

**Perm National Research Polytechnic University
Russian Society for Soil Mechanics, Geotechnics and Foundation
Engineering**

**Russian Academy of Architecture and Construction Sciences
Siberian Geotechnical Association**

Ministry of Education and Science of the Perm Territory



**II All-Russian Conference with International Participation
« Deep foundations and geotechnical problems of territories»**



26 - 28 may 2021

Bulletin No. 2

Perm

DEAR COLLEAGUES!

We invite you to take part in the

II All-Russian Conference with International Participation **«Deep foundations and geotechnical problems of territories»**,

Which will take place in *Perm National Research Polytechnic*
University 26 - 28 May 2021

Conference website: <http://dfg2021.pstu.ru/en/>

CONFERENCE TOPICS

1. Laboratory and field soil tests.
2. The practice of the development of underground space, geotechnical monitoring.
3. Foundation construction and soil base reinforcement technologies.
4. Educational and methodical issues of training geotechnical specialists.
5. Geosynthetics in Geotechnics.
6. Experimental and theoretical studies of foundations and underground structures.
7. Highways and engineering structures designing problems.

CONFERENCE ORGANIZING COMMITTEE

- Anatoly Tashkinov. Doctor of Physical and Mathematical sciences professor. Rector of PNRPU.
- Vyacheslav Ilyichev. Doctor of technical science, professor. Head of RSSMGFE. Vice head of RAASN.
- Andrey Ponomarev. Doctor of technical science, professor. Head of the CPG Department, PNRPU.
- Leonid Nuzhdin. PhD. Professor. Chairman of the Association of Siberian Geotechnics.
- Igor Bartolomey. PhD., acting head Department of ADM PNRPU.
- Alla Grishina. Art. Lecturer, PNRPU;
- Svetlana Sazonova. Art. Lecturer, PNRPU.

SCIENTIFIC COMMITTEE

1. Rustamhan Abdikarimov, DSc, Professor, Tashkent Financial Institute (Tashkent, Uzbekistan);
2. Leonid Bartolomey, DSc, Professor,, Tyumen industrial University (Tyumen, Russia);
3. Alexander Bekker, DSc, Professor, Far Eastern Federal University (Vladivostok, Russia);
4. Alexander Bogomolov, DSc, Professor, Volgograd State Technical University (Volgograd, Russia);
5. Gennady Boldyrev, DSc, Professor, Penza State University of Architecture and Construction (Penza, Russia);
6. Heinz Brandl, Dr.techn., Dr.h.c.mult, President of the Austrian Society of Civil Engineers and Architects, Em. Head of Institute for Geotechnics, Vienna University of Technology (Vienna, Austria);
7. Vatin N.I., DSc, Professor, Peter the Great St. Petersburg Polytechnic University (St.-Petersburg, Russia);
8. Ivan Vaníček, DSc. “EN”, professor, Czech Technical University in Prague, (Prague, Czech);
9. Alexey Volosuhin, DSc, Professor, Head of Institute of Hydraulic Structure Safety (Novocherkassk, Russia);
10. Serge Varaksin, professor, Scientific advisor “Apageo”, Head of Technical Committee T212 ISSMGE (France)
11. Fahraddin Gabibov, PhD, professor, Azerbaijan Scientific Research Institute for Construction and Architecture (Baku, Azerbaijan);
12. Vyacheslav Glagovsky, DSc, professor, the B.E. Vedenev All Russia Institute of Hydraulic Engineering (Saint-Petersburg, Russia);
13. Alfred Gotman, DSc, Professor, Vice President, Russian Society for Soil Mechanics, Geotechnics and Foundation Engineering, (Moscow, Russia);
14. Natalya Gotman, DSc, Professor, Russian University of Transport (Moscow, Russia);
15. Erol Güler, Ph.D., M.S., B.S, professor, Bogazici University, Head of Turkish Geosynthetics Society (Istanbul, Turkey);
16. Andrea Dominijanni, Ph.D, professor, Politecnico di Torino (Torino, Italy);
17. Vladimir Dyba, DSc, Professor, Platov South-Russian State Polytechnic University (Novocherkassk, Russia)

18. Askar Zhusupbekov, DSc, Professor, President of Kazakhstan Geotechnical Society (Astana, Kazakhstan);

19. Vladimir Znamensky, DSc, Moscow State University of Civil Engineering, (Moscow, Russia)

20. Rolf Katzenbach, Dr.-Ing., professor Technical University (TU) of Darmstadt (Darmstadt, Germany);

21. Sergey Kudryavtsev, DSc, Professor, Far Eastern State Transport University (Khabarovsk, Russia)

22. Vladimir Lushnikov, DSc, Professor, UralNIIproject, The Russian Academy of Architecture and Construction Sciences, (Ekaterinburg, Russia)

