

**American Institute of Chemical Engineers,
Cleveland Section**

YouTube Video Link:

<https://youtu.be/Z9NUAfXj45M?si=cRjMcYExFr9fCkn6>

Visit our Web Page at:

<https://www.aiche.org/community/sites/local-sections/cleveland/newsletters>



Friday, April 4, 2025, 12 Noon to 2 PM
CASE School of Engineering, AW Smith Bldg., Room 349

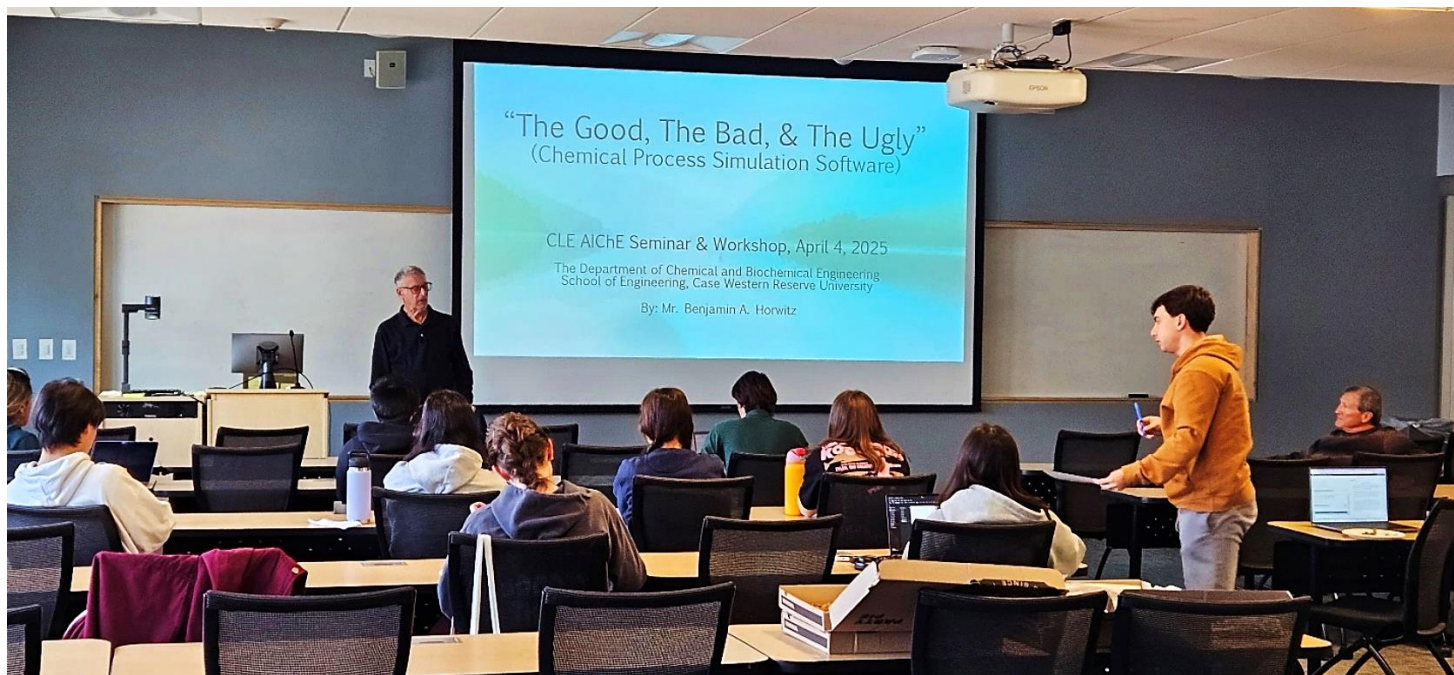


"The Good, The Bad, and The Ugly", Same Seminar with CWRU AIChE

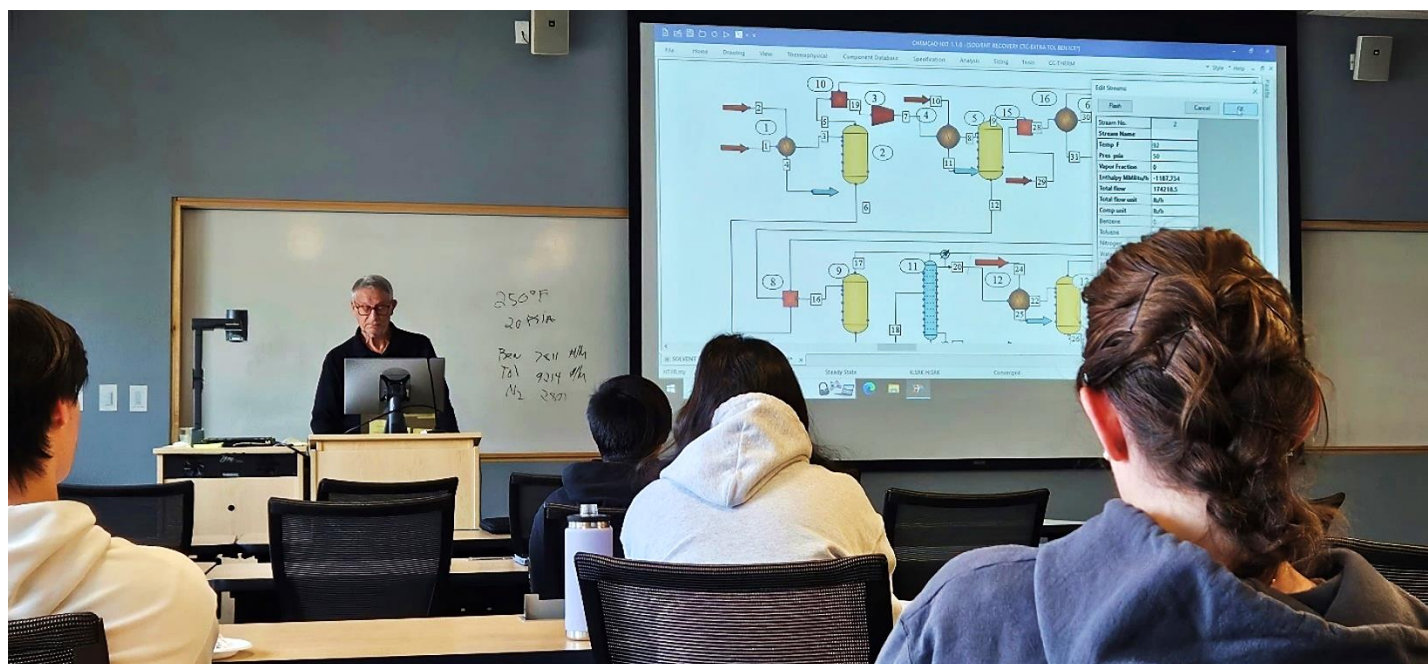
Abstract: What will be reviewed in this brief period is what simulation software can and cannot do. "The Good the Bad, and the Ugly" is not necessarily a facetious title for what we will go over in the next hour or two. In brief, the seminar will cover: Steady-State problems; transient unsteady state problems and how to solve 1st order differential equations with a steady state simulator (**and yes Ben has said to every class that he has had to use calculus in problem solving more than once**); And how to solve constant volume problems with a steady state simulator (probably upsetting many thermodynamicists in the room) All the problems discussed in this seminar are problems that have actually occurred in the real word in the 59 years Ben has been plying the trade of a chemical engineer. So, a storyline may accompany the math.

Mr. Horwitz is promoting students to bring their PC Simulation Workstations to the presentation so they may work in parallel with Mr. Horwitz during the simulation problem solving process as a learning experience.

