



Department of Engineering
Seminar Program
Wednesday, November 19, 2014
Shanahan Teaching and Learning Center
Lecture Hall 1430, 4:10pm

Exciting Applications for Graphene Powder
Albert Dato, Ph.D.

Summary:

Graphene is a single layer of carbon atoms tightly packed in a two-dimensional honeycomb lattice. This seminar will first discuss the remarkable properties of graphene, as well as applications for large-area graphene films that are currently being developed by the world's largest tech and aerospace companies. The second part of this seminar will focus on the exciting applications for graphene powder, such as composites, conductive inks, and aerogels. Furthermore, methods of manufacturing graphene powder will be covered. The final part of this seminar will discuss research into the synthesis and applications of graphene powder at Harvey Mudd College.

Bio:

Albert Dato is an Assistant Professor in the Department of Engineering at Harvey Mudd College. He received B.S. degrees in Mechanical Engineering and Aeronautical Engineering from UC Davis, and an M.S. degree in Mechanical Engineering from UC Berkeley. He completed his Ph.D. in Applied Science & Technology at UC Berkeley, with a designated emphasis in Nanoscale Science and Engineering. While conducting his doctoral research, he discovered a novel method of rapidly synthesizing graphene. He also developed a graphene application that enabled the imaging of the surface molecules on gold nanoparticles for the first time. His peer-reviewed publications have received hundreds of citations and he is the founder of Graphene LLC, which was the first company to bring high-quality synthesized graphene powder to market. In addition to conducting graphene research, he has worked in the semiconductor industry as a process development engineer for Novellus Systems, Inc. (now Lam Research Corporation) and as a scientist at Air Liquide Electronics U.S.

After the seminar there will be an informal dinner and conversation with the speaker in the Mitchell Room at Hoch-Shanahan Dining Hall. If you are not on the meal plan, we will have a signup sheet. If you are interested in attending, please RSVP with Sydney Torrey at storrey@hmc.edu.