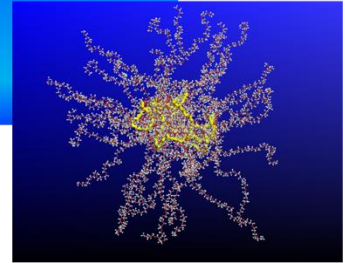


PCE 2025



**6<sup>th</sup> International Conference on  
Polycarboxylate  
Superplasticizers (PCE 2025)**

23 – 25 July 2025

[www.pce-conference.org](http://www.pce-conference.org)

**Hosted by**



## PROGRAM

**Wednesday, 23 July 2025**

### Workshop

- 09:15–09:50 Prof. Johann Plank,  
Technische Universität München, DE  
***Fundamentals of PCE Technology***
- 09:50–10:20 Dr. Ara Jeknavorian,  
Jeknavorian Consulting Services, US  
***Use of Nanosilica to Improve the Air-Void Quality of Air-entrained Concrete Superplasticizer with PCE***
- 10:20–10:50 Prof. Lei Lei,  
Hunan University, CN  
***Compositional Analysis of PCE Superplasticizers***
- 10:50–11:20 COFFEE BREAK
- 11:20–11:40 Dr. Seungtaek Oh & Y.G. Ju  
Silkroad, South Korea  
***Admixtures for Concrete in Cold & Hot Weather and for Gypsum Board***
- 11:40–12:00 Dr. M. Dekioug & U. Gehrke  
BUSS ChemTech AG, CH  
***Production of Alkoxyate Precursors for PCEs – Safe and Efficient Process***
- 12:00–13:00 LUNCH BREAK
- 13:00–18:00 Departure to Concrete Laboratory of  
CPAC / Siam Cement Group  
***Demonstration of Optimized PCE Technology and 3D Printing using Calcined Clay Cement***  
(Max. 100 participants)  
[For program, see attachment at P. 10](#)

## PROGRAM

**Thursday, 24 July 2025**

- 09:30 Opening and Welcome  
Prof. J. Plank and Prof. N. Makaratat

### Oral Presentations I

*Chair: Prof. Lei Lei*

- 09:50–10:20 Dr. Ara Jeknavorian,  
Jeknavorian Consulting Services, US  
***Essential Role of PCE for Sustainable Concrete***
- 10:20–10:50 Dr. Gerhard Albrecht,  
Technical Consulting Service, JP  
***Invisible heroes: The Transformative Power of Polyether Polymers in Construction and Beyond***
- 10:50–11:15 Roenko A.V., Dr. Andrew Malinin et al.,  
Evrosintez/Moscow State Univ., RU  
***HPEG vs. EPEG: Impact of PCE Synthesis on Concrete Performance***
- 11:15–11:40 COFFEE BREAK
- 11:40–12:10 Dr. Roberta Alfani, Patrick Azar et al.,  
Ecocem Materials, FR  
***ACT Technology – Potential of ECOCEM's Low Clinker Binders for Sustainable Construction***
- 12:10–12:40 Prof. Lei Lei,  
Hunan University, CN  
***Next-Generation PCE for AAS Binders***
- 12:40–13:00 Dr. Yunhui Fang,  
KZJ New Materials, CN  
***Structural Regulation & Performance Study of Fast Dispersing PCEs***
- 13:00–14:00 LUNCH BREAK

## PROGRAM

Thursday, 24 July 2025

### Oral presentations II

Chair: Prof. Nattapong Makaratat

- 14:00–14:25 Dr. C.E. Diesendruck & Dr. A. Mezhov,  
Technion – Israel Inst. of Tech., IL  
***Synthetic and Natural Poly-phosphates as Superplasticizers***
- 14:25–14:50 Dr. Xiuxing Ma,  
KZJ New Materials, CN  
***Molecular Design of Long- and Ultra-Long Acting PCEs for Slump Retention***
- 14:50–15:15 Qing Shen, Prof. Zhenping Sun et al.,  
Tongji University, CN  
***Influence of PCE Phosphate Content on Cement Paste Rheology***
- 15:15–15:40 Dr. M.Y. Yardimci, Dr. B. Aslan et al.,  
Dokuz Eylul Uni./Kalekim Lyksor, TR  
***Development of a Novel Silane-Functionalized PCE for Alkali-Activated Materials***
- 15:40–16:10 COFFEE BREAK

## PROGRAM

Thursday, 24 July 2025

### Oral presentations III

Chair: Dr. Gerhard Albrecht

- 16:10–16:30 Dr. X. Wang, Prof. Ziming Wang et al.,  
Jiangsu ARIT/Beijing Univ. of Tech., CN  
***Molecular Design of Degradable Polycarboxylate Superplasticizer – Decoupling Dispersion from Retardation***
- 16:30–16:55 Dr. Manuel Ilg,  
BASF Trostberg, DE  
***Selective Control of the Formation of Ettringite in Ternary Binders***
- 16:55–17:15 Jiaxin Chen & Prof. Johann Plank,  
Technische Universität München, DE  
***Do PCEs adsorb preferentially on OPC or Calcined Clay?***
- 17:15–17:30 Dr. Sakprayut Sinthupinyo,  
SCG Cement Co.,Ltd., TH  
***Improving Concrete Sustainability with Biochar and Polycarboxylate Ether (PCE)***
- 17:30–17:45 Dr. Xiuxing Ma,  
KZJ New Materials, CN  
***Presentation of China Concrete Admixture Museum in Xiamen – History and Technology Innovations***
- 19:00–22:00 CONFERENCE DINNER

## PROGRAM

**Friday, 25 July 2025**

### Oral presentations IV

*Chair: Prof. Ziming Wang*

- 09:00–09:30 Dr. Ara Jeknavorian,  
Jeknavorian Consulting Services, US  
***A Review of Synergistic Interactions  
between Polycarboxylates and other  
Chemical Admixtures***
- 09:30–10:10 Prof. Johann Plank,  
Technische Universität München, DE  
***Decarbonization of the Global  
Cement Industry – Concepts,  
Problems and Solutions***
- 10:10–10:35 Dr. Vipasri Kanchanason et al.,  
SCG Cement Co.,Ltd., TH  
***Effect of PCE on Workability of LC3  
from Thailand***
- 10:35–11:00 Sungjin Jung & Prof. Juhyuk Moon,  
Seoul National University,, KR  
***Enhanced Hydration Reaction of LC3:  
Particular Emphasis on Calcined Clay  
Reactivity***
- 11:00–11:30 COFFEE BREAK

## PROGRAM

**Friday, 25 July 2025**

### Oral presentations V

*Chair: Dr. Roberta Alfani*

- 11:30–11:55 Dr. R. Tanimoto, T. Nakano et al.,  
Kao Corporation, JP  
***Design of a New Clay-Resistant Additive***
- 11:55–12:20 Dr. Tong Lu, Prof. Ziming Wang et al.,  
Jiangsu ARIT/Beijing Uni. of Tech., CN  
***Optimizing PCE Structure & Per-  
formance Through Process Control***
- 12:20–12:45 Dr. M. Cruickshank, Dr. R. Alfani et al.,  
Ecocem Materials, FR  
***Role of Superplasticizers on Pore  
Solution of Eco-Efficient Cements***
- 12:45–13:00 Xinyue Wang & Prof. Johann Plank  
Technische Universität München, DE  
***Slump Retention in High CC Cements***
- 13:00–14:00 LUNCH BREAK

### Oral presentations VI

*Chair: Dr. Sakprayut Sinthupinyo*

- 14:00