

# University of Washington

## Student and Faculty Presenters



**Jesse Salk**  
MD/PhD Student  
School of Medicine  
jjsalk@uw.edu

Jesse Salk's interest in medical science began more than 20 years ago, in elementary school. A Seattle native, he pursued biology as an undergraduate at Brandeis University where he graduated Summa Cum Laude before returning to the Northwest to attend the UW for its M.D./Ph.D. program. Jesse's research explores how the body's DNA changes over time in cancer, with the goal of finding ways to maximize health in adults by early detection and intervention. He has earned many honors and fellowships, published his work, and received three patents. Outside the laboratory, Jesse spends some of his time exploring the high peaks of the Cascade and Olympic mountains.



**Hugh Hillhouse**  
Rehnberg Chair Professor  
Chemical Engineering  
h2@uw.edu

- **Ph.D. Chemical Engineering, University of Massachusetts, Amherst 2000**
- **M.S. Physics, University of Massachusetts, Amherst 1999**
- **M.S. Chemical Engineering, University of Washington 1996**
- **B.S. Chemical Engineering, Clemson University 1995**

Hugh Hillhouse joins Chemical Engineering in the fall of 2010 from the School of Chemical Engineering at Purdue University where he was a University Faculty Scholar and Associate Professor. He also holds an adjunct appointment at the National Renewable Energy Laboratory and is on the Editorial Advisory Board for Chemistry of Materials.

Hillhouse's research focuses on molecular and nanoscale science and engineering for energy conversion technologies that will allow transition from fossil fuel resources to renewable clean energy resources. Some topics of his research include the fundamentals of molecular self-assembly of nanostructured films, nanocrystal growth and surface chemistry, high-efficiency quantum dot and quantum wire photovoltaics, and development of low-cost colloidal nanocrystal-ink based solar cells. His awards and honors include the NSF Career Award, the Sharma Medal from the Indian Chemical Congress, the Shreve Award for Excellence in Undergraduate Teaching from Purdue, Early Career Research Excellence Award from Purdue.