**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! Информируем вас о том, что в программу конференции по решению Организационного комитета при необходимости могут вноситься изменения

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| **Sunday, June, 30/ 30 июня, воскресенье** |
| **Time/****Время** | **Event/ Мероприятие** | **Venue/Место проведения** | **Conference/****Конференция** | **Note/ Примечание** |
| 09:00-18:0014:00-18:00 | 1. Installation of Exhibition Pavilions and Poster Presentations.Монтаж выставочных павильонов и постерных презентаций2. Registration of Conference ParticipantsРегистрация участников конференции | Foyer of the Congress HallФойе Конгресс-холла | 16WCSI&13РНКСС (13RNCEE) | Eng/Rus |
| **Monday, July, 01/ 01 июля, понедельник** |
| 08:00 | **Registration** of Conference participants**Регистрация** участников конференции | Foyer of the Congress HallФойе Конгресс-холла | 16WCSI &13РНКСС (13RNCEE) | Eng/Rus |
| 09:00 | **Official Opening and Welcome****Официальное открытие конференций и приветствия:****Benzoni Gianmario** (ASSISi)**Vedyakov Ivan** (RAEE)**Gusev Boris** (IEA & REA)**Begaliev Ulugbek** (IAEEE)**Kappos Andreas** (EAEE)**Khakimov Shamil**  (JSC «Toshuyjoy LITI»)**Kostarev Viktor** (CVS)**Kul’baev Begman** (KazNIISA)**Kuzmin Alexander** (RAACS)**Zvezdov Andrei (**JSC RCC)**Bubis Alexander** (RAEE) | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng/Rus |
| **PLENARY 1 / ПЛЕНАРНОЕ ЗАСЕДАНИЕ 1****Orals 30 min.****Chairmen: Benzoni Gianmario, Bubis Alexander** |
| 10:00-11:30 | **Гусев Борис****Gusev Boris**Новые подходы к решению проблемы материалов для сейсмоизоляцииNew Approaches to Solving the Problem of Materials for Seismic Insulation | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Ведяков Иван****Vedyakov Ivan**Успешные практики применения металлических конструкций в РоссииSuccessful Practices of Application of Steel Building Structures in Russia | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Whittaker David**Recent Developments in New Zealand in Seismic Isolation, Energy Dissipation and Vibration Control of Structures (2019) | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
| **11:30-12:00 Сoffee Break/Кофе-брейк**Foyer of the Congress Hall/Фойе Конгресс-Холла |
| PLENARY 1, сontinuation / ПЛЕНАРНОЕ ЗАСЕДАНИЕ 1, продолжение**Orals 30 min.****Chairmen: Whittaker David, Gusev Boris** |
| 12:00-14:00 | **Medeot Renzo**Development and Revision of the European Standard EN 15129 on Anti-Seismic Devices | Concert HallКонцертный зал | 16WCSI&13 RNCEE(13 РНКСС) | Eng |
|  | **Ansal Atilla, TonukGokce, Kurtulus Aslı**Uncertainties in Site Specific Response Analysis | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
|  | **Martelli Alessandro, Clemente Paolo**Recent Applications of Seismic Isolation in Italy | Concert HallКонцертный зал | 16WCSI&13 RNCEE(13 РНКСС) | Eng |
|  | **Бубис Александр****Bubis Alexander**New Applications of Base Isolation and Energy Dissipation in Russia | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
|  | **Chien–Chih Chen**Shanghai Center Building Introduction of Pendulum Eddy Current Tuned Mass Damper | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
|  | **Хакимов Шамиль****Khakimov Shamil’**Новые конструктивные системы жилищно-гражданских зданий и проблемы актуализации сейсмических нормNew Structural Systems of Housing and Civil Buildings and Problems of Actualization of Seismic Norms | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
| **14:00-15:00****Lunch (Restaurant «Bering»)Обед (Ресторан «Беринг»)** |
