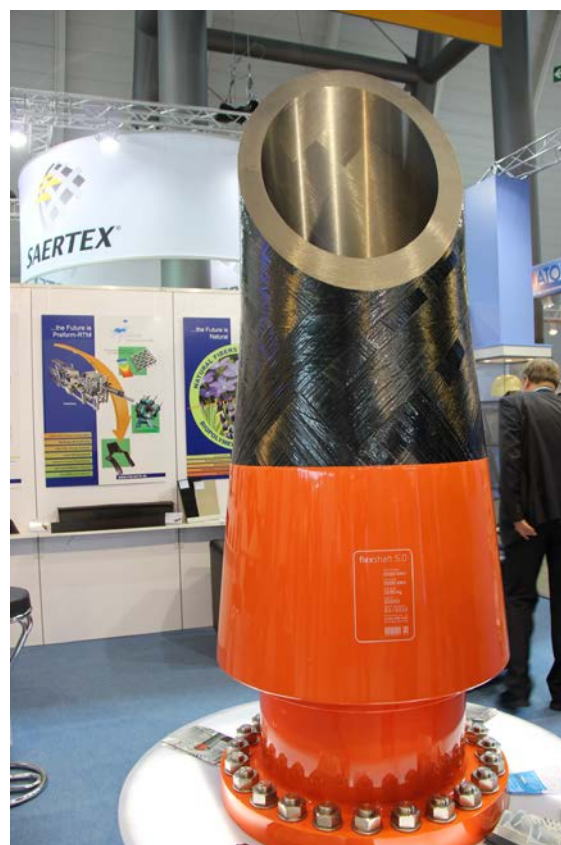


Official edition
Of the Union of Composites Manufacturers
With the assistance of the magazine
«Composite World»

Industry Newsletter

You are working. We create conditions

Composite Materials



In the issue:

- 1. The Union activity: the «Composites Europe 2013» exhibition*
- 2. Industry news: RUGASCO performed the delivery of the composite gas cylinder system CNG to MAZ, «Uralvagonzavod» presented the completely composite wagon*
- 3. Advertisement: the 7th annual international science and practical conference "Composite materials: production, application and market tendencies»*

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«Composite World»

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UNION OF COMPOSITES
MANUFACTURERS

1. THE UNION ACTIVITY COMPOSITES EUROPE 2013



The 8th International Specialized Exhibition “Composites Europe” was conducted from 17 to 19 of September, 2013 in Stuttgart (Germany).

More than 406 exponents from 28 countries of the world took part in the exhibition and more than 9100 people visited it this year. This is almost 30% more than last year.



The Union of Composite Manufacturers is the long standing partner of the exhibition and annually takes part in it.



This year specially for the exhibition the Union of Composite Manufacturers together with the Publishing House “World of Composite” pre-

pared and published a special appendix in the English language «Composite World TOP NEWS» in which there were published the information of the most actual events in the composite industry of Russia and CIS as well as the brief explanation of all companies – members of the Union.



The interest to the domestic composite market and manufacturers grows from year to year, that's why the interest to the booth of the Union of Composite Manufacturers and to the special edition «Composite World TOP NEWS» was not decreased during all three days.



During the working days the Union representatives conducted negotiations of cooperation with the leading players of the composite industry of Europe and the world as well as with the European science and research institutes and organizations.

We thank all companies visited our booth and hope that the information provided by us will be helpful.

2. INDUSTRY NEWS

Composites in Kremlin

The composite materials on carbon fiber base produced by the enterprises of the Holding Company «Composite» were used in the repair of the first block of Moscow Kremlin. The composites were used for reinforcement of the brick arch of the President residence.



The brick arches were reinforced with the help of composite material. The technology is quite simple in the application. First there was performed the preparation of the arches surface on the reinforced areas. The preparation included the removal of finishing coats (paint, plasters) and repair of the damaged areas of the brickworks. Then there was made the slotting of the grooves to install the lamina in the central part of the arches. After it the lamina was installed into the grooves with the help of the epoxy matrix. Such installation allowed not conducting the labour-intensive work to even the brickwork surface as well as excluding the possibility of delamination of the material from brickwork. Further the carbon mesh coated by the protective layer of polymer-cement slurry was assembled on the arches surface with the help of polymer-cement slurry. After it the surface was ready for application of finishing and decorative coats of any type.

Such repair has a number of advantages. First of all these are the reduction of period of work performing twice, absence of necessity in hoisting machinery and other complex machines as well as exclusion of flame works. These factors played the important role during the selection of the technology for performing the works in tight schedule and in the constraint environment with a great number of the organizations working simultaneously. Among other things the small thickness and weight of

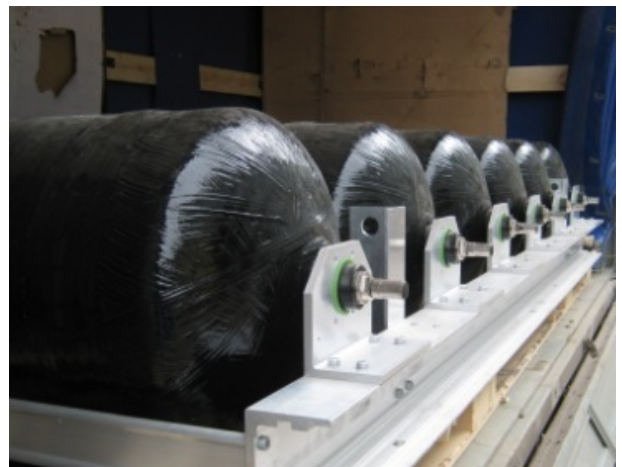
the elements of the reinforcement allowed not reducing the working height of the facilities and not increasing the loads to the current structures.

www.hccomposite.com

RUGASCO performed the delivery of the composite gas cylinder systems CNG to MAZ

At the end of August the Russian and Norwegian company Rugasco performed the delivery of the first set of the polymer and composite gas cylinder system for installation on the MAZ buses. The system supplied to the biggest Belorussian automobile factory consists in the high pressure cylinders (CNG) and is dedicated for the application with the gas fuel on the compressed methane base.

