

## **EXHIBITORS**

# **HENGSHUI ZHENTAI SEISMIC ISOLATION INSTRUMENT CO.,LTD**

CHINA

Introduction: Hengshui Zhentai Seismic Isolation Instrment CO.,Ltd was founded in 1997. It is a professional manufacturer of rubber bearings for building isolation, rubber bearings for equipment isolation, bridge bearings, bridge expansion devices and energy dissipation dampers. After years of development and growth, the company has become the leading enterprise in the field of seismic absorption and isolation in China.

The registered capital of the company is RMB 100 million, covering an area of 150,000 square meters and a building area of more than 55,000 square meters. Zhentai company adopts a modern management model and implements the general manager responsibility system under the leadership of the chairman. There are the chief engineer, deputy general manager of production and deputy general manager of business in charge of technology, quality inspection, production and sales.



# JIANGSU ROAD DAMPING TECHNOLOGY CO., LTD (ROAD)

CHINA

Jiangsu ROAD Damping Technology CO., Ltd (ROAD) is incorporated in China in 2008 and specialized in the shock and vibration control, and supplied more than 20,000 sets of dampers for more than 500 civil and industrial projects for the protection against earthquakes and wind effects in China and abroad.

ROAD is one of the few manufacturers equipped with the 3500kN dynamic load testing machine for viscous fluid dampers, and able to develop and test it's the state-of-the-art products independently.

ROAD, working with its partner, can offer the customized solution as a turnkey Damper contractor for seismically upgrading project by installation of dampers, including the structural design, manufacture, test, supply and installation of dampers.



## ООО «DSHR»

RUSSIA

ООО “DSHR” performs all types of the reconstruction and repair works on the bridge constructions, produces and supplies state-of-the-art-type expansion joints and anti-seismic devices, manufactures elastomeric bridge bearings of any dimensions, spherical bridge bearings. Specialists of the company execute individual client-oriented approach at every stage of the project: design, manufacture, installation and technical maintenance.

## HIRUN INTERNATIONAL CO LTD

CHINA

Hirun International Co.Ltd. Is a specialized company that operates In the field of civil engineering structures to identify the best technical solution supporting structural and architectural designers.

The main topics of Hirun International Co.Ltd. are the design, supply and technical assistance referred to several technologies like:

- Structural bearings
- Seismic devices
- Post tensioning systems
- Expansion joint



## **TİS TEKNOLOJİK İZOLATÖR SİSTEMLERİ SAN. VE TİC. A.Ş.**

TURKEY

TİS Teknolojik İzolatör Sistemleri (Technological Isolation Systems), founded in 2014 in Ankara, Turkey, is the first and only Turkish company that makes design, production and domestic and overseas sale of Friction Pendulum type seismic isolator devices and structural bearings, complying with proper certificates.

In addition to CE Certificate, TİS has the Integrated Management System (IMS), which is formed by combination of ISO 9001, ISO 14001 and OHSAS 18001 procedures. Using this know-how and background, TİS provides reliable and high-quality service.

Operating in a production facility with 50,000 m<sup>2</sup> closed and 200,000 m<sup>2</sup> open space, TİS also has its own isolator test laboratory that can perform different static and dynamic test procedures.

By being capable of not only producing creative and reliable solutions to diverse earthquake and structural engineering problems, but also conducting R&D projects that are supported by various institutions, TİS aims to be one of the leading companies in the seismic devices and structural bearings field, by expanding its export network to the whole world.

**MAURER**

## MAURER

GERMANY, RUSSIA

Today, the strength of MAURER is largely founded on the long tradition of the company. Its history started back in 1876 with Friedrich Maurer in Munich – whose business expanded quickly in this early stage of the most rapid period of industrialization in Germany. At the outset, his craft manufacture focused on the forming of sheet metal, but by the late 19th century, it had transformed into a full-grown metal factory. In 1925, MAURER moved to the North of Munich – where it still remains today. At the time, MAURER had already attracted attention with the first steel and bridge constructions.

