

## Introduction

My name is Péter Schaul, I am currently working as a senior structural engineer at JKP STATIC Ltd. For the last 10 years I have been involved in the design, optimization and research of concrete structures.

I had a deep interest in advanced finite element modelling since the first years of the University. Firstly, I started to model steel structures with **ANSYS** finite element program. My numerical research of steel hall structures trapezoidal sheeting's examinations in terms of stiffness was nominated for Scientific Students' Competition and won the first place.

Later, I started to work with concrete structures and had a deep interest in the finite element program **ATENA**, which was specifically developed for the design/research of concrete structures. In 2015 I was attended at Advanced Atena Course in Prague and Advanced Diana Course in Delft.

Since 2014, I was involved in more than 700 international projects related to FRC as a consultant and/or designer. These projects covered almost all types of FRC applications: industrial floors, precast elements, shotcrete and TBM tunnels and tramlines.

I started my PhD. research in 2016, with a topic of material behaviour of non-corrosive structures.

I am a member of Hungarian Chamber of Engineers since 2018 and I a licenced structural designer (T) and expert (SZÉS1).

Since 2021, I am the Head of the laboratory ([JKP Concrete Laboratory](#)) of our company.

With the combination of laboratory research and numerical modelling we published several paper about different applications and material behaviour of synthetic fibre reinforced concrete. In these researches among others the effect of testing speed, material behaviour in early ages was presented, and some interesting structures (tunnels, precast track slabs) were introduced.

We attended at several conferences, such as *fib* Workshop on Fibre reinforced concrete, International Conference on Fibre Reinforced Concretes, Central European Congress on Concrete Engineering, and World Tunnel Congresses.

I strongly believe that engineers must be open to advanced numerical modelling and new materials, which with more economic and environment friendly structures can be designed.

Péter Schaul

Budapest, 2<sup>nd</sup> March 2023

## Curriculum Vitae

### Personal data

Name: Péter Schaul  
Address: Budapest, Reitter Ferenc utca 100. Hungary  
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### Education

2016 - Budapest University of Technology and Economics (BME)  
Vásárhelyi Pál Doctoral School  
2013 Budapest University of Technology and Economics (BME)  
Scientific Students' Associations  
Steel hall structures trapezoidal sheeting's examinations in terms of stiffness, First place  
2008 – 2013 Budapest University of Technology and Economics (BME)  
Faculty of Civil Engineering, Specialisation in Structures

### Language skills

2014 English B2  
2007 German B2

### Work experience

2021 – Head of the JKP Concrete Laboratory  
2016 – Budapest University of Technology and Economics (BME)  
Department of Construction Materials and Technologies, PhD. Student  
2014 – JKP STATIC Ltd.  
2013 – 2014 Ysako Design Kft.

### Professional interest

Advanced numerical modelling, design, optimization, laboratory testing and research of concrete, reinforced concrete and fibre-reinforced concrete (FRC)

### Publications

<https://www.researchgate.net/profile/Peter-Schaul>  
[www.jkpstatic.com/publications](http://www.jkpstatic.com/publications)

## Professional activities

- 2018- Member of Hungarian Chamber of Engineers, structural designer (T) and expert (SZÉS1)
- 2016 – Member of *fib*
- 2015 – 2019 FibreLAB: Virtual Lab for Fibre Reinforced Concrete Design by Simulation Prototyping  
Eurostars Funding Program with Dr. Jan Cervenka (Cervenka Consulting)  
[www.fibrelab.eu](http://www.fibrelab.eu)