

**2019 July, 01-06, Saint-Petersburg / 01-06 июля 2019 года, г. Санкт-Петербург**

CITYTEL Hotel «Saint-Petersburg», Pirogovskaya Nab., 5/2 / CITYTEL Отель «Санкт-Петербург», Пироговская наб., 5/2

**16th World Conference on Seismic Isolation, Energy Dissipation and Regulation of Dynamic Characteristics of Structures**

**XIII Российская национальная конференция по сейсмостойкому строительству и сейсмическому районированию  
(с международным участием)**

**PRELIMINARY PROGRAMME / ПРЕДВАРИТЕЛЬНАЯ ПРОГРАММА**

Attention to Participants! This Program could be corrected by the Conference Organizing Committee if necessary depending of specific circumstances

Вниманию участников конференции! Информировем вас о том, что в программу конференции по решению Организационного комитета при необходимости могут вноситься изменения

**Sunday, June, 30/ 30 июня, воскресенье**

<b>Time/ Время</b>	<b>Event/ Мероприятие</b>	<b>Venue/Место проведения</b>	<b>Conference/ Конференция</b>	<b>Note/ Примечание</b>
09:00- 18:00	1. Installation of Exhibition Pavilions and Poster Presentations. Монтаж выставочных павильонов и постерных презентаций	Foyer of the Congress Hall Фойе Конгресс-холла	16WCSI& 13PHKCC (13RNCEE)	Eng/Rus
14:00- 18:00	2. Registration of Conference Participants Регистрация участников конференции			

**Monday, July, 01/ 01 июля, понедельник**

08:00	<b>Registration</b> of Conference participants <b>Регистрация</b> участников конференции	Foyer of the Congress Hall Фойе Конгресс-холла	16WCSI & 13PHKCC (13RNCEE)	Eng/Rus
09:00	<b>Official Opening and Welcome</b> <b>Официальное открытие конференций и приветствия:</b>  <b>Benzoni Gianmario</b> (ASSISi) <b>Vedyakov Ivan</b> (RAEE) <b>Gusev Boris</b> (IEA & REA) <b>Begaliev Ulugbek</b> (IAEEE) <b>Kappos Andreas</b> (EAEE) <b>Khakimov Shamil</b> (JSC «Toshuyjoy LITI») <b>Kostarev Viktor</b> (CVS) <b>Kul'baev Begman</b> (KazNIISA) <b>Kuzmin Alexander</b> (RAACS) <b>Zvezdov Andrei</b> (JSC RCC) <b>Bubis Alexander</b> (RAEE)	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng/Rus
<p><b>PLENARY 1 / ПЛЕНАРНОЕ ЗАСЕДАНИЕ 1</b>  <b>Orals 30 min.</b>  <b>Chairmen: Benzoni Gianmario, Bubis Alexander</b></p>				
10:00- 11:30	<b>Гусев Борис</b> <b>Gusev Boris</b>  Новые подходы к решению проблемы материалов для сейсмоизоляции New Approaches to Solving the Problem of Materials for Seismic Insulation	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
	<b>Ведяков Иван</b> <b>Vedyakov Ivan</b>	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus

	Успешные практики применения металлических конструкций в России Successful Practices of Application of Steel Building Structures in Russia			
	<b>Whittaker David</b>  Recent Developments in New Zealand in Seismic Isolation, Energy Dissipation and Vibration Control of Structures (2019)	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng
<p><b>11:30-12:00 Coffee Break/Кофе-брейк</b> Foyer of the Congress Hall/Фойе Конгресс-Холла</p>				
<p>PLENARY 1, continuation / ПЛЕНАРНОЕ ЗАСЕДАНИЕ 1, продолжение <b>Orals 30 min.</b> <b>Chairmen: Whittaker David, Gusev Boris</b></p>				
12:00- 14:00	<b>Medeot Renzo</b>  Development and Revision of the European Standard EN 15129 on Anti-Seismic Devices	Concert Hall Концертный зал	16WCSI& 13 RNCEE (13 PHKCC)	Eng
	<b>Ansal Atilla, <u>TonukGokce</u>, Kurtulus Ash</b>  Uncertainties in Site Specific Response Analysis	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng
	<b>Martelli Alessandro, <u>Clemente Paolo</u></b>  Recent Applications of Seismic Isolation in Italy	Concert Hall Концертный зал	16WCSI& 13 RNCEE (13 PHKCC)	Eng
	<b>Бубис Александр</b> <b>Bubis Alexander</b>  New Applications of Base Isolation and Energy Dissipation in Russia	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng

