



UNIVERSITY OF CALIFORNIA, IRVINE

Department of Materials Science and Engineering

“Alloy Design at Apple”



Director Jim Yurko

Materials Engineering

Apple Inc.

Friday, May 7, 2021, 1:00-2:00 p.m.

Link: <https://appleinc.webex.com/appleinc/j.php?MTID=m65645a6b7121656cf4216da9b167a646>

Meeting ID 187 539 4159 — Passcode nEqhBvFu229

Abstract: Alloys and their engineered surfaces play a key role in Apple product enclosures. Designed by a team of materials scientists using advanced computational design and characterization tools, Apple alloys meet the varied cosmetic, performance, manufacturing, and environmental requirements. This seminar will share some examples of alloy design and implementation at Apple and successful efforts to reduce the environmental impact of these alloys.

Bio: Jim attended University of Michigan, BSE Materials Science and Engineering, 1997. Massachusetts Institute of Technology, Ph.D. Metallurgy, 2001. Currently leads the Alloy Engineering team within Apple Product Design. Prior to joining Apple, he served as Vice-President of Technology at Materion Corporation and co-founded Boston Electrometallurgical Corporation (now Boston Metal) in 2012. Jim’s career has focused on materials design, process development and sustainability in a number of alloy systems including aluminum, stainless steel, titanium, magnesium, zirconium-bulk metallic glasses, and beryllium. He is active in TMS (The Minerals, Metals, and Materials Society), serving previously as chair of the Process Technology and Modeling Committee, and was awarded the Vittorio de Nora Prize for Environmental Improvements in Metallurgical Industries in 2012 and the Brimacombe Medal in 2016. Jim also serves on the University of Michigan MSE Department External Advisory Board and the Northwestern University Center for Hierarchical Materials Design (CHiMaD) Technical Advisory Board.