Bio: Ben Horwitz has been teaching the Basic and Advance courses in chemical process simulation for Chemstations, (a company that has created chemical engineering software since 1988) for 32 years and will be retiring and giving his last 3-day seminar this May in Pittsburgh. He uses their chemical process simulator, Chemcad. He taught Process Design at both CSU and Case Western universities. Ben's opening comments about chemical process simulation in every seminar is: **"You will not be any smarter as a chemical engineer in three days then you are right now. You may be more efficient. You might get to the answer faster than ever before. But then again you might get to the wrong answer faster than ever before. Chemical process simulation is a tool. A powerful tool, but just a tool none the less."** Ben has a B.S. Degree in chemical engineering from the University of Pittsburgh and a M.S. degree in mathematics from the Cleveland State University. Mr. Horwitz is presently on the CLE AIChE Steering Committee serving as the Process Simulation Chair.



Ben Horwitz making introductions with CLE AIChE Professional right of screen, and CWRU AIChE Young Professionals in the foreground



(L-R) Mr. Ben Horwitz (CLE AIChE Process Simulation Chair) receiving the CLE AIChE Steering Committee appreciation letter from Mr. Mike Galgoczy (CLE AIChE Chair)

CLE AIChE: Cleveland Chapter

Fall 2024 – Spring 2025 Program Planning

(as of Mar2025)

