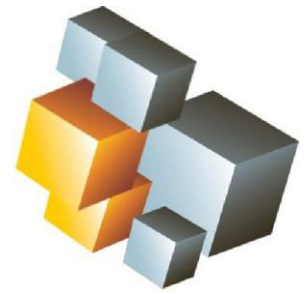




National Research University  
Moscow State University of Civil Engineering  
**International Scientific Conference**  
**«Integration, Partnership and Innovations  
in Construction Sciences and Education»**  
MGSU, 12-13 November, 2014



**International scientific conference**  
**"INTEGRATION, PARTNERSHIP AND INNOVATIONS IN CONSTRUCTION SCIENCE AND EDUCATION"**

The Moscow State University of Civil Engineering holds the International scientific conference "Integration, Partnership and Innovations in Construction Science and Education" for the purpose of the priority development directions of research and innovative activity in construction branch realization.

Known scientists, representatives of the Russian and foreign educational, scientific, research, state and public organizations, real sector of economy take part in conference.

Information about this event will be intensive covered by electronic and specialized print media. Work of conference will be transmit in real time to regions of Russia, and also on integration network system of MGSU "Open Network of Education in Construction".

Working languages of the conference are Russian and English.

**Organized by:** Moscow State University of Civil Engineering ("MGSU")

**With support:**

The Ministry of Education and Science of the Russian Federation

The Ministry of Regional Development of the Russian Federation

The Moscow City Government

The Moscow Region Government

Russian Academy of Architecture and Construction Sciences

Russian Union of Builders

Associations of Builders of Russia

International Association of Construction Higher Education Institutions

**The programme of conference** includes: opening and closing ceremonies, plenary session, thematic sections working, the scientific programme events.

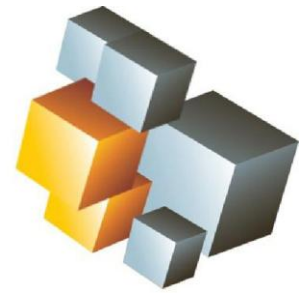
**THEMES:**

**SECTION 1. ARCHITECTURE AND TOWN PLANNING**

- Functional, shape-planning and technical solutions of buildings and constructions.
- Ergonomics of rooms.
- Architectural, planning and technical principles of the energy efficiency of buildings insuring.
- Topics about restoration and reconstruction of buildings and constructions – historical and architectural monuments.
- Social problems of town planning and architectural and construction activity.
- Town-planning principles of complex megalopolis building formation. Improvement of territories. Objects and systems of the megalopolis modern infrastructure. Transport infrastructure.
- Technologies for providing the steady ecologically friendly environment by means of town planning. Rational environmental management.
- Theoretical, historical and architectural and humanitarian aspects of the environment.
- Construction physics.

➤ **Round table discussion: "Historical and cultural problems of construction and architecture".**

➤ **9th working meeting of the TEMPUS CENEAST project participants: "Reformation of the Curricula on Built Environment in the Eastern Neighboring Area"**



## **SECTION 2. CONSTRUCTION DESIGNS AND TECHNOLOGIES**

- Design and calculation of constructions. Modern constructive forms and methods of its researches. Loads and effects. Computer modeling.
- Front systems, translucent designs.
- Reliability of buildings and constructions.
- Fast-built buildings and constructions.
- Construction designs and objects: tests, diagnostics of technical condition (inspection and monitoring).
- Technology and organization of construction production. Cars and equipment.

## **SECTION 3. COMPLEX SAFETY IN CONSTRUCTION**

- Explosive stability.
- Fire safety of buildings and constructions.
- Ecological safety of construction objects and the urbanized territories. Ecological safety standardization.
- Safety of construction objects in special conditions of external influences, at the combined special influences with fire participation.
- Seismic stability of constructions.
- Technological safety in construction, housing and communal services.

## **SECTION 4. INFORMATION SYSTEMS. ECONOMY AND MANAGEMENT in CONSTRUCTION, REAL ESTATE AND HOUSING AND COMMUNAL SERVICES**

### **Subsection 4.1.**

#### **INFORMATION SYSTEMS IN CONSTRUCTION**

- Information systems and technologies in construction.
- Intellectual systems, technologies and automatic equipment in construction. Development of the theory and practice of buildings, constructions, complexes and territories functional management.
- Computer and mathematical modeling of conditions of construction objects and complexes using the modern information technologies.

### **Subsection 4.2**

#### **ECONOMY AND MANAGEMENT OF INVESTMENT AND CONSTRUCTION ACTIVITY. REAL ESTATE AND HOUSING AND COMMUNAL SERVICES**

- Economy and modern principles of investment and construction activity management.
- Improvement of organizational forms and activity of the construction enterprises.
- Modern principles of towns, real estate, housing and communal services management.
- Sociological and psychological aspects of construction and real estate management.

