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**Wednesday, February 24, 2021**



**Carbon Footprint Analysis at a Manufacturing Facility**

By Joseph Yurko, PE, Project Lead (Retired), Xellia Pharmaceuticals USA, LLC, Bedford, OH

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**Abstract:** Climate Change is exhibiting crippling effects across the globe. 2020 has had the most hurricanes, western wildfires, warmest ocean temperatures, and polar ice melts compared to most years. These trends have been documented by the “Fourth National Climate Assessment” Volume II (<https://nca2018.globalchange.gov>). By investigating a company’s Environmental, Social, and Corporate Governance (ESG), the three central factors in measuring the sustainability and social impact of an investment in a business, we can see how a company will improve its economy and bottom line while reducing its impact on the environment by measuring the changes over time of its carbon footprint. This study was initiated by four outstanding ChE Seniors from CWRU during their 2020 Spring Semester Capstone Project.

**Bio:** In the 2020 Spring Semester Mr Yurko was a Project Lead at Xellia Pharmaceuticals (Novo Nordisk a/s) manufacturing facility in Bedford, Ohio, and has since retired in 2020. He was with Xellia for four years overseeing the process design, construction, and commissioning of critical and non-critical utility systems in two factories as well as Finished Dosage Form production operations with lyophilized presentations of Vancomycin. This facility is cGMP compliant as well as licensed and regulated by the Food and Drug Administration (FDA) and the European Medicines Agency (EMA). Mr Yurko is presently the Cleveland AIChE Section Newsletter Editor and Webmaster. Mr Yurko’s previous work as a senior project engineer was with Ben Venue Laboratories (Boehringer Ingelheim GmbH) for 12 years. Prior to this Mr Yurko was with Morrison Knudsen Corporation (became URS then AECOM) as a senior process engineer for 22 years. Mr Yurko is a professional engineer licensed in the state of Texas. He is also an Emeritus member and Fellow of AIChE, and an active member of NSPE, ISPE, and ACS.

Mr. Yurko’s presentation will be from a Zoom virtual meeting format, and AIChE members interested in attending will make their arrangements through the AIChE attached link below. Please email Joseph Yurko if you plan to attend so AIChE will be able to send you the email Zoom link before the meeting and a PDH certificate after attending. Thank you!

**Meeting Location:** *Zoom link to be emailed ahead of the meeting time by AIChE*

7:00 - 7:45 pm: Zoom Meeting  
7:45 - 8:00 pm: Questions & Answers

**Cost:** (no cost)

**Menu:** (Zoom Virtual Meeting, no meal)

**RSVP by February 22<sup>nd</sup>** with Joseph Yurko and AIChE: [j.yurko@sbcglobal.net](mailto:j.yurko@sbcglobal.net)