	<b>Chien-Chih Chen</b> Shanghai Center Building Introduction of Pendulum Eddy Current Tuned Mass Damper	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng
	<b>Хакимов Шамиль</b> <b>Khakimov Shamil'</b> Новые конструктивные системы жилищно-гражданских зданий и проблемы актуализации сейсмических норм New Structural Systems of Housing and Civil Buildings and Problems of Actualization of Seismic Norms	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
<b>14:00-15:00</b> <b>Lunch (Restaurant «Bering»)</b> Обед (Ресторан «Беринг»)				
<b>PLENARY 1, continuation / ПЛЕНАРНОЕ ЗАСЕДАНИЕ 1, продолжение</b> <b>Orals 30 min.</b> <b>Chairmen: Vedyakov Ivan, Medeot Renzo</b>				
<b>15:00-18:00</b>	<b><u>Белаш Татьяна, Костарев В., Рутман Ю., Уздин А.</u></b> <b><u>Belash Tatiana, Kostarev V., Rutman Yu., Uzdin A.</u></b> Развитие сейсмоизоляции в России Development of Seismoisolation in Russia	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
	<b><u>Demin Feng, Takafumi Miyama, Wenguang Liu</u></b> Certification System of Seismic Isolation Devices in Japan	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng
	<b><u>Kuo-Chun Chang,</u></b> <b><u>Jenn-Shin Hwang,</u></b> <b><u>Shiang-Jung Wang,</u></b> <b><u>Chung-Han Yu ,</u></b>	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng

	<p><b>Wang-Chuen Lin , Cho-Yen Yang</b></p> <p>Recent Progress and Experience in Taiwan on Passive Control Technology and Applications</p>			
	<p><b><u>Тихонов Игорь</u>, Галишникова В.В., Окольников Г.Е., Тихонов Г.И., Кузьменко Н.Ю. Tikhonov Igor, Galishnikova V.V., Okol'nikova G. E., Tikhonov G.I., Kuzmenko N.V.</b></p> <p>Эффективный арматурный прокат с четырехрядным винтовым профилем для сейсмостойкого строительства (производство, исследование, проектирование, применение) Effective Reinforcing Bars with Four-row Screw Profile for Earthquake-resistant Construction (Production, Research, Design, Application)</p>	<p>Concert Hall Концертный зал</p>	<p>16WCSI &amp; 13 RNCEE (13 PHKCC)</p>	<p>Rus</p>
	<p><b>Erdik Mustafa</b></p> <p>State of the Art on Application, R&amp;D and Design Rules for Seismic Isolation and Energy Dissipation in Turkey</p>	<p>Concert Hall Концертный зал</p>	<p>16WCSI &amp; 13 RNCEE (13 PHKCC)</p>	<p>Eng</p>
	<p><b>Кривцов Юрий Krivtsov Yu.</b></p> <p>Обеспечение пожарной безопасности объектов капитального строительства в сейсмоопасных районах Fire Safety of Capital Construction Projects in Earthquake-prone Areas</p>	<p>Concert Hall Концертный зал</p>	<p>16WCSI &amp; 13 RNCEE (13 PHKCC)</p>	<p>Rus</p>
	<p><b>Technical inform</b></p>			

**19:00- 23:00**  
**Welcome Reception for 16WCSI & 13 RNCEE Participants**  
**Restaurant «Bering»**

**Tuesday, July, 2 / 2 июля, вторник**

**PLENARY II / ПЛЕНАРНОЕ ЗАСЕДАНИЕ II**

**Orals 20 min.**

**Chairmen: Taiki Saito, Belash Tatiana, Tyapin Alexander**

09:00-11:30	<b><u>Заалишвили Владислав, Бурдзиева О.</u></b> <b><u>Zaalishvily Vladislav, Burdzieva O.</u></b>  Сейсмический риск современного города SeismicRiskofModernCity	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
	<b><u>Аптикаев Ф.Ф., Эртелева Ольга</u></b> <b><u>Artikaev Felix, Erteleva Olga</u></b>  О строительных нормах нового поколения On the Construction Standards of New Generation	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
	<b><u>Takayama Mineo, Morita Keiko</u></b>  Finite Element Analysis of Laminated Rubber Bearing Compressed by Steel Column with Smaller Cross Section Area than Rubber Bearing	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng
	<b><u>Жарницкий В., Кабанцев Олег, Алипур Мансурхани Али</u></b> <b><u>Zharnitskiy Valerii, Kabantsev Oleg, Alipur Mansurhani Ali</u></b>  Деформационные критерии предельных состояний каменных и железобетонных конструкций сейсмостойких зданий Deformation Criteria of Limit States of Stone and Reinforced Concrete Structures of Earthquake-resistant Buildings	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus

	<b>Алешин Александр</b> <b>Aleshin Alexander</b> «Трудные вопросы» развития сейсмического микрорайонирования "Difficult Issues" of Seismic Microzoning Development	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
	<b><u>Taiki Saito</u>, Kazuhiro Hayashi, Ryuto Doi</b> Shaking Table Test to Verify a New Seismic Response Control System Using Blok& Tackle	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng
	<b>Тяпин Александр</b> <b>Tyapin Alexander</b> Концепция опасного направления сейсмического воздействия: плюсы и минусы The Concept of the Dangerous Direction of Seismic Impact: Pros and Cons	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
<b>11:30-12:00</b> <b>Coffee Break/Кофе-брейк</b> <b>Foyer of the Congress Hall/ ФойеКонгресс - Холл</b>				
<b>KEYNOTE LECTURES</b>				
12:00- 14:00	<b><u>Benzoni Gianmario, Lomiento G., Montuori R.</u></b> Progress on Seismic Isolation and Energy Dissipation	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng
	<b>Lagos Rene</b>	Concert Hall	16WCSI &	Eng

