



American Chemical Society

East Texas Section

March 2015

Next Meeting

Date: Thursday, March 5
Place: Auditorium, B-86
Eastman Chemical Company
Longview, TX

Dinner: On your own
Time: Speaker 7:00 P.M. (No charge for the talk)
Please make reservations by Wednesday, March 4 by calling or emailing Mike Sheets at 903-832-5565 X 3359 or mike.sheets@texarkanacollege.edu

Epoxybutene: The development of a selective process from butadiene

Jerome Stavinoha
Eastman Chemical Company
Longview, TX

Abstract

The Eastman Chemical Company process to produce 3,4-epoxy-1-butene from butadiene represents the only example of an olefin other than ethylene to be selectively epoxidized commercially in the vapor phase using molecular oxygen. The catalyst for ethylene epoxidation also uses a silver-based catalyst, but because the kinetics of butadiene epoxidation are significantly different from those for ethylene epoxidation, the promoter requirements and reaction conditions are very different. The highly functional nature of epoxybutene makes this molecule an especially attractive starting material for many specialty and commodity chemicals. The research work that led to the development of the process will be discussed.

Speaker Bio

Jerome Stavinoha is a Technology Fellow for Eastman Chemical Company at its site in Longview Texas. Stavinoha received a bachelor's degree in chemistry from the University of St. Thomas in 1975 and a Ph.D. in organic chemistry from Texas A&M University in 1979, working with Patrick Mariano. He began his career at Eastman Kodak in 1979 as a chemist at its Texas Eastman facility in Longview, Texas. Stavinoha continued to work for Eastman Chemical when the company was spun off from Kodak and rose through the technical ranks to the position of fellow in 2008. He had made major contributions in several important Eastman technologies, including



hydroformylation, epoxidation, and hydrogenation. Stavinoha's work was instrumental in developing a key monomer process for the introduction of Eastman's Tritan™ copolyester. In addition, Stavinoha is the author of 15 publications and holds 41 United States patents. He was named an ACS Industrial and Engineering Chemistry Division Fellow in 2010. On a personal note, Stavinoha and his wife, Deya, have been married for 33 years and have three children. Stavinoha's favorite hobbies include photography and gardening.

Upcoming Dates

March 5	Jerome Stavinoha at Eastman
March 22-26	Spring National Meeting, Denver, CO
April	HN Cheng at Louisiana State University, Shreveport
August 16-20	Fall National Meeting, Boston, MA
September	Brian Salvatore at Panola College
October	Xiankai Sun at UT-Tyler
November	Jeff Gaffney at Texarkana College
November 4-7	Southeast/Southwest Regional Meeting, Memphis, TN
December 15-17	PacifiChem 2015, Honolulu, HI

Attention High School Chemistry Teachers

The East Texas Section of the American Chemical Society is offering a limited number of grants to High School Chemistry teachers in our area. We have two different grant programs:

1. High School Chemistry Program that will fund up to \$500 for materials, chemicals or other resources for a chemistry-related project.
2. Chemistry Professional Meeting Support Program that will fund up to \$500 for meeting registration or housing at a professional meeting sponsored by a chemical society, or by a science-related society.

To receive the support applications (electronic format only) please contact Dr. Bruce Hathaway (BruceHathaway@letu.edu) the grants program committee chair.



Coming Soon!!

