

Press Release

The Steel Industry in the Era of Artificial Intelligence

Milan, 26 May 2026

This is the **TEAMS** link to join the event:

<https://teams.microsoft.com/meet/327548705544591?p=BXnkBVQ0SeQsIGvOC4>

A team composed of companies and universities, within the framework of **Metal Hab**, has promoted the conference “**The Steel Industry in the Era of Artificial Intelligence: Innovation and Intellectual Projects**”, scheduled to take place in **Milan on 29 May 2026**.

The initiative, developed in collaboration with international industrial and academic partners and promoted by **Metinvest Polytechnic** together with **Mill's**, is of strategic relevance to the steel market, as it takes place at a crucial moment for the European steel industry. The sector is currently undergoing profound transformations driven by **artificial intelligence, process electrification, decarbonisation, and the emergence of new production models**.

The main implication is that **AI is becoming a structural competitive factor**. The competitiveness of steel companies no longer depends solely on production capacity, industrial scale, or the cost of raw materials, but increasingly on elements such as **data quality, AI integration into industrial processes, intelligent automation, predictive maintenance, and energy optimisation**.

Within this broader framework, the **European conference organised by Metinvest Polytechnic**, to be held online on **29 May 2026**, also assumes particular significance. The programme explores the evolution of **advanced design through AI** in the fields of steel, structural fabrication, and shipbuilding. The presentations address topics such as **structural design, intelligent steel manufacturing, digital applications in the naval sector, and immersive training through AI-enabled VR simulators**. Overall, the seminar reinforces the central message of the Milan conference: **artificial intelligence is no longer a future prospect, but an immediate driver of industrial transformation**, capable of reshaping production models, skills, investment strategies, and the competitive structure of the European steel industry as a whole.

Metinvest Polytechnic is devoted to advanced design with artificial intelligence, with particular attention to the steel sector, structural steelwork, and selected applications in the naval field. The event, scheduled online for **29 May 2026**, arises from collaboration with **Mill's, Cimolai Group, Danieli Automation, Cimolai Technology, Cantieri T. Mariotti, and Trieste Nautical Academy**—organisations that collectively represent a bridge between industrial innovation, technical education, and applied research.

The institutional opening brings together prominent figures from both academia and industry: **Oleksandr Povazhny**, Rector of Metinvest Polytechnic; **R.D.Patidar** of **OP Jindal University** (India); **Stefano Beduschi** of **Trieste Nautical Academy**; **Renzo Valentini** of the **University of Pisa**; and **Alvin Abainza** at **AMA Education System** (Manila).

The programme addresses advanced experiences in steel design, the evolution of artificial intelligence in steel manufacturing processes, and emerging applications in the naval and nautical sectors. One session is devoted to **AI-enhanced VR simulators**, featuring a presentation by **Daniil Tymoshenko** of **Zaporizhstal (Metinvest)**, who illustrates the integration of immersive training and intelligent technologies.

This is followed by an open discussion involving representatives of the metallurgical sector, academics, and students from international institutions, including **AMA Education System** (Manila), **OP Jindal Global University** (India), **Assofond**, **Trieste Nautical Academy**, and several Italian technical institutes, among them **Benedetto Castelli** in Brescia, **San Giorgio** in Genoa, and **Enrico Mattei** in Latisana.

Steel Industry in the era of AI. Innovation and intellectual projects

May 29th, 2026 Milan Italy

This is the Metinvest Polytechnic European seminar dedicated to advanced design with artificial intelligence, with primary focus on steel, carpentry, and some context in the naval and maritime sector. The meeting is online and the date is set for May 29, 2026 (9:30 a.m.–1 p.m.). The meeting is being held thanks to the collaboration with Mill's, Cimolai Group, Danieli Automation, Cimolai Technology, Cantieri T.Mariotti, Trieste Nautical Academy.