| **PLENARY 1, сontinuation / ПЛЕНАРНОЕ ЗАСЕДАНИЕ 1, продолжение****Orals 30 min.****Chairmen: Vedyakov Ivan, Medeot Renzo** |
| **15:00-18:00** | **Белаш Татьяна, Костарев В., Рутман Ю., Уздин А.****BelashTatiana, Kostarev V., RutmanYu., UzdinA.**Развитие сейсмоизоляции в РоссииDevelopment of Seismoisolation in Russia | Concert HallКонцертный зал | 16WCSI&13 RNCEE(13 РНКСС) | Rus |
|  | **Demin Feng, Takafumi Miyama, Wenguang Liu**Certification System of Seismic Isolation Devices in Japan | Concert HallКонцертный зал | 16WCSI&13 RNCEE(13 РНКСС) | Eng |
|  | **Kuo-Chun Chang,** **Jenn-Shin Hwang,** **Shiang-Jung Wang**,**Chung-Han Yu ,** **Wang-Chuen Lin ,** **Cho-Yen Yang**Recent Progress and Experience in Taiwan on Passive Control Technology and Applications | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
|  | **Тихонов Игорь, Галишникова В.В., Окольникова Г.Е., Тихонов Г.И., Кузьменко Н.Ю.****Tikhonov Igor, Galishnikova V.V., Okol'nikova G. E., Tikhonov G.I., Kuzmenko N.V.**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) | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Erdik Mustafa**State of the Art on Application, R&D and Design Rules for Seismic Isolation and Energy Dissipation in Turkey | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
|  | **Кривцов Юрий** **Krivtsov Yu.**Обеспечение пожарной безопасности объектов капитального строительства в сейсмоопасных районахFire Safety of Capital Construction Projects in Earthquake-prone Areas | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Technical inform** |
| **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 | **Заалишвили Владислав, Бурдзиева О.****Zaalishvily Vladislav, Burdzieva O.**Сейсмический риск современного городаSeismicRiskofModernCity | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Аптикаев Ф.Ф., Эртелева Ольга****Aptikaev Felix, Erteleva Olga****О** строительных нормах нового поколенияOn the Construction Standards of New Generation | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Takayama Mineo, Morita Keiko**Finite Element Analysis of Laminated Rubber Bearing Compressed by Steel Column with Smaller Cross Section Area than Rubber Bearing | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
|  | **Жарницкий В., Кабанцев Олег, Алипур Мансурхани Али****Zharnitskiy Valerii, Kabantsev Oleg**, **Alipur Mansurhani Ali**Деформационные критерии предельных состояний каменных и железобетонных конструкций сейсмостойких зданийDeformation Criteria of Limit States of Stone and Reinforced Concrete Structures of Earthquake-resistant Buildings | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС | Rus |
|  | **Алешин Александр****Aleshin Alexander**«Трудные вопросы» развития сейсмического микрорайонирования"Difficult Issues" of Seismic Microzoning Development | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Taiki Saito, Kazuhiro Hayashi, Ryuto Doi**Shaking Table Test to Verify a New Seismic Response Control System Using Blok& Tackle | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
|  | **Тяпин Александр****Tyapin Alexander**Концепция опасного направления сейсмического воздействия: плюсы и минусыThe Concept of the Dangerous Direction of Seismic Impact: Pros and Cons | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
| **11:30-12:00** **Сoffee Break/Кофе-брейк****Foyer of the Congress Hall/ ФойеКонгресс - Холл** |
| ***KEYNOTE LECTURES*** |
| 12:00-14:00 | **Benzoni Gianmario, Lomiento G., Montuori R.**Progress on Seismic Isolation and Energy Dissipation | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
|  | **Lagos Rene**Seismic Resilience in Concrete High-rise Building Design: the Chilean Perspective | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
