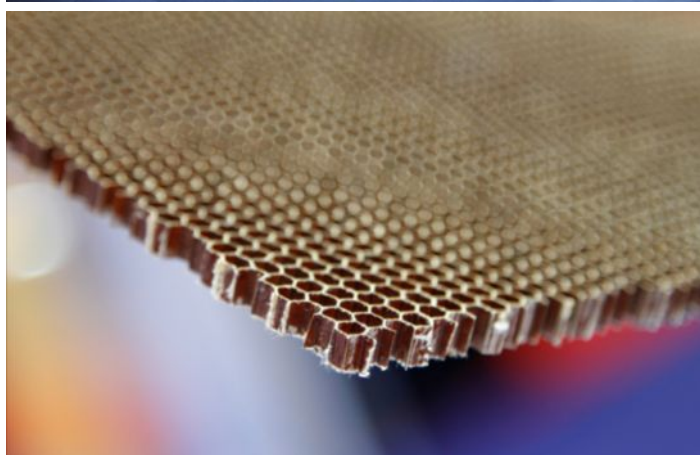


Official edition  
Of the Union of Composites Manufacturers  
With the assistance of the magazine  
«Composite World»

# Industry Newsletter

# Composite Materials

*You are working. We create conditions*



### **In the issue:**

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

*№ 5 (52) dated June 3, 2011*

UNION OF COMPOSITES  
MANUFACTURERS

## 1. THE UNION'S ACTIVITY

### The Union of Composite Manufacturers signed the Collaboration Agreement with the Union of Aero manufacturers

The official signing of strategic collaboration agreement between the uncommercial partnership "UAM" (the Union of Aero Manufacturers) in the name of the President, Alexey I. Fedorov and the Union of legal persons "The Union of Composite Manufacturers", the member of the general council "Delovaya Russia" Sergey B. Fahretdinov has been conducted on the meeting of supervisory committee of uncommercial partnership "UAM" on May 25, 2011.



The key goals and tasks of signing of the Agreement are: coordination of combined actions directed to the increasing the efficiency and competitiveness of the work of the aircraft industry enterprises; support of development of science and technical potential and creation of conditions for innovative processes; assistance to the members of the Unions and associations in reaching the stated production goals; mutual work for harmonization of the norms and rules acting in Russia with the international norms and rules.

#### **The reference about the Union of Aero Manufacturers:**

**Uncommercial partnership "the Union of Aero Manufacturers"** ([www.aviationunion.ru](http://www.aviationunion.ru)) of Russia (before April 2009 – the International Union of aviation industry, before July 2010 — "the Union of aviation industrialists" of Russia) was created in July 2002 by the initiative of the leading enterprises of the aircraft industry of Russia and is the industry association defending the corporate interests of aviation industry on the all levels of legislative and executive power as well as in different international organizations. The main goal of the Union is the assistance in developing the

business activity in the sphere of aviation and aircraft industry, increasing the social and legal status of the industry enterprises, providing the legal and methodological support, protection of interests of its members in interrelations with the bodies of state power of Russia as well as in the international organizations influencing the activity in the sphere of aviation and aircraft industry. The Union of Aero Manufacturers unifies more than 150 leading enterprises of aviation industry. The Union's members are the main integrated structures of aviation industry of Russia: OJSC "OAK", OJSC "Helicopters of Russia", the Unified Engine Corporation, concern "Aviation Instrumentation", holding "Aviation equipment".

[www.aviationunion.ru](http://www.aviationunion.ru)

### The Composite World AVIATION and SPACE

The Union of Composite Manufacturers together with the "Composite World" magazine (site of the magazine is [www.kompomir.ru](http://www.kompomir.ru)) are preparing the specialized project: edition «Composite World AVIATION and SPACE» that will be published in August 2011.



On the pages of the edition there will be published the most actual information:

- About the materials (main and auxiliary) for composites production
- About technological equipment for composites production
- About modern technologies of manufacturing the products from composites for airspace industry
- About software and robotized complexes.

Circulation is 3000 copies.

Edition format is 220x297 mm, full-color.