When Johannes Beutler acquired the company in the 1930s, it became well known for the construction of airport hangars and gates. By the end of the Second World War, a major part of the manufacturing plants had been destroyed or dismantled. However, in the 1960s, the company restored its former strength: its specialization in bridge construction proved to be the right path for further growth. In 1993, MAURER started to develop and manufacture roller coasters. The next coup followed three years later: after intense research work, MAURER established the business unit Seismic Devices. After factories were founded in Turkey and China in 1999, additional branches in Russia, France and China were set up until 2004.



## THE GERB GROUP

GERMANY, RUSSIA

More than 100 years ago, the history of GERB began when its founder, William Gerb, became fascinated with an idea that others thought could never be successful. He accepted the challenge of using steel springs to protect work areas and surrounding neighbourhoods from machinery vibrations. Since then, the GERB Group of companies has continued to develop this idea, solving dynamic problems in many new fields of application.

Machinery and equipment in power generation and metal forming plants now employ an active vibration isolation system (source isolation), to reduce foundation size and cost. Sensitive measurement and test equipment, and even entire buildings, employ a passive isolation system (receiver isolation) to protect against disturbing vibrations from nearby machines and traffic, or from earthquakes. Both active and passive isolation systems permit easy realignment of the foundation when poor soil conditions cause the foundation to settle.

Tuned mass dampers are a special type of vibration protection, used to stabilize and reduce vibrations on bridges, buildings, stadiums and ships.



## FREYSSINET

ITALY

Founded over 70 years ago by Eugène Freyssinet, the inventor of prestressing, Freyssinet brings together an unrivalled range of skills in the specialist civil engineering sector, offering integrated technical solutions in the fields of construction and structural repair.

Freyssinet is involved in numerous projects across five continents, making it the world leader in its specialist areas of:

- prestressing,
- cable-stayed structures,
- construction methods,
- structural accessories,
- structural repair and strengthening,
- structural maintenance.

These activities are performed on a wide range of structures, including civil engineering structures, buildings, skyscrapers, industrial installations, power production plants, offshore platforms, transport and sporting infrastructure, and more.

Freyssinet is a subsidiary of the Soletanche Freyssinet Group, a world leader in the soils, structures and nuclear sectors. Freyssinet's ambition is to be the reference in the field of specialist construction.

Driven by a strong culture of safety, excellence and performance, our vision is to be the partner of choice in the construction, repair and maintenance of structures.

Through responsible leadership of our men and women, we will strive to be at the forefront of innovation and to anticipate the future needs of our Clients.

Responding to evolving markets, we will pursue our international development combining our global competence with our local networks to further enhance our range of services.



**Тулский МеталлоПрокатный Завод**  
«Стальные решения ваших идей»

## LLC “METAL ROLLING PLANT”

RUSSIA

LLC “Metal Rolling Plant” has been operating since 2013. The basis of the plant is a modern small-grade rolling mill 300 with a capacity of 10 thousand tons per month of hot-rolled products. Our enterprise offers the wide range of high-quality fittings of both classical, and a screw profile, soil anchors, mine support and accessories to them. Production of our plant finds application in such areas as mining, geotechnics, civil, industrial and road construction. For building purposes, the enterprise has developed and produces a unique a screw profile and connecting couplings to it significantly reducing metal content of reinforced concrete structures.



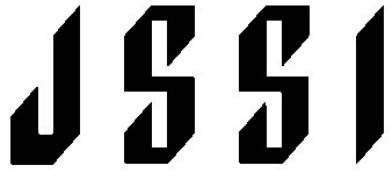


## LLC “INTELTEST”

RUSSIA

LLC “Inteltest” is Russian representative of Bangalore Integrated System Solutions (P) Ltd., (BiSS <http://biss.in>) -leading Indian developer and manufacture of different servo-controlled test systems including shake tables for seismic applications. The experience of over twenty years of innovation allows us to design and produce sophisticated solutions for most exacting customers requirements. High-end control electronics and the software using for seismic applications are allowed us to offer complex solution for controlling up to 3-axis 6 degrees-of-freedom systems to provide most common seismic applications. BiSS is offering wide range of testing solutions for seismic application starting from basic one or two axis testing system up to unique all-in-one design 3 axis 6 DOF system with reaction frame.

