



University of
East London



2nd International Scientific Conference on Socio-Technical Construction and Civil Engineering (STCCE – 2021)

Conference program

Date	Section	Presentations	Time, Place
21 st April	Architecture and planning	<ol style="list-style-type: none"> Alkistis Prepis “<i>Resilience as Neoliberal Crisis Management and its Effects on Urban Planning</i>”. School of Architecture, National Technical University of Athens (NTUA) (Greece). Larisa Filimonova, Elena Matys, Elena Juse, Aleksandr Sbitnev and Anastasia Bokova. <i>Justification of the Territorial Location of "Green Energy" Objects in Relation to the Needs of the Tyumen Region.</i> Industrial University of Tyumen (Russia). Laura Mucciolo “<i>ITALIA 2090. Post-Urban / Super-Urban</i>”. University of Florence (Italy). Olga Alexandrovna Pastukh. <i>The use of modern polymer materials and wood in the construction of buildings in the form of geodesic domes.</i> Saint Petersburg State University of Architecture and Civil Engineering. Renée Tobe “<i>Postwar housing in London</i>”. University of East London (Great Britain). Aleksey Igorevich Ivantsov, Vadil Rinatovich Sirazitdinov. <i>The influence of the architectural and constructive solution of the slopes of the window opening of a residential building on the sanitary and hygienic parameters of the room and the thermal characteristics of the enclosing structure.</i> Kazan State University of Architecture and Engineering (Russia). Efrossyni Tsakiri “<i>Local Development and Cultural Landscapes</i>”. School of Architecture, National Technical University of Athens (NTUA) (Greece). Alexander Dembich, Yulia Zakirova, Natalia Orlova and Tansilu Khakimova. <i>Methodological principles of planning reorganization of Naberezhnye Chelny during the implementation of the Master Plan-2022.</i> Kazan State University of Architecture and Engineering (Russia). Alena Stepanchuk, M.R. Salyakhova, V.M. Salyakhova. <i>Preservation of local identity in the reorganization of urban public spaces.</i> Kazan State University of Architecture and Engineering (Russia). Marina Smolova, Daria Smolova. <i>Emergency Architecture. Modular construction for healthcare facilities as a response to pandemic outbreak.</i> Kazan State University of Architecture and Engineering (Russia). Marina Gudina, Evgenii Prokofiev. <i>Preservation of the structure of the building in the process of</i> 	<p>10 am – 1 pm (Moscow time)</p> <p>Academic and Research Center “BFFT. Space” (KSUAE)</p>



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		<p><i>renovation of industrial architecture. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>12. Sergey Mikhailov, Aleksandrina Mikhailova, Lilia Khousnutdinova, Anastasia Ibragimova, Maksim Belov. <i>National and international components in contemporary architecture and design. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>13. Sergey Mikhailov, Aleksandrina Mikhailova, Neil Nadyrshine, Dmitry Koshkin, Tatiana Evstratova. <i>Local artistic style in urban design. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>14. Radwan Al-Shawaf, Ivan Krasnobaev. <i>Architecture of complexes to nurture people affected by Alzheimer's disease. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>15. Elza Bashirova, Natalya Kinosyan. <i>The architecture of spectacular buildings in the city of Kazan in the context of national and regional traditions. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>16. Anna Guseva, Ilmar Akhtiamov and Rezeda Akhtiamova <i>Research Institutes in the 21 Century: Opportunities for Architects. Kazan State University of Architecture and Engineering (Russia).</i></p>	
22 April	Building constructions, buildings and structures	<p>1. Pavel Ereemeev, Daniil Ereemeev, Gennady Shmelev. <i>Improving the dynamic properties of pedestrian crosswalks by including a reinforced concrete slab in structural behavior. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>2. Gimranov Linur, Ivan Kuznetsov. <i>Locally concrete filled reinforced joints of RHS trusses. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>3. Daler Aripov, Ivan Kuznetsov, Marat Salakhutdinov. <i>Tests of truss joints from polymer fiber reinforced pultruded profiles. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>4. Lenar Siraziev and Danil Sergeyev. <i>Experimental studies of the influence of the bedding of various soils on the stress-strain state of a layered subsoil base of the slab foundation. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>5. Ilizar Mirsayapov, Marat Shakirov and Danil Sabirzyanov. <i>Raft-pile foundation field tests under the action of cyclic loading. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>6. Yulia Mironova. <i>Structural solution of the</i></p>	<p>10 am – 12 pm (Moscow time)</p> <p>Academic and Research Center «Strength»</p>