	Seismic Resilience in Concrete High-rise Building Design: the Chilean Perspective	Концертный зал	13 RNCEE (13 PHKCC)	
	<b>Wada Akira</b> Recent Earthquakes and New Concepts for Earthquake-resistant Design	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng
	<b>Kappos Andreas</b> Performance-based Design of Seismically Isolated Bridges	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Eng
<b>14:00-15:00</b> <b>Lunch (Restaurant «Bering») Обед (Ресторан «Беринг»)</b>				
<b>PLENARYII, continuation / ПЛЕНАРНОЕ ЗАСЕДАНИЕ II, продолжение</b> <b>Orals 20min.</b> <b>Chairmen: Shiang-Jung Wang, Begaliev Ulugbek</b>				
15:00- 18:00	<b><u>Кульбаев Бегман, Шокбаров Ералы, Ицков Игорь</u></b> <b><u>Kul'baev Begman, Shokbarov Yeraly, Itskov Igor</u></b>  Современное состояние сейсмостойкого строительства в Республике Казахстан Current State of Seismic Construction in the Republic of Kazakhstan	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
	<b>Ицков Игорь</b>	Concert Hall	16WCSI &	Rus



	<p><b>Itskov Igor</b>  Расчетные положения новых норм Республики Казахстан СП РК 2.03-30-2017 «Строительство в сейсмических зонах»  Settlement Provisions of New Norms of the Republic of Kazakhstan 2.03-30-2017 "Construction in Seismic Zones»</p>	Концертный зал	13 RNCEE (13 PHKCC)	
	<p><b>Абдыбалиев М.К., Сыдыков А.Ж., Бегалиев У.Т., Ицков И.Е.</b>  <b>Abdybaliev M.K., Sydykov A.Zh., Begaliev U.T. Itskov I.E.</b></p> <p>Особенности новых норм Кыргызской Республики в области Сейсмостойкого строительства  Particulars of New Codes of Kyrgyz Republic in the Field of Earthquake Engineering</p>	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
	<p><b><u>Трекин Николай, Кодыш Э.Н., Келасьев Н.Г.</u></b>  <b><u>Trekin Nikolay, Kodysh E.N., Kelasiev N.G.</u></b></p> <p>Использование резервов несущей способности железобетонных конструкций при кратковременном силовом воздействии  Use of Reserves of Bearing Capacity of Reinforced Concrete Structures under Force Impact</p>	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
	<p><b>Тонких Геннадий</b>  <b>Tonkih Gennadiy</b></p> <p>К вопросу использования периода собственных колебаний каркасных зданий при малоинтенсивных воздействиях  To the Question of Using of the Period of Oscillation of Frame Buildings at Low-Intensity Exposure</p>	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
	<p><b>Лалин Владимир</b>  <b>Lapin Vladimir</b></p> <p>Сравнительный анализ влияния сейсмоизоляции с помощью станции инженерно-сейсмометрической службы на зданиях  Comparative Analysis of the Effect of Seismic Isolation by Means of Stations of Engineering Seismometric Service on Buildings</p>	Concert Hall	16WCSI & 13 RNCEE (13 PHKCC)	Rus

	<b>Шокбаров Ералы</b> <b>Shokbarov Yeraly</b> Паспортизация зданий и сооружений города Алматы Certification of buildings and structures of Almaty	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
	<b>Курбацкий Евгений</b> <b>Kurbacky Eugeny</b> Спектры максимальных реакций на землетрясения Spectra of the maximum reactions to the earthquakes	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus
	<b>Technical inform</b>	Concert Hall Концертный зал	16WCSI & 13 RNCEE (13 PHKCC)	Rus/Eng

**22:00-02:00**  
**Evening boat trip on the Neva river (16WCSI)**  
**(with Furshet)**

**Wednesday July, 3 / 3 июля, среда**  
**Parallel Session, Orals 15 min.**

Time/ Время	16WCSI Session 1	16WCSI Session 2	16WCSI Session 3
	<b>Pushkin-Peterhof Hall</b>	<b>Kronshtadt Hall</b>	<b>Pavlovsk Hall</b>
	1. Experimental and analytical study on buildings, bridges and other civil structures applying seismic response control technique	2. Design and application of seismic response control technique to buildings, bridges and other civil structures	3. Observation and monitoring of buildings, bridges and other civil structures applying seismic response control technique 4. Research and development of seismic response control devices, which are innovative, or reliable and low-cost

