



Baton Rouge Newsletter

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The *AIChE Baton Rouge Newsletter* is published monthly, from September to June, by the AIChE Baton Rouge Section, 110 Chemical Engineering, LSU, Baton Rouge, LA 70803. It is distributed free of charge to members of the Baton Rouge Section of the American Institute of Chemical Engineers.

Membership Fee: \$15.00/yr.

March Virtual Meeting

Date and Time: Thursday, March 25, 2021, 6:00 PM

Speaker: **Dr. John A. Pojman**, Professor, LSU Department of Chemistry

For the link to the meeting visit the Baton Rouge Section webpage, aiche-br.org.

Topic: *Time-Lapse and Cure-On-Demand Polymerizations for Adhesives, Wood Repair and Art*

Abstract: The goal of cure-on-demand polymerization is to create one-pot systems that have a long shelf life but will react rapidly when curing is desired. We use two approaches: coupling polymerizations with clock reactions and an approach called frontal polymerization in which a localized reaction zone propagates from the coupling of thermal transport and the Arrhenius dependence of the reaction rate of an exothermic polymerization. We demonstrate that frontal polymerization can be used to create a cure-on-demand putty for filling holes in wood, marble, and sheet rock. The putty has a months-to-years shelf life, is a one-pot formulation, can be applied leisurely and then cured rapidly with a flat heat source. Finally, we will explore the commercialization of "QuickCure Clay" for the arts and crafts market.

Take good care of yourself

Avoid the virus

Professional Engineering Certification

The subject of this meeting is an acceptable activity for continuing Professional Development as defined by LAPELS and is **approved for one (1) PDH unit**.

The Baton Rouge AIChE chapter is NOT responsible for individual record keeping of PDH credits. Certificates must be obtained at the meeting by the individual.

Other Upcoming 2021 Events / Speakers

TBA Seminar at Oak Lodge. Topics TBA and ethics.

*If you or a colleague(s) would like to give a technical presentation at an upcoming chapter meeting for 2 professional development hours (PDHs), please contact Chapter Vice-Chair, **Chelsea Bourdon**, at CBourdon@Hargrove-epc.com to schedule a meeting date and time.*

John A. Pojman, PhD, March Speaker



Dr. John A. Pojman, a native of North Royalton, Ohio, received his B. S. in Chemistry (with a minor in Classics) from Georgetown University in 1984. He earned his doctorate in Chemical Physics in 1988 at the University of Texas at Austin. Pojman then worked for two years at Brandeis University with Irving Epstein. In 1990 he joined the Chemistry & Biochemistry department at The University of Southern Mississippi, where he taught for 18 years. Dr. Pojman joined the Department of Chemistry at Louisiana State University in August 2008, where he is a Professor of Macromolecular Science and department chair.

Pojman has co-authored one monograph, *An Introduction to Nonlinear Chemical Dynamics*, and co-edited two others. He has served four times as a guest editor for the journal *Chaos*. He has authored 169 peer-reviewed publications and 10 book chapters. Professor Pojman has made 294 presentations and received two patents.

Professor Pojman is an expert on nonlinear dynamics in polymer systems and effective interfacial tension between miscible fluids. He is an avid bass fisherman and amateur herpetologist with a special interest in the aquatic salamanders of Louisiana. He also boasts the world largest collection of pocket protectors. www.pocketprotectors.info. John is the President and CEO of Pojman Polymer Products, LLC (3pllc.com). He lives in Baton Rouge with his wife, Dionne Rousseau, and nineteen-year old son, John Jr.

Whatever you are, be a good one.

--Abraham Lincoln

From the editor's desk

Finally, this month we are able to provide you a virtual meeting by the magic of Zoom. We have to thank our Vice-Chair, Erik Flores, for his efforts in making it happen. The topic looks very interesting even if the menu is nonexistent. I guess we cannot have it all.

A year ago, when LSU closed due to the pandemic, I avoided Zoom lectures because I did not know how to do it. I pre-recorded my lectures and let the students watch them at their leisure. But this past fall semester my co-instructor and good friend Barry Guillory taught me how to do Zoom lectures and I am doing it this semester. It is almost as effective as face-to-face lecturing and it has one advantage. We record the lectures and those students who cannot watch it live can watch them at their leisure. The LSU Zoom system stores the recordings in the "cloud" and all it takes is a link to watch them.

My wife and I are now vaccinated against the COVID and are back meeting our friends at Coffee Call for café-au-lait and beignets and having lunch with our Cuban friends, all of whom are LSU ChE alumni. Soon we will be meeting you at our monthly meetings.

Enjoy the spring weather. We deserve it after the February freeze.

Armando Corripio, editor



2021 Section Contacts

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Why Should You Join the Local AIChE Chapter?

1. It is a welcoming presence to new chemical engineers in the area.
2. It provides a neutral ground mentorship toward career directions and other life topics.
3. It facilitates a better understanding of local, state, and federal policies related to our professions.
4. It offers a smooth transition for graduating chemical engineers from LSU, ULL, and other nearby universities who start working in the area.

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