

AIChE Virtual Local Section Webinar - Thurs., Feb. 23, 2017, 9:00 pm EST

What does “well mixed” mean - and what happens if a CSTR is NOT perfectly mixed?

Professor Suzanne Kresta, University of Alberta

The February Webinar of AIChE Virtual Local Section (VLS) will feature an online presentation and discussion on mixing in continuous stirred tank reactors (CSTR).

Abstract: Three radically simplifying ChE assumptions are that gasses are ideal, processes run at steady state, and stirred tanks are perfectly mixed. Real processes are full of saturated gasses, time varying operations, and complex mixing problems. In this short introduction, a technical definition of mixing is used as a framework to illustrate interesting industrial mixing problems in pharmaceutical process development, nuclear waste clean-up, bioreactors, cosmetics and food production. Participants will leave with tools to identify mixing sensitive points in a process before they become mixing problems.

About the Speaker: Prof. Suzanne Kresta joined the University of Alberta in 1992, after completing a doctorate at McMaster University. Her research is on characterizing turbulence in a stirred tank to develop design and testing methods for mixing sensitive processes. She has collaborated with industrial colleagues to solve mixing problems in over 20 industries. Two of her papers were named among the 21 Most Influential Contributions to Mixing Research (2011). She teaches process design, mass and energy balances, fluid mechanics, process data analysis, and mixing. Suzanne is a co-editor of the Handbook of Industrial Mixing (Wiley, 2004) and the follow up Advances Volume (Wiley, 2015) and has served as President of the North American Mixing Forum. She was awarded the Engineers Canada Medal for Distinction in Engineering Education (2014), the APEGA Summit Award for Excellence in Education (2013), the Rutherford Award for Excellence in Undergraduate Education (2011), the Senior Moulton Medal from IChemE (2005), the NAMF Award for Excellence and Sustained Contributions in Mixing Research and Practice (2004), and was named a Killam Annual Professor at the University of Alberta (2012).

Meeting Joining Details:

Date: Thursday, February 23, 2017

Time: 9:00-10:00 pm EST

Meeting number: 635 888 409

Access Code: 635 888 409

Meeting Link: Click Here or copy and paste the following link below on your browser.

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