



DR. NORBERT BANNENBERG

COMPLETES THE AIST 2009 ELLIOTT LECTURE SERIES

Dr. Norbert Bannenberg, the 2009 AIST John F. Elliott Lecturer, completed his lectureship in October after speaking at Missouri University of Science & Technology (Missouri S&T), Illinois Institute of Technology and McMaster University. Bannenberg is chief operating officer and member of the board at Aktien-Gesellschaft der Dillinger Hüttenwerke, Germany. He received the John F. Elliott Lecture Award from AIST for his leadership in the development of physical and chemical fundamentals of secondary metallurgy that became industrial, state-of-the-art steelmaking practices. His lecture was entitled, "Secondary Metallurgy: Fundamentals and Their Technical Application."

Hannah Terwelp, a FeMET scholar at Missouri S&T, gave the following account of the lecture at Missouri S&T on Oct. 8, 2009:

"In an attempt to clarify and simplify the complicated and extremely busy process of secondary metallurgy, AIST John F. Elliott Lecturer Norbert Bannenberg spoke to students and professors at the Missouri University of Science & Technology. Despite his numerous graphs and diagrams with all sorts of colors and symbols, his German accent and the timing of the lecture right in the middle of my 'afternoon lull,' I was captivated. I vigorously scribbled notes that would require a bit of translation days later, tried to replicate plots and tables, and concentrated on his words because I didn't want to miss a thing. Don't tell my professors, but I learned more during that one-hour lecture about ladle metallurgy than in any other lecture I've attended."

"The lecture included a whirlwind of explanations and examples on everything about secondary metallurgy from deoxidation of the steel to temperature adjustment techniques to inclusion modification. Several simple chemical equations were flashed up that any metallurgist would recognize, accompanied by explanations of their purpose. Every step in the process was simplified and straightforward, but when put together can become highly complicated. However, this delicate mix of simplicity and complexity is what makes secondary metallurgy so interesting, and his understanding and respect for the topic are what makes Dr. Bannenberg an excellent speaker to Missouri S&T's students and fitting for the John F. Elliott Lectureship."

Dr. Bannenberg graduated from the Technical University of Clausthal-Zellerfeld in 1976 with a degree in metallurgy. Following graduation, he accepted a position as scientific assistant at the university and earned his doctorate in 1983. Since 1984, Bannenberg has been employed at AG der Dillinger Hüttenwerke. He began in the research and development department, later becoming an assistant in the steel shop. In 1987, he was instrumental in the growth of the company's research and development department for steelmaking. Bannenberg was promoted to general manager of the steel plant in 1991, then director of the production facilities (coking plant, blast furnaces, steel plant and rolling mill) in 1996. In 2002, he was appointed as a member of the board at AG der Dillinger Hüttenwerke. In 2004, he received an honorary professorship at RWTH Aachen.

The AIST John F. Elliott Lectureship was established in 1990. This honorary lectureship is designed to acquaint students and engineers with the exciting opportunities in chemical process metallurgy; inspire them to pursue careers in this field; inform the public of the contributions of chemical process metallurgy and materials chemistry to the association; and honor the late Professor John Elliott of the Massachusetts Institute of Technology for his many accomplishments and the leadership that he provided during his career. The recipient presents a lecture at three to five universities throughout the year following selection.