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		<p><i>horizontal joint of floor slabs in a ringless frame. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>7. Samat Timergaliev., Liliya Kharasova. <i>On the stress state of hinged thin-walled elastic structures. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>8. Oleg Efimov, Linur Gimranov, Alsou Fattakhova. <i>Calculations of the rigidity and the strength of concrete filled steel deck diaphragms Kazan State University of Architecture and Engineering (Russia).</i></p>	
23 April	<ul style="list-style-type: none"> - Bridges, roads, and tunnels; - Transport system development; - Technological complexes and automated systems in construction, and mechanical engineering 	<p>1. Igor Maystrenko, Tagir Zinnurov, Tatiana Maystrenko, Dmitriy Erochin <i>Statistical analysis of the vehicles main dimensions variability on public roads. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>2. Karim Nurmuhametov, Tagir Zinnurov and Denis Sadykov <i>Implementation of the decision-making algorithm in the bridge management system. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>3. Aniia Ibragimova, Tagir Zinnurov, Olga Petropavlovskikh. <i>Formation of a comfortable transport infrastructure for cyclist traffic in the tourist area of Kazan. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>4. Olga Loginova and Olga Petropavlovskikh. <i>Inspection and assessment of concrete pipe culverts under Tatarstan's Highways. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>5. Evgenii Vdovin, Lenar Mavliev, Nikita Konovalov. <i>Development of road construction materials based on carbonate crushed stone treated with cement and modified with a zeolite-containing additive Kazan State University of Architecture and Engineering (Russia).</i></p> <p>6. Zagidullin R.R., Konovalova A.A. <i>MaaS concept: Is there a future for personal transport Kazan State University of Architecture and Engineering (Russia).</i></p> <p>7. R. Nikolaeva, R. Sakhapov <i>Ensuring safety and optimization of the spatial solution in the area of tram stops Kazan State University of Architecture and Engineering (Russia).</i></p>	<p>10 am – 1 pm (Moscow time)</p> <p>Academic and Research Center «Roads»</p>
23 April	<ul style="list-style-type: none"> - Building materials and products; - Construction technology 	<p>1. Alfred Suleimanov. <i>Application of multivariate analysis for prediction of polymer composite materials durability Kazan State University of Architecture and Engineering (Russia).</i></p> <p>2. Nailya Rakhimova. <i>Alkali activation of calcined medium-grade clays Kazan State University of Architecture and Engineering (Russia).</i></p>	<p>1 pm – 3 pm (Moscow time)</p> <p>Academic and Research Center «Technology»</p>



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	and organization	<p>3. Anna Pugacheva, Marcel Khakimullin, Marat Badrutdinov, Svetlana Kashina, Alexander Lunev and Reda Farah. <i>Civil law regulation of investments in the digital infrastructure of the construction industry.</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>4. Evstigneeva Yu.V., Ibragimov R.A. <i>Construction technology of flexible fire partition and fixed formwork of glass-magnesite sheets(GMS).</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>5. Victor Furer, Alexandr Vandyuko, Elena Popova, Svetlana Solovieva, Igor Antipin, V.I. Kovalenko. <i>Vibrational spectra of p-carboxylate and p-sulfonate azocalix[4]arene.</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>6. A.F. Agliullina., A.R., Shakirov and Alfred Suleimanov. <i>Development of a method for predicting the durability of the adhesive joint of the external reinforcement system of building structures.</i> Kazan State University of Architecture and Engineering (Russia).</p>	
26 April	<p>- Innovative and smart technologies in architectural and construction education;</p> <p>- The language of construction</p>	<p>1. Liudmila Danchenko, Naul Tuktamyshev. <i>Development of Spatial-Design Thinking in architecture education</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>2. Nail Tuktamyshev and Tatyana Gorska <i>The strategy of forming the research competence of students - architects by means of mathematics</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>3. Rafael Khairullin. <i>The development of students' stress resistance during the examination session by means of physical culture.</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>4. Ruslan Garifullin. <i>Technology of formation of professional competence of teachers of physical culture in architecture and Construction University.</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>5. Ruslan Abitov, Maria Nizamieva and Elena Konvalova <i>On the statistical indicators of the effectiveness of teaching methodologies</i></p> <p>6. Aleksander Kiselnikov, Diliar Kazan State University of Architecture and Engineering (Russia).a</p> <p>Vakhitova, Tatiana Kazymova <i>Fundamentals of materials (text readability evaluation)</i> Kazan State University of Architecture and Engineering (Russia).</p>	<p>10 am – 1 pm (Moscow time)</p> <p>Academic and Research Center URBAN</p>
26 April	- Energy efficiency and thermal	<p>1. Kirill Tikhonov, Aida Nizamova. <i>Engineering of the wastewater system of the state farm «25 years of October» Laishevsky district of the Republic of Tatarstan.</i></p>	<p>12 pm –2 pm (Moscow time)</p>