To the present moment the discussion regarding the perspectives of the cooperation with MAZ with the usage of the cylinders type 4 is conducted.



The Hexagon Raufoss systems consisting of polymer and composite high pressure cylinders have a number of operational advantages in comparison with the metal and metal and composite cylinders – less weight, absence of the corrosion, long operational life, the maximum load by the gas, the minimal number of pipe connections and valves, high impact resistance, the explosion safety.

The gas cylinder system supplied by the company Rugasco consists of six polymer composite cylinders CNG fixed on the aluminum frame. The total gas volume in the system constitutes 1284 liters (the volume of one cylinder is 214 l), the working pressure is 200 bar, the cylinder diameter is 465 mm, the cylinder length is 1818 mm. The manufacturer of

the systems is Hexagon Raufoss Company (Norway), the cylinders manufacturer is Lincoln Composites (USA).

Both companies as well as the company «Rugasco» are included into the Holding Hexagon Composites. To the present day the CNG systems are used on the passenger buses in the countries of Europe, North and South America reserving the biggest part of the market in its segment.

Before the company «Rugasco» had already performed the delivery of CNG system to the biggest Russian manufacturer of the passenger transport – LiAZ.

www.rugasco.ru/

«Uralvagonzavod» presented a completely composite wagon



And six else new samples of the railway rolling stock.

The momentous event happened on the IV International Railway Salon of Technique and Technologies EXPO 1520, opened in Scherbinsk.



The corporation "Uralvagonzavod" presented the most large-scale exposition. The biggest part of the visitors' interest was attracted to the wagon having no analogues in the world pro-

duced completely from composites. It is lightweight and strong at the same time. The characteristics of the product are 35 higher than the rolling stock used everywhere today. The truck has the increased load capacity. The composite wagon can transport 10 tons of freight more than its standard analogue.

As it was informed in the press-service of OJSC "SPC "Uralvagonzavod", within the frames of the salon EXPO 1520 the enterprise concluded the contract for composite wagons delivery to the biggest operator of the RF and CIS countries CJSC "Rusagrotrans". The document was signed by the Deputy General Director for railway technique of the OJSC "SPC "Uralvagonzavod" Andrey Shlenskiy and the General Director of CJSC "Rusagrotrans" Konstantin Zasov. The latest expressed the confidence that the innovative products of UVZ will help to renew the park of grain-carriers the number of which constitutes about 32 thousand units nowadays. He called the presentation of the composite wagon as the historical event that will influence the development of the car building in the whole.

www.uralinform.ru

3. ADVERTISEMENT

November 26, 2013

The Conference «Composite materials: production, application and market tendencies»

On November 26, 2013 the Union of Composite Manufacturers will conduct the 7th annual international science and practical conference «Composite materials: production, application and market tendencies» with the informative support of the Publishing House «Composite World».



According to the tradition in the context of the event there will be discussed the questions concerning the production and application of the composite materials, there will be present-

ed the newest production technologies of the products from composites for different industry sectors, the leading domestic and world companies will tell about their novelties and share their production experience.

We invite the industry companies to participate in the conference, to discuss the problems of development of the production and application of composites in Russian and CIS; to get the actual information and to exchange the experience.

At present moment the formation of the program begins, and we invite you to take part in this conference as the reporter for one of conference subjects.

- Production of composite materials:

- ✓ Production technologies of composite materials with special and given properties;
- ✓ Equipment and technological tooling for the production of composite materials;
- ✓ Software for designing the parts from composites;
- ✓ Properties of composite materials and methods of their prediction;
- ✓ Quality control of the composite material and products on their base;
- ✓ Raw materials and components for the production of composite materials;
- ✓ Fillers, additives and modifiers;
- ✓ Tools for composite materials treatment;
- ✓ Treatment technologies of the surface of the products from composite materials, etc.

- Application of composite materials (in transport mechanic engineering, infrastructure, electronics, energy, construction and housing public utilities, in the sphere of transportation, processing and storage of the aggressive mediums as well as the oil and gas, in the production of the consumer goods, etc.)



In case of interest to speak with the report kindly ask you to provide the subject and short thesis of the speech to the organization committee beforehand. The decision about your speech will be made by the organization committee.

The requests for speech are accepted till October 31, 2013.

The requests from the listeners are accepted till November 15, 2013.

More than 150 representatives of the leading enterprises and organizations from Russia, CIS countries, Baltic and Europe participate in the event annually.

The working time of the conference: 10.00-18.00

The detailed conditions of the participation in the conference can be given by the coordinator of the conference.

The project coordinator:

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