**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** | |
| 09:00-18:00  14:00-18:00 | 1. Installation of Exhibition Pavilions and Poster Presentations.  Монтаж выставочных павильонов и постерных презентаций  2. Registration of Conference Participants  Регистрация участников конференции | | | | Foyer of the Congress Hall  Фойе 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 Hall  Фойе 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 Hall  Концертный 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 сейсмоизоляции  New Approaches to Solving the Problem of Materials for Seismic Insulation | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Rus |
|  | **Ведяков Иван**  **Vedyakov Ivan**  Успешные практики применения металлических конструкций в России  Successful Practices of Application of Steel Building Structures in Russia | | | | Concert Hall  Концертный 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 Hall  Концертный 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 Hall  Концертный зал | | | | | 16WCSI&  13 RNCEE  (13 РНКСС) | | Eng |
|  | **Ansal Atilla, TonukGokce, Kurtulus Aslı**  Uncertainties in Site Specific Response Analysis | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Eng |
|  | **Martelli Alessandro, Clemente Paolo**  Recent Applications of Seismic Isolation in Italy | | | | Concert Hall  Концертный зал | | | | | 16WCSI&  13 RNCEE  (13 РНКСС) | | Eng |
|  | **Бубис Александр**  **Bubis Alexander**  New Applications of Base Isolation and Energy Dissipation in Russia | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Eng |
|  | **Chien–Chih Chen**  Shanghai Center Building Introduction of Pendulum Eddy Current Tuned Mass Damper | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Eng |
|  | **Хакимов Шамиль**  **Khakimov Shamil’**  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 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 России  Development of Seismoisolation in Russia | | | | Concert Hall  Концертный зал | | | | | 16WCSI&  13 RNCEE  (13 РНКСС) | | Rus |
|  | **Demin Feng, Takafumi Miyama, Wenguang Liu**  Certification System of Seismic Isolation Devices in Japan | | | | Concert Hall  Концертный 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 Hall  Концертный 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 Hall  Концертный 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 Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Eng |
|  | **Кривцов Юрий**  **Krivtsov Yu.**  Обеспечение пожарной безопасности объектов капитального строительства в сейсмоопасных районах  Fire Safety of Capital Construction Projects in Earthquake-prone Areas | | | | Concert Hall  Концертный 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 города  SeismicRiskofModernCity | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Rus |
|  | **Аптикаев Ф.Ф., Эртелева Ольга**  **Aptikaev Felix, Erteleva Olga**  **О** строительных нормах нового поколения  On the Construction Standards of New Generation | | | | Concert Hall  Концертный 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 Hall  Концертный 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 зданий  Deformation Criteria of Limit States of Stone and Reinforced Concrete Structures of Earthquake-resistant Buildings | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС | | Rus |
|  | **Алешин Александр**  **Aleshin Alexander**  «Трудные вопросы» развития сейсмического микрорайонирования  "Difficult Issues" of Seismic Microzoning Development | | | | Concert Hall  Концертный 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 Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Eng |
|  | **Тяпин Александр**  **Tyapin Alexander**  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 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 Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Eng |
|  | **Lagos Rene**  Seismic Resilience in Concrete High-rise Building Design: the Chilean Perspective | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Eng |
|  | **Wada Akira**  Recent Earthquakes and New Concepts for Earthquake-resistant Design | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Eng |
|  | **Kappos Andreas**  Performance-based Design of Seismically Isolated Bridges | | | | Concert Hall  Концертный 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 Казахстан  Current State of Seismic Construction in the Republic of Kazakhstan | | | | Concert Hall  Концертный 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 Hall  Концертный 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 области  Сейсмостойкого строительства  Particulars of New Codes of Kyrgyz Republic in the Field of  Earthquake Engineering | | | | Concert Hall  Концертный 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 воздействии  Use of Reserves of Bearing Capacity of Reinforced Concrete Structures under Force Impact | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Rus |
|  | **Тонких Геннадий**  **Tonkih Gennadiy**  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 | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Rus |
|  | **Лапин Владимир**  **LapinVladimir**  Cравнительный анализ влияния сейсмоизоляции с помощью  станции инженерно-сейсмометрической службы на зданиях  Сomparative 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 Алматы  Certification of buildings and structures of Almaty | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Rus |
|  | **Курбацкий Евгений**  **Kurbacky Eugeny**  Спектры максимальных реакций на землетрясения  Spectra of the maximum reactions to the earthquakes | | | | Concert Hall  Концертный зал | | | | | 16WCSI &  13 RNCEE  (13 РНКСС) | | Rus |
|  | **Technical inform** | | | | Concert Hall  Концертный 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 technique  4. Research and development of seismic response control devices,  which are innovative, or reliable and low-cost  5. Measures against seismic events beyond expectations such as mega-earthquakes, long period earthquakes and vertical motions  6. 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**