

# ICC X ACADEMY

08. June 2023

Baku Marriott Hotel Boulevard

Baku, Azerbaijan



## Modern Concrete Technologies and Construction Trends for Azerbaijan

More information online available | Join us on [www.iccx.org](http://www.iccx.org)

Local Host



Organisation



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# ICCX ACADEMY BAKU

**Data**                    **June 08, 2023**

**Attendees**    100+ concrete professionals from precast and readymix plants, government executives

**Venue**            Baku Marriott Hotel Boulevard Baku, Azerbaijan

**Timing**            Opening Times        09:00 - 18:00  
                              Conference Times    09:30 - 17:00

ICCX Academy Baku 2023 is intended to attract main interested parties for potential industrial business opportunities (precast, concrete roads, RCC etc.) mainly in Karabakh because the Azerbaijani government allocated 2.5 billion USD in total for the restoration projects and invited countries and companies to actively participate in the process.

Norm Cement as Local Host and General Sponsor of the event wants to promote modern construction and building trends in Karabakh by using fast, green, and new technologies. Great interest in the upcoming ICCX Academy Baku event in 2023 by all involved participants is guaranteed since Norm will invite all customers and relevant stakeholders to this event.

## What does ICCX Academy mean?

ICCX Academy under the umbrella of CPI (Concrete Plant international) and ICCX (International Concrete Conference and Exhibition) with one local host as well as a number of 8-12 expected exhibiting companies which will get exclusive access to potentially prosperous markets. ICCX Academy will help understanding the local requirements, behavior and interest to grow the industry.

CPI is publisher of trade journals for the precast/concrete industry around the world. CPI journals are targeting concrete professionals, producers, technologists, engineers and all stakeholders of the associated industry. Besides publishing journals, CPI also organizes ICCX International Concrete Conference & Exhibition events in various locations. ICCX full-scale events can have 50-100+ international exhibitors and the target are 500-1000+ visitors.

ICCX Academy is a small-scale version of ICCX with approx. 100 attendees only, however with the same quality and market penetration like a full-scale ICCX.

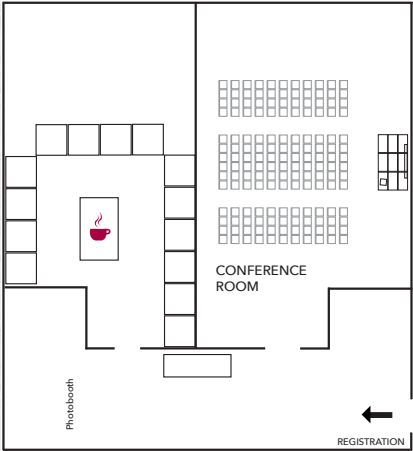
The Host is a leading company/institution/association that aims to grow the precast/concrete industry in its country.



# Exhibitors

Company Name	Country
ARCEN	Portugal
B.T. innovation GmbH	Germany
CPi Concrete Plant international Eurasia	Germany
Elematic	Finland
Euromecc srl	Italy
Ha-Be Betonchemie	Germany
Industrial Solutions	Azerbaijan
MAX-truder GmbH	Germany
Nordimpianti	Italy
Norm Cement	Azerbaijan
Progress Group	Germany
Schnell Group	Italy
TDM-Engineering Oy	Finland
Techmatik S.A.	Poland
TEKA Maschinenbau GmbH	Germany
Weckenmann Anlagentechnik GmbH & Co. KG	Germany

# Floormap



## CONFERENCE PROGRAMM

In addition to the exhibiting companies that are allowed to present themselves and their projects at the ICCX Academy, there will be, as usual at an ICCX, a top-class conference programme that has been adapted to the current topics of the respective venue.

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### Conference Day 08.06.2023 | Session 1 | 10:00

BIM design, production and construction with precast concrete for infrastructure, private and commercial buildings



■ Igor Ivanovich Yakovenko

The presentation will demonstrate how IT solutions can be efficiently used for modern design, planning and application processes.

Several examples will be presented to give an overview of today's possibilities. The audience will learn why Building Information Modeling (BIM) is key to success when it comes to efficient workflow.