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	protection of buildings, - Heat supply, ventilation, air conditioning, gas supply, and lighting	<p>Kazan State University of Architecture and Engineering (Russia).</p> <p>2. Alimov Ramis, Liliya Khisameeva. <i>Retechnologization of existing biological wastewater treatment facilities using mathematical modeling</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>3. Sadykov R.A., Filimonova S.A. <i>Analytical and Numerical Calculations of Quasi Stable Heat Transfer Mode in Shielding Constructions of Building and Installations.</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>4. Osipova L.E., Varsegova E.V., Bugembe D. <i>A study of flow characteristics a low-pressure ejector installation.</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>5. Yakov Zolotonosov, Iraida Krutova and Ekaterina Vachagina <i>Geometric modeling of coil heat exchanger based on spring-twisted channel</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>6. Sadykov R.A, Ahmadiyev F.G., Gizziatov R.F., Muhametzyanova A.K. <i>Numerical Modelling of Heat Transfer in Multilayered Shielding Constructions of Buildings and Engineering Networks.</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>7. Petrov Artem Sergeevich, Kolchin Maksim Alekseevich <i>Design characteristics of a horizontal light tube construction considering requirements of lighting and thermal protection of enclosing structures</i> Kazan State University of Architecture and Engineering (Russia).</p>	<p>Academic and Research Center «Systems»</p>
27 April	- Construction management, -Sustainable development	<p>1. Olga Maksimchuk, Nataliya Borisova, Tatyana Ereshchenko and Vladislav Klyushin. <i>Digital technologies in the tax sphere as a factor in the sustainability of economic activity.</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>2. Aydar Khuzagaripov. <i>An innovative market mechanism for the digital transformation of services in the labor market.</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>3. Evgeniya Ilina, Anna Romanova and Anna Murafa. <i>Sustainable development of the field of operational services on an innovative basis of smart technologies.</i> Kazan State University of Architecture and Engineering (Russia).</p> <p>4. Gulsina Zagidullina, Rufina Ivanova, Ella Biktemirova, Ildar Shagitov, Idelia Badykova. <i>Management</i></p>	<p>10 am – 1 pm (Moscow time)</p> <p>Academic and Research Center BFFT.space</p>



