

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

Industry Newsletter

Composite Materials

You are working. We create conditions



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**WITH THE ASSISTANCE
Of the Publishing House
«World of Composite»**

**№ 6 (53) 2011
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**UNION OF COMPOSITES
MANUFACTURERS**

1. THE UNION'S ACTIVITY

A new member of the Union



One more company – LLC "Industrial company "Steklokompozit" (Russian Federation, Ryazan) has joined the mutual work within the frames of the Union's activity at the beginning of July.

About the company: LLC "Industrial company «Steklokompozit" is a new enterprise on the composite market of Russia, at the present time is the leading factory construction in Ryazanskaya oblast for FRP pipes and tanks production with the diameter from 300 to 3000 mm by winding method. Start of the production is planned on 2012.

A specialized issue of Glass Russia 2011



The Union of Composites Manufacturers together with the Publishing House «AMS» published a specialized issue of the Glass Russia issue being a traditional dedicated to the composite industry.

The specialists of such companies like Ashland,

OCV Reinforcement, CJSC "Firm "AZOS", LIBA Maschinenfabrik GmbH, FSUE "VIAM", LLC "Balakovo Carbon Production", LLC SPC "Armastek", VEM and other participated the work under July issue.

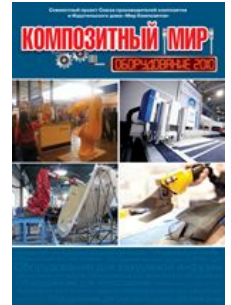
The request for free receipt of specialized issue of Glass Russia magazine should be sent to the office of the Union of Composite Manufacturers by email: manager@uncm.ru or info@uncm.ru

The name of the organization, telephone, email as well as surname and name and position of the recipient should be indicated in the request.

The mutual project of the Publishing House «the World of Composites» and the Union of Composites Manufacturers

A specialized enclosure to the edition "Composite World" fully dedicated to the equipment in the composite industry is planned in November 2011.

The following information will be placed on the pages of the enclosure:



- Equipment for reinforcement materials production
- Production machinery for composites manufacturing
- Auxiliary equipment and tools
- Robotized complexes
- Equipment for control and diagnosis of composite parts.

Circulation: 3000 copies.

The enclosure will be distributed via:

- free distribution to all subscribers of the "Composite World" magazine together with the December edition;
- enclosure to the materials package of the conferences organized by the Union of Composites Manufacturers;
- free of charge on the magazine and the Union's booths on all industry events.

Materials acceptance is up to October 01, 2011.

The questions regarding information placement in the enclosure can be sent to:

- the office of the **Union of Composites Manufacturers:**

Tel./fax: (495) 984-76-74

info@uncm.ru

manager@uncm.ru

www.uncm.ru

- the editors office of the **«Composite World» magazine**

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Corrosion resistant composites

The seminar of Ashland company organized by the Union of Composites Manufacturers and dedicated to the **modern corrosion resistant materials for tanks protection in the sphere of mining and smelting and chemical enterprises** was conducted on June 29, in Saint-Petersburg Chamber of Commerce and Industry.

The leading specialists of Ashland Company participated in this seminar.

2. NEWS OF THE TECHNICAL REGULATION

Tender for the national standards development for composite materials and products from them

The Development Program of national standards is annually organized for the purposes of tasks realization facing the standardization.

The development program of the national standards of the Russian Federation for 2011 provides development and approval of the following national standards for composite materials and products from them (composite flexible bonds for multilayer enclosing structures, pipes and parts for pipelines from thermoset materials, tanks from thermoset materials, etc.):

