

Program as of August 23, 2021

OCTOBER 11

PRODUCTION SYSTEMS AND OPERATIONAL EXCELLENCE TRACK

1. From pilot projects to smart production: the Nornickel experience.
Nikolay Utkin, Senior Vice President, Norilsk Nickel.
Alexander Mamontov, Director of Business System Development, Nornickel, Russia.
2. The ERG code of ethics. Sustainable development and social responsibility of businesses in the era of the fourth industrial revolution.
Speakers are to be announced, ERG, Kazakhstan
3. Human Capital. Siemens strategy and tactics in human capital development for digital manufacturing.
Zhanna Shalygina, Director of Digital Manufacturing, Siemens, Russia, Germany.
4. BIM engineering in industrial and infrastructure facilities management: the practice of transformation of the existing enterprises.
Parveen Sharma, Executive Director, The BIM Engineers, The Netherlands.
5. A scientific and practical experiment as a driver of productivity improvement.
Pavel Pashkov, General Director, TechnoNICOL Far East, Russia.
6. Topic to be announced
Mitsubishi Electric, Japan
7. Digital twins and virtual commissioning of the equipment.
Julia Varchuk, Ford Motor Company, South Africa.
8. Implementation of innovative projects: the Uralsib Bank experience.
Dmitry Grishin, Innovation Director, Uralsib, Russia.
9. Use of artificial intelligence in blast furnace heat balance management.
Kirill Makarov, Director of Continuous Improvement, Metinvest Holding
10. **«Digital transformation: challenges and solutions» vendors battle.**
Participants: Metinvest, EuroChem, Nornickel, ERG.

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PRODUCTION SYSTEMS AND OPERATIONAL EXCELLENCE TRACK

1. **«Transformation» improvement projects competition**
Kaizen Project nomination
Presentation of projects live in front of an international jury.
Nominees (list and order to be specified):
 - 1.1. Reduction of downtime in the ball rolling mill №2
 - 1.2. Boosting the productivity of the concentrate shipment shop
 - 1.3. Loss management
 - 1.4. Ensuring continuous operation of surface stowing complexes
 - 1.5. The perfect pit
 - 1.6. Improving the quality of matte separation
 - 1.7. Improving process efficiencies in preparing and feeding batch materials for smelting and converting
 - 1.8. Increasing the enrichment efficiency of the nickel powder chlorine dissolution residue in the tube furnace
2. **«Transformation» improvement projects competition**
SciTech 4.0 nomination
Presentation of projects live in front of an international jury
Nominees (list and order to be specified):
 - 2.1. Reduction of energy costs at an automotive plant
 - 2.2. Landfill site remediation project
 - 2.3. Implementation of investment projects using BIM technologies and use of BIM model in operation
 - 2.4. Determination of quantitative and qualitative indicators for the transition to a remote working model for employees of a financial institution
 - 2.5. Introduction of an autonomous and remote control system for self-propelled diesel equipment
3. **How to improve the efficiency of transformation projects.**
Q&A session with nominees, experts, and participants of IPWeek 2021.

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SCITECH 4.0 SCIENCE AND TECHNOLOGY FOR INDUSTRY 4.0 TRACK

- 1. Round table "Cyberphysical Production Systems. Challenges and solutions".**
Partner event by the Academy of Baden-Wuerttemberg, Germany.
Speakers and participants to be announced, Academy of Baden-Wuerttemberg, Germany.
- 2. Educational program**
 - 2.1. Digital technology. The basics.**
Speaker is to be confirmed.
 - 2.2. The importance of the Shingo model guiding principles for the correct use of technology.**
Ken Snyder, Executive Director, Shingo Institute, Utah State University, USA
 - 2.3. Industrial IoT in petrochemistry.**
Vasily Ezhov, IIoT product owner, Sibur Digital, Russia
 - 2.4. Artificial intelligence and big data.**
Roman Sorokan, Deputy Director, Google Cloud & Workspace, UK
 - 2.5. How to overcome fear and resistance to change during the implementation of digital projects in companies?**
Petr Manin, Technical Director, Digital Simulation Centre, Rusatom Energo International, Russia

HUMAN CAPITAL IN INDUSTRY 4.0 TRACK

- 1. Society 5.0. Sociocracy in action.**
Speaker is to be confirmed.
- 2. New ergonomics. The mental and emotional health of employees in the modern world.**
Alberto Trimboli, President, WFMH, Spain.
- 3. Round table "EdTech formats for developing competencies of managers and professionals in Industry 4.0".**
Speakers and participants are to be confirmed.
- 3. Personal brand. Professional media and the media personality of a modern professional.**
Tatiana Kiseleva, Editor-in-Chief, Standards and Quality, Russia.
- 4. For the following topics, the speakers are to be announced:**
 - Social science and technology
 - Management: traditional and innovative theories and practices

- New approaches and practices in the development of the personnel intellectual competencies, such as creativity, analytical skills, memory, attention, emotional intelligence, etc.

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HUMAN CAPITAL IN INDUSTRY 4.0 TRACK PRODUCTION SYSTEMS AND OPERATIONAL EXCELLENCE TRACK

- 1. «Operational Excellence» championship**
Participants: ODW, TechnoNicol, Nornickel, etc.

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HUMAN CAPITAL IN INDUSTRY 4.0 TRACK

- 1. The final of the "Transformation" improvement projects competition
Human Capital nomination**
Presentation of projects live in front of an international jury
Nominees (list and order to be specified):
 - 1.1. Creating a uniformly developed LEAN culture in a multicultural environment**
 - 1.2. FabLab. Development of scientific and technical creativity in a mono-city**
 - 1.3. Project potential school 4.0**
 - 1.4. Those who care. Social volunteering project**
 - 1.5. Error management culture**
- 2. International Conference of Production Team Leaders**

Speakers and participants to be announced