

Short Curriculum Vitae

Douglas D. Frey

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Education

Ph.D., Chemical Engineering, University of California, Berkeley, 1984.
M.S., Chemical Engineering, University of California, Berkeley, 1980.
B.S., Chemical Engineering, Stanford University, 1978.
B.A., Chemistry, Willamette University (combined degree program), 1978.

Positions Held

Professor, Department of Chemical, Biochemical, and Environmental Engineering,
University of Maryland Baltimore County (2001-present).

Program Director, Separation Processes Program, National Science Foundation
(2001-3, 2005-6).

Department Chairman, Department of Chemical and Biochemical Engineering,
University of Maryland Baltimore County (1995-2000).

Associate Professor, Department Chemical and Biochemical Engineering,
University of Maryland Baltimore County (1993-2001)

Associate Professor, Chemical Engineering, Yale University (1990-93).

Assistant Professor, Chemical Engineering, Yale University (1984-90).

Research Areas

Separation methods in biotechnology and proteomics, chromatography of biological macromolecules, transport processes in porous media, dehydration processes, adsorption of macromolecules and nanoparticles onto surfaces, nanoparticle sorting, biopharmaceutical process science.

Douglas D. Frey (cont.)

Other Experience and Professional Memberships

Editorial Board Member for *Biotechnology and Applied Biochemistry* (2004 - present)
Graduate Program Director, Department of Chemical and Biochemical Engineering,
University of Maryland Baltimore County (2007 - 2014).
Undergraduate Program Director, Department of Chemical and Biochemical
Engineering, University of Maryland Baltimore County (2000-2007).
Departmental ABET coordinator (1997-1999 and 2015-2017)
Consultant for W. R. Grace and Bristol-Myers Squibb.
Member of the American Chemical Society
Member of the American Institute of Chemical Engineers

University Courses Taught

Heat and Mass Transfer (undergraduate level)
Fluid Mechanics (undergraduate level)
Separation Processes (undergraduate and graduate levels)
Process Dynamics and Control (undergraduate and graduate levels)
Introduction to Chemical Engineering (undergraduate level)
Chemical Engineering Laboratory (undergraduate level)
Biochemical Engineering Laboratory (undergraduate level)
Thermodynamics (graduate level)
Transport Phenomena (graduate level)

Honors and Awards

Henry Ford II Scholar Award (chosen by Stanford University faculty as the
outstanding graduating senior from the School of Engineering in 1978),
Phi Beta Kappa.

Publications

More than 80 peer-reviewed articles have been published in leading journals
including *Biotechnology and Bioengineering*, *Journal of Chromatography A*,
Biotechnology Progress, *Analytical Chemistry*, *AIChE Journal*, *Chemical
Engineering Science*, and *Chemical Engineering Education*.