23. Rashid Mangushev, DSc, Professor, Saint Petersburg State University of Architecture and Civil Engineering (Saint-Petersburg, Russia)

24. Mait Mets, PhD, professor, University of Life Sciences Institute of Forestry and Rural Engineering, (Tartu, Estonia)

25. Mario Manassero, PhD, professor, Politecnico di Torino, Vice President of ISSMGE for Europe (Torino, Italy);

26. Sergey Matveev, DSc, Professor, Siberian State Automobile And Highway University (Omsk, Russian Federation)

27. Ilizar Mirsayapov, DSc, Professor, Kazan State University of Architecture and Engineering, (Kazan, Russia)

28. Alexander Nevzorov, DSc, Professor, Northern (Arctic) Federal University, (Arkhangelsk, Russian Federation)

29. Nadezhda Nikiforova, DSc, Professor, Moscow State University of Civil Engineering (Moscow, Russia)

30. Leonid Nuzhdin, PhD, Professor, Novosibirsk State University of Architecture and Civil Engineering, (Novosibirsk, Russian Federation)

31. Alexey Pilyagin, DSc, Professor, Moscow Polytechnic University, Cheboksary Institute (Cheboksary, Russia)

32. Anatoly Polishchuk, DSc, Professor, Kuban State Agrarian University, (Krasnodar, Russia)

33. Yakov Pronozin, DSc, Professor, Tyumen industrial University (Tyumen, Russia)

34. Anatoly Protosyanya, DSc, Professor, Saint-Petersburg Mining University (Saint-Petersburg, Russia)

35. Alexey Savinov, DSc, Professor, Yuri Gagarin State Technical University of Saratov (Saratov, Russia)

36. Vitaly Sergeev, Professor, DSc, Peter the Great St. Petersburg Polytechnic University (St.-Petersburg, Russia)
37. Gennady Skibin, DSc, Professor, Platov South-Russian State Polytechnic University (Novocherkassk, Russia)
38. Zaven Ter-Martirosyan, DSc, Professor, Moscow State University of Civil Engineering, (Moscow, Russia)
39. Armen Ter-Martirosyan, DSc, Moscow State University of Civil Engineering (Moscow, Russia)
40. Askar Hasanov, DSc, professor, Head of UzGA (Tashkent, Uzbekistan)
41. Eun Chul Shin, Ph.D, M.S, professor, Incheon National University, Vice President of ISSMGE for Asia (South Korea)
42. Sven Schwerdt, Dr.-Ing., professor, Magdeburg-Stendal University of Applied Sciences, (Magdeburg, Germany)
43. Oleg Shuliatyev, Deputy Director in charge of research at the Gersevanov R&D Institute for Underground Structures and Facilities (Moscow, Russia)

PRELIMINARY PROGRAM OF THE CONFERENCE

Tuesday 25 May 2021.

Arrival and accommodation of conference participants in hotels in Perm

Wednesday 26 May 2021.

9⁰⁰ -10⁰⁰ – Registration of conference participants (foyer of the 2nd floor of the main building of PNRPU, Komsomolsky prospect, 29)

10⁰⁰ -10³⁰ – Conference opening (PNRPU Academic Council Hall, 4th floor, room 423a).

10³⁰ -13³⁰ – Plenary speeches by invited lecturers (Hall of the Academic Council, 4th floor, room 423a).

Section link: <https://bigbluebutton.pstu.ru/b/dns-d5s-buu-lxy>

1. Pile Load Tests at the deepest foundation piles in Germany. **Rolf Katzenbach**, Dr.-Ing., professor Technical University (TU) of Darmstadt (Darmstadt, Germany);
2. From the Design of Bottom Landfill Liner Systems to the Impact Assessment of Contaminants on Underlying Aquifers. **Mario Manassero**, PhD, professor, Politecnico di Torino, Vice President of ISSMGE for Europe (Torino, Italy);
3. Advantages of Instrumentation of Piles to be Subjected to Pile Loading Test and Practical Solutions. **Erol Guler**, Ph.D., M.S., B.S, professor, Bogazici University, Head of Turkish Geosynthetics Society (Istanbul, Turkey);
4. Numerical analysis and Geomonitoring of Behaviour of Foundation of Abu-Dhabi Plaza in Nur-Sultan. **Askar Zhusupbekov**, DSc, Professor, President of Kazakhstan Geotechnical Society (Astana, Kazakhstan);

5. Settlement and bearing capacity of foundations of finite width. **Zaven G. Ter-Martirosyan**, Doctor of Technical Sciences, Professor, Moscow State University of Civil Engineering, (Moscow, Russia);
6. Foundations of unique buildings and structures built in St. Petersburg over the past 5 years. **Rashid A. Mangushev**, Doctor of Technical Sciences, Professor, SPbGASU, (Saint Petersburg, Russia).