|  | **Wada Akira**Recent Earthquakes and New Concepts for Earthquake-resistant Design | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
|  | **Kappos Andreas**Performance-based Design of Seismically Isolated Bridges | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Eng |
| **14:00-15:00****Lunch (Restaurant «Bering») Обед (Ресторан «Беринг»)** |
| **PLENARYII, сontinuation / ПЛЕНАРНОЕ ЗАСЕДАНИЕ II, продолжение****Orals 20min.****Chairmen: Shiang-Jung Wang, Begaliev Ulugbek** |
| 15:00-18:00 | **Кульбаев Бегман, Шокбаров Ералы, Ицков Игорь****Kul’baev Begman, Shokbarov Yeraly, Itskov Igor**Современное состояние сейсмостойкого строительства в Республике КазахстанCurrent State of Seismic Construction in the Republic of Kazakhstan | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Ицков Игорь****Itskov Igor**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» | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Абдыбалиев М.К., Сыдыков А.Ж., Бегалиев У.Т., Ицков И.Е.****Abdybaliev M.K., Sydykov A.Zh., Begaliev U.T. Itskov I.E.**Особенности новых норм Кыргызской Республики в областиСейсмостойкого строительстваParticulars of New Codes of Kyrgyz Republic in the Field ofEarthquake Engineering | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Трекин Николай, Кодыш Э.Н., Келасьев Н.Г.****Trekin Nikolay, Kodysh E.N., Kelasiev N.G.**Использование резервов несущей способности железобетонных конструкций при кратковременном силовом воздействииUse of Reserves of Bearing Capacity of Reinforced Concrete Structures under Force Impact | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Тонких Геннадий** **Tonkih Gennadiy**К вопросу использования периода собственных колебаний каркасных зданий при малоинтенсивных воздействияхTo the Question of Using of the Period of Oscillation of Frame Buildings at Low-Intensity Exposure | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Лапин Владимир****LapinVladimir**Cравнительный анализ влияния сейсмоизоляции с помощьюстанции инженерно-сейсмометрической службы на зданияхСomparative Analysis of the Effect of Seismic Isolation by Means of Stations of Engineering Seismometric Service on Buildings | Concert Hall  | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Шокбаров Ералы****Shokbarov Yeraly**Паспортизация зданий и сооружений города АлматыCertification of buildings and structures of Almaty | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Курбацкий Евгений****Kurbacky Eugeny**Спектры максимальных реакций на землетрясенияSpectra of the maximum reactions to the earthquakes | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС) | Rus |
|  | **Technical inform** | Concert HallКонцертный зал | 16WCSI &13 RNCEE (13 РНКСС | 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****Pushkin-Peterhof Hall**1. Experimental and analytical study on buildings, bridges and other civil structures applying seismic response control technique**Chairman:****Benzoni Gianmario** | **16WCSI Session 2****Kronshtadt Hall**2. Design and application of seismic response control technique to buildings, bridges and other civil structures**Chairman:****Uzdin Alexander** | **16WCSI Session 3****Pavlovsk Hall**3.Observation and monitoring of buildings, bridges and other civil structures applying seismic response control technique4. Research and development of seismic response control devices, which are innovative, or reliable and low-cost5. Measures against seismic events beyond expectations such as mega-earthquakes, long period earthquakes and vertical motions6. Standards for design, construction, maintenance**Сhairman:****Medeot Renzo** |
