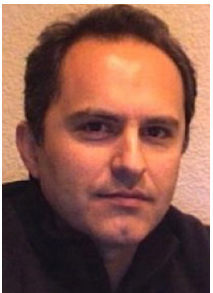# SEMI-THERM® 34

Keynote Speaker
Tuesday March 20, 2018

Thermal Challenges and Industry Trends of Consumer Electronic Devices

Dr. Andre Ali, Google

There are many thermal design challenges in consumer electronic devices including wearables, portable computing platforms and IOT communication devices. This talk covers industry trends in the consumer electronics hardware business and the role that thermal management and design plays, as well as how to cope with the trends to overcome power and thermal challenges.

Dr. Andre Ali currently heads thermal engineering for Google HW. He is a former chief thermal architect at Apple where he is credited for leading and innovating thermal technologies and design architectures for Apple's MacBook, MacBook Pro, MacBook Air, iPhone and iPad. He is a former thermal technologist at Intel's mobile product group. His interests and research focus are in electronics thermal management and control, energy efficiency, renewable energy. Dr. Ali invented and published numerous patents and papers in the field of thermal management, CFD and two-phase heat transfer. He also served as keynote speaker, panelist and chair at various conferences and forums worldwide. He has a PhD in Mechanical Engineering from University of Maryland.