## **SECTION 5. MODERN CONSTRUCTION MATERIALS AND TECHNOLOGIES**

- Materials science. Modern construction materials and products: efficiency and quality. Test methods and quality control of construction materials and products. Normative and technical base. Modern physical and chemical methods of an assessment of a condition of construction designs and means of their protection.
- Technologies of constructional materials and products.
- Utilization and treatment of the industrial wastes for the construction materials production.
- Industry of nanosystems. Nanotechnologies in production of construction materials.



## **SECTION 6. ENERGY EFFICIENCY. ENGINEERING INFRASTRUCTURE OF BUILDINGS AND INHABITED LOCALITIES. HOUSING AND COMMUNAL SERVICES OBJECTS. MECHANICAL EQUIPMENT**

- Power effective technologies in system of housing and communal services.
  - Modernization of objects of municipal infrastructure
  - Modern systems of water supply and water disposal.
  - Clear water.
  - Technologies of cleaning natural and sewage.
  - Power effective technologies and systems of engineering infrastructure and equipment of buildings.
  - Heating, ventilation and air conditioning.
  - Power effective technologies and the heating engineer in construction, construction thermo physics of protecting designs of buildings.
  - Power, oil and gas supplying of construction objects and development of infrastructure of the inhabited locality power supply.
  - Power effective systems of maintenance of a microclimate of rooms, heat and gas supply.
  - Power effective technologies and systems of engineering infrastructure and equipment of buildings. Construction machines and systems of vertical transport.
  - Mechanical equipment, details of cars, technology of metals.
- **Round table: "Housing and communal services":**
- Capital repairs, modernization, reconstruction, sanitation of the housing stock.
  - Public and municipal administration of city formations.
  - Management of housing and communal services.
  - Providing conditions for handicapped groups of the population at reconstruction of buildings and constructions.
  - Innovations in a road city building and settlements.
  - Municipal services of the cities and settlements. Bath-and-laundry economy, hotel enterprises.
  - Objects, enterprises, ranges for processing and utilization in housing and communal services system.

## **SECTION 7. GEOTECHNICAL, POWER AND HYDROTECHNICAL CONSTRUCTION**

- Mechanics of soil, bases and foundations.
- Engineering researches in construction.
- Underground construction. Works in soil.
- Hydro technical construction.
- Technologies of protection and cleaning of the rivers, reservoirs, underground sources.
- Power and special constructions – development and modernization of technical solutions and technologies.
- Rational power. Technologies of renewable.

### **PARTICIPATION CONDITIONS:**

To participate in the conference it is necessary to provide the MGSU Personnel scientific and pedagogical training department with the following documents till **October 1, 2014**:

- the registration form of the conference participant;
- to pay a registration fee;
- to provide materials for the publication in the Conference proceedings.

### **Form of participation in conference – internal.**

The external form of participation is allowed only for non-residents and foreign participants.



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After closing of the conference the Conference proceedings will be published in electronic form. The information emails will be sent to all Participants of the conference to the address specified in the registration form.

**REGISTRATION FEE**

<b>Registration fee for Participants</b>	<b>Till October 1, 2014</b>	<b>After October 1, 2014</b>
For participants from Russia and CIS countries	<b>3 000 RUR</b>	<b>3 500 RUR</b>
For representatives of the budgetary educational institutions	<b>1 500 RUR</b>	<b>1 750 RUR</b>
The external participation (with article publication in the Conference proceedings)	<b>700 RUR</b>	<b>700 RUR</b>
For foreign participants	<b>150 EUR</b>	<b>200 EUR</b>

*The cost of a registration contribution includes:*

- certificate of the participant;
- edition and mailing of the conference proceedings;
- access to all scientific events;
- Conference proceedings;
- coffee breaks;
- MGSU tour

*The organizational fee must be paid till November 1, 2014!*

**TRANSPORT, ACCOMMODATION, FOOD EXPENSES ARE COVERED BY THE SENDING ORGANIZATION OR BY THE PARTICIPANT INDEPENDENTLY.**

**ADVERTISING AT THE CONFERENCE PROGRAMME:**

Publication type	Price without the VAT (RUR)
Logo placement	10 000
Advertizing module	30 000
Advertizing article	50 000

**INFORMATION FOR SPONSORS:**

Organizers of conference address to all who is ready to make the contribution for preparation and carrying out the International scientific conference "Integration, Partnership and Innovations in Construction Science and Education".

**Sponsorship fee of 100 000 rubles includes:**

- Participation in the official opening ceremonies and conference closings, in plenary session;
- Possibility of establishment of own prize and rewarding of participants at the Official closing ceremony of conference;
- Distribution during the conference of the company directory materials;
- Inclusion of the company advertizing information in distributing materials for the participants;
- Sponsor certificate.

**Contact Information:**

International Relations Department

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