### Conference Day 08.06.2023 | Session 2 | 12:00

Roller compacted concrete pavements:  
Best practice in Turkey



■ Dr. İsmail Özgür Yaman

Roller-compacted concrete (RCC) is a zero-slump concrete consisting of densely graded aggregates, cement and water, i.e. with the basic ingredients of concrete. Because of its poor workability, however, it is usually placed with conventional or high-density asphalt paving equipment and compacted by vibrating rollers. RCC pavements (RCCP) need neither forms nor finishing, nor do they contain dowels or steel reinforcing. Therefore, RCCP is considered as an economic alternative road construction technology, and it owes much of its economy to high-volume and high-speed construction



methods. RCC pavements are used in a variety of applications, ranging from provincial roads to industrial warehouses carrying heavy traffic. In Türkiye, the first RCCP application was in 2009 as a pilot study. Because of the aforementioned characteristics and the economy provided, it has now been utilized in over 60 cities with over 3500+ km of provincial road paving. This presentation will explain the basics of RCC paving and the path followed for its widespread use in Türkiye.

**Conference Day 08.06.2023 | Session 3 | 14:30**

## Multiobjective approaches to optimize concrete mixes



■ Dr. Roman Rezaev

The modern production of various types of concrete, including concrete roads, roller compacting concrete, ready-mix concrete, etc. faces the requirements of having a complex set of properties of concrete. Preferences are given to materials, both involving various industrial by-products, such as fly ash, slag, etc., and based on local raw materials. Since non-linear dependencies interconnect the final properties and proportions of all raw components, it is not a trivial task to find the desired composition of concrete using simple combinatorial methods. Given this, the problem of developing methods for determining concrete composition based on simple quantitative characteristics of raw materials is relevant now. In our work, we present a novel method involving the initial characterization of raw materials, design of auxiliary experiments and machine learning based data post-processing techniques. Packing density optimization is the main build block of the final mix design strategy. Latent information about the raw materials properties and physical and chemical processes in mixes is involved through an auxiliary set of coefficients. The quantitative values of which are determined based on Bayesian statistics. The results obtained make it possible to create a low-labor experimental plan for solving the problem of multiobjective optimization and obtain concrete compositions with the required set of properties. Specific examples demonstrate the practical use of the proposed methods with ready-to-use tools.

CCX

## Leightweight Concrete Block Production and Construction for a Sustainable Reconstruction



■ Dr. Inna Khripacheva

The closed cycle management and recycling of secondary raw materials in renewed production is one of the major challenges for all raw material processing industries. This applies in particular to the

German construction industry. The IAB is investigating how the production of expanded granules from masonry rubble can be realised.

After careful pre-treatment of the construction waste, a heating process is carried out in which the raw material is expanded and burned. The result is a granulate that can be used as a lightweight aggregate for lightweight concrete with heat and sound insulation properties.

The thermal insulation of lightweight concrete blocks can be improved even more if they are filled with mineral foam. For this purpose, a patented process was developed at the IAB, which is primarily aimed at manufacturers of wall building materials. Lightweight concrete blocks with mineral thermal insulation enable an improved ecological balance and recyclability of the composite building materials.

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*\*All presentations will be held in English or Russian language and will be translated simultaneously into Azerbaijan language.*





## VENUE

Baku Marriott Hotel Boulevard is located in the heart of Baku White City district, along one of the main routes connecting the city center with Heydar Aliyev International Airport. Our seafront hotel offers premium amenities and upscale comfort awaits in our family-friendly hotel rooms, showcasing luxury bedding, free Wi-Fi and panoramic sea views. Thrill your palate with delicious dining at our distinctive restaurants. Energize in our fitness center or relax in the waters of our heated indoor pool. Celebrate and succeed in flexible event spaces, designed for flawless events in Baku. The largest convention hotel in Azerbaijan, Baku Marriott Hotel Boulevard features 38,933 sq'ft of elegant meeting spaces, including a magnificent pillar-free ballroom. Explore, shop, enjoy the sea, or soothe your senses with a beauty treatment at our luxury spa. Discover an exhilarating 5 star hotel stay in one of Azerbaijan's most elegant destinations, perfectly placed along the glittering Caspian Sea.

For guestroom booking please send an email to [service@iccx.org](mailto:service@iccx.org).



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