| 09:00 | **Kostarev Viktor, Vaslyev P.S., Vayndrakh M.V., Nawrotzki P.**Developing and Natural Scale Testing of the 3D BCS Base Isolation System | **Honglei Wu,** **Changjia Chen,****Jieming Ding**Discussion for Key Issues of Isolation Technology Applied in Long-Span Complex Buildings | **Ue H.,** **Yamagami S.,****Misu M.,** **Takayama M.**Performance Verification of Seismic Isolation Devices Used in a Base-Isolated Building for 30 Years |
| 09:15 | **Nawrotzki P.,** **Kostarev V.,****Siepe D.,** **Morozov D.**3-D Base Control Systems for the Seismic Protection of Structures | **Jian Xu,** **Xiaobing Wu,** **Jingwei Zhou,** **Dingsong Zhou,** **Jia Zhou**Application of Viscous Dampers in Seismic Design of a Hospital in Sichuan | **Gokce T.,** **Yuksel E.,** **Orakdogen E.**The Development of a Seismic Isolaton Device for High Voltage Porcelain Isolators |
| 09:30 | **Yerzhanov Syrymgali**On Some Issues of Taking Account of the Interaction of Seismically Isolating Pile Foundations with Foundation Soil under Seismic Effects | **Sun Z.,** **Wang S.G.,** **Liu W.Q.,** **Du D.S.,** **Zhang Z.T.**Mid-story Seismic Isolation Design and Dynamic Analysis of SOHO Ginza | **Gokce T.,** **Sahin B.,** **Sezer B.**Determination of Dynamic Properties of Bowstring R/C Bridges by Using Ambient Vibration Measurements |
| 09:45 | **Cavdar E.,** **Ozdemir G.**On the Maximum Ground Motion Direction and Response of Seismically Isolated Structures | **Huber Peter** Seismic Isolation Protection System for the 1081-Bed Eskişehir City Hospital in Turkey | **Gokce T., Sahin B., Orakdogen, E., Yuksel E.**Seismic Response Prediction and Ground Motion Selection by Using Intensity Measures for Base Isolated Buildings |
| 10:00 | **Sato Daiki**Estimation Method of Tensile Strain of Laminated Rubber Bearings and Bending Moment of Foundation Beam for Seismically Isolated Building | **Cao S.L.,** **Wang Z.,** **Xu Y.,** **Jia L.Y.** Seismic Design of a Widened and Reconstructed T-beam Girder Bridge | **Lee B. H.,** **Yeh F. Y.,****Chen C. C.,** **Shiao S.Y.,** **Chang K. C.**Influence of Vehicle Impact Load on Isolated Bridge |
| 10:15 | **Furinghetti M.,** **Pavese A.**Comparison Between Radial And Bidirectional Responses of a Base Isolated Building Equipped With Concave Surface Slider Devices | **Wang Z.,** **Xu Y.,** **Chen L.,** **Yan H.,** **Cao S.L.,** **Jia L.Y.** Seismic Isolation Design of the Main Bridge of Songpu Bridge | **Adzhemyan A.,** **Benzoni G.,** **Lomiento G.**Experimental Model for Double Concave Sliding Bearings |
| 10:30 | **Li Z.J.,** **Li X.H.,** **Xu X.L.,** **Huang W.G.,****Cheng M.M.**Parameter Sensitivity Analysis of Isolated Bearings of Continuous Girder Bridge under Far-field Long Period Ground Motion | **Sorace S.,** **Terenzi G.**Dissipative Bracing and Base Isolation Design Solutions for New Prefab R/C Structures | **Kotsuki S.,** Switched Resistance Oil Damper Depending on Deformation as a Measure against Very Large Earthquakes |
| 10:45 | **Jiang H.J.,****Li S.R.**Study of RC coupled shear wall with replaceable components | **Terenzi G.,** **Costoli I.,** **Sorace S.,** **Spinelli P.**Application of an Energy-based Design Procedure to the Design of Fluid Viscous Devices in a Dissipative Bracing-based Seismic Retrofit Intervention | **Simbort E.G.** Application of Base Isolation for Retrofitting of Educational Building with Masonry Walls in Peru |