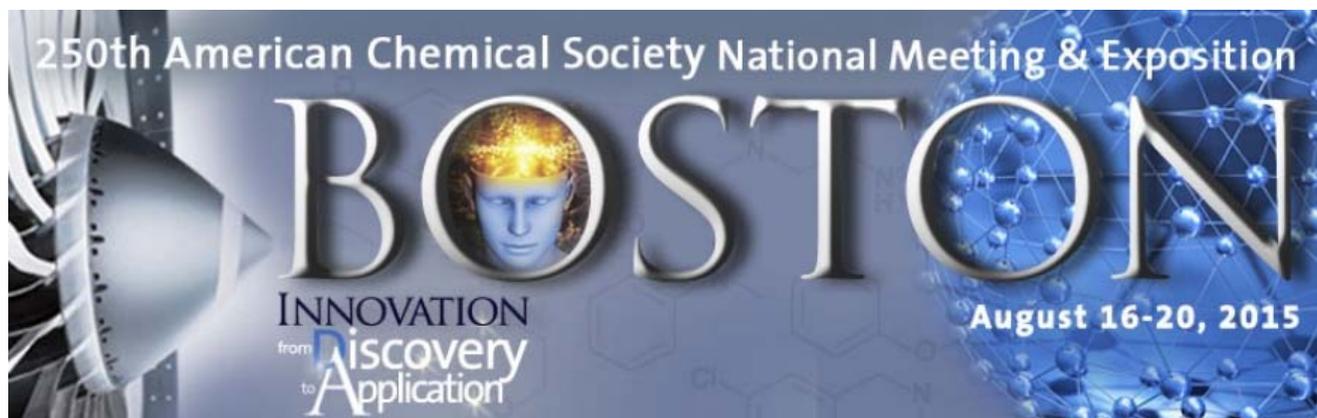
We are in the process of getting a website up for the Section. Watch for more details later this Spring.

Northwest Louisiana Local Section Meeting

March 11, 2015 LSU, Shreveport Dr. Hari Viswanathan (Los Alamos National Lab)
"Future Technological Developments in Hydraulic Fracturing-Improving Efficiency and Safety"



Thousands of chemical professionals will come together for the upcoming 249th ACS National Meeting & Exposition in Denver, CO from March 22 – 26, 2015 to explore the overarching multidisciplinary theme of **Chemistry of Natural Resources**. Join us for this 5-day meeting packed with learning opportunities that will enrich your experience and cultivate new ideas and new contacts.



Submission Now Open!

A Call for Papers for the fall 2015 ACS national meeting has been issued. ACS's online Meeting Abstracts Programming System ([MAPS](#)) is now open for Boston abstracts. View the online [Call for Papers](#) for a list of symposia from each participating division & committee.

Registration and Accommodations open mid-May



2015 Section Officers

Chair	Paul Zhang	pzhang@ana-lab.com
Chair-elect	Bruce Hathaway	BruceHathaway@letu.edu
Treasurer	Patti Harman	patricia.harman@texarkanacollege.edu
Secretary	Mike Sheets	mike.sheets@texarkanacollege.edu
Councilor	Mike Sheets	mike.sheets@texarkanacollege.edu
Alt. Councilor	Philip Verhalen	pverhalen@panola.edu

Upcoming ACS Webinars

March 5, 2015

Making Plastic Greener Through Next Generation Polymers

<http://acswebinars.org/greener-plastics>

In this presentation Dr. Marc Hillmyer will introduce the Center for Sustainable Polymers and give an overview of the current research portfolio aimed at the discovery of efficient and precision conversions of renewable raw materials into innovative polymeric products that outperform the current suite of non-sustainable polymers from performance, environmental, and cost perspectives.

March 12, 2015

Communicating Carbon Science

<http://acswebinars.org/communicating-carbon>

Global climate change presents one of the most urgent environmental crises in recorded history. Yet, as recently as 2009, more than half of the US population doubted mankind's role in rising temperatures. Join graduate student Alexis Shusterman as she discusses various strategies for communicating climate science with a general audience and gives a peak into the cutting-edge carbon science happening at UC Berkeley today.

