TSS Awardees Honored at ITSC 2019 in Japan

During the International Thermal Spray Conference in Japan, several Thermal Spray Society awards were presented during a ceremony on May 27 at the Pacifico Conference Center.

Hall of Fame Awardees
Three professors and leading researchers in thermal spray technology were inducted into the Thermal Spray Hall of Fame (HoF) at ITSC in Japan. The 2019 inductees are:

Dr. Chang-Jiu Li, FASM is a professor of School of Materials Science and Engineering, Xi’an Jiaotong University, Vice-director of State Key Laboratory for Mechanical Behavior of Materials.

Professor Li received his B. Sc from Mechanical Department of Xi’an Jiaotong University at 1982. He was awarded Master degree of Engineering in 1986 and Ph.D degree in 1989 by Osaka University, Japan.

From 1989 to 1992, he worked at the Advanced Materials Processing Institute, Kinki Japan, as post-doctoral research fellow. During this period, he had also co-worked with Tocalo Company, in Japan. At September 1992, he began his work at Xi’an Jiaotong University as a lecture and was promoted to the full professor at the end of 1992. From then up to date, he has been leading the thermal spray group at State Key Laboratory for Mechanical Behavior of Materials, Xi’an Jiaotong University. Since 2012 he serves as the associate editor of Journal of Thermal Spray Technology.

His research interests include the coating formation mechanisms such as splat formation and lamellar interface bonding, coating microstructure development, coating microstructure design for high performance applications to wear resistant coatings, corrosion-resistant coatings, TBCs, SOFCs.

He has published over 600 academic papers, including over 320 papers in the peer-reviewed international journals, 70 papers in Chinese journal and over 210 papers in the conference proceedings. He has given over 60 invited presentations in both international conferences and domestic meetings.

Prof. Li has received several prestigious awards including Trans-Century Young Talent funding award of Ministry of Education of China, the National Natural Science Funding Award for the distinguished Young Scientist in China, China National Nature Science Award, JTST Best paper awards. In 2017, Professor Li was selected as the fellow of ASM International.

Professor Li was recognized “for significant contributions to the global thermal spray community in the understanding of coating formation, microstructural features and property relationships that permit high performance applications of thermal spray processes.”
Dr. Javad Mostaghimi, FASM is a Professor in the Department of Mechanical & Industrial Engineering at the University of Toronto and the director of the Centre for Advanced Coating Technologies (CACT). He received his BSc degree from Sharif University, Iran, in 1974, and MSc and PhD degrees in Mechanical Engineering from the University of Minnesota, Minneapolis, in 1978 and 1982, respectively. Before joining the University of Toronto in 1990, he held positions at Pratt & Whitney Canada, Longueil, Quebec, and the Department of Chemical Engineering, University of Sherbrooke, Sherbrooke, Quebec.

His main research interests are the study of thermal spray coatings, including superhydrophobic coatings, thermal barrier coatings, corrosion and wear resistant coatings. He has performed comprehensive studies on the flow, temperature, and electromagnetic fields within arcs and RF inductively coupled plasmas. Professor Mostaghimi has done extensive simulation of the dynamics of droplet impact and solidification in thermal spray processes as well as the design of novel DC and RF plasma torches.

Professor Mostaghimi is a fellow of the following professional societies: Royal Society of Canada, ASME, ASM, CSME, EIC, CAE, AAAS, IUPAC, and Faculty of Engineering at the University of Tokyo. He is a member of the Qingdao Academician Park academy. He is a recipient of the 75th Anniversary Medal of the ASME Heat Transfer Division, the recipient of the 2013 Robert W. Angus Medal of the CSME, 2012 Heat Transfer Memorial Award of the ASME, 2011 Jules Stachiewicz Medal of the CSME, 2010 NSERC Brockhouse Canada Prize and the 2009 Engineering Medal in R & D from the Professional Engineers of Ontario.

He is a member of the editorial board of Plasma Chemistry and Plasma Processing and a member of the International Review Board of the Journal of Thermal Spray Technology.

Dr. Javad Mostaghimi was recognized “Professor Mostaghimi pioneered the modeling of impact, spreading, splashing, and solidification of molten droplets in thermal spray. This is the most basic process in the formation of coatings.”

Richard Schmid was born and raised in South Africa, Dr. Richard Schmid graduated from the University of the Witwatersrand, Johannesburg, with an engineering degree in Metallurgy, Minerals Processing. In 1986 he moved to Switzerland joining Sulzer Corporate R&D, Winterthur, working in the tribology group. During his time with Sulzer Innotec, he completed his PhD at the Federal Institute of Technology, Zurich, on the topic of New High Temperature Abradables for Gas Turbines. Dr. Schmid led the Tribology group until 2000 when he moved to the USA as head of the Coatings Solution Organization of the Sulzer Metco division situated in Westbury on Long Island, NY. In 2006 he returned to Winterthur in the CTO function of the Sulzer Metco Division. During his time with Sulzer Metco the division was transformed from a purely thermal spray offering to a complete surface solution provider. In 2014 OC Oerlikon bought Metco where he is the Metco CTO in the Oerlikon Surface Solutions Segment.

Richard Schmid was recognized “for innovative technical contributions to abradable and tribological coatings, for development and commercialization of cascade plasma technologies, plasma spray PVD and leadership in thermal spray research, education and applications.”