| 11:00 | **Chalarca B.,** **Filiatrault A.**Seismic Performance of Steel Moment-Resisting Frame Retrofitted with Linear and Nonlinear Viscous Dampers | **López-Almansa F.,** **PiscalArévalo C.M.** Proposal of a design code for seismic isolation of buildings in Colombia | **Simbort E.G.,****Pinto G.**Improvement of Seismic Performance in Educative RC Building Using Innovative Earthquake – Resistant System |
| 11:15 | **Yakut A.,** **Akyuz U.,** **Cabuk E.,** **Murota N.,** **Suzuki S.**Comparision of Modeling Approaches for High Damping Rubber Bearings | **Dicleli M., Salem-Milani**A Performance Based Design of Seismic Isolated Bridges in Cold Climates using Multi Directional Torsional Hysteretic Damper and Lubricated Flat Sliding Spherical Bearings | **Yanagi M.Y.,** **Shimizum S.,** **Suzuki R.S.,** **Yasunaga A.Y.,** **Furuhashi T.Y.**The Characteristics of the Rubber Bearing with Tin Plug |
| **11:30-12:00 Сoffee Break/Кофе-брейк****Foyer of the Congress Hall/ Фойе Конгресс-холла** |
|  | **Chairman:**(on the discussion) | **Chairmen:****Simbort Enrike****Kostarev Viktor** | **Chairman:****Huber Peter** |
| 12:00 | **Ozdemir S.,** **Yakut A.**A Comparative Study on Methods of Analyses For Seismically Isolated Buildings | **Mavronicola E.,** **Komodromos P.**Investigation of potential pounding of base isolated buildings under strong near-fault earthquake excitations | **Ishii K.,** **Kikuchi M.**Mechanical behavior of sliding bearings for seismic isolation under cyclic loading |
| 12:15 | **Shuguang W.**Shaking Table Tests of Masonry Structures Strengthened with External Prefabricated Reinforced Concrete Wall and with Adding-story Isolation | **Suryadi T.,** **Sihite T.** Seismically Isolated Structure with Lead Rubber Bearing Case Study: Elevated Toll Jakarta-Cikampek II Project | **Kikuchi M.,** **Ishii K.,** **Kato H.,** **Nakamura M.**An Analytical Model for Low-shear Modulus High-damping Rubber Isolation Bearings under Large Shear Deformation |
| 12:30 | **De Domenico D., Deastra P.,****Ricciardi G., Sims N.D.,** **Wagg D.J.**Improved Seismic Base Isolation Combined with Fluid Inerter and Tuned Mass Damper | **Bongiovanni G.,****Buffarini G.,** **Clemente P.,** **Saitta F.** Retrofit of Existing Buildings with Seismic Isolation: Design Issues and Applications | **Lin J.L.**Top-story mass dampers for seismic control of inelastic asymmetric-plan buildings |
| 12:45 | **De Domenico D.,** **Ricciardi G.,****Montanini R.****Quattrocchi A.,** **Borsellino C.,** **Infanti S.****Benzoni G.**Experimental investigation on the temperature rise of double curved surface sliders and its implications on the hysteretic behavior  | **Bal I. E.,** **Smyrou E.,** **Sadan O. B.,****Tuzun C.**Use of Base Isolation Systems against Induced Earthquakes: Case of Groningen | **JIanzhong Li,** **Nailiang Xiang**Simplified Method of Designing an Innovative Seismic Isolation System for Highway Bridges: Analytical Study and Experimental Validation |
| 13:00 | **Cavdar E., Ozdemir G.**On the Maximum Ground Motion Direction and Response of Seismically Isolated Structures | **Jagtap P. S.,** **Jain R.,** **Matsagar V. A.**Seismic Performance of Floor-Mounted Secondary Systems Housed in Real-Life Base-Isolated Building on Double Curvature Friction Pendulum System | **Takayama M.,** **Morita K.**Finite Element Analysis of Laminated Rubber Bearing Compressed by Steel Column with Smaller Cross Section Area than Rubber Bearing |
| 13:15 | **Morita K., Takayama M.**Experimental Study on Structural Characteristics of Foundations Attached to the Laminated Rubber Bearing | **Pinto G.,** **Simbort E.G.** ,**Gonzales E.,****Ticona M.**Seismic Performance of Curved Isolated PC Bridges Based in Displacement |  |
