

Welcome to ESTAD 2021 Plenary Session!

Nowadays we are aware of the potential hazards of greenhouse gas emissions. The steel industry is responsible for a significant part of such emissions. At the same time, steel is vital for building a sustainable society. Although several important steps have been taken, a lot more has to be done to decrease the emissions to the levels set by EU policies for 2050. New technologies are required for virtually all processes related to steel production. Open exchange of ideas and knowledge is a very good starting point for developing the new, smart and sustainable processes the steel industry needs. ESTAD 2021 will be a part of this journey into the future. The Swedish steel industry and the Swedish steel producers' association, Jernkontoret, have agreed on a long-term vision, "Steel shapes a better future". Every day the steel industry's products contribute to worldwide society. Please join us in Stockholm to discuss how the steel industry can become an even more active participant in the ongoing shift to a sustainable society. We are sure that you share our conviction that scientific discovery and innovation are the basic tools to fulfill those intentions. Therefore, we are pleased to announce our theme for the plenary session:

An afternoon in the spirit of our vision 2050

"Steel Shapes our future"

Moderator: Sylvia Schwaag Serger



We are pleased to announce our moderator for the plenary session of ESTAD 2021 in Stockholm. Sylvia Schwaag Serger has been the international director of Vinnova, which has the task of increasing competition for researchers and companies in Sweden. She has spent two years in Beijing as an analyst for the Swedish government and conducts research on China's economy and technology policy at Lund University. In addition, she is a professor of research policy at Lund University and has been a visiting professor at the Chinese Academy of Sciences Institute for Policy Management (CASIPM) in Beijing. She is a member of the Swedish Prime Minister's Innovation Council. The European Commission, the OECD and the World Bank have hired her as an expert.

Program

13:00-13:10	Welcome to ESTAD2021	Sylvia Schwaag Serger and Gert Nilson
13:10-13:30	Green Deal EU	TBD
13:30-14:00	Current and future environmental regulations in China and the consequence of these regulations to the steel industry	Li Xinchuang, MPI, China
14:00-14:30	Sustainable finance	TBD
14:30-15:00	Break	
15:00-15:30	Impact on resources	TBD
15:30-16:00	Toward a Fossil Free Future with HYBRIT: Development of Iron and Steelmaking Technology in Sweden and Finland	Martin Pei, SSAB, Sweden

About our Speakers

Li Xinchuang



Mr. Li Xinchuang, Professorate Senior Engineer, enjoying special allowance approved by the State Council, Foreign Member of Russian Academy of Natural Sciences. Now he works as Chairman and Chief Engineer of China Metallurgical Industry Planning and Research Institute (MPI), Vice Chairman of China Iron & Steel Association (CISA), Vice Director General of China Energy Conservation Association (CECA), Member of Expert Committee of 14th Five-year National Development Plan and Chief Expert of Research Office of National Air Pollution Prevention and Control Center.

He has participated in and undertaken development planning of China's iron & steel industry from the "8th Five Year Plan" to the "14th Five Year Plan", as well as study and formulation of related industrial policies. He has participated in and undertaken development planning for several hundred domestic and overseas iron & steel enterprises, as well as early stage debate for key projects. He has been invited to participate in the 25th China-US Joint Commission on Commerce and Industry and G20 Steel Forum, and in numerous international planning consultation and cooperation negotiation. He has great influence in the industry due to rich experience on large project organization and in-depth research on industrial development and market dynamics.

Martin Pei

Martin Pei is the Executive Vice President and CTO at SSAB AB. He joined SSAB in 2001 and has held various management positions until his appointment in 2007 as his current position. Martin Pei is the initiator of the joint Swedish industrial project HYBRIT (Hydrogen Breakthrough Ironmaking Technology) between SSAB, LKAB and Vattenfall, supported by the Swedish Energy Agency. The project partners aim to solve the root cause of carbon dioxide emissions in the steel industry by adopting a new hydrogen based direct reduction technology, creating a fossil free value chain from iron ore mines to finished steel products. In his Keynote, Martin Pei will share the status of the development work at HYBRIT and SSAB in developing a fossil-free, sustainable technology for one of the most important industries in Sweden and Finland.



Gert Nilson



Gert Nilson is the technical director at Jernkontoret and the host of ESTAD 2021. He has a broad industry background and experience from the USA and Germany. Creativity and innovation are in focus when Gert Nilson talks about the future of industry.