- Composite flexible bonds for multilayer enclosing structures. Technical conditions. Development of GOST R
- Pipes and pipelines parts from thermoset materials reinforced by glass fiber. Tests methods. Determination of mechanical characteristics at axial tension. Development of GOST R
- Pipes and pipelines parts from thermoset materials reinforced by glass fiber. Tests methods. Determination of the initial circumferential tensile strength. Development of GOST R
- Pipes and pipelines parts from thermoset materials reinforced by glass fiber. Tests methods. Determination of resistance to the initial ring deformation. Development of GOST R
- Special purpose polymer composite sheet. Technical conditions. Development of GOST R
- Pedestrian bridges and crossovers from polymer composites. Technical conditions. Development of GOST R
- Pipes and pipelines parts from composite materials on epoxy base reinforced by glass and basalt fiber. Technical conditions. Development of GOST R
- Pipes and pipelines parts from thermoset materials reinforced by glass fiber. Tests methods. Adhesive and threaded joint tests. Development of GOST R
- Pipes and pipelines parts from thermoset materials reinforced by glass fiber. Tests methods. Leakage test at short term intrinsic pressure. Development of GOST R
- Pipes and pipelines parts from thermoset materials reinforced by glass fiber. Tests methods. Determination of the initial specific ring stiffness. Development of GOST R
- Tanks from thermoset materials reinforced by the fibers. Technical conditions. Development of GOST R
- Chemical resistant polymer composites for industrial pipeline repair. General technical conditions. Development of GOST R
- Chemical resistant polymer composites for industrial tanks lining. General technical conditions. Development of GOST R
- Pipeline segments produced from composite materials intended for surface work and repair of the water management and water disposal systems. Technical conditions. Development of GOST R
- Pipes and pipelines parts from thermoset materials reinforced by glass fiber. Tests methods. Determination of failure time under constant term intrinsic pressure. Development of GOST R
- Pipes and pipelines parts from thermoset materials reinforced by glass fiber. Tests methods. Determination of chemical resistance of inner surface under loading conditions. Development of GOST R

- Pipes from thermoset materials reinforced by glass fiber. Cylinder shells of the poles for chimneys and flue pipes. Technical conditions
Development of GOST R
- Pipes and pipelines parts from thermoset materials reinforced by glass fiber. Tests methods. Tests of the bolted flange joints
Development of GOST R
- Pipes and pipelines parts from thermoset materials reinforced by glass fiber. Tests methods. Leakage tests of sliding joints
Development of GOST R
- Pipes and pipelines parts from thermoset materials reinforced by glass fiber. Tests methods. Determination of wear resistance of internal surface
Development of GOST R

According to the standards development schedule for 2011 the Russtandard held the tender for this job execution.

The Union of Composites Manufacturers was declared as the tender winner

3. NEWS OF THE ECONOMIC REGULATION

Letter of the Federal Tax Service of RF as of 13.05.2011 N KE-4-3/7675

"Of determination moment of taxation base for the goods at export from the territory of RF to the territory of the state – member of the Customs Union"

The Federal Tax Service of RF explained the questions regarding reflection of the goods realization operations exported from the territory of RF to the territory of the state – member of the Customs Union in the tax VAT return.

It is informed in the letter of the Federal Tax service, in particular that in case if a tax payer does not have necessary documents provided by the Protocol as of 11.12.2009 stipulating levying order of indirect taxes in the Customs Union (for example there was no claim of goods import and indirect taxes payment) to the moment of determination of taxation base (i.e. to the last date of quarter in which the documents were ready proving the application of zero VAT rate in accor-

dance with the point 1 of the article 164 of the Tax Code of RF) then the operation for goods realization for export should be reflected in the declaration for the next quarter in which the necessary documents will be gathered in full.

4. INDUSTRY NEWS

The General Director of Management Company "Ruscomposite" was elected as the head of Strategic Initiative Agency (SIA)

The Premier – Minister of RF, Vladimir Putin informed on the meeting with the members of expert councils of the Strategic Initiative Agency that the General Director of LLC "Management Company "Ruscomposite", the Committee Chairman for composite materials production and the Youth Policy Council, Andrey Nikitin was elected as the General Director of the Strategic Initiative Agency for new projects promotion.



Vladimir Putin also announced the results of the competition for the positions of three directors of SIA. The Director of "New Business" direction will be the president of Consulting Group «Neo Center» Artem Avetisyan, the Director of "Young Pro" direction will be Dmitry Peskov, the General Director of "Metaver" project group and the head of the "Social Project" direction will be the Director of State Educational Unity «Training Center for information and analytical work» Vladimir Yablonskij.

Addressing to the elected managers of SIA the Premier voiced a hope for effective work of the team: «I am sure that you will establish a good work of this agency properly. And the agency will become significant, visible, efficient tool for innovations promotion, constant forward

movement in the spheres where it will work».

That Putin remembered: «There will be no losers in this marathon, we will try to do everything in such a manner that everybody will be in demand, in the public eyes and at all events in the regions of Russia everybody can participate in the Agency activity».