	<b>Chairman: Benzoni Gianmario</b>	<b>Chairman: Uzdin Alexander</b>	5. Measures against seismic events beyond expectations such as mega-earthquakes, long period earthquakes and vertical motions 6. Standards for design, construction, maintenance  <b>Chairman: Medeot Renzo</b>
09:00	<b><u>Kostarev Viktor</u>, Vaslyev P.S., Vayndrakh M.V., Nawrotzki P.</b>  Developing and Natural Scale Testing of the 3D BCS Base Isolation System	<b><u>Honglei Wu</u>, Changjia Chen, Jieming Ding</b>  Discussion for Key Issues of Isolation Technology Applied in Long-Span Complex Buildings	<b><u>Ue H.</u>, Yamagami S., Misu M., Takayama M.</b>  Performance Verification of Seismic Isolation Devices Used in a Base-Isolated Building for 30 Years
09:15	<b>Nawrotzki P., Kostarev V., <u>Siepe D.</u>, Morozov D.</b>  3-D Base Control Systems for the Seismic Protection of Structures	<b><u>Jian Xu</u>, Xiaobing Wu, Jingwei Zhou, Dingsong Zhou, Jia Zhou</b>  Application of Viscous Dampers in Seismic Design of a Hospital in Sichuan	<b><u>Gokce T.</u>, Yuksel E., Orakdogen E.</b>  The Development of a Seismic Isolation Device for High Voltage Porcelain Isolators
09:30	<b>Yerzhanov Syrymgali</b>  On Some Issues of Taking Account of the Interaction of Seismically Isolating Pile Foundations with Foundation Soil under Seismic Effects	<b><u>Sun Z.</u>, Wang S.G., Liu W.Q., Du D.S., Zhang Z.T.</b>  Mid-story Seismic Isolation Design and Dynamic Analysis of SOHO Ginza	<b>Gokce T., <u>Sahin B.</u>, Sezer B.</b>  Determination of Dynamic Properties of Bowstring R/C Bridges by Using Ambient Vibration Measurements
09:45	<b><u>Cavdar E.</u>, Ozdemir G.</b>	<b>Huber Peter</b>	<b><u>Gokce T.</u>, Sahin B., Orakdogen, E., Yuksel E.</b>

	On the Maximum Ground Motion Direction and Response of Seismically Isolated Structures	Seismic Isolation Protection System for the 1081-Bed Eskişehir City Hospital in Turkey	Seismic Response Prediction and Ground Motion Selection by Using Intensity Measures for Base Isolated Buildings
10:00	<b>Sato Daiki</b>  Estimation Method of Tensile Strain of Laminated Rubber Bearings and Bending Moment of Foundation Beam for Seismically Isolated Building	<b>Cao S.L., Wang Z., Xu Y., Jia L.Y.</b>  Seismic Design of a Widened and Reconstructed T-beam Girder Bridge	<b>Lee B. H., Yeh F. Y., Chen C. C., Shiao S.Y., Chang K. C.</b>  Influence of Vehicle Impact Load on Isolated Bridge
10:15	<b>Furinghetti M., Pavese A.</b>  Comparison Between Radial And Bidirectional Responses of a Base Isolated Building Equipped With Concave Surface Slider Devices	<b>Wang Z., Xu Y., Chen L., Yan H., Cao S.L., Jia L.Y.</b>  Seismic Isolation Design of the Main Bridge of Songpu Bridge	<b>Adzhemyan A., Benzoni G., Lomiento G.</b>  Experimental Model for Double Concave Sliding Bearings
10:30	<b>Li Z.J., Li X.H., Xu X.L., Huang W.G., Cheng M.M.</b>  Parameter Sensitivity Analysis of Isolated Bearings of Continuous Girder Bridge under Far-field Long Period Ground Motion	<b>Sorace S., Terenzi G.</b>  Dissipative Bracing and Base Isolation Design Solutions for New Prefab R/C Structures	<b>Kotsuki S.,</b>  Switched Resistance Oil Damper Depending on Deformation as a Measure against Very Large Earthquakes
10:45	<b>Jiang H.J., Li S.R.</b>	<b>Terenzi G., Costoli I., Sorace S.,</b>	<b>Simbort E.G.</b>

	Study of RC coupled shear wall with replaceable components	<b>Spinelli P.</b>  Application of an Energy-based Design Procedure to the Design of Fluid Viscous Devices in a Dissipative Bracing-based Seismic Retrofit Intervention	Application of Base Isolation for Retrofitting of Educational Building with Masonry Walls in Peru
11:00	<b><u>Chalarca B.</u></b> , <b>Filiatrault A.</b>  Seismic Performance of Steel Moment-Resisting Frame Retrofitted with Linear and Nonlinear Viscous Dampers	<b><u>López-Almansa F.</u></b> , <b>PiscalArévalo C.M.</b>  Proposal of a design code for seismic isolation of buildings in Colombia	<b><u>Simbort E.G.</u></b> , <b>Pinto G.</b>  Improvement of Seismic Performance in Educative RC Building Using Innovative Earthquake – Resistant System
11:15	<b><u>Yakut A.</u></b> , <b>Akyuz U.</b> , <b>Cabuk E.</b> , <b>Murota N.</b> , <b>Suzuki S.</b>  Comparision of Modeling Approaches for High Damping Rubber Bearings	<b><u>Dicleli M.</u></b> , <b>Salem-Milani</b>  A Performance Based Design of Seismic Isolated Bridges in Cold Climates using Multi Directional Torsional Hysteretic Damper and Lubricated Flat Sliding Spherical Bearings	<b><u>Yanagi M.Y.</u></b> , <b>Shimizum S.</b> , <b>Suzuki R.S.</b> , <b>Yasunaga A.Y.</b> , <b>Furuhashi T.Y.</b>  The Characteristics of the Rubber Bearing with Tin Plug
<b>11:30-12:00 Coffee Break/Кофе-брейк Foyer of the Congress Hall/ Фойе Конгресс-холла</b>			
	<b>Chairman:</b> (on the discussion)	<b>Chairmen:</b> <b>Simbort Enrike</b> <b>Kostarev Viktor</b>	<b>Chairman:</b> <b>Huber Peter</b>
12:00	<b>Ozdemir S.</b> , <b><u>Yakut A.</u></b>	<b><u>Mavronicola E.</u></b> , <b><u>Komodromos P.</u></b>	<b>Ishii K.</b> , <b>Kikuchi M.</b>