| 13:30 | **Technical inform** | **Technical inform** | **Technical inform** |
| **14:00-15:00****Lunch (Restaurant «Bering») Обед (Ресторан «Беринг»)** |
|  | **Chairman:****Takayama Mineo** | **Chairman:****Belash Tatiana** | **Chairman:**(on the discussion) |
| 15:00 | **Wang Jue, Ding Zhou**Simplified Model for the Seismic Analysis of a Soil- Long Pile Group-Structure System | **Pinto G.,****Quispe J.P.**Seismic Response Control of Cable-Stayed Bridge Incorporate energy dissipation systems | **Kinoshita T.**Suggestion of Damping Systems for Chandeliers |
| 15:15 | **Aijun Ye, Lianxu Zhou**Experimental Investigation on Transverse Steel Damper Seismic System for Cable-Stayed Bridges under Earthquake Sequences | **Sadan B., Tuzun C.,** **Gokce T., Sahin B.** Seismic Retrofit Design of Buildings of a School Campus in Istanbul By Dissipative Towers | **Chung-Han Yu,** **Shiang-Jung Wang,** **Kuo Chun Chang**Beyond Design Performance of Viscoelastic Damper |
| 15:30 | **Wang K.J., Chuang M.C.,** **Tsai K.C., Li C.H.,** **Chin P.Y., Chueh S.Y.** A Hybrid Simulation on a Steel Panel Damper Substructure with Online Model Updating | **Kaya M.**Techniques for Seismic Strengthening of Historical Monuments | **Wijanto S., Sengara I.W.,** **Lim E., Andriono T.** The Mw 7.4 Palu Earthquake of September 28, 2018 |
| 15:45 | **Wang Y.M, Ma A.C, Tan P.**Eccentricity Influence on Coupling Response and Damage Amplification of Curved Bridges in Earthquakes | **Chen H., Chen Y., Tan P.**Response Spectrum Method for the Design of Isolated Buildings | **Bhaiya V., Bharti S.D.,** **Shrimali M.K., Datta T.K.**Semi-Active Control Using MR Dampers for Random Ground Motion |
| 16:00 | **Di Cesare A., Ponzo F.C., Lamarucciola N., Nigro D.**Preliminary Nonlinear Analyses of Post-tensioned Timber Framed Building with Dissipative Bracing Systems | **Sartori M., Barone S.**Alibeyköy and Kagithane Viaducts: Advanced Seismic Protection Solutions In High Seismicity Region | **Lu Lyan-Ywan, Lin Ging-Long,** **Hsiao Kun-An, Wong Ka Fung,** **Chen Yi-Siang** An Inertial-type Vertical Isolation System with a Smart Friction Damper for Seismic Protection of Equipment |
| 16:15 | **Du YF.,** **Shi C.****Wang Y.L.**Spectral Characteristics of Ground Motion and Analysis of Dynamic Robustness of Base-isolated Structures | **Barone S., Sartori M.,** **Suryadi T., Zivanovic I.**Lead Rubber Bearings: a Prominent Application of EN 15129:2009 anti-seismic devices standard beyond Europe | **Azinović B., Kramar M.,** **Pazlar T., Kržan M.** Shear Response of Isolated Angle Brackets for Cross Laminated Timber Buildings |
| 16:30 | **Shrikhande M.**Friction Damper System for Seismic Response Reduction | **Sartori M.,** **Barone S.**Seismic Isolation And Post-Tensioning: A Complete Solution for the New Trieste Harbor Logistic Platform | **Liu Z.J.,** **Lin T.K.,****Lu L.Y.****Sung Y.C.**Development and Application of a Variable Stiffness Isolation System Considering Ground Motion Characteristic |
| 16:45 | **Technical inform** | **Technical inform** | **Technical inform** |
| **17:00-22:00****Technical trip for participants of****16WCSI & 13 RNCEE (13 РНКСС)** |
| **Wednesday, July, 3 / 3 июля, среда*****SPESIAL SESSION ISO WG-13 meeting*** |  |  |
| 09:00-17:00 | **ISO WG SESSION** | **Vyborg Hall** | **Eng** |
| **Thursday, July, 4 / 4 июля, четверг** **Parallel Session, Orals 15 min.** |
|  | **Chairman:** **Saito Taiki** | **Chairman:**(on the discussion) | **Chairman:****Hamaguchi Hiroki** |