LLC “Inteltest” is providing full technical and sales support of BiSS testing systems in Russia and CIS. We’ll be glad to provide you any possible assistance in case of interest in any BiSS testing solution.



The Japan Society of Seismic Isolation

## THE JAPAN SOCIETY OF SEISMIC ISOLATION

JAPAN

The Japan Society of Seismic Isolation promotes seismic isolation (SI), thereby contributes to the construction of safer and higher quality buildings.

\*Disseminating the proper usage of SI and improve SI technology

\*Contribution to the development and improvement of reliable seismic-resistant technology based on standards for safe and quality buildings.



# THE RUSSIAN ASSOCIATION FOR EARTHQUAKE ENGINEERING

RUSSIA

The activity of RAEE is aimed at:

- development of preventive measures to protect the population and territories from natural and manmade impacts, analysis and elimination of their consequences;
- development and implementation of legal and economic norms and standards to ensure the protection of the population and territories from natural and manmade impacts;
- introduction of new technologies in construction to ensure seismic safety of buildings and structures;
- participation in the preparation and implementation of measures to improve the skills of specialists related to the safety and reliability of buildings and structures in seismic regions;
- protecting the property and copyright of the members of the Association;
- organization of information support (conferences, seminars);
- publication of scientific and methodical literature and scientific and technical journal “Earthquake Engineering. Constructions safety”.



## LIRA SOFT

RUSSIA

“LIRA soft” is a team of highly qualified specialists, experts, designers, calculators, analysts and developers who possess advanced technologies and programming methods, innovative approaches to design and calculations.

The company “LIRA soft” is the acting member of SRO Alliance “SPB”. Certificate: no. 573/17 from 28.03.2017.

“LIRA soft” is a Russian developer of the LIRA 10 design complex – a modern and convenient tool for the numerical study of the strength and stability of structures, buildings and structures by the finite element method. The program is designed for modeling and calculation of buildings and structures of any complexity – from simple frames to high-rise buildings and unique structures such as stadiums, airports, etc.

The calculations are made in the form of a report showing all the results: the collection of loads, deflections and displacements, forces and stresses, reinforcement isofield and the percentage of use of metal and reinforced concrete structures, the results of the calculation of stability and dynamic effects, the main conclusions and recommendations. The report on the results of calculations or scientific and technical support can be provided to the state examination and other state and non-state authorities. The calculated model is imported and exported without data loss.

LIRA 10 enables the integration of advanced BIM systems such as Autodesk Revit, Tekla Structures, Renga and others.

Ease of use in combination with a simple and intuitive single interface – the main ideas laid down in the concept of the LIRA 10 software complex.

**ТШНИСК**

ИМ. В.А. КУЧЕРЕНКО

## TSNIISK

RUSSIA

The Institute was founded in 1927 to create and improve the scientific and technical base of the construction complex of the country.

In our Institute were laid the foundations of Russian construction science. The activity of TSNIISK has had a decisive influence on the formation of the most important areas of the theory of strength and reliability. On the basis of the method of limit states, the theory of shells, plasticity, seismic resistance and evaluation of the impact of various dynamic loads modern principles of calculation of all types of building structures were developed. Today TSNIISK successfully works as a division of Joint Stock Company “Research center “Construction”, established by the Federal Agency for state property management in the structure of the Ministry of regional development.

No large-scale construction project in the country is complete without the participation of TSNIISK. Recall, for example, that one of the authors of the project of Luzhniki Large sports arena was a former Director of the Institute V.N. Nasonov. Almost all the old and new sports facilities in Moscow and the capital region were built with the scientific and technical assistance of our scientists. TSNIISK actively worked at the facilities of the 2018 FIFA World Cup. The Association of the leading scientific forces of the construction complex of the Russian Federation and their joint efforts of JSC “SIC “Construction” allow TSNIISK named after V. A. Kucherenko implement the strategic partnership and fruitful cooperation with the Institute of foundations and underground structures named after N. M. Gersevanov (NIIOSP) and Research Institute of concrete and reinforced concrete named after A. A. Gvozdev (NIIZHB).