



Marie Curie
Innovative Training Network

PhD Training Network on
Durable, Reliable and Sustainable Structures
with **Alkali-Activated Materials**



Course on “AAM Technology”

27-29 January 2020

Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany

*Institute for Concrete Structures and Building Materials (IMB)
Materials Testing and Research Institute (MPA)*

DuRSAAM – H2020-MSCA-ITN-2018-813596



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Local Organising Committee

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What to expect

The course "AAM Technology" is aimed at PhD students and interested concrete technologists who are dealing with this new binder technology. The aim of the course is to impart basic knowledge as well as up-to-date knowledge about specific questions of the application of binders and concretes made in practice and about how this binders and concretes behave compared to "classical" hydraulic cements and concretes, respectively. Accompanying the theoretical teaching content, the mediated knowledge will to be applied on the basis of demonstrations in the lab.

Teachers



Prof. Frank Dehn - Karlsruhe Institute of Technology (KIT)
Chair of Building Materials and Concrete Construction at the Institute of Concrete Structures and Building Materials (IMB), Director of the Materials Testing and Research Laboratory (MPA), Member of the Presidium and Co-Chair of Technical Council of the International Federation for Structural Concrete (*fib*), Co-Chair of RILEM TC MPA - Mechanical Properties of Alkali-activated Materials, Member of National and International Standardization Committees and Expert Boards related to Concrete, Editor-in-Chief "Structural Concrete"



Prof. John Provis - University of Sheffield
Professor of Cement Materials Science and Engineering and Head of the Engineering Graduate School of University of Sheffield, Deputy Chair of RILEM Technical Committee 283-CAM, an invited TAC Expert of RILEM, a Voting Member of committees of BSI, ASTM and ACI, Associate Editor of the leading journals Cement and Concrete Research and Materials and Structures, and Speciality Chief Editor for the Structural Materials section of Frontiers in Materials.



Prof. Guang Ye - Delft University of Technology
Associate professor in the Section of Materials and Environment of TUDelft, chair of the research group of Concrete Modelling and Materials Behavior, author/co-author of 300 journal/conference papers, editor/co-editor of 8 conference proceedings and Chapter contribution of 6 books, member of several RILEM Technical Committees like TC-ICC, TC-ATC, TC-SHC and TC-SAP, TC-DTA and *fib* committee of 8.10 and 8.12.

Programme

Day 1: Course on "AAM Technology"	
Date:	27 January 2020
Location:	KIT - IMB/MPA Karlsruhe Building 50.31, 6 th floor, Room 613 Address: Gotthard-Franz-Str. 3, 76131 Karlsruhe
8:30 – 9:00	<i>Arrival</i>
9:00 – 10:30	Session 1 - Portland cement, blended cements and the need for improvements (Prof. John Provis)
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:30	Session 2 - Alternative cements - what is available? (Prof. John Provis)
12:30 – 14:00	<i>Lunch</i>
14:00 – 15:30	Session 3 - Introduction to characterisation of cements (Prof. John Provis)
15:30 – 16:00	<i>Coffee break</i>
16:00 – 17:30	Practical demonstrations AAM (lab) (Part 1) (Prof. Frank Dehn)
17:30 – 18:30	Discussion and summary of Course Day 1
19:30	<i>Course welcome dinner</i>

Day 2: Course on "AAM Technology"	
Date:	28 January 2020
Location:	KIT - IMB/MPA Karlsruhe Building 50.31, 6 th floor, Room 613 Address: Gotthard-Franz-Str. 3, 76131 Karlsruhe
8:30 – 9:00	<i>Arrival</i>
9:00 – 10:30	Session 5 - Durability testing of concretes (Prof. John Provis)
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:30	Session 6 - Standardisation of cements and concretes (Prof. John Provis)
12:30 – 14:00	<i>Lunch</i>
14:00 – 15:30	Practical demonstrations AAM (lab) (Part 2) (Prof. Frank Dehn)
15:30 – 16:00	<i>Coffee break</i>
16:00 – 17:30	Work assignment
17:30 – 18:30	Discussion and summary of Course Day 2
19:30	<i>Course dinner</i>

Day 3: Course on "AAM Technology"	
Date:	29 January 2020
Location:	KIT - IMB/MPA Karlsruhe Building 50.31, 6 th floor, Room 613 Address: Gotthard-Franz-Str. 3, 76131 Karlsruhe
8:30 – 9:00	<i>Arrival</i>
9:00 – 10:30	Session 7 - Modelling of AAM (Prof. Guang Ye)
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:30	Session 8 - Shrinkage of AAM concretes (Prof. Guang Ye)
12:30 – 14:00	<i>Lunch</i>
14:00 – 15:30	Session 9 - Mechanical Properties of AAM concretes (Prof. Frank Dehn)
15:30 – 16:00	<i>Coffee break</i>
16:00 – 17:30	Session 10 - Fibre-reinforced AAM concretes (Prof. Frank Dehn)
17:30 – 18:00	Discussion and summary of Course Day 3

Registration and registration fee

To enrol, please follow the registration procedure at this link:

