

About the Instructor

Dr. Hwang brings her 25-year SMT manufacturing experience combined with her 15-year lead-free R&D and production implementation to this lecture series. She is a major contributor to SMT manufacturing since its inception. She has provided hands-on solutions to challenging production issues and served as an advisor to many OEM/EMS companies and the U.S. government.

Among her many awards and honors, Dr. Hwang has received the U.S. Congressional Certificates of recognition, elected to the National Academy of Engineering, named the R&D-Stars-to-Watch, and inducted to the WIT International Hall of Fame.

Hwang is a holder of a number of patents and the author of over 250 publications, including the sole authorship of several textbooks used worldwide. Her books, columns, and publications have been widely cited in the industry worldwide. As an invited keynote speaker worldwide, she shares her thoughts and vision with various audiences. Her topics range from commencement keynote speech at universities to the emerging technologies at the U.S. Patent and Trademark Office.

Over the years, she has taught over 15,000 professionals and researchers in professional advancement courses, focusing on disseminating new technologies and providing the professional advancement education to the workforce. She is a popular keynoter and featured speaker at the national and international events across the US and abroad including Israel, France, Germany, Belgium, Sweden, England, Brazil, Hong Kong, Singapore, Malaysia, Taiwan, Korea, Japan, China, Puerto Rico, Australia, etc.

Being the member of a number of major professional organizations, she has served various leadership capacities including the National President of Surface Mount Technology Association and the board of ASM International. She has served as a reviewer for U.S. government programs and for numerous publications and research institutions. She also serves on the newly formed National Research Council Globalization Committee.

Outside the industry, Hwang is a prolific writer and speaker on the topics of trade, business, and educational and social agenda. Additionally, Dr. Hwang serves on the board of Fortune 500 NYSE-traded corporations as well as on civic and university boards

Hwang received her Ph.D. in Materials Science & Engineering from Case Western Reserve University and two M.S. degrees in Chemistry and Liquid Crystals Science from Columbia University and Kent State's Liquid Crystal Institute.

Having held senior executive positions with Lockheed Martin, SCM Corp., Sherwin Williams Co., IEM Corp., she is currently a partner of H-Technologies Group, Inc., providing business and manufacturing solutions to the electronic industry. Dr. Hwang is also an invited distinguished adjunct professor at the Engineering School of Case Western Reserve University.

Her relevant books include:

“Lead-free Implementation: A Guide to Manufacturing” (ISBN 0-7-144374-6), McGraw-Hill, New York, 2005.

“Environment-Friendly Electronics—Lead Free Technology” (ISBN: 0 901 150 401), Electrochemical Publications, LTD, Great Britain;

"Modern Solder Technology for Competitive Electronics Manufacturing", (ISBN-0-07-031749-3), McGraw-Hill, New York;

"IC Ball Grid Array & Fine Pitch Peripheral Interconnections", (ISBN-0-90-115029-0), Electrochemical Publications, LTD, Great Britain;

"Solder Paste: Technology and Applications for Surface Mount, Hybrid Circuits, and IC Component Manufacturing", Van Nostrand Reinhold, New York