

International Symposium on Bioenergy and Biorefinery (ISBB 2026)

Detailed Session Profile & Technical Program Overview

▪ Session Overview

Session Number:	Session #7
Session Title:	Biomass Metallurgy Session (BMS)
Scope & Focus:	Application of renewable carbon sources and pretreated biomass in green ironmaking, blast furnace direct injection, and low-carbon metallurgical process design.

▪ Committee & Invited Speakers

	SESSION CHAIR Prof. Jianliang ZHANG University of Science and Technology Beijing Email: jl.zhang@ustb.edu.cn Excellent national science and technology workers, enjoy the special allowance of the State Council, advanced metallurgical science and technology workers, Beijing Jianlong Heavy Industry Group Co., Ltd.specially hired professor. In recent years, it has won 13 provincial and ministerial science and technology awards, including 3 first-class awards, 4 second-class awards and 6 third-class awards. More than 500 articles were published at home and abroad, of which more than 200 were retrieved by SCI and EI, and many of them were Top journals in 1 area, more than 20 authorized patents, and 3 monographs.
	SESSION CO-CHAIR & KEYNOTE SPEAKER Prof. Runsheng XU University of Science and Technology Beijing Email: xurunsheng@ustb.edu.cn Presentation Title: Progress of Biomass waste pretreatment technology and utilization in ironmaking process Xu Runsheng, a professor at the School of Metallurgy and Ecological Engineering of Beijing University of Science and Technology, dedicated to the research and development of new low-carbon green ironmaking technologies. He has hosted a number of national and provincial-level scientific research projects in recent years, including the National Natural Science Foundation of China Youth Program, China Postdoctoral Science Foundation, etc, and has published over 100 academic papers as first/corresponding author, including more than 40 papers in Q1/TOP-tier journals and 2 highly cited papers. With over 50 authorized invention patents (including 3 international patents), his related achievements have received more than 10 provincial/ministerial-level scientific and technological awards.

	SESSION CO-CHAIR & KEYNOTE SPEAKER Prof. Rufei WEI Anhui University of Technology Email: weirufei@ahut.edu.cn Presentation Title: Problems and Right ways for Direct Injection of Biomass into Blast Furnace Dr. Rufei WEI is a professor and doctoral supervisor at Anhui University of Technology. His research focuses on low-carbon biomass metallurgy and the resource utilization of metallurgical solid wastes. He has led over 20 research projects, including those funded by the National Natural Science Foundation of China and Anhui Provincial Natural Science Foundation, as well as major industry collaborations. He has published more than 100 academic papers, with a total citation count of 2104 and an H-index of 24, and has been listed in Stanford University's "World's Top 2% Scientists" ranking. He holds 15 authorized invention patents, among which one has reached an international leading level and two have reached an international advanced level. He has been honored with the China Circular Economy Science and Technology Award, the China Metallurgical Science and Technology Award, the Baowu Technology Innovation Major Achievement Award, and the Anhui Provincial Teaching Achievement Award.
	KEYNOTE SPEAKER Prof. Johannes Schenk University of Leoben, Austria Email: Johannes.Schenk@unileoben.ac.at Presentation Title: CO₂-free Crude Steel Production with Hydrogen Prof. Dr. Johannes Schenk is a Full Professor and the Chair of Ferrous Metallurgy at the Montanuniversität Leoben in Austria. His research focuses on sustainable ironmaking and steel production, with an emphasis on hydrogen-based plasma smelting reduction and the use of renewable carbon sources to achieve carbon-neutral steel manufacturing. He has received numerous accolades for his work, including the prestigious AIST-TMS John F. Elliott Lectureship Award. He is an active editorial board member for several metallurgical journals and has authored over 180 publications and more than 30 patent families.