New General Director of the Strategic Initiative Agency Andrey Nikitin intends to work under removal of the obstacles for business and improvement of entrepreneurs' image first of all. He declared about it during meeting of the expert council of the agency with the Premier – Minister of RF Vladimir Putin.

Among this in his speech Andrey Nikitin gave thanks to the Premier and members of the competition commission for choosing his candidacy to the position of the general director of the agency.

He told that he has no regrets of his choice made nine years ago in the favor of the innovations: «Nine years ago when we started our business we had the choice: to open a trade center on the factory place or to make something new. We chose the second way. Nowadays 90% of the products that the company where I have already worked, produces have not been produced in Russia before. And there are the products that have not been produced in the world before».

According to his opinion the first and main task of SIA is the project support. «Support of the projects from the point of view of obstacles removing first of all (normative obstacles, administrative obstacles that cause irresponsibility and can lead to disastrous effects) is the support to the businessmen in the projects package,

assistance to the business in getting the financing of the development institutes», – A.Nikitin declared.

In his turn the Head of the Government confessed that there are a lot of the obstacles but they are present in any country. «The obstacles are growing everywhere but we are to have less that in the other countries», – Vladimir Putin declared.

The second task, according to Andrey Nikitin's opinion, coincides with the improvement of businessman impression in the modern society. «It is very difficult to communicate with the society that recognizes a businessman as not so good class of man. It is necessary to work under improvement of business image», – he told.

At the same time according to Nikitin's words the SIA work will be directed to the improvement of entrepreneurial climate also. «The state machine executes the orders and when the orders have been executed, hardly anybody is interested what real effect brings this or that normative act, how it influences the business, how it works. Here I believe that we are to work, the agency should work closely with the business associations, "Delovaya Rossia", "Opora" and so on», – a newly elected general director of SIA indicated the third task of the agency in such a manner.

Tatarstan and VIAM will develop composite materials together



Agreement of science and technical cooperation between the Republic of Tatarstan and the Federal State Unitary Enterprise (FSUE) «All-Russian science and research

institute of aviation materials» was signed on June 08 in Moscow.

The President of the Republic of Tatarstan, Rustam Minnikhanov and the general director of FSUE «All-Russian science and research institute of aviation materials», RAS academician, Evgeniy Kablov put their signatures in the document.

The cooperation of Tatarstan enterprises of mechanical-engineering, aviation cluster with FSUE «All-Russian science and research institute of aviation materials», conduction of design and experimental researched in the context of composite materials development is supposed within the frames of the Agreement.

The document was signed in the building of the All-Russian science and research institute of aviation materials (Moscow, Radio str., 17), where the presentation of new enterprise's projects has been made for Rustam Minnikhanov.

<http://president.tatarstan.ru>

Domestic fire retarder for composites

The Company «Russian Mining and Chemical Unity» («RMCU») is the domestic manufacturer of clear fire retarder on the brucite base (native magnesium hydroxide) under trade name «EKOPIREN»® and it has finished the construction of new production complex that will allow increasing the output volume to six times (up to 30 000 tons per year).



A new production complex is equipped with modern European machines, assembly and startup of which has been organized at immediate participation of foreign specialists. Modern equipment has allowed increasing the quality standard of «EKOPIREN»® products as well as widening of product range.



It should be noted that it is necessary to investigate the raw materials and control the output products more carefully due to the output volumes growth and increasing of products quality. A new laboratory equipped with the up-to-date European equipment was organized with this purpose.

The increasing of production capacities of «EKOPIREN»® products will allow the «RMCU» to satisfy the constant growing demands as on the Russian market and on the foreign markets.

Press-release of the company

High-speed catamaran for APEC summit will be built to the end of the year

Two high-speed passenger vessels with 223 seating capacity each that will meet the APEC demands being organized in Vladivostok in 2012 will be got into service in November, 2011, the region Governor, Sergey Darkin informed on the meeting regarding preparation to the organization of "APEC Summit Week" that was organized by the President of RF, Dmitry Medvedev, on the Ruskij island.

Catamarans are produced from carbon plastic on the seaside enterprise OJSC "Vostochnaya dockyard", that manufactures the ships for the naval forces and frontier forces as well as light passenger vessels, repairs fishing boats.

