

NOVEMBER 15th, 2017 SCIENTIFIC AND PRACTICAL CONFERENCE

Venue: **Moscow Polytechnic University, Bolshaya Semyonovskaya st., 38, Moscow**

09:00 - 10:00 Registration

10:00 - 13:00 Scientific and Practical Conference, part1

TOPICS

- Fundamental research in the field of investigating properties of basalt rocks
- Practice-oriented research and technological application
- New technologies development
- Issues of mineral and technological mapping of basalt deposits
- Establishing enterprises on the basis of scientific institutions: best practice

13:00 - 14:30 Break (lunch)

14:30 - 18:00 Scientific and Practical Conference, part2

NOVEMBER 16th, 2017 BUSINESS PROGRAM, EXHIBITION

Venue: **Technopolis Moscow, Congress Center, Volgogradskiy prospect 42, building 5, Moscow**

09:00 - 10:00 Registration, opening of the industry-specific exhibition

10:00 - 12:40 Plenary session. On a wave of the 4th industrial revolution: the industry on the edge of breakthrough

TOPICS

- New materials as an industrial revolution platform
- Industry digitization
- Basalt solutions in the context of new markets
- A new structure of production and goods sales
- Global technological exchange and protection of intellectual property
- Corporations against «garage» start-ups

12:50 - 14:30 Sessions: Economics, Industry-Specific Application, Environment.

<p>Economics - Sales Markets. Markets in Russia and worldwide</p>	<p>Industry-Specific Application - Basalt materials in the infrastructure, and industrial construction.</p>	<p>Environment - Basalt City: basalt-based solutions for urban habitat</p>
<p>Current Issues</p> <ul style="list-style-type: none"> • Forms of domestic demand stimulation • New materials in the context of global competition • Stages of technological expansion • Access to promising markets 	<p>Current Issues</p> <ul style="list-style-type: none"> • Road construction • Industrial production facilities • Railway infrastructure • Aviation infrastructure • Port infrastructure and bank protection 	<p>Current Issues</p> <ul style="list-style-type: none"> • Housing construction • Housing and utilities • Landscape design • Architectural solutions • Small architectural forms

14:30 - 15:30 Break (lunch).

15:30 - 17:30 Sessions: Economics, Industry-Specific Application, Regulatory Treatment.

<p>Economics - Industry investment potential. Lessons learned from previous projects</p>	<p>Industry-Specific Application</p>	<p>Regulatory Treatment - Issues of industry-specific regulations: seeking solutions (standardization, certification)</p>
<p>Current Issues</p> <ul style="list-style-type: none"> • Implementation of basalt-oriented projects: evaluation of the economic effect • Risks and trends in the new materials market • Forms of investment raising and investment methodology • Implemented and being implemented projects 	<p>Current Issues</p> <ul style="list-style-type: none"> • Infrastructure capacity in the gas and petrochemical industry • Basalt based solutions for technological processes 	<p>Current Issues</p> <ul style="list-style-type: none"> • State regulatory mechanisms • Issues of basalt materials based design • Differentiation of standards in force: glass-carbon-basalt • Russian and international certification

NOVEMBER 17th, 2017 BUSINESS PROGRAM, EXHIBITION

Venue: Technopolis Moscow, Congress Center, Volgogradskiy prospect 42, building 5, Moscow

10:00 - 12:40 Late registration, Industry-specific exhibition.

10:00 - 12:40 Sessions: Technologies, Industry-specific application, Environment.

Technologies - Technological innovations in the industry and new approaches to the manufacturing process management. 3D printing	Industry-Specific Application - Basalts in mechanical engineering	Environment - Consumer goods made of basalt materials and basalt composites
<p>Current Issues</p> <ul style="list-style-type: none"> • Cross-industry innovations in basalt technologies development • Intellectual property protection in the context of required technologies expansion • Technological exchange • Economic effect of implementing new solutions in the production processes • Demand for technologies • Basalt materials in 3D printing 	<p>Current Issues</p> <ul style="list-style-type: none"> • Existing and viable basalt materials-based technical solutions in the automotive • Basalt composites in the railroad rolling stock manufacturing and carriage building • Application in the heavy engineering • Basalt composites in the precision engineering (instrumentation, radio electronic equipment, electrotechnical industry) • Robotics, tractor-building, machine-tool engineering 	<p>Current Issues</p> <ul style="list-style-type: none"> • Unique and unusual forms of basalt materials application • Demand for basalt materials and household products • Best practice in Russia and worldwide
<p>12:50 Guided tour around Technopolis Moscow with a visit to the industry-specific exhibition.</p>		
<p>14:30 - 15:30 Break (lunch).</p>		
<p>15:30 - 17:30 Sessions: Technologies, Industry-specific application, Environment.</p>		

Technologies - Role of binding materials in the molding of basalt composite products	Industry-Specific Application – Scope of marine application of basalt materials	Environment – Ecological aspects: from clean production to safe materials and products
<p>Current Issues</p> <ul style="list-style-type: none"> • New trends in binding materials for composites • Binding materials to be used with basalt fiber; specifics in application technology • Issues of retention and improving the properties of basalts combined with binders 	<p>Current Issues</p> <ul style="list-style-type: none"> • Basalt fiber in the shipbuilding • Bank protection, piling with basalt materials • Basalt materials based underwater infrastructure 	<p>Current Issues</p> <ul style="list-style-type: none"> • Features of basalt fiber manufacturing process management; hazard classes • Features of basalt composites manufacturing process management • Waste processing issues • Environmentally friendly finished products, specification grades