9:00 a.m. **Institutional greetings**

Alberto Cavicchiolo, Mill's, Oleksandr Povazhny, Rector of Metinvest Polytechnic; R. D. Patidar Vice Chancellor. O.P. Jindal University (OPJU) India, Stefano Beduschi, President Trieste Nautical Academy, Renzo Valentini, University of Pisa, Alvin Abainza Ama Education System (Manila).

9:30 a.m. **Crossing a Steel Design experience**

Paolo Roggero, Cimolai, Senior Project Manager

10:00 a.m. **Artificial Intelligence journey in steel manufacturing.**

Volodymyr Pashinsky, Prorector Metinvest Polytechnic;
Marco Ometto, EVP Danieli Automation.
Simone Cecchinato, R&D Engineer, Danieli Automation Research Center

10:45 a.m. **Ama Education System and Artificial Intelligence in Asia**

Gerard Nathaniel Cac Ngo, Director AI and Cybersecurity Education Ama Education System

11:00 a.m. **Naval and Nautic experience with AI**

Giangiacomo Zino, T. Mariotti Shipyard, Genoa
Lorenzo Cimolai, Cimolai Technology, Business development
Dylan Bortoluzzi, Cimolai
Paolo Zanotta Coordinator Metal Hab, Mill's.

11.50 **VR simulator with artificial intelligence**

Daniil Tymoshenko, Zaporizhstal, Metinvest, Presentation.

12:10 p.m. **Discussion** (question time) with representative from the Metallurgical sector and Education. Discussion with invited speakers and students: Ama Education System (Manila, Philippines), OP Jindal Global University (India), Assofond, Trieste Nautical Academy, Tech. Institute Benedetto Castelli, Brescia, Tech. Institute San Giorgio Genoa. Tech. Institute Enrico Mattei, Latisana.

12.30 p.m.. **Conclusion** Volodymyr Pashinsky, Prorector Metinvest Polytechnic University, Alberto Cavicchiolo, Mill's

Communications Notes

Metinvest Polytechnic is the first private university dedicated to the technology, mining, and metallurgical sectors in Ukraine. Founded in 2021 by the Metinvest Industrial Group, the institution was created to revitalize higher technical education in the country and launch educational projects within a European context.

Cimolai Spa R&D The research and development department uses an advanced software environment, operating within the BIM framework: the structures are designed and built according to rigorous efficiency, productivity, and safety criteria. Numerous algorithms have been specifically developed and used to meet the specific steel stresses required by the various projects.

Among his most notable structural projects is the roofing of the Chernobyl power plant, but there are also bridges and infrastructure sections, railway viaducts, the infrastructure designed by Santiago Calatrava in the Reggio Emilia area—including the highway bridge and the high-speed train station—as well as the Panama Canal floodgates. Numerous iconic works were built taking specific design criteria into account: for example, the Ground Zero complex in New York and the imposing Telescopic Observatory in Chile.

Danieli Automation is the Company, within the Danieli Group, responsible for the transfer of technological know-how from other Danieli technological divisions to end users, supplying the interface between plant process and operator. The mission is to provide process automation and control systems for metals industry covering the wide spectrum of Danieli Technology, ranging from iron ore to long and flat products. Software algorithm models, computerized quality and production control systems are developed in house and are the means to transfer Danieli process know-how to final users, thanks to the synergistic relationship with Danieli and the technological background shared with the parent Company.

Cimolai Technology is an Italian company, a leading international designer and manufacturer of specialized machinery and equipment for lifting and handling heavy loads. It operates in the maritime (shipyards) and industrial, civil, and aerospace sectors. It manufactures equipment such as travel lifts, gantry cranes, motorized trolleys, and shipyard equipment.

T. Mariotti of Genoa, with its shipyards, represents Italian excellence in the shipbuilding sector, specializing in the construction of ultra-luxury cruise ships and special vessels.

Zaporizhstal is one of the largest metallurgical enterprises in Ukraine, employing around 10,000 people and producing millions of tons of steel and rolled products annually. As a key part of Ukraine's industrial sector and the Metinvest Group ecosystem, the plant continues operating under wartime conditions, supporting the national economy and maintaining critical industrial production.

information can be requested from

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