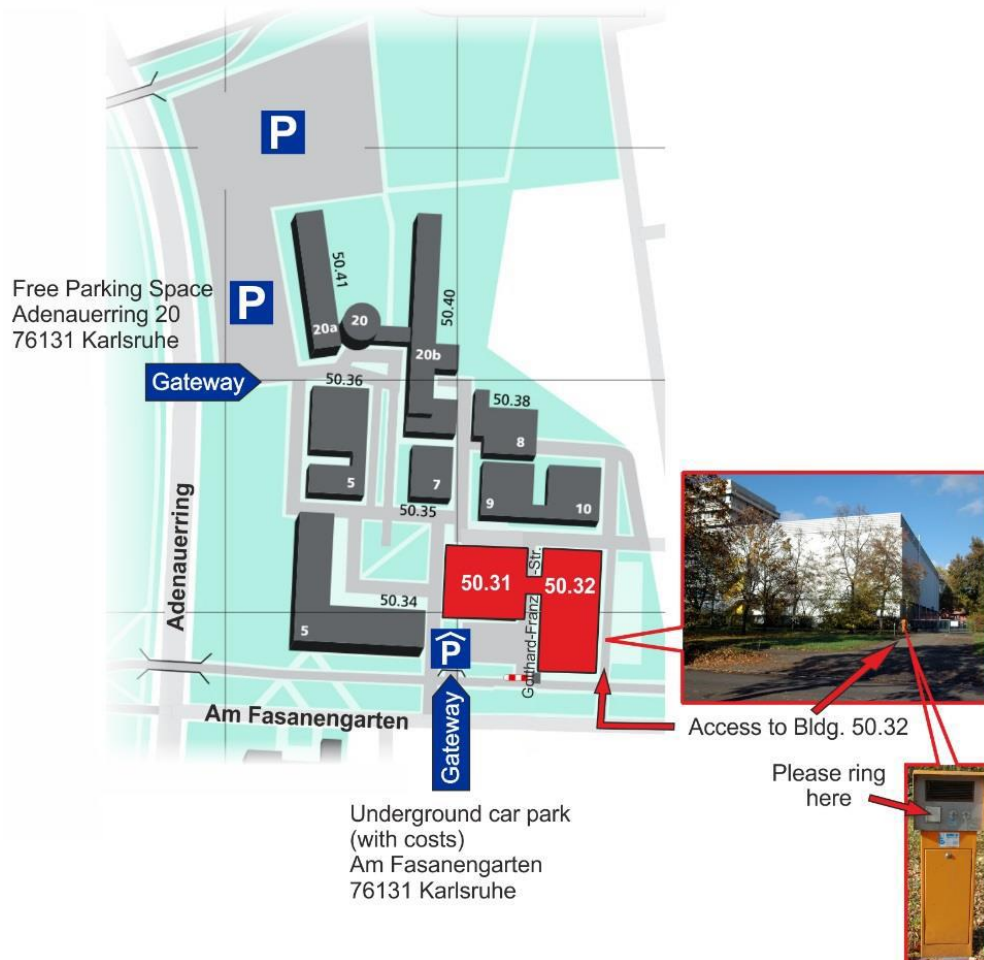
<https://event.aserv.kit.edu/v20/emc00/register.aspx?OrgCode=10&EvtID=13915&AppCode=REG&CC=119121303651&Lang=EN>.

Once your registration has been completed the invoice will be automatically created and sent to you. The participation fee is 350, - Euro (VAT included) and covers the catering for all coffee and lunch breaks as well as for the dinner on 27 and 28 January 2020.

The closing date for registration is January 20, 2020.

For more information about registration and registration fee, please contact Mrs. Silvia Lenske (silvia.lenske@kit.edu).

How to reach KIT - IMB/MPA Karlsruhe



Contact:

Karlsruhe Institute of Technology (KIT)

