

“Some Uses and Misuses of Equilibrium Thermodynamics”

**Wednesday
March 20, 2019
3:00 pm
Wu and Chen Auditorium
Levine Hall**



Eduardo Glandt
Dean Emeritus
School of Engineering and Applied Science
University of Pennsylvania

Abstract

We will discuss a number of legitimate and of wrongful applications of the Second Law of Thermodynamics, in particular, in the screening of chemical processes. We consider how ideas of equilibrium thermodynamics and statistical mechanics can be of value in some non-equilibrium situations, particularly in the cases of very slow diffusion and reaction.

Bio

Eduardo Glandt is Dean Emeritus of the School of Engineering and Applied Science at the University of Pennsylvania. He earned his undergraduate chemical engineering degree from the University of Buenos Aires, and his Ph.D. from the University of Pennsylvania. He joined the Penn chemical engineering faculty in 1975, was promoted through the ranks, and served successively as the Patterson, Heuer and Bent Professor, as Chair of the Department from 1991 to 1994, and as Dean from 1998 to 2015, when he retired as the Nemirovsky Family Dean. He was also the Gulf Visiting Professor at Carnegie-Mellon University. Before arriving at Penn, he served as a researcher at the National Institute of Industrial Technology of Argentina.

At Penn, Glandt received both the S. Reid Warren and the Lindback Awards for Distinguished Teaching. His research in thermodynamics, theories of liquids, interfacial phenomena and heterogeneous media earned him a number of recognitions, including the LaMer Award from the Surface and Colloid Science Division of the ACS. He is a member of the National Academy of Engineering and a fellow of the AAAS and the AIChE, from which he received the Van Antwerpen Award. He is Past Chair of the AIChE Foundation, a member of the board of the Science History Institute, and of the boards of the Hoover Medal and the Draper Prize.

2019 John A. Quinn Distinguished Lecture