Month	Topic, Speaker	Location	AIChE Officer Responsible
September 7, 2024 (6 PM)	Oktobefest Social Event	German Central Farm, Parma	Joe Yurko, \$7/guest admission + \$ food & beverage free for CSU AIChE students. https://germancentralfoundation.com/oktoberfest
September 11, 2024 (Wednesday 2:30 – 3:30 PM)	Dr. Yu, CSU, IEEE Quantum Computer	CSU, Engineering CSU AIChE & IEEE Students	Joe Yurko & Dr. Gatica, Dr. Holland, Members: \$10; Students: Free CLE AIChE: Pizzas & Beverages
October 10, 2024 (Thurs. 6 PM)	M.W. Wilson Company Steam Safety Class & Tour	M.W. Wilson Company 2579 Center Road Hinckley, OH 44233	Joe Yurko, Jeff Wilson, Dinner provided by M.W. Wilson Co.? M.W. Wilson Co.: 330-225-0663 https://www.wmsilsoncoinc.com
October 2024 (6 PM) Wed. 18Oct2024 Wed. 30Oct2024 Wed. 06Nov2024	Chemical Process Safety Analysis Seminars: by Gurmukh Bhatia, CPSA	Strongsville Fire Dept. Ward 1 Community Rm 11297 Webster Road, Strongsville, OH 44136	Joe Yurko, Dinner cost is included in the seminar expense. Seminar expense: \$25 per session with a total of 3 sessions. Certificates will be awarded for each class as well as a final certificate. std. 440-580-3210:
November 13, 2024 Wednesday (4:00 – 8:00 PM)	Benjamin A. Horwitz "Portrait of a Chemical Engineer" Career Discussion with students and professionals	CSU AIChE Section Joint Meeting, Washkewicz College of Engineering AIChE Chap	Joe Yurko, Dr. Gatica, Dr. Holland, CLE AIChE Meals: Professional members: \$10; Students: Free CLE AIChE: Pizzas & Beverages
December 17, 2024 (6 PM)	Nuclear Power Accident Analysis, Speaking: Andrew Gatica, Vistra Life Cycle Manag. Fleet Engineer	The Sanctuary, Rockside Road Independence, 44131	Joe Yurko, Dinner menu ordering for professional members; Students cost: \$5 http://places.singleplatform.com/shulas-steak-house-8/menu#menu_5599999
January 28, 2025 (6 PM)	SARTA Hydrogen Fuel Cell Bus Fleet Expansion Funding from DOE ARCH2 Award, Kirt Conrad CEO	Burntwood Tavern Fairlawn, Akron Rt.18 and I-77	Joe Yurko, Dinner menu \$28 ordering for professional members; Students cost: \$5 Lobster Bisque Soup or House Salad Salmon Salad, or Angus Burger, or Fish & Chips
February 27, 2025 (6 PM): Cancelled March 13, 2025 (6 PM): Rescheduled March 26, 2025 at CSU (5:30-8 PM)	1976 Diamond Shamrock plant Fortran Simulation Startup Presentation Speakers: Dr. Fowler, Dr. Harvey Benjamin A. Horwitz, Seminar "The Good, The Bad, & The Ugly" Chemical Process Simulation	The Sanctuary, Rockside Road Independence, 44131 CSU Student AIChE, Seminar WH-405, Washkewicz Hall March 26, 2025; 5:30-8 PM	Joe Yurko, Dinner menu ordering for professional members; Students cost: \$5 http://places.singleplatform.com/shulas-steak-house-8/menu#menu_5599999 Mike Galgoczy & Joe Yurko: Dinner: Pizza, professional members: \$10; Students: Free. AIChE Students to bring their PCs for workshop with simulation case studies
April 4, 2025 at CWRU (12 noon – 2 PM) April 9, 2025 at CSU (2:30 – 3:30 PM)	Benjamin A. Horwitz, Seminar "The Good, The Bad, & The Ugly" Chemical Process Simulation Andrew Zak, Speaker: Academic Career Path with ChE PhD (CSU Alumni)	CWRU Student AIChE, Seminar AWS-349, AW Smith Building April 4, 2025, 12 noon-2 PM CSU Student AIChE, Presentation WH-405, Washkewicz Hall April 9, 2025; 2:30 – 3:30 PM	Mike Galgoczy & Joe Yurko: Dinner: Pizza, professional members: \$10; Students: Free. AIChE Students to bring their PCs for workshop with simulation case studies
April 2025 (6 PM)	NEOSEF Awards Banquet	CCPL Branch Library Parma, Snow Road	Joe Spagnuolo, Moderator NEOSEF Students, CCPL Branch Library Dinner: Pizza, professional members: \$10; Students: Free
May 20, 2025 Tuesday (3 PM)	Tour of Perry Nuclear Power Reactor Simulator and Plant	Perry Nuclear Power Plant & Simulator Tour 18 visitors	Ray Zucker, Joe Yurko and Mandy Nagle (Vistra, Communications) Simulator Tour; Nathaniel Kehn and Jacob Mikulicic: Perry Nuclear Plant Peripheral Systems Tours.