March 19, 2015

Fragment-Based Drug Design Strategies

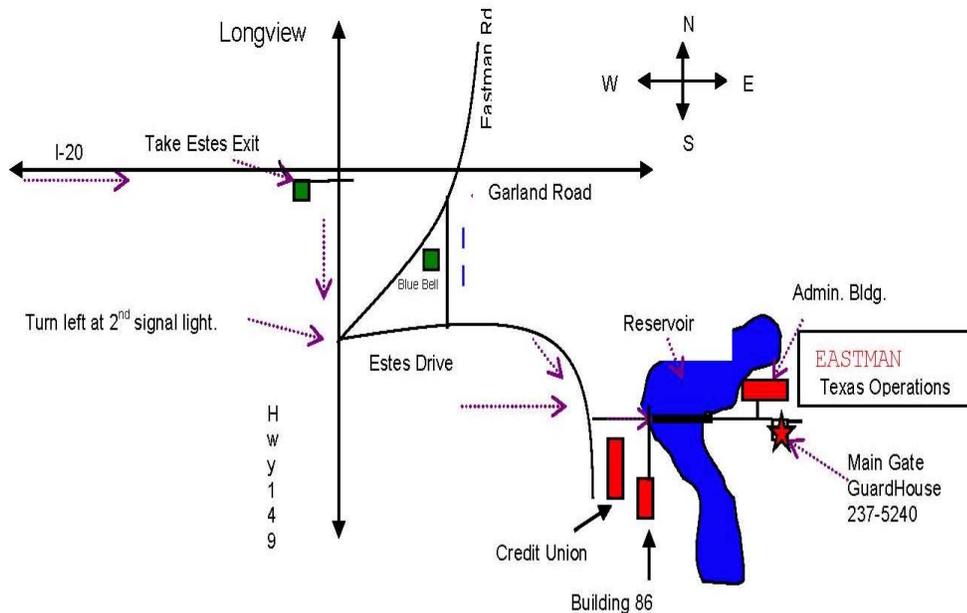
<http://acswebinars.org/fragment-drug>

New approaches are essential to deliver drugs and tool compounds against increasingly difficult targets. Rather than screening millions of drug-sized compounds, fragment-based drug discovery starts with libraries of just a few thousand very small molecules, or fragments. This enables a more thorough exploration of chemical space to find better starting points for lead optimization. Join us as Dr. Dan Erlanson explains all this and more in the third session of our symposium.

About ACS Webinars™

ACS Webinars™ is a free, weekly online event serving to connect ACS members and scientific professionals with subject matter experts and global thought leaders in chemical sciences, management, and business. The ACS Webinars are divided into several series that address topics of interest to the chemical and scientific community; these series include careers, business and innovation, professional growth, joy of science, extreme chemistry, entrepreneurial initiative, green chemistry, and more. Each webinar is 60 minutes in length, comprising a short presentation followed by Q&A with the speaker. The live webinars are held on Thursdays from 2-3pm ET. Recordings of the webinars are available online and upcoming events are posted at <http://acswebinars.org/>.

Map to Eastman Chemical Company, Texas Operations



From Shreveport Airport:

Travel I-20 west towards Dallas approximately 60 miles to Longview. Take the Estes Parkway/Hwy 149 exit. At Estes Parkway/Highway 149, turn left and travel over the interstate, continuing 6/10 mile to the second signal light and turn left onto Estes Drive. Travel 9/10 mile and turn left into plant entrance. Before reservoir turn right and follow road to B-86 parking.

From Gregg County Airport:

From airport entrance turn right (east) on Hwy 322. Travel 1.8 miles until Hwy 322 dead ends into Hwy. 149. Turn left (north) and travel approximately 1.7 miles to railroad tracks. Immediately after railroad tracks, turn right onto Kodak Blvd. Travel 9/10 mile and turn right at entrance to plant. Before reservoir turn right and follow road to B-86 parking.

From Tyler:

From Tyler, travel approximately 40 miles to Longview. Take the Estes Parkway Exit #595A. Turn right (south) onto Hwy. 149. Travel 4/10 mile to second signal light. Turn left onto Estes Drive and travel approximately 9/10 mile and turn left into plant entrance. Before reservoir turn right and follow road to B-86 parking.