	A Comparative Study on Methods of Analyses For Seismically Isolated Buildings	Investigation of potential pounding of base isolated buildings under strong near-fault earthquake excitations	Mechanical behavior of sliding bearings for seismic isolation under cyclic loading
12:15	<b>Shuguang W.</b>  Shaking Table Tests of Masonry Structures Strengthened with External Prefabricated Reinforced Concrete Wall and with Adding-story Isolation	<b>Suryadi T., Sihite T.</b>  Seismically Isolated Structure with Lead Rubber Bearing Case Study: Elevated Toll Jakarta-Cikampek II Project	<b>Kikuchi M., Ishii K., Kato H., Nakamura M.</b>  An Analytical Model for Low-shear Modulus High-damping Rubber Isolation Bearings under Large Shear Deformation
12:30	<b><u>De Domenico D.,</u> Deastra P., Ricciardi G., Sims N.D., Wagg D.J.</b>  Improved Seismic Base Isolation Combined with Fluid Inerter and Tuned Mass Damper	<b>Bongiovanni G., Buffarini G., <u>Clemente P.,</u> Saitta F.</b>  Retrofit of Existing Buildings with Seismic Isolation: Design Issues and Applications	<b>Lin J.L.</b>  Top-story mass dampers for seismic control of inelastic asymmetric-plan buildings
12:45	<b><u>De Domenico D.,</u> Ricciardi G., Montanini R. Quattrocchi A., Borsellino C., Infanti S. Benzoni G.</b>  Experimental investigation on the temperature rise of double curved surface sliders and its implications on the hysteretic behavior	<b><u>Bal I. E.,</u> Smyrou E., Sadan O. B., Tuzun C.</b>  Use of Base Isolation Systems against Induced Earthquakes: Case of Groningen	<b>Jianzhong Li, <u>Nailiang Xiang</u></b>  Simplified Method of Designing an Innovative Seismic Isolation System for Highway Bridges: Analytical Study and Experimental Validation
13:00	<b><u>Cavdar E.,</u> Ozdemir G.</b>  On the Maximum Ground Motion Direction and Response of Seismically	<b><u>Jagtap P. S.,</u> Jain R., Matsagar V. A.</b>  Seismic Performance of Floor-Mounted Secondary Systems Housed in Real-Life Base-Isolated Building	<b><u>Takayama M.,</u> Morita K.</b>  Finite Element Analysis of Laminated Rubber Bearing Compressed by Steel Column with

	Isolated Structures	on Double Curvature Friction Pendulum System	Smaller Cross Section Area than Rubber Bearing
13:15	<b><u>Morita K., Takayama M.</u></b>  Experimental Study on Structural Characteristics of Foundations Attached to the Laminated Rubber Bearing	<b><u>Pinto G., Simbort E.G., Gonzales E., Ticona M.</u></b>  Seismic Performance of Curved Isolated PC Bridges Based in Displacement	
13:30	<b>Technical inform</b>	<b>Technical inform</b>	<b>Technical inform</b>
<p><b>14:00-15:00</b></p> <p><b>Lunch (Restaurant «Bering») Обед (Ресторан «Беринг»)</b></p>			
	<b>Chairman:</b> <b>Takayama Mineo</b>	<b>Chairman:</b> <b>Belash Tatiana</b>	<b>Chairman:</b> (on the discussion)
15:00	<b><u>Wang Jue, Ding Zhou</u></b>  Simplified Model for the Seismic Analysis of a Soil- Long Pile Group-Structure System	<b><u>Pinto G., Quispe J.P.</u></b>  Seismic Response Control of Cable-Stayed Bridge Incorporate energy dissipation systems	<b><u>Kinoshita T.</u></b>  Suggestion of Damping Systems for Chandeliers
15:15	<b><u>Aijun Ye, Lianxu Zhou</u></b>  Experimental Investigation on Transverse Steel Damper Seismic System for Cable-Stayed Bridges under Earthquake Sequences	<b><u>Sadan B., Tuzun C., Gokce T., Sahin B.</u></b>  Seismic Retrofit Design of Buildings of a School Campus in Istanbul By Dissipative Towers	<b><u>Chung-Han Yu, Shiang-Jung Wang, Kuo Chun Chang</u></b>  Beyond Design Performance of Viscoelastic Damper
15:30	<b><u>Wang K.J., Chuang M.C., Tsai K.C., Li C.H., Chin P.Y., Chueh S.Y.</u></b>  A Hybrid Simulation on a Steel Panel Damper Substructure with Online Model Updating	<b><u>Kaya M.</u></b>  Techniques for Seismic Strengthening of Historical Monuments	<b><u>Wijanto S., Sengara I.W., Lim E., Andriano T.</u></b>  The Mw 7.4 Palu Earthquake of September 28, 2018

