

Conference reports

All-Russian Conference with International Participation: “Deep foundations and geotechnical problems”

The All-Russian Conference with International Participation «Deep foundations and geotechnical problems» was held at Perm National Research Polytechnic University, 29 - 31 May 2017.

The organizers of the conference were Russian Academy of Architecture and Construction Sciences, Russian Society for Soil Mechanics, Geotechnics and Foundation Engineering, International Geosynthetics Society, Perm National Research Polytechnic University.

The opening of the conference took place in the conference hall of the university where the rector of PNRPU **Anatoly Tashkinov** addressed the audience with a welcoming speech. He noted that the main message of the conference is connected with problems inherent in a large extent to urban agglomerations. The head of the university noted that the conference is not only a tribute to Professor A. A. Bartolomey, who was the founder of this direction of science in Perm Region, but also the answer to the scientific and practical tasks facing Russian contractors and scientists today.



Photo 1. Rector of PNRPU Anatoly Tashkinov



Photo 2. The conference section

The speeches of the Mayor of the city of Perm **D. I. Samoilov**, the president of RSSMGFE, the vice-president of RAACS Professor **V.A. Ilyichev** and the president of the Kazakhstan Geotechnical Society Professor **A.Zh. Zhussupbekov** were also at the opening.

131 people took part in the conference. The participants of the conference came from universities and research organizations of various regions of Russia, Kazakhstan, Azerbaijan, Ukraine, France, Italy, Germany, Turkey and South Korea. 59 reports were presented at the conference by more than 150 authors, in addition 20 poster presentations were made. The collection of proceedings of the conference was published on a CD disc.

The conference topics covered the following issues:

1. Laboratory and field testing of soils
2. Experimental and theoretical studies of foundations and underground structures
3. Technologies of the reinforcement of foundations and soils
4. Practice of development of underground space, geotechnical monitoring
5. Geosynthetics in geotechnics
6. Educational and methodological issues of training geotechnic engineers

Conference reports

All-Russian Conference with International Participation: “Deep foundations and geotechnical problems” (Con’t)

Plenary reports at the conference were made by:

- **Ilyichev V.A.**, Professor, Doctor of Technical Sciences, President of RSMGFE, Vice-President of RAACS; - “Technological mechanics of soils”;
- **Z.G.Ter-Martirosyan**, Professor, Doctor of Technical Sciences (MGSU, Russia) - “Stress-strain state of deep foundations”;
- **Shin E.C.**, Vice-President of ISSMGE for Asia, Professor (National University of Incheon, South Korea) - “Stability Analysis of Tunnel for Underground Highway”;



Photo 3. Professor **Shin E.C.** during Q&A session



Photo 4. Professor **M. Manassero** during his presentation

- **Zhussupbekov A. Zh.**, Professor, Doctor of Technical Sciences, President of Kazakhstan Geotechnical Society (Eurasian National University, Kazakhstan) - “Modern pile foundations geotechnology and express methods for testing of pile foundations”;
- **Guler E.**, Professor (Bosphorus University, Turkey) - “Advantages of using geosynthetics”;
- **M. Manassero**, Vice-President of ISSMGE Europe, Professor (Polytechnic University of Turin, Italy) - “Modeling of swelling and osmotic properties of clay soils”;
- **R. Katzenbach**, Professor (Technical University of Darmstadt, Germany) - “Optimized design and independent peer review of foundations and other complex underground structures”; and
- **S. Varaksin**, Professor, ISSMGE TC211, (France) - “European contributions to ground improvement related large scale case histories with their quality control procedures and Russian applications”.



Photo 5. On the podium Professor **R. Katzenbach**



Photo 6. Discussion chaired by Professor **S. Varaksin**

Conference reports

All-Russian Conference with International Participation: “Deep foundations and geotechnical problems” (Con’t)

In the course of the conference, modern geotechnologies for the design of foundations in various soils and climate conditions including potentially hazardous areas as well as modern methods of engineering surveys and testing of newly constructed facilities were discussed. The advice provided through practical experience of strengthening the foundations of existing buildings and structures was sound. New materials and technologies in road construction were presented. The results of experimental and theoretical studies in the field of geotechnics and foundation engineering were discussed as well as methods for modeling foundations. The conference was held with the active participation of foreign professors and specialists who shared their research results and valuable experience in developing of the underground space in other abroad countries.

The conference was attended by students in the construction field, graduate students and young scientists of PNRPU, representatives of design and construction organizations in Perm.

The high level of organization and operation of the conference were acknowledged by participants of the conference as well as the level of registration and preparation of all conference materials.



Photo 7. Technical tour of participants in the ethnic village of Khokhlovka

The exchange of views on topical problems of foundation engineering promotes the development of geotechnics, strengthens and expands the ties between specialists in the field of soil mechanics and geotechnics in Russia and other countries.



Photo 8. Conference participants