After finishing the APEC summit the catamarans will work on the sea passenger directions important to the region.

www.primorsky.ru

Corvette Soobrazitelnij



First the corvette "Soobrazitelnij" was demonstrated on the fifth International Marine Saloon in Saint-Petersburg. More than 70 industrial and scientific enterprises worked under the ship manufacturing that was ordered by the Russian Navy.

"The task of "Soobrazitelnij" is to search, to follow and destroy the combat vessels, underwater and airborne weapon of a contender. It can also make fire support operations at amphibious landing", - Alexander Telepov, the captain II rank, the ship captain told to RIA News.

The corvette is equipped with impressive armory: antiship missile system "Uran", anti-aircraft artillery battery AK-630M, automated artillery system A-190 and torpedo launchers.

The antisubmarine helicopter KA-27PL for detection and destroying of submarines is located on the corvette board.

The ship captain also noted that the stealth technologies were used at the construction of the ship. Radar visibility of the ship has been decreased at the expense of application of not easily combustible FRP with radar absorbent properties.

According to some of the military men the corvettes of new series should become the base of the Russian Navy in closest maritime zone. The command of the Russian Navy estimates the fleet's necessity in 20 ships of "corvette" class.

www.rian.ru

FRP hull of the unique dimensions was built in Peterburg

The hull of military ship was built completely from glass-reinforced composites on Sredne-Nevskij shipyard. To the end of this year

the mine sweeper of the project 12-700 will be fully equipped and heaved off.



The representatives of Guinness World Records are going to visit Sredne-Nevskij Shipyard. The hull has already cured and the workers remove covers to the visit of the important visitors. The composite hull of mine sweeper with about one thousand tons tonnage will be demonstrated to the guests.

To that moment the ships were produced by such method in two or three times smaller. First in the world it was success to build monolithic hull from glass reinforced composite of such dimensions - 70 meters length and almost 8.5 meters height.

The hull was produced by infusion technology.



Not the materials are unique from which the hull was produced the technology is the unique. The first stage is the automatic glass fabric cutting. The construction has about 40 tons of glass fabric. Then the laying of 30 plies goes into the mold. The plies are then pressed under the pressure and impregnated with the resin. The curing process takes five-six hours. Then the mold is de-

molded and the readymade hull is moved to a staple.

"With the help of existing laser control technologies to monitor impregnation process we can produce such hulls in tight schedule, about one per three months", - Alexey Pishugin, the technical director of OJSC "Sredne-Neviskij shipyard" explained.

Such hull does not give way to the aluminum by strength, it weighs only seventy tons but not two hundred as the metallic weighs. There is no necessity to clean and paint the bottom every year. Thus the operation period will prolong up to sixty years. The deck and complete internal structures of the ship are produced by such method.

"The composites will be used at the construction of mine countermeasures ships in the defense industry. Composite hull is invisible to the radars. In civil sector it can be passenger ferries and pleasure yachts", - Vladimir Seredoho, the general director of OJSC "Sredne-Neviskij Shipyard" informed.

The mine sweeper of 12-700 project will be completely equipped and heaved off to the end of this year.

www.vesti.ru

Demarcation of the Russian and Lithuanian border



The demarcation works of the Russian and Lithuanian borders will begin on July 19 – the first border mark will be mounted on Vishtinetskom Lake in the Vilkevishskij district on the boarder of Kaliningradskij oblast of Russia and Mariampolskij parish of Lithuania – the guard service of Lithuania State boundary informed.

The first border mark – buoy will be fixed on the lake near the Vishtichyay town at 12.00

(13.00 Moscow time). The demarcation works in this place for the distance of nine kilometers will be fulfilled by CJSC Laugina that won the competition.

The border between Lithuania and the Russian Federation by Vishtinetskij Lake will be indicated by canary-yellow cylindrical buoys from glass reinforced composites with reflecting elements. 23 buoys will be mounted on Vishtinetskij Lake. They will not be taken away in winter time; they will stay in frozen lake and fulfill their function.

The demarcation works of the ashore border will be started in nearest time.

The border with Russia is the only border of Lithuania that is still not marked. Its length constitutes 294.4 kilometers, 253.7 of which are located ashore and in near-border water, 18.5 kilometers are located on Kurshskij creek and 22.2 – on the Baltic sea.

www.rian.ru

Composite manufacturers divided with each other the production secrets of ready products from carbon plastic

The educational seminar on the topic of composites transformation into the ready products was organized on the shops of the "Prepreg SKM" enterprise in Klimovsk city at the end of June.



