KEYNOTE LECTURES

1. Innovation in Nitriding

Derry Doyle
Professor, Royal Melbourne Institute of Technology, Australia

Professor Derry Doyle graduated BSc (Hons), PhD in Metallurgy from the University of Manchester. In 1970, he moved to Australia, spending twenty years working as a research scientist in the Defence Science and Technology Organization. Within this period, he had two overseas secondments. The first with Professor David Tabor in the Cavendish Laboratory at the University of Cambridge working on a range of topics related to tribology in metal cutting. The second period was spent with Mr Bill Roberts at the National Centre of Tribology, UK working on technology transfer in grinding and PVD technology within British Industry. On leaving the Defence Department in 1988, he spent the next twenty years in academia at the Swinburne University of Technology with a concurrent appointment as General Manager of Surface Technology Coatings, a wholly owned subsidiary of Sutton Tools Ltd. In the latter position, he was responsible for setting up activities in PVD coatings, high pressure vacuum heat treatment and active screen plasma nitriding. He currently holds the Sutton Professorial Chair in Materials and Surface Engineering at the RMIT University in Melbourne and is Emeritus Professor at Swinburne University of Technology. His research work in machining, grinding, tribology and surface engineering has been recognised by his peers through awards made by the Institution of Engineers, Australia and his membership of the Australian Academy of Technological Sciences and Engineering. Professor Doyle is currently President of IFHTSE.

2. Global 21, IFHTSE Project to Help Planning in the Heat Treatment and Surface Engineering Industry

Kolozsvary Zoltan
Managing Director and President of the Board, SC PLASMATERM SA, Romania

Kolozsvary was graduated from the Polytechnic University in Bucharest where he also got his PhD. Currently, he is the Managing Director and the President of the Board of SC PLASMATERM SA and Associate Professor in the Technical University of Tg Mures and Sapientia University in Tg Mures. He was the President of the IFHTSE (1998-2000) and now he is a permanent member of the Executive Committee (Treasurer) since 2001. Moreover, he is an Expert of the EU Commission for Project Assessment. Kolozsvary was awarded the Knight of the order "Steaua Romaniei" which is the highest Romanian civilian award. He was also awarded two gold and two silver medals at Vienna and Geneva International Exhibitions for inventions and innovative products. He is an honorary member of the Russian Society for Metallurgy and a member of the Materials Science Committee of the Hungarian Academy of Sciences. Kolozsvary has 14 inventions in the field of surface treatment and 180 research papers published in eight languages.

3. Modeling and Simulation of Heat Treatment and Surface Engineering for Process Development and Optimization

Richard D. Sisson
Professor, Worcester Polytechnic Institute, USA

Professor Richard Sisson was graduated from Virginia Polytechnic Institute in 1969. He got his MSc and PhD degree from Purdue University in 1971 and 1975 respectively. Currently, he is a professor at Worcester Polytechnic University, the director of the Material Science and the Manufacturing Engineering programs, and the Dean of Graduate Studies. Prof. Sisson's research interests include materials process modeling and control, hydrogen embrittlement of steels, and the environmental effects on metals and ceramics. He was awarded Chairman's Exemplary Faculty Prize from Worcester Polytechnic Institute in 2007 and the Academy of Engineering Excellence from Virginia Tech College of Engineering in 2006. He was the president of the Heat Treating Society in ASM International since 2007 and a member of the Board of Trustees of ASM International (2002-2005). He is also a member of The Materials Society (TMS), American Ceramic Society (ACS), American Society for Engineering Education (ASEE), Materials Research Society (MRS), and Machinery Failure Prevention Technology (MFPT).

4. Preparation and Characterization of Surface Treated and Coated Steels

George F. Vander Voort
Research and Technology Director, Buehler Ltd., USA

George Vander Voort, Director of Research and Technology for Buehler Ltd., is a graduate of Drexel University and Lehigh University with a background in metallurgy and materials science and 29 years experience in the specialty steel industry. A past president of the International Metallographic Society and past chairman of ASTM Committee E-4 on Metallography, George has six patents and over 250 publications including "Metallography: Principles and Practice" (McGraw-Hill, 1984; ASMI, 1999) and the ASM video course, "Principles of Metallography". He recently served as a trustee for ASM International, and is a member of several ASMI committees. He is on the editorial board of Materials Characterization, Praktische Metallographie and the International Journal of Microstructure and Materials Properties. He is a member of ASM International, IMS, ASTM, TMS, RMS, ISS, MSA, DGM, PSS, and the State Microscopy Society of Illinois. George is a fellow of ASMI and ASTM and has 29 awards for his microscopy work including the Jacquet-Lucas Grand Prize and the Dubose-Crouse Award of the International Metallographic Contest. He was recently named a Distinguished Alumni of Drexel University. He has given over 350 lectures in 37 countries; spoken 64 times at 44 ASM Chapters, and at 41 universities.