15:45	<b><u>Wang Y.M.</u>, Ma A.C, Tan P.</b>  Eccentricity Influence on Coupling Response and Damage Amplification of Curved Bridges in Earthquakes	<b><u>Chen H.</u>, Chen Y., Tan P.</b>  Response Spectrum Method for the Design of Isolated Buildings	<b>Bhaiya V., Bharti S.D., Shrimali M.K., <u>Datta T.K.</u></b>  Semi-Active Control Using MR Dampers for Random Ground Motion
16:00	<b><u>Di Cesare A.</u>, <u>Ponzo F.C.</u>, Lamarucciola N., <u>Nigro D.</u></b>  Preliminary Nonlinear Analyses of Post-tensioned Timber Framed Building with Dissipative Bracing Systems	<b><u>Sartori M.</u>, Barone S.</b>  Alibeyköy and Kagithane Viaducts: Advanced Seismic Protection Solutions In High Seismicity Region	<b><u>Lu Lyan-Ywan</u>, Lin Ging-Long, Hsiao Kun-An, Wong Ka Fung, Chen Yi-Siang</b>  An Inertial-type Vertical Isolation System with a Smart Friction Damper for Seismic Protection of Equipment
16:15	<b><u>Du YF.</u>, Shi C. Wang Y.L.</b>  Spectral Characteristics of Ground Motion and Analysis of Dynamic Robustness of Base-isolated Structures	<b><u>Barone S.</u>, Sartori M., Suryadi T., Zivanovic I.</b>  Lead Rubber Bearings: a Prominent Application of EN 15129:2009 anti-seismic devices standard beyond Europe	<b><u>Azinović B.</u>, Kramar M., Pazlar T., Kržan M.</b>  Shear Response of Isolated Angle Brackets for Cross Laminated Timber Buildings
16:30	<b>Shrikhande M.</b>  Friction Damper System for Seismic Response Reduction	<b><u>Sartori M.</u>, Barone S.</b>  Seismic Isolation And Post-Tensioning: A Complete Solution for the New Trieste Harbor Logistic Platform	<b>Liu Z.J., Lin T.K., Lu L.Y. Sung Y.C.</b>  Development and Application of a Variable Stiffness Isolation System Considering Ground Motion Characteristic
16:45	<b>Technical inform</b>	<b>Technical inform</b>	<b>Technical inform</b>
<p><b>17:00-22:00</b>  <b>Technical trip for participants of</b>  <b>16WCSI &amp; 13 RNCEE (13 PHKCC)</b></p>			



**Wednesday, July, 3 / 3 июля, среда**

***SPECIAL SESSION ISO WG-13 meeting***

09:00-17:00	<b>ISO WG SESSION</b>	<b>Vyborg Hall</b>	<b>Eng</b>
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**Thursday, July, 4 / 4 июля, четверг**  
**Parallel Session, Orals 15 min.**

	<b>Chairman:</b> <b>Saito Taiki</b>	<b>Chairman:</b> (on the discussion)	<b>Chairman:</b> <b>Hamaguchi Hiroki</b>
09:00	<b><u>Karalar M., Dicleli M.</u></b>  Performance of Steel Framed Buildings Equipped with Viscous Fluid Dampers under Near-Fault Ground Motions with Directivity	<b><u>Kammouh O., Silvestri S., Palermo M., Cimellaro G.</u></b>  Crescent-shaped Brace for Structural Control of Buildings	<b><u>Inoue Y., Kushibe A., Umemura K., Sawaguchi T., Otsuka H., Chiba Y.</u></b>  Tensile and Low-cycle Fatigue Properties of Fe-15Mn-4Si-10Cr-8Ni Alloy for Fatigue-Resistant Seismic Dampers
09:15	<b><u>Dicleli M., Karalar M.</u></b>  Optimum Properties of Seismic Isolation Systems in Highway Bridges to Minimize Isolator Displacements or Substructure Forces	<b><u>Emri Igor, Bek M., Von Bernstorff B., Gusev B.V., Yin Y.L., Chang K.C.</u></b>  The New Generation Earthquake Isolation – a Breakthrough in Performance	<b><u>Li Che, Xue Yan-tao, Yan Wei-ming</u></b>  Study on Damping Effect of Variable Friction Damper with Butterfly Hysteretic Curve
09:30	<b><u>Karalar M., Dicleli M.</u></b>	<b><u>Zelleke Daniel H., Saha S. K., Matsagar V.</u></b>	<b><u>Kushibe A., Inoue Y., Umemura K., Nakamura T., Sawaguchi T., Ohtsuka H., Chiba Y.</u></b>