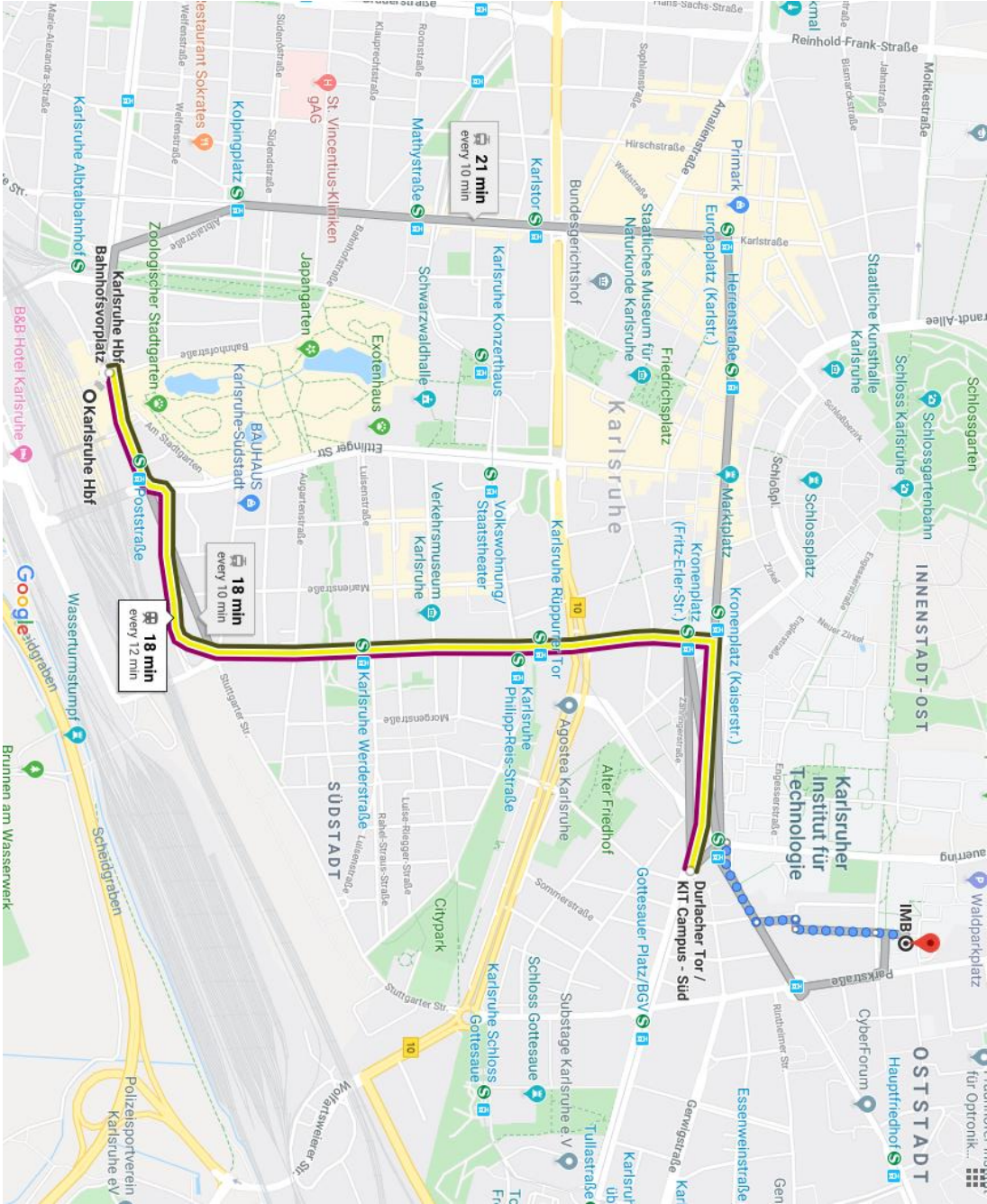
Institute for Concrete Structures and Building Materials (IMB)
Material Testing and Research Institute (MPA)

Secretariat:

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Parking available on our institute premises (for reservation please contact Ms. Silvia Lenke) or in the nearby underground car park and free parking space.

From the station:



Map available at this [link](#).

Accommodation

Hotel	Location	Website
Gastdozentenhaus	KIT Campus South	https://www.gdh.kit.edu/index.php
Hoepner Burghof	Nearby IMB/MPA	https://hoepfner-burghof.com/
Hotel am Gottesauer Schloss	Nearby IMB/MPA	https://www.hotel-gottesau.de/de/
SevenDays Hotel	Nearby IMB/MPA	http://sevendays-hotel.de/de/karlsruhe/service
Holiday Inn Express Karlsruhe City Park	Nearby IMB/MPA	https://www.ihg.com/holidayinnexpress/hotels/de/de/karlsruhe/fkbc/hoteldetail
Achat Plaza Karlsruhe	Nearby IMB/MPA and City Centre	https://achat-hotels.com/hotel/karlsruhe-city#kontakt
Leonardo Hotel Karlsruhe	Nearby IMB/MPA and City Centre	https://www.leonardo-hotels.de/leonardo-hotel-karlsruhe
Novotel Karlsruhe City	Nearby IMB/MPA and City Centre	https://www.accorhotels.com/de/hotel-5400-novotel-karlsruhe-city/index.shtml
Hotel Kaiserhof	City Centre	https://www.hotelkaiserhof-ka.de/
Hotel Am Markt	City Centre	https://www.hotelammarkt.de/
Hotel Erbprinzenhof	City Centre	http://www.hotel-erbprinzenhof.de/
Schlosshotel	Central Station	https://www.schlosshotelkarlsruhe.de/
IBIS Hotel	Central Station	https://www.accorhotels.com/de/hotel-6965-ibis-karlsruhe-hauptbahnhof/index.shtml
Hotel Santo	Nearby IMB/MPA and City Centre	https://www.hotel-santo.de/
Aviva Hotel	Karlsruhe Neureut	https://www.hotelaviva.de/
Hotel Der Blaue Reiter	Karlsruhe Durlach	https://www.hotelderblauereiter.de/

WIFI Login-Information



As a guest of KIT - IMB/MPA Karlsruhe you will have free access to the network "KA-WLAN".

Please note that the data is not sent securely over the network. Use safe connection methods when sending sensitive information.

EDUROAM is available all over the KIT campus.