More than sixty representatives from the Russian innovative companies specializing on composite materials gathered on this event. First the participants were shown the production capacities of "Prepreg-SKM" enterprise, textile machines and production line for carbon fiber prepregs. Then Alexey Ivanenko, the sales and dealer net development manager of HC "Composite" told

about plans of the company. Up to the end of the year the company HC «Composite» plans to open a new production facility on former factory “Moskvich”. The modern equipment will allow manufacturing of up to 2 thousand prepregs per year; it is 10 times more than produced in Russia nowadays.

The founder of the innovative company from Moscow «KB1901» Vasilij Arhipov demonstrated different ways of carbon composites production to the listeners of the seminar.



The biggest problem, the specialist explains – is the absence of production technology of ready products. It would seem that it does not make sense to investigate the bicycle but the western companies specializing in this direction are not going to share with their “know-how”. «If there is no technology there is no market. The Company HC «Composite» is on the right way, they spend a lot of money for getting the technology. As soon as we get the technological possibilities that will give the price attractive to the market – we will increase the demand because the needs in carbon composite is present and it is huge», - Arhipov tells.



The commercial director of «KB 1901» Ekaterina Kramarenko does not confuse with the fact that they have to share the production secrets with the colleagues – composite manufacturers: «We are ready to create the competitors with the purpose to develop the

market, our investments will be repaid a hundredfold». According to her words the engineering is very expensive, that's why it is much more profitable for the companies – composite materials manufacturers to address to the colleagues for the developments already existing. «We can develop and pass to the production some of the products and control their implementation by the sketches and needs of a customer», - she explained.

www.compozit.su

BauTex project: glass-melting furnace

BauTex Company starts a new large-scale project – the construction of glass-melting furnace estimated for the production of 20 000 tons per year. The consultants and suppliers from Europe the best in the sphere of fiber glass production will assist BauTex in this project and to the end of 2013 the furnace is planned to start operation.

The fiber glass filament and roving of thin and very thin tex will be produced with the help of this furnace.



The field operations for geodetic and geological investigations of the ground for factory construction were finished on May 23. The next step will be designing of basement for a new factory.

www.bautex.ru

5. ADVERTISEMENT

UNCM

Union of composite manufacturers

November 24, 2011 in Moscow the Union of Composite Manufacturers will conduct the 5th International science and practical conference

«Composite materials: production, application, market tendencies»

According to the tradition the event will be dedicated to the actual questions of composite market development in Russia and CIS, such as:

- News of the market of raw material and auxiliary materials,
- Innovations, modern technologies and equipment,
- IT-technologies,
- Mold construction and tooling,
- Technical regulation.

There will be a specific subject of the conference – the question of quality and durability of the products from composite materials, specificity of their application, normative documents as well as processing and recycling of composite products.

The event gathers more than 120 representatives of the leading industry companies annually.

We invite the companies for participation in conference work.

Please address to the office of the Union of Composite Manufacturers regarding participation questions:

Project manager – Natalia Lukicheva

Tel: (495) 984-76-74

Email: manager@uncm.ru

Reporters requests are accepted up to October 20, 2011. Listeners requests are accepted up to November 20, 2011

The 6th European exhibition – forum COMPOSITES EUROPE 2011

The 6th European exhibition – forum COMPOSITES EUROPE 2011 dedicated to the composite material, technologies of their production and application spheres will be conducted from 27 till 29 of September in Stuttgart city (Germany).

This year the exhibition will gather about 300 participants from 25 countries of the World. About 9 000 specialists plan to visit it.

Thematic sections:

- Raw materials
- Fillers
- Processes, technologies and equipment
- Treatment / Finishing
- Semi-products
- Service (Distributors, stimulators, CAD/CAM)

In the program:

- AVK conference (September 26-27, 2011)
- COMPOSITES Night – evening party for the participants
- Products Demonstration zone
- COMPOSITES Forum

The turnkey solutions will be demonstrated on the exhibition for such industries as: construction, wind energy, auto industry, shipbuilding, aviation, electronics and electro-technics, etc.

Additional information is www.composites-europe.com



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