| 09:00 | **Karalar M., Dicleli M.**Performance of Steel Framed Buildings Equipped with Viscous Fluid Dampers under Near-Fault Ground Motions with Directivity | **Kammouh O., Silvestri S.,** **Palermo M., Cimellaro G.**Crescent-shaped Brace for Structural Control of Buildings | **Inoue Y., Kushibe A., Umemura K.,** **Sawaguchi T., Otsuka H., Chiba Y**.Tensile and Low-cycle Fatigue Properties of Fe-15Mn-4Si-10Cr-8Ni Alloy for Fatigue-Resistant Seismic Dampers |
| 09:15 | **Dicleli M., Karalar M.**Optimum Properties of Seismic Isolation Systems in Highway Bridges to Minimize Isolator Displacements or Substructure Forces | **Emri Igor, Bek M., Von Bernstorff B., Gusev B.V., Yin Y.L., Chang K.C.** The New Generation Earthquake Isolation – a Breakthrough in Performance | **Li Che,** **Xue Yan-tao,** **Yan Wei-ming**Study on Damping Effect of Variable Friction Damper with Butterfly Hysteretic Curve |
| 09:30 | **Karalar M., Dicleli M.**Comparative Assessment of the Efficiency of Seismic İsolation for Seismic Retrofitting of Highway Bridges in Regions of Low-to-Moderate Seismicity | **Zelleke Daniel H., Saha S. K.,** **Matsagar V.**Base-Isolation for Response Control of Buildings under Multi-Hazard Condition | **Kushibe A., Inoue Y., Umemura K., Nakamura T., Sawaguchi T., Ohtsuka H., Chiba Y.**Cyclic Loading Tests of Fatigue-resistant Fe-Mn-Si-Based Alloy Seismic Damper |
| 09:45 | **Sharma V., Shrimali M.K.,****Bharti S.D., Datta T.K.**Seismic Energy Dissipation in Semi-rigid Connected Steel Frames | **Smirnova Luybov****Sukonnikova T. V.**The Experience of Bridge Seismic Isolation in Russia | **Cimellaro G.P., Domaneschi M.,** **Warn G.**A new Vertical Base Isolation System |
| 10:00 | **Zhi Jun Lyu**Numerical Evaluation of the Seismic response of steel storage rack Beam-to-Column Connections by Finite Element Analysis | **Pavlidou C., Komodromos P.**Influence of Earthquake Characteristics on the Peak Seismic Response of a Base Isolated Steel Building | **Pourmasoud M.M.,** **Lim J.,** **Hajirasouliha I.,** **McCrum D.**A Multi-Directional Isolation System for Multi-Storey Buildings under Coupled Horizontal and Vertical Seismic Excitations |
| 10:15 | **Sadan B., Erdik M., Tuzun C.,** **Ozcanli M.E.**Tensile Behavior of Rubber Isolators and Solutions to Overcome Tension Problem | **Technical inform** | **Wake T., Kikuchi M.,****Ishii K.**New Evaluation Formulae for Shear Strength of Lead-Rubber Bearings |
| 10:30 | **Mori T., Maruyama K.,** **Kato H., Murota N.**Deformation-History Integral Type Hysteresis Model Considering Performance Change for High-Damping Rubber Bearings |  | **Ogino N.O., Kikuchi M.K.,** **Okamoto M.O.**High-performance Oil Dampers for Seismically Isolated Structures to Counter Extremely Strong Earthquake Ground Motions |
| 10:45 | **Tuzun C., Sadan B.,** **Erdik M., Murota N.,** **Suzuki S., Akkar S.** A Feasibility Study of Seismic Isolation Application in Residential Buildings in Turkey |  | **Sharma V., Shrimali M. K., Bharti S. D., Datta T. K.**Energy Dissipation and Seismic Response Evaluation of Semi-rigid Steel frames at Various Performance Levels |
| 11:00 | **Kolesnikov A.**Calculation of structures with seismic isolation using LIRA 10.8 |  | **Hamaguchi H.,** **Yamamoto S.,****Wake T.,** **Kikuchi M.**A Seismic Isolation System with High Safety Margin in Earthquakes Exceeding Design Level |
| 11:15 | **Jeong Y.H., Song J.K.,** **Hong J.Y., Lee C.J.**Seismic Fragility Analysis of Existing Old Bridges Retrofitted by Seismic Isolation System in South Korea |  |  |
|  | **Technical inform** |  | **Technical inform** |
| **11:30-12:00 Сoffee Break/Кофе-брейк****Foyer of the Congress Hall / Фойе Конгресс-холла****12:00-12:30 *POSTER SESSION*****Foyer of the Congress Hall / Фойе Конгресс-холла** |
