

PSEforSPEED WEBINAR SERIES 2022

Invited Lectures on Selected Topics

Live Session on **Zoom**



Webinar 1: 17 June 2022, 14:00 (CET)

Webinar 2: 28 June 2022, 10:00 (CET)

Webinar 3: 10 August 2022, 14:00 (CET)

A series of **3 webinars on different topics** related to process and product engineering has been organized by PSE for SPEED for 2022. The series will consist of the following webinars:



Do not miss the chance to meet experts!



Engineers, scientists, students, and practitioners should attend!



Certificates will be provided

Webinar 1 | 17 June 2022 | 14:00 – 15:15 hrs. (CET)

“AI in Chemical Engineering: Past, Present, and Future”



Keynote Speech and Q&A By Prof. Venkat Venkatasubramanian

Webinar 2 | 28 June 2022 | 10:00 – 11:15 hrs. (CET)

16:00 – 17:15 hrs. (CET) Broadcast Recorded Session

“Understanding the Life Cycle Implications of the Circular Economy”



Keynote Speech and Q&A By Prof. Adisa Azapagic

Webinar 3 | 10 August 2022 | 14:00 – 17:00 hrs. (CET)

“Teaching of Chemical Process Design – What should be the Contents?”



Invited Lectures and Panel Discussion By Prof. Warren D Seider and Prof. Daniel R Lewin

Moderated By Prof. Rafiqul Gani

Webinar is free of charge!

Limited seats are available, save the date and register today.

Participants will be provided with specific webinar link after registration.

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Webinar 1 | 17 June 2022 | 14:00 – 15:15 hrs. (CET)

“AI in Chemical Engineering : Past, Present, and Future”

Keynote Speech and Q&A By *Prof. Venkat Venkatasubramanian*

Professor Venkat Venkatasubramanian is Samuel Ruben–Peter G. Viele Professor of Engineering in the Department of Chemical Engineering, Professor of Computer Science (Affiliate), and Professor of Industrial Engineering and Operations Research (Affiliate) at Columbia University. Prof Venkatasubramanian is a **complex-dynamical-systems theorist** interested in developing mathematical models of their structure, function, and behavior from fundamental conceptual principles. He received the **Norris Shreve Award** for Outstanding Teaching in Chemical Engineering three times at Purdue University.

He won the **Computing in Chemical Engineering Award** from AIChE and is a Fellow of AIChE. In 2011, the College of Engineering at Purdue University recognized his contributions with the **Research Excellence Award**.

In 2020, Venkat was recognized with a **Distinguished Alumni Award** from A. C. College of Technology at its 75th anniversary celebration

From 2009 until 2019, he served as Editor, Computers and Chemical Engineering. His recent book, *How Much Inequality is Fair? Mathematical Principles of a Moral, Optimal, and Stable Capitalist Society*, was published in 2017. **Three of his papers are among the ten most-cited papers** in the 43-year history of *Computers & Chemical Engineering*. Venkat’s other interests include comparative theology, classical music,



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“Understanding the Life Cycle Implications of the Circular Economy”

Keynote Speech and Q&A By *Prof. Adisa Azapagic*



Prof. Adisa Azapagic MBE FREng is Professor of Sustainable Chemical Engineering at the University of Manchester where she leads the **Sustainable Industrial Systems** group. She specializes in **sustainable production and consumption**, helping industry, policy makers and other stakeholders identify and implement sustainable solutions to current sustainability challenges. She has **over 200 publications in the field**, including three books. Prof Azapagic is also the founding Editor-in-Chief of *Sustainable Production and Consumption*.



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Webinar 3 | 10 August 2022 | 14:00 – 17:00 hrs. (CET)

“Teaching of **Chemical Process Design**

– What should be the **Contents?**”

Invited Lectures and Panel Discussion By *Prof. Warren D Seider and Prof. Daniel R Lewin*



Prof. Warren D. Seider is Professor of Chemical and Biomolecular Engineering at the University of Pennsylvania. In process design, he **coauthored** *FLOWTRAN Simulation – An Introduction* (with J.D. Seader and A.C. Pauls) and *Product and Process Design Principles: Synthesis, Analysis, and Evaluation, 4th Ed.* (with J. D. Seader, D. R. Lewin, S. Widagdo, Rafiqul Gani, and Ka Ming Ng). He has coordinated the design project course for nearly 40 years involving projects provided by many practicing engineers in the Philadelphia area. Professor Seider was the **co-recipient** (with Professor J. D. Seader) of the **AIChE Warren K. Lewis Award** in 2004, and the recipient of the **AIChE Computing in Chemical Engineering Award** in 1992. In 2011, he received the **AIChE F. J. Van Antwerpen Award**, and in 2008, he was recognized by the AIChE Centennial Committee as **one of “Thirty Authors of Groundbreaking Chemical Engineering Books.”** He was elected as a Fellow of AIChE in 2005 and as a Director of AIChE in 1983. He has authored or coauthored over 165 journal articles and co-authored seven textbooks. He was elected as a Fellow of AIChE in 2005 and as a Director of AIChE in 1983, and has served as chairman of the CAST Division and the Publication Committee. He helped to organize the CACHE (Computer Aids for Chemical Engineering Education) Corporation in 1969 and served as its chairman.

Prof. Daniel R. Lewin holds the Churchill Family Chair at the Faculty of Chemical Engineering at Technion. He is the **co-author of the book, *Product and Process Design Principles***, published by John Wiley and Sons, whose fourth edition appeared in 2017, which is a widely-used teaching text in chemical process design. From 2019, the enhanced eBook of the 4th Edition includes approximately 90 videos clips and associated quiz questions, in a sense making it the first flipped textbook on process design. Daniel has been consistently active in continuing the development of his courseware, which promotes student awareness and competence in all aspects of Process Systems Engineering. He has **twice received Muriel and David Jacknow Awards**, as well as the **Weissman Award** for his innovative teaching methods. In 2009, he was the recipient of the American Institute of Chemical Engineering's **David Himmelblau Prize for Innovations in Computer-based Chemical Engineering Education**. In 2015, he was the recipient of the **Yannai Prize** for teaching excellence at the Technion.



Apart from his above-average teaching load, he also served as the **Assistant to the Technion Senior Vice President for the Promotion of Teaching at the Technion**, for eight years (2008–2015).

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