	Comparative Assessment of the Efficiency of Seismic Isolation for Seismic Retrofitting of Highway Bridges in Regions of Low-to-Moderate Seismicity	Base-Isolation for Response Control of Buildings under Multi-Hazard Condition	Cyclic Loading Tests of Fatigue-resistant Fe-Mn-Si-Based Alloy Seismic Damper
09:45	<b>Sharma V., Shrimali M.K., Bharti S.D., Datta T.K.</b>  Seismic Energy Dissipation in Semi-rigid Connected Steel Frames	<b>Smirnova Luybov Sukonnikova T. V.</b>  The Experience of Bridge Seismic Isolation in Russia	<b>Cimellaro G.P., Domaneschi M., Warn G.</b>  A new Vertical Base Isolation System
10:00	<b>Zhi Jun Lyu</b>  Numerical Evaluation of the Seismic response of steel storage rack Beam-to-Column Connections by Finite Element Analysis	<b>Pavlidou C., Komodromos P.</b>  Influence of Earthquake Characteristics on the Peak Seismic Response of a Base Isolated Steel Building	<b>Pourmasoud M.M., Lim J., Hajirasouliha I., McCrum D.</b>  A Multi-Directional Isolation System for Multi-Storey Buildings under Coupled Horizontal and Vertical Seismic Excitations
10:15	<b>Sadan B., Erdik M., Tuzun C., Ozcanli M.E.</b>  Tensile Behavior of Rubber Isolators and Solutions to Overcome Tension Problem	<b>Technical inform</b>	<b>Wake T., Kikuchi M., Ishii K.</b>  New Evaluation Formulae for Shear Strength of Lead-Rubber Bearings
10:30	<b>Mori T., Maruyama K., Kato H., Murota N.</b>  Deformation-History Integral Type Hysteresis Model Considering Performance Change for High-Damping Rubber Bearings		<b>Ogino N.O., Kikuchi M.K., Okamoto M.O.</b>  High-performance Oil Dampers for Seismically Isolated Structures to Counter Extremely Strong Earthquake Ground Motions
10:45	<b>Tuzun C., Sadan B., Erdik M., Murota N., Suzuki S., Akkar S.</b>		<b>Sharma V., Shrimali M. K., Bharti S. D., Datta T. K.</b>

	A Feasibility Study of Seismic Isolation Application in Residential Buildings in Turkey		Energy Dissipation and Seismic Response Evaluation of Semi-rigid Steel frames at Various Performance Levels
11:00	<b>Kolesnikov A.</b>  Calculation of structures with seismic isolation using LIRA 10.8		<b><u>Hamaguchi H.</u>, Yamamoto S., Wake T., Kikuchi M.</b>  A Seismic Isolation System with High Safety Margin in Earthquakes Exceeding Design Level
11:15	<b><u>Jeong Y.H.</u>, Song J.K., Hong J.Y., Lee C.J.</b>  Seismic Fragility Analysis of Existing Old Bridges Retrofitted by Seismic Isolation System in South Korea		
	<b>Technical inform</b>		<b>Technical inform</b>
<p><b>11:30-12:00 Coffee Break/Кофе-брейк</b>  <b>Foyer of the Congress Hall / Фойе Конгресс-холла</b></p> <p><b>12:00-12:30 POSTER SESSION</b>  <b>Foyer of the Congress Hall / Фойе Конгресс-холла</b></p>			
	<b>Chairman: Demin Feng</b>		
12:30	<b><u>Ye D.H.</u>, <u>Chen Y.Y.</u>, Qian Z.C., Huang X.Y., Tan P.</b>  Seismic Performance of Nonlinear Energy Sink with Negative Stiffness and Sliding		

	Friction		
12:45	<b>Verma A., <u>Sahoo D.R.</u></b>  Slow-cyclic Test of Steel Plate Shear Wall with Floor Slab		
13:00	<b>Ghowsi A. F., <u>Sahoo D. R.</u></b>  Pushover Analyses of Steel self-Centering Buckling-restrained Braced Frames		
13:15			
13:30			
13:45	<b>Technical inform</b>		
<b>14:00-15:00</b> <b>Lunch (Restaurant) Обед (Ресторан)</b>			
<b>15:00-19:00</b> <b>Sightseeing tour of Saint-Petersburg (16WCSI)</b>			
<b>19:00 - 24:00</b> <b>Close ceremony</b> <b>Fregat «Blagodat'»</b>			

**Poster Session 01-05 July**  
**Foyer of the Congress Hall/ Фойе Конгресс-холла**

**1. Behrami R., Ristic D., Hristovski V., Ristic J.**

The New Uniform VF-energy Dissipation Device: Refined Modelling

**2. Bhandari M., Gupta A., Bharti S. D., Shrimali M. K.**

Seismic Performance of Base-isolated Frame Subjected to Near-field Earthquakes

**3. Bhandari M., Jain A.K., Shrimali M.K., Datta T.K.**

A New Lateral Load Pattern for the Pushover Analysis of Base-isolated Building Frame

**4. Bharti S. D. , Bhandari M., Jaswant N., Arlekar Murty C V R, Ram Niwas Sharma**

Seismic Performance of Fixed Base and Base-isolated Building Frame

**5. Bharti S. D. , Bhandari M., Shrimali MK, Datta T.K., Ram Niwas Sharma, C V R Murty**

Seismic Performance Evaluation by Capacity Spectrum Method for Base-isolated Frames

**6. Chaulagain Nabin Raj, Sun Chang Ho, Kim Ick Hyun**

Seismic Fragility Analysis of Spherical Storage Tank with Simplified Finite Element Model

**7. Chen H., Chen Y., Tan P.**

Response Spectrum Method for the Design of Isolated Buildings

**8. Dongsheng D.**

Evolutionary Power Spectral Model for the Fully Non-stationary Ground Motions and its Engineering Application

**9. JieGao**

Experimental Study of Seismic Behavior of Precast Concrete Layered Slab and Beam to Column Interior Joints

