

Official edition
of the Union of Composites Manufacturers
With the assistance of the magazine
«Composite World»

Industry Newsletter

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Composite Materials



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**WITH THE ASSISTANCE
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**UNION OF COMPOSITES
MANUFACTURERS**

1. THE UNION ACTIVITY

The exhibition of the domestic manufacturers of the innovative products in the Federal Council

On 29th of May, 2013 the Minister of Industry and Trade of the Russian Federation, Denis Manturov addressed a meeting of the Federal Council of the Federal Assembly of the Russian Federation. The head of the Ministry of Industry and Trade of Russia told about the measures for development of the domestic industry in the RF and increasing its competitiveness.



Before the meeting Denis Manturov briefed the Chairman of the Federal Council of the Federal Assembly of the Russian Federation Valentina Matvienko on the exposition of the exhibition "Industry of Russia" on which the unique developments of the Russian industry" have been presented.



In the frames of the exhibition the Union of Composite Manufacturers presented the development of the companies from the composite industry (OJSC «Science and production corporation «Uralvagonzavod», LLC «MC RUSCOMPOZIT», LLC «BioPlast», OJSC «Tverstekloplastic») for the railway transport and transport infrastructure: bridge superstructures, pipe culverts, railway platforms, local waste disposal plants, hopper cars from poly-

mer composites as well as got acquainted the members of the Federal Council with the industry edition – the "Composite World" magazine.

The executive director Vetohin Sergey presented the present innovative solutions to the chairman of the Federal Council and the Ministry of the Industry and Trade of the Russian Federation.

Kremlyevskije composites



In April 2013 the member of the Union of Composite Manufacturers – the production and engineering company LLC «BioPlast» successfully finished the assembly of fire retardant tank of HELYX trade mark on the territory of the socio-political and historic-artistic complex of Moscow Kremlin as well as on the territory of the Government House in Moscow City.

The fire retardant tanks of HELYX trade mark produced by LLC «BioPlast» are made of glass reinforced composite (on polyester and epoxy vinyl ester resins base) by continuous winding and are designed to store the industrial use liquids. HELYX FRP tanks have high strength properties, are not subject to corrosion, durable and ecologically safe. Due to these factors they were chosen to equip the objects such important for the country.



The fire retardant tanks HELYX have already proved themselves as the reliable equipment on the territory of the other objects of Moscow and Saratov oblasts.

For reference: LLC «BioPlast» TM HELYX is the leading manufacturer of the pipes and tanks from composite materials for utility networks. The company conducts its activity from 2007 and at present moment the production capacities of the enterprise constitute 7 500 m² and are located in Klin city of Moscow oblast. The products volume constitutes more than 2000 parts per year.

LLC «BioPlast» offers the robust, durable, corrosion resistant and earthquake-proof pipes and tanks of HELYX trade mark from composite materials as the equipment for the utility networks and for the transportation of liquids and gases, water treatment and water disposal, storage and treatment of the aggressive medium (including waste waters) on the production complexes and inhabited localities. Together with the production of the parts from composite materials the company provides the design and project and construction and assembly works including with the application of the own specialized techniques.

Detailed information about the company and products can be found by phone/fax +7 495 228 03 85 or www.helyx.ru

2. INDUSTRY NEWS

The specialists of VIAM and MSTU named after Bauman conducted the trials in the interests of the Russian power engineers

The tests conducted by the specialists of VIAM and MSTU named after Bauman in the interests of the Russian power engineers were finished in the filial of the All-Russian Research Institute of the Aviation Materials – Gelendzhik Center of the Climatic Tests (GCCT) named after G. Akimov.



There were tested the large-sized structures (structural beam and section of the typical vertical column) from nano-modified composite materials on the base of the domestic polymer resin and continuous glass reinforcement filler (the development of VIAM). The tests were conducted on the unique equipment located on the reinforced floor of GCCT.

This equipment was specially developed and produced for GCCT by Switzerland Company «Walter + BAI AG TestingMachines" by the technical task of VIAM. It opens new possibilities and significantly widens the traditional directions of mechanical and climatic tests.



As Vladimir Erasov, the chief of VIAM laboratory, the Doctor of Science informed "the mechanical tests of large-size structures passed successfully".

"In accordance with the tests program the ultimate calculated values of the loads were reached on the test samples of the large-size structures of the structural beam and typical vertical column without the appearance of the visual destructions and surface delamination", he noted.