#### **The edition will be distributed:**

- Free of charge on the industry events in the context of "MAKS 2011" and "Aero-space Testing Russia"
- Free of charge between all members of the Union of Aero Manufacturers ([www.aviationunion.ru](http://www.aviationunion.ru))

- By free distribution to all subscribers of the "Composite World" magazine together with August issue;
- By including it to the pocket of the materials of the conferences organized by the Union of Composite Manufacturers;
- Free of charge on the booths of the magazine and the Union on all industry events.

If you wish that the information about your materials, technologies and equipment will become available to all enterprises of air-space industry of Russia and CIS the publication in this edition will help you.

**The acceptance of the materials is up to July 15, 2011.**

**If you have the questions concerning information placement or receiving the magazine please contact:**

• **the office of the Union of Composite Manufacturers:**

Tel./fax: +7 (495) 984-76-74  
 info@uncm.ru  
 manager@uncm.ru  
 www.uncm.ru

• **the editors office of the magazine "Composite World"**

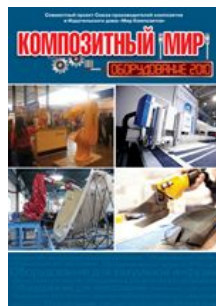
Tel./fax: +7 (812) 438-77-01  
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 www.kompomir.ru

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

November 2011, a special enclosure to the magazine "Composite World" is planned to be published wholly dedicated to the equipment in composite industry.

The following information will be published on the pages of this enclosure:

- Equipment for reinforcement materials production



- Technological equipment for composites production
- Auxiliary equipment and tools
- Robotized complexes
- Equipment for control and diagnosis of the products from composites.

Circulation is 3000 copies.

The enclosure will be distributed:

- by free distribution among all subscribers of the magazine «Composite World» together with the December issue;
- by inclusion to the conferences' materials, organized by the Union of Composite Manufacturers;
- free of charge on the booths of the magazine and Union on all industry events.

Reception of the materials is up to October 01, 2011.

If you have any questions regarding information placement in the enclosure you can address to:

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

Tel/fax: (495) 984-76-74  
 info@uncm.ru  
 manager@uncm.ru  
 www.uncm.ru

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

Tel/fax: (812) 438-77-01  
 info@kompomir.ru  
 o.gladunova@kompomir.ru  
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## 2. NEWS OF THE TECHNICAL REGULATION

**The Order of the Ministry of Education and Science as of 07.02.2011 N 173 «Of realization of the Decree of the Government of Russia as of April 23, 2010 N 282 «Of national nanotechnological network»**

There have been approved the requirements to the participants of the national nanotechnological network as well as the coordination procedure of organizations being in its composition.

The national nanotechnological network is the complex of organizations of different

property categories providing and realizing the coordinated activity for development and commercialization of nanotechnologies, development and release of nanotechnology products, its metrological provision, standardization, appraisal and conformity assessment, provision of safety of creation and application, preparation, retraining and advanced training of the personnel for nanoindustry, as well as for financing the development projects of nanoindustry.

The order approved the requirements to the network participants, criteria of correspondence of the company to the requirements to the network participants, procedure of net in and net out of the organizations as well as coordination procedure of the organizations in the network composition.

### 3. INDUSTRY NEWS

#### Efficiency increasing of the construction and exploitation of autoroads in the Russian Federation

The Combined Conference of the Community Board at the Russian Auto Roads, The Public Chamber of the Russian Federation: "Efficiency increasing of construction and exploitation of the autoroads in the Russian Federation" has been conducted in MAI (Moscow Autoroad Institute) on May 19, 2011.



*On the photo: I. Levitin and A. Chubunin examine the model of bridgework presented by the company «STEKLONiT Management».*

The following persons participated in the conference: Levitin I., the Ministry of Transport of RF; O. Belozerov, the deputy minister; A. Chaburin, the head of the Federal Highway agency; M. Shakuum, the chairman of committee of the State Duma of RF for construction and territorial relations; O.

Skvortcov, the chairman of the community board at the Federal highway agency and the President of the Association of road planning and surveying organizations «Rodos»; S. Fahretdinov, the board chairman of the Union of Composite Manufacturers; the members of The Public Chamber at the Ministry of Transport of RF and the Federal Highway Agency, representatives of the federal bodies of the executive power of the subjects of RF, road, construction, project, science and public organizations.

