

The Association of Consulting Chemists & Chemical Engineers, Inc.
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Webinar presentation: May 25th at 7:00 pm EST

From Sputnik to Smartphones

By Robert A. Pribush, PhD

Abstract of presentation

On May 25th @ 7:00 pm, Bob Pribush will present his observations and conclusions based upon his 42 years experiences at Butler University [Indianapolis] as a professor and head of the Chemistry Department -- and as an expert witness in matters related to transition metal compounds, photochemistry, forensic sciences applied to fire investigations, and pigment analyses of oil paintings, including the T.C. Steele group and the Taos group of artists.

During the period of time from Sputnik to the present, phenomenal technological advances have impacted the way chemistry instruction is delivered by instructors, how chemistry is learned by students and the manner in which student performance is assessed at universities and secondary schools. These advances were made possible by the availability of relatively inexpensive, high-speed, large-capacity computers.

In the current classroom environment, chemistry is taught on whiteboards or smartboards, and instructors interact with students using mobile devices. Because of technology, today's classroom is more interactive and engaging than ever before. In the future adaptive learning will enable instructors to more successfully deliver chemistry instruction to underprepared students as well as students with enhanced backgrounds.

This presentation provides a skeletal historical outline of how technology has impacted chemistry instruction by providing new tools for content delivery, learning, and performance assessment, and some problems associated with that technology of the launch of Sputnik, scientists who had immigrated to the United States after World War II and did much of the space-related research. The need for an increased number of better-educated homegrown scientists, engineers, and mathematicians became clear after Sputnik.

Please join from your computer, tablet or smartphone. We will be using Al Sagarese' ZOOM.

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<ul style="list-style-type: none">• ZOOM ID: 268-404-6639.• Passcode:251 585.

Biography

Dr. Pribush earned a BS-Chemistry from the University of Delaware; PhD from the University of Massachusetts and held a two-year post doctorate research fellowship at the University of Southern California in Los Angeles. In 1974, he joined Butler University, and achieved the rank of Professor while serving terms as head the Chemistry Department and Associate Dean of the College of Liberal Arts and Sciences. He retired in 2016 as Professor Emeritus. He is a Fellow of the American Chemical Society and recipient of the ACS Board of Directors 2014 Award for Volunteer Service to the American Chemical Society. Bob attended Rahway, NJ high school, was an end on their football team and was student council president and three-year class president. He resides in Greenwood, Indiana with his wife Bonnie; she is a retired professor of mathematics, computer science, and leadership from Franklin College of Indiana.

Who is ACCCE

The organization was founded by a group of distinguished chemists who felt an acute need for an association that would advance the practice of consulting chemists and chemical engineers, and which would include consultants who would conform to the highest principles of professional conduct. ACC&E continues to this day as the only organization of its kind and constantly attracts to its membership qualified technical consultants of all kinds who assist their clients in creating and using chemical and engineering knowledge and technology. Elected members are qualified specialists presently engaged in consulting practice in the field closely allied to chemistry and chemical technology. – see www.chemconsult.org.