**10. Luo D.Y., Sun J.G., Liu C.G., Cui L.F., Wang Z., Lü Y.**

Study on Seismic Response of Isolated LNG storage Tank Considering Insulation

**11. Lü Y., Sun J.G., Sun Z.G., Cui L.F., Wang Z., Luo D.Y.**

Research on Variable Curvature Rolling Isolation of Horizontal Storage Tanks

**12. Mendo A., Fernández-Dávila V.**

Proposal for the Design Displacement Estimating of Seismic Isolation Systems in Peru

**13. Ristic J., Ristic D., Behrami R.**

The New Uniform VF-energy Dissipation Device: Prototype Testing

**14. Shuguang W.**

Shaking Table Tests of Masonry Structures Strengthened with External Prefabricated Reinforced Concrete Wall and with Adding-story Isolation

**15. Villalba-Morales J. D., Benavent-Climent Amadeo, Lopez-Almansa Francisco, Escolano-Margarit David**

A Heuristic Approach for Optimal Design of Brace-type Hysteretic Dissipators for Seismic Protection of Framed Buildings

**16. VolkanOzsarac, Shaghayegh Karimzadeh, Aysegul Askan**

Comparison of Structural Responses for a Base Isolated Building under Real and Simulated Records

**17. Vern S., Shrimali M.K., Bharti S.D., Datta T.K.**

Response Control of Base Isolated Liquid Storage Tank under Bi-directional Earthquake

**18. Wu A.C., Tsai K.C., Chen L.W.**

Experimental Study on Out-of-plane Stability of Buckling-restrained Braces

**19. Nefize Shaban, Shaghayegh Karimzadeh, Aysegul Askan**

Investigation on the Effectiveness of Dampers for Retrofitting Through Seismic Response Analyses under Real and Simulated Motions

### Registered, but yet unpaid reports

Session 1	Session 2	Session 3,4,5,6
<p><b><u>Jian Wang, Jinping Ou</u></b> Hybrid Control to Enhance Wind and Seismic Performance of Twin Tall Buildings with a Sky Bridge</p>	<p><b><u>Antonopoulos T.A., Anagnostopoulos S.A.</u></b> Seismic Protection of Existing Open Ground Story RC (Pilotis) Buildings: A Proposed Simplified Model for Optimum Partial Strengthening Solutions</p>	<p><b><u>Noemi Bonessio, Giuseppe Lomiento</u></b> Cellular materials for seismic isolation</p>
<p><b>Meng X.</b> Dynamic Response of Liquid Storage Tank with Bearing Isolation on Elastic Soil</p>	<p><b><u>Elias S., Rupakhety R., Olafsson S.</u></b> Effectiveness of Non-Linear Tuned Mass Absorbers and Tuned Liquid Absorbers for Control of Buildings under Earthquakes</p>	<p><b><u>Reyna R., Munoz A., Zavala C., Diaz M.</u></b> Numerical Simulation of Low-Cost Seismic Isolator Using Different Hysteresis Models</p>
<p><b>Wei Gong, ShishuXiong, Ping Tan</b> Shaking Table Test of Pseudo-negative-stiffness Control of a Base Isolated Building Employing MR Damper</p>	<p><b><u>Ulker O., Erdik M. O.</u></b> Structural Design of the 430.000 Sqm Hospital Supported on 1552 Seismic Isolators</p>	<p><b><u>Mohamed Noureldin, Kim Jinkoo</u></b> Seismic Fragility Evaluation of Structures Retrofitted with Self-Centering Pre-Cast Concrete Frames</p>

<b><u>Yang C.Y., Ma Y.C.</u></b> Applying hybrid test method in studying seismic response of frame structure with self-centering energy dissipation device	<b><u>Ulker O., Erdik M. O.</u></b> Retrofit of a 100 Meter Tall Stack Using Tuned Mass Supported on Seismic Isolators	<b>Kou Miyamoto</b> An Extended Equivalent-input-disturbance Approach for Active Structural Control Focusing on Absolute Acceleration and Inter-story-drift Angle
<b>Guan Z. G.</b> Experimental investigation on seismic behavior of bridges with pile-group foundations allowing uplift and rocking of pile cap	<b><u>Garrido C.A., Fernández-Dávila V.I.</u></b> Seismic Response Evaluation of Asymmetric RC Buildings Isolated with LRB and TFP Systems	<b><u>Peng T.B., Ni Y.H.</u></b> A New Seismic Design Method of Simply Supported Girder Bridges for Very Rare Ground Motions in the Transverse Direction
		<b><u>Zulfikar A.C., Yilmaz C., Nagaoka T., Takahashi O.</u></b> The Effect of Long Period Ground Motions on High-Rise Buildings and Use of Damping Devices

**Friday, July, 5 / 5 июля, пятница**

<b>Time/ Время</b>	<b>Event/ Мероприятие</b>	<b>Venue/Место проведения</b>	<b>Conference/Конференция</b>	<b>Note/ Примечание</b>
10:00 - 13:00	<b>ASSISi meeting</b>	St. Petersburg Hall	16WCSI	
10:00 - 13:00	<b>The Round Table Discussion</b>	Strel'na Hall	13HKCC	

**Saturday, July, 6 / 6 июля, суббота**

**Departure of the conference participants**