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		<p><i>of the innovative activity of the enterprises in investment based construction industry. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>5. Yulia Medyanik, Elvira Shagiakhmetova, Liliya Gimadieva and Dilara Vakhitova. <i>Economic aspects of infrastructure projects implementation in towns and medium-sized cities. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>6. Elvira Shagiakhmetova, Olga Borovskikh, Adilya Nizamova, Tatiana Kazymova. <i>Cost modeling of a land plot for private housing construction. Kazan State University of Architecture and Engineering (Russia).</i></p> <p>7. Varvara Kulkova, Alina Galimova. <i>Social entrepreneurship as a factor of sustainable development in the context of “2020 Crisis” in Russian Federation.</i></p> <p>8. Anatoly Asaul, Ekaterina Trushkovskaya, Maksim Asaul, Yuri Levin and Gennady Shcherbina <i>Proactive mechanisms for response to risks of business entities engaged in investment and construction activities Saint-Petersburg State University of Architecture and Civil Engineering</i></p>	
27 April		<p>1. Anna Akatyeva , Rinat Hafizov, and Dinara Nizamutdinova <i>Urban Environment Connectivity and Universal Design Solutions in Kazan (the Republic of Tatarstan)</i></p> <p>2. Ruslan Ibragimov, Marat Badrutdinov Natalya Pugacheva <i>Optimization of construction time regulations for large-panel residential buildings</i></p> <p>3. Lavirko Juriy, Akhmetov Eduard, Akhmetova Rimma and Bikeeva Natalia <i>Development of Water Saving Technology for Water Supply System of Industrial Enterprises</i></p> <p>4. Lavirko Juriy, Taymarov Michael, Akhmetova Rimma and Aigel Sabirzyanova <i>Power Supply of Industrial and Residential Urban Areas Through Use of Secondary Combustible and Thermal Energy Resources</i></p> <p>5. Zakirova Tatiana <i>Application of innovative standards of “green” construction in Tatarstan on the example of Kazan</i></p> <p>6. Arslan Ziganshin, Svetlana Eremina, Guzel Safiullina, Konstantin Logachev <i>Numerical study of the flow in a symmetrical ventilation junction tee with a baffle vane</i></p> <p>7. Nadyrova Khanifa <i>Astronomical Observatory as an identifier of the architectural ensemble of Kazan Imperial University</i></p>	<p>1 pm – 3 pm (Moscow time)</p> <p>Academic and Research Center BFFT.space</p>



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		<p>8. Anis Galimyanov , Tatyana Gorskaya <i>Calculation of fractional integrals using partial sums of Fourier series for structural mechanics problems</i></p> <p>9. Furer Victor L., Potapova Ludmila I., KovalenkoValeri.I. <i>Study of IR spectra of thiocalix[4]arene with carboxyl and adamantyl groups in order to create new polymeric materials</i></p>	
28 April		<p>1. Greetings from the rector of KSUAE, Doctor of technical sciences, Professor, Corresponding Member of the Academy of Sciences of the Republic of Tatarstan Nizamov Rashit Kurbangalievich.</p> <p>2. Greetings STCCE-2021:</p> <ul style="list-style-type: none"> - Keller Andrey Vladimirovich — rector, Moscow Automobile and Road Construction State Technical University, Doctor of technical sciences, Professor. - Sergeev Vitaliy Vladimirovich Doctor of technical sciences, Professor, Corresponding Member of the Russian Academy of Sciences, vice-rector for research, Peter the Great St. Petersburg Polytechnic University, <p>3. - Hassan Abdalla (Provost, CENG, Professor,- Principal Fellow of the Higher Education Academy (PFHEA), Fellow of the Royal Society of Arts (FRSA) (UEL)</p> <ul style="list-style-type: none"> 1. Peter Lakin <i>BIM technology</i> (United Kingdom) 2. Nikolay Vatin <i>On stability of viscoelastic plates of variable thickness under rapidly increasing compressive loads</i> (Russia) 3. Stefano Bertocci <i>Professor of Architectural The opportunities for the conservation of the archaeological and architectural heritage through digital documentation</i> (Italy) 4. Mark Sedgley <i>REAL Testing for Long Term Road Design</i> (United Kingdom – Turkey) 5. Alkiviadis Prepis <i>Historical monuments in the Balkans after 1990: Issues of protection, management and cultural identity</i> (Greece) 6. Konstantin Popkov, <i>Arizona State University – creating the next generation of leaders through innovation, research and global impact</i> (USA) 7. Tiziano Cattaneo <i>Re-naturing cities</i> (China) 8. Paolo Ceccarelli <i>ILAUD experience in time of climate change</i> (Italy) 9. Ziganshin Arslan <i>KSUAE Improving the energy efficiency of ventilation systems by shaping its duct fittings</i> (Russia) 	



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THE REGIONAL YOUTH
PUBLIC MOVEMENT
YOUNG SCIENTISTS AND
SPECIALISTS OF THE
TATARSTAN REPUBLIC

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