The performing of the long-term climatic tests of the above mentioned samples will become the next stage.

gcki.viam.ru

"Gazprom" can change its pipelines to the composite pipes

"Gazprom" and Rosnano consider the possibility of transfer of pipelines from metal pipes to the composite one. At present moment the parties are evaluating whether such project real or not. If it is realized Gazprom can get rid of the corrosion problems of the pipes and achieve the cost reduction the head of the Company believes.

The President of the Board of OJSC "Rosnano", Anatoly Chubajs announced about the possible project of Gazprom and Rosnano on the innovative forum in Tomsk.



By A. Chubajs opinion if the task is recognized as the real that "this industry gets the driver if not for hundreds then for tens of billions (rubles) per year".

From his side the President of the Board of Gazprom, Aleksey Miller declared that the transfer to the pipes from composite materials has the "revolutionary meaning". "Composite materials can solve the corrosion problem forever", - he highlighted.



The top-manager expressed the assurance that the possible project will allow the gas concern achieving the expenses optimization.

In the whole Gazprom has the plan to increase its investments to the innovative development. According to the words of the head of the Company the Concern has increased this index for five times during last five years. A. Miller informed that in 2012 the Gazprom investments to the innovations exceeded \$250 mln, and in the frames of the program up to 2020 it is planned to increase this index up to \$1 billion".

It was also informed during the forum in Tomsk that Rosnano and Gazprom create the venture capital fund for the enterprises developing new technologies for gas industry. As A.

Chubajs told the companies made the mutual decision of creation of venture capital fund the purpose of which will be the start-ups and small innovation companies that can develop the innovative technologies applicable in the gas sphere exactly.

www.oilcapital.ru

3. ADVERTISEMENT

MAKS – 2013



In the context of the XI International aviation and aerospace saloon MAKS – 2013 the Union of Composite Manufacturers together with the Union of aviation manufacturers will conduct **Science and practical conference «Composite materials in civil and military aircraft production»** on August 30, 2013.



One of the main obstacles impeding the wide use of composite materials in Russia is the lack of a proper dialogue between the designers, researchers, manufacturers and users of modern materials. In this conference, Russian and international leading manufacturers of composite materials for the aviation industry will present their latest achievements.

Location: Moscow oblast, Zhukovskij city,

The basic topics of the conference:

- Latest scientific achievements and their implementation in the aviation industry;

- New methods of design and manufacturing of components from composite materials for the aviation industry;
- State-of-the-art materials and equipment for the production of parts and components from composite materials for the aviation industry;
- Design and forecasting of the features of composite materials for the aviation industry;
- Composite materials in the design, assemblies and details of aircraft: application and implementation experience

Conference visitors include representatives of Russia's and CIS' largest airplane and helicopter manufactures S.V.Ilyushin Aviation Complex, Sukhoi Civil Airplanes, Irkut Corporation, G.M. Beriyev Taganrog Aviation Research Complex, Helicopters of Russia (Vertolyoty Rossii) Rostov Production Complex; manufacturers of aircraft parts and components such as Aviastar-SP, Aerocomposite as well as manufacturers and sellers of composite materials, raw materials and semi-finished products, software developers, researchers, and journalists from dedicated media. More than 200 industry experts visited the conference organized during the MAKS-2011 Salon.

We are pleased to invite you to participate with a presentation of your company's / institute's latest achievements in the area of manufacturing and application of composite materials for the aviation industry.

The conference is an excellent opportunity to tell about your achievements and developments to the entire Russian aviation industry, find new partners and establish useful contacts.

Presentations telling about scientific research or practical developments are free of charge. Presentations containing advertising or marketing information about the company's products and services are made on a paid basis EUR 500 per presentation.

The length of a presentation is 15 minutes; presentations in English will be interpreted into Russian.

If you would like to make a presentation, you are kindly asked to send an application together with the presentation / summary of your

speech to the Organizing Committee before 10 July 2013 to the address: manager@uncm.ru.

The Committee will include speeches in the programme based on the subject and summary / full presentation. Summaries and presentations accepted by the Organizing Committee will be published in the conference digest, which will be distributed free of charge among conference visitors and industry experts.

Participation as the listener is **FREE OF CHARGE** (*the listeners will be the entrance ticket for MAKS personally*).

The organization committee of the event:

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