|  | **Chairman:****Demin Feng** |  |  |
| 12:30 | **Ye D.H., Chen Y.Y.,** **Qian Z.C., Huang X.Y.,** **Tan P.**Seismic Performance of Nonlinear Energy Sink with Negative Stiffness and Sliding Friction |  |  |
| 12:45 | **Verma A., Sahoo D.R.**Slow-cyclic Test of Steel Plate Shear Wall with Floor Slab |  |  |
| 13:00 | **Ghowsi A. F., Sahoo D. R.**Pushover Analyses of Steel self-Centering Buckling-restrained Braced Frames |  |  |
| 13:15 |  |  |  |
| 13:30 |  |  |  |
| 13:45 | **Technical inform** |  |  |
| **14:00-15:00****Lunch (Restaurant) Обед (Ресторан)** |
| **15:00-19:00****Sightseeing tour of Saint-Petersburg (16WCSI)** |
| **19:00 - 24:00****Close ceremony****Fregat «Blagodat’»** |
| **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 Buildinf 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 Jonts**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**1**4**. 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** |
| **Jian Wang, Jinping Ou**Hybrid Control to Enhance Wind and Seismic Performance of Twin Tall Buildings with a Sky Bridge | **Antonopoulos T.A.,** **Anagnostopoulos S.A.**Seismic Protection of Existing Open Ground Story RC (Pilotis) Buildings: A Proposed Simplified Model for Optimum Partial Strengthening Solutions | **Noemi Bonessio,** **Giuseppe Lomiento**Cellular materials for seismic isolation |
| **Meng X.**Dynamic Response of Liquid Storage Tank with Bearing Isolation on Elastic Soil | **Elias S.,****Rupakhety R.,** **Olafsson S.**Effectiveness of Non-Linear Tuned Mass Absorbers and Tuned Liquid Absorbers for Control of Buildings under Earthquakes | **Reyna R.,** **Munoz A.,** **Zavala C.,** **Diaz M.**Numerical Simulation of Low-Cost Seismic Isolator Using Different Hysteresis Models |
| **Wei Gong,** **ShishuXiong,** **Ping Tan**Shaking Table Test of Pseudo-negative-stiffness Control of a Base Isolated Building Employing MR Damper | **Ulker O.,** **Erdik M. O.**Structural Design of the 430.000 Sqm Hospital Supported on 1552 Seismic Isolators | **Mohamed Noureldin,** **Kim Jinkoo** Seismic Fragility Evaluation of Structures Retrofitted with Self-Centering Pre-Cast Concrete Frames |
| **Yang C.Y., Ma Y.C.**Applying hybrid test method in studying seismic response of frame structure with self-centering energy dissipation device | **Ulker O.,** **Erdik M. O.**Retrofit of a 100 Meter Tall Stack Using Tuned Mass Supported on Seismic Isolators | **Kou Miyamoto**An Extended Equivalent-input-disturbance Approach for Active Structural Control Focusing on Absolute Acceleration and Inter-story-drift Angle |
| **Guan Z. G.**Experimental investigation on seismic behavior of bridges with pile-group foundations allowing uplift and rocking of pile cap | **Garrido C.A.,** **Fernández-Dávila V.I.**Seismic Response Evaluation of Asymmetric RC Buildings Isolated with LRB and TFP Systems | **Peng T.B.,** **Ni Y.H.**A New Seismic Design Method of Simply Supported Girder Bridges for Very Rare Ground Motions in the Transverse Direction |
|  |  | **Zulfikar A.C.,** **Yilmaz C.,** **Nagaoka T.,** **Takahashi O.**The Effect of Long Period Ground Motions on High-Rise Buildings and Use of Damping Devices |
| **Friday, July, 5 / 5 июля, пятница** |
| **Time/****Время** | **Event/ Мероприятие**  | **Venue/Место проведения** | **Conference/Конференция** |  **Note/ Примечание** |
| 10:00 -13:00 | **ASSISi meeting** | St. Petersburg Hall | 16WCSI |  |
| 10:00 -13:00 | **The Round Table Discussion** | Strel’na Hall | 13НКСС |  |

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

**Departure of the conference participants**