



Dear Concrete Specialists and Colleagues! We invite you to participate in the **XXVIII Scientific and Technological Conference of Latvian Concrete Association (LCA)**, which will take place on **November 6, 2019, in the International Exhibition Centre RTU-BT1 (Ķīpsalas st. 8, Riga), conference hall**. Conference opening at 9.00, registration of participants - from 8.10. LBS members and conference guests are required to register online, or inform the LCA Board about their arrival by phone. 29160832, 29151884, by e-mail: genadijs.sahmenko@rtu.lv or valapsa@latnet.lv.

CONFERENCE PROGRAM

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|---------------|-----|---|--|
| 8:10 | | | REGISTRATION |
| 9:00 | 0-1 | Genādijs Šahmenko (Latvijas Betona savienība) | |
| | | | Conference opening, report on 2018/19 |
| 9:10 | 0-2 | Gita Šakale (HC Betons), Artūrs Lukašenoks (MB Betons) | TK-01 Concrete frost resistance |
| 9:20 | 1 | Pietro Lura (EMPA, ETH, Šveice) | Volume changes and water distribution in internally-cured High-Performance and Ultra-High-Performance Concrete |
| 9:50 | 2 | Nikolajs Toropovs (EMPA, ETH, Šveice) | Concrete plastic shrinkage and it's effect on durability |
| 10:10 | 3 | Ainārs Paeglītis (RTU profesors) | Durability problems of Latvian reinforced concrete bridges |
| 10:30 | 4 | Didzis Malkausis (Peri Latvia) | Presentation of Estonian Concrete Association |
| 10:40 | | | Coffee break, discussions, exhibition |
| 11:30 | | <i>Session moderator: Rolands Cepurītis</i> | CONCRETE OLYMPICS Presentation |
| 11:50 | 5 | Gintautas Skripiņš (VGTU profesors, Lietuvas Betona savienības prezidents) | |
| | | | Durability of concrete exposed to Baltic sea water |
| 12:10 | 6 | Jacek Góra, Wojciech Piasta, Tomasz Nowacki, Cyprian Pełczyński (Poland) | Corrosion of structural concrete as a result of multiannual exposure to aggressive external factors |
| 12:30 | 7 | Jānis Kamars (SIA Primekss) | The latest in steel fibre reinforced concrete technology – fire resistance testing for SFRC elevated slabs and walls without traditional steel rebars |
| 12:50 | 8 | Mr. Kostadin Marinov (Doka, Head of Engineering Region, Engineering Eastern Europe, Austrija) | Concrete quality based on formwork interaction in cold weather conditions |
| 13:10 | 9 | Michał Szymanski (CHRYSO Polska) | Thermal aspects in bridge concrete |
| 13:30 | | | CONCRETE OLYMPICS: results, Stachema awards |
| 14:00 | | | Lunch, discussions, exhibition |
| | | <i>Session moderator: Jānis Zāle</i> | |
| 15:00 | 10 | Heiko Herrmann (TTU, Estonia) | Fiber orientation in a slab and influence on bending strength |
| 15:20 | 11 | Oksana Goidyk, Heiko Herrmann (TTU, Estonia) | Influence of sample preparation on fiber distribution in SFRC |
| 15:30 | 12 | Kristaps Kāns (Latvia) | Paving bricks durability |
| 15:45 | 13 | V.A. Lapsa, A. Krasņikovs (RTU, LZA) | Innovations in concrete technology |
| 16:00 | 14 | Rimvydas Moceikis (VGTU, Vilnius) | Frost resistance of Glassfibre Reinforced Concrete (GRC) |
| | | | Short presentations: |
| 16:15 | 15 | J. Kudiņš, G.Šahmenko (MB Betons, RTU) | Comparison of frost resistance testing results which obtained by different methods |
| 16:25 | 16 | G. Šahmenko, J. Kudiņš, A. Lukašenoks (RTU) | Alternative method for providing concrete frost resistance, using elastic microgranules |
| 16:35 | 17 | Krishna Kiran Annamaneni, Vitālijs Lūsis (RTU) | Fibreconcrete with combined fibre reinforcement (results of ERAF project 1.1.1.1/16/A/007) |
| | 18 | Māris Šinka (RTU, poster presentation) | Hemp concrete composite panel, its environmental impact (results of ERAF project 1.1.1.1/16/A/007) |
| | 19 | Eva Namsone (RTU, poster presentation) | Durability of nano-modified foam concrete (results of ERAF project 1.1.1.1/16/A/007) |
| 16:50 - 17:45 | | | Coffee break, discussions, finishing |
| | | | Discussions, EXHIBITION during coffee breaks |
| | | DOKA LATVIJA | Innovation in concrete technology: formwork interactive 3D virtual reality |
| | | Materiāli SIA | Cold bridge imitation stand in reinforced concrete balcony structures |
| | | Primekss, RTU, Didzis Solims | Concrete 3D printing |
| | | DEROX SIA | Novel techniques for quality control of concrete structures |

Latvian XVII Concrete Olympiad will take place 5.11.2019. 13:00 in RTU Laboratory house, room 101. The aim of the Olympiad competition is the precision of technology - to achieve compressive strength 100 MPa. Three prizes are provided by STACHEMA POLSKA: 300 EUR for 1st place, 200 EUR for 2nd place and 100 EUR for 3rd place.