13³⁰-14³⁰ – Lunch break

14³⁰- 16⁰⁰ – **Section of online reports** (Conference hall of the Scientific Council of PNRPU, 4th floor, room 423a)

Section link: <https://bigbluebutton.pstu.ru/b/dns-d5s-buu-lxv>

14³⁰- 16⁰⁰ – **Section "The practice of the development of underground space, geotechnical monitoring "** (Conference hall of the PNRPU dissertation council, 3rd floor, room 345)

16⁰⁰-16³⁰ – Coffee break (ground floor, PNRPU reception hall)

16³⁰- 18³⁰ – **Section " Experimental and theoretical studies of foundations and underground structures"** (Conference hall of the scientific council of PNRPU, 4th floor, room 423a)

16³⁰- 18³⁰ – **Section " Highways and engineering structures designing problems "** (Conference hall of the dissertation council PNRPU, 3rd floor, room 345)

19⁰⁰ – **Banquet in honor of the opening of the conference (ground floor, PNRPU reception hall)**

Thursday 27 May 2021.

10⁰⁰-11³⁰ – **Plenary speeches by invited lecturers (Hall of the Academic Council, 4th floor, room 423a).**

Section link: <https://bigbluebutton.pstu.ru/b/dns-d5s-buu-lxv>

1. History and practical performance of IN SITU TESTS for ground improvement applications. **Serge Varaksin**,

professor, scientific advisor “Apageo”, Head of Technical Committee T212 ISSMGE (France).

2. Geotechnical engineering and alternative aggregates, tailings. *Ivan Vaniček*, DSc. “EN”, professor, Czech Technical University in Prague, (Prague, Czech);

3. Settlement and bearing capacity of pile foundations. *Mait Mets*, PhD, professor, University of Life Sciences Institute of Forestry and Rural Engineering, (Tartu, Estonia).

11³⁰-12⁰⁰ – Coffee break (ground floor, PNRPU reception hall)

12⁰⁰-13³⁰ – Plenary speeches by invited lecturers (Hall of the Academic Council, 4th floor, room 423a).

Section link: <https://bigbluebutton.pstu.ru/b/dns-d5s-buu-lxv>

1. The role of chemico-osmosis in the performance assessment of bentonite-based barriers for contaminant containment. *Andrea Dominijanni*, PhD, professor, Politecnico di Torino (Torino, Italy);

2. Application of substitute building materials in geogrid reinforced soil structures and other civil engineering constructions. *Sven Schwerdt*, Dr.-Ing., professor, Magdeburg-Stendal University of Applied Sciences, (Magdeburg, Germany);

3. Geotechnical monitoring of the bearing capacity of bored foundations of bridges during degradation of the permafrost base. *Sergey Kudryavtsev*, DSc, Professor, Far Eastern State Transport University (Khabarovsk, Russia).

13³⁰-14³⁰ – Lunch break

14³⁰- 16⁰⁰ – Section "Experimental and theoretical studies of foundations and underground structures" (Hall of the Academic Council, 4th floor, room 423a)

14³⁰- 16⁰⁰ – Section " Foundation construction and soil base reinforcement technologies " (Conference hall of the PNRPU dissertation council, 3rd floor, room 345)

16⁰⁰-16³⁰ – Coffee break (ground floor, PNRPU reception hall)

16³⁰ - 18³⁰ – Section "Experimental and theoretical studies of foundations and underground structures"
(Hall of the Academic Council, 4th floor, room 423a)

16³⁰ - 18³⁰ – Section "Laboratory and field testing of soils" (Conference room of the PNRPU dissertation council, 3rd floor, room 345)

Friday 28 May 2021.

10⁰⁰-11⁰⁰ – **Summing up the results of the conference** (Conference Hall of the Scientific Council of PNRPU, 4th floor, room 423a).

11⁰⁰-22⁰⁰ – **Excursion program**