The exhibition on which the company "STEKLONiT Management" presented its composite products: mobile plates MDP-MOBISTEK and all-composite superstructure for pedestrian crossover has been conducted in the context of the conference.

The superstructure can be produced as from FRP and from carbon composite.

At all times in the world of construction the building constructions face an acute problem of longevity and durability. The bridge engineering is not an exception. The service life of bridge superstructures from reinforced concrete or steel does not exceed 40-50 years. The reason of such short service life of bridge superstructures is in the following:

- Reagents usage in winter time;
- Temperature difference;
- Aggressive medium influence;
- Fatigue deterioration (appearance and growth of cracks).

To solve the problem of longevity of bridge superstructures is possible thanks to application of composite materials. Such constructions have a number of advantages against reinforced concrete and steel:

- Speed and easiness of assembling;
- Easiness;
- longevity (estimated service life is one hundred or more years);
- chemical resistance;
- costs minimization for exploitation (composite constructions are not subject to corrosion, do not require painting and auxiliary maintenance);
- the perfect exploitation properties.

Thus the constructions from FRP are the new highly perspective alternative to the reinforced concrete analogues. In Europe this material has been highly evaluated a time

ago and actively used in the construction, while the market of composite materials in Russia is in its very beginning of formation.

E. Levitin, the ministry of transport and A. Chaburin, the head of the Federal Highway Agency apart emphasized the necessity of implementation of composite materials at the construction of the objects of transport infrastructure.

*Press-release of the company*

#### 4. ADVERTISEMENT

##### **Composite materials in civil and military aircraft industry**

On **August 19, 2011** in the context of the Xth International airspace saloon **MAKS – 2011** The Union of Composites Manufacturers together with the exhibition company “Mir Expo» with the assistance of the Union of Air Manufacturers conduct

##### **The 2nd workshop science and practical conference**

##### **“Composite materials in civil and military aircraft industry”**

One of the main problems of application of composite materials in Russia is the absence of competent and active dialogue between manufacturers and consumers of modern materials. There will be presented the latest achievements of the leading enterprises of composite industry for aircraft industry in the context of the conference.

The reports of the leading domestic and foreign companies working for the needs of the aircraft industry will be heard on the conference.

##### **The main topics of the Conference:**

- New technologies of design and production of goods from composites in the aircraft industry.
- Modern materials and equipment for production of the goods from composites.
- The properties of the composite materials (physical and mechanical characteristics, radar transparency, ultra light weight, service life); the main advantages against the materials used traditionally.
- Composite materials in the constructions, parts and assemblies of the air-

crafts. Experience of application and implementation.

We invite the manufacturers of the aircrafts; composite materials; designers of the technologies and software; raw materials suppliers, suppliers of the materials and equipment; representatives of the industry institutes and experts to the participation in the conference.

The conference organized in the context of «MAKS-2009» was visited by more than 200 specialists of the enterprises producing the aero techniques, air components, composite materials, prepregs, resins, software, specialists of science and research institutes and centers, journalists of specialized editions, experts. The detailed results can be viewed on the web site

<http://english.uncm.ru/Page215.html>

**We invite you to participate in the 2-nd workshop conference “Application of composite materials in civil and military aircraft industry” as sponsor, reporter or participant.**

##### **Sponsorship package – 2500 Euro:**

- Presentation 20 min. + 10 min of discussion
- Entrance tickets to MAKS in the day of the conference – 3 pcs.
- Placement of sponsor banner in the conference hall
- Placement of name, logo and info of sponsor company on CD of the conference
- Placement of advertisement in the Russian magazine “Composite World” with 50% discount
- Distribution of information materials on the conference
- Placement info of sponsor on the website of the Union

##### **Participation with presentation – 500 Euro:**

- Presentation 30 min. + 10 min of discussion
- Entrance tickets to MAKS in the day of the conference – 1 pcs.
- Placement presentation on CD of the conference

**Participation with presentation for full members of UNCM** is free, for associative members- 30% discount, for image members – 10 % discount.

##### **Participation as listener is free**

(except entrance ticket, buying by yourselves).

Applications for participation with resenatation  
are welcomed before **15 July 2011**.

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