970s. It was first described by E. Model and J. Bindler in 1964. It is used in consumer products ranging from toothpaste to deodorants to toys. The safety and effectiveness of triclosan recently have come under scrutiny, and the US Environmental Protection Agency and Food and Drug Administration have initiated efforts to reexamine its health risks.

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http://membership.acs.org/w/Wichita/

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