




## Howard Rosen

Lecturer

Graduate School of Business

 Resume available Online

### Bio

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#### BIO

Besides teaching at Stanford, Mr. Rosen serves on the board of directors of: AcetRx Pharmaceuticals, Inc. (NASDAQ: ACRX), where he served as CEO from 2015-17; Entrega, Inc.; Hammerton, Inc.; and, Kala Pharmaceuticals, Inc. (NASDAQ: KALA), where he served as Chairman from 2014-15.

#### ACADEMIC APPOINTMENTS

- Lecturer, Graduate School of Business

#### ADMINISTRATIVE APPOINTMENTS

- Lecturer in Management, Graduate School of Business, (2011- present)
- Lecturer, Department of Chemical Engineering, (2009- present)
- Lecturer, Department of Chemical Engineering, (2000-2003)

#### HONORS AND AWARDS

- Fellow, American Institute of Medical and Biological Engineers (AIMBE) (2014 - Present)
- Member, National Academy of Engineering (2005 - Present)
- Arjay Miller Scholar, Stanford Graduate School of Business (1987)
- Henry Ford II Scholar, Stanford Graduate School of Business (1987)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Joint Biomedical Engineering Department Industrial Advisory Board, University of North Carolina/North Carolina State (2015 - present)
- Biomedical Advisory Council, City College of New York (2005 - present)
- School of Engineering Advisory Council, Stanford University (2004 - 2007)
- Advisory Council on Interdisciplinary Biosciences, Stanford University (2003 - 2011)

#### PROFESSIONAL EDUCATION

- BS, Stanford University , Chemical Engineering (1980)
- MS, Massachusetts Institute of Technology , Chemical Engineering (1982)
- MBA, Stanford Graduate School of Business , Business (1987)

#### PATENTS

- Patrick Wong, Howard Rosen, Nathan Roth, Phyllis Gardner. "United States Patent 6,333,050 Oral Delivery of Discrete Units", ALZA Corporation, Dec 25, 2001

- Patrick Wong, Howard Rosen, Nathan Roth, Phyllis Gardner. "United States Patent 6,210,713 Oral Delivery of Discrete Units", ALZA Corporation, Apr 3, 2001
- Patrick Wong, Howard Rosen, Phyllis Gardner, Nathan Roth. "United States Patent 6,106,845 Oral Delivery of Discrete Units", ALZA Corporation, Aug 22, 2000
- Patrick Wong, Howard Rosen, Nathan Roth, Phyllis Gardner. "United States Patent 5,989,590 Oral Delivery of Discrete Units", ALZA Corporation, Nov 23, 1999
- Patrick Wong, Howard Rosen, Phyllis Gardner, Nathan Roth. "United States Patent 5,780,058 Oral Delivery of Discrete Units", ALZA Corporation, Jul 14, 1998
- Robert Langer, Howard Rosen, Robert Linhardt, Kam Leong. "United States Patent 4,906,474 Bioerodible Polyanhydrides for Controlled Drug Delivery", MIT, Mar 6, 1990
- Robert Langer, Howard Rosen. "United States Patent 4,891,225 Bioerodible Polyanhydrides for Controlled Drug Delivery", MIT, Jan 2, 1990

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Mr. Rosen is interested in the unique aspects of entrepreneurship as it relates to engineering and science-based industries as well as all types of startups in developing economies.

#### Research Interests

Entrepreneurship

Biotechnology

Pharmaceuticals

Clean Tech

Energy

Developing Economies

#### Teaching Statement

There are many common themes in the challenges faced by entrepreneurs; my teaching focuses on helping students understand and experience the unique aspects of entrepreneurship as it relates to engineering and science-based industries as well as all types of startups in developing economies.

## Teaching

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### COURSES

#### 2023-24

- Creating and Leading New Ventures in Engineering and Science-based Industries: CHEM 196, CHEM 296, CHEMENG 196, CHEMENG 296 (Spr)

#### 2022-23

- Creating and Leading New Ventures in Engineering and Science-based Industries: CHEM 196, CHEM 296, CHEMENG 196, CHEMENG 296 (Spr)

## Publications

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### PUBLICATIONS

- **The rise and rise of drug delivery** *NATURE REVIEWS DRUG DISCOVERY*  
Rosen, H., Aribat, T.  
2005; 4 (5): 381–85
- **BIOERODIBLE POLYANHYDRIDES FOR CONTROLLED DRUG DELIVERY** *BIOMATERIALS*  
ROSEN, H. B., CHANG, J., WNEK, G. E., LINHARDT, R. J., LANGER, R.

1983; 4 (2): 131–33

## **PRESENTATIONS**

- “Ouch! “The Role of Drug Delivery in Pain Management.” - The 10th US-Japan Symposium on Drug Delivery Systems, December 16-20, 2009 (December 16, 2009)
- “What’s New in Cystic Fibrosis Therapy.” - The 9th US-Japan Symposium on Drug Delivery Systems (12/16/2007)