

# **Randy Weinstein, PhD**

**Vice Provost for Teaching and Learning; Professor of Chemical and Biological Engineering at Villanova University**

Villanova , PA, US

Randy Weinstein, PhD, is an authority on chemical engineering and an expert on teaching and learning methods in higher ed.

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## **Biography**

Dr. Weinstein is adept at translating complex concepts in chemical engineering into layman's language in a lively and engaging manner. He can speak about the application to daily life of current research in areas such as developing better cooling systems for electronic devices; developing environmentally-friendly replacement solvents for chemical processing; exploring surfaces of materials for cleaning, adhesion, waterproofing and corrosion prevention; and devising more efficient pharmaceutical delivery devices. Dr. Weinstein is a leader in utilizing innovative teaching methods, having incorporated the flipped classroom model into his classes in the College of Engineering. In 2016, he was named the University's Associate Vice Provost for Teaching and Learning.

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## **Areas of Expertise**

Supercritical Fluids/Nanomaterials, Thermodynamics, Surface Science, Chemical Engineering Problems, Flipped Learning, Teaching and Learning in Higher Education , Teaching and Learning Methods

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## **Affiliations**

Member of the Engineering Curriculum Development and Assessment Committee, College Board's Advanced Placement Program ® (AP ® )

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## **Education**

**Massachusetts Institute of Technology**  
PhD Chemical Engineering

**University of Virginia**  
BS Chemical Engineerin

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## **Select Accomplishments**

### **Corcoran Award**

Awarded by the American Society of Engineering Education for the most outstanding article published in Chemical Engineering Education, 2016

**Lindback Award**

Awarded for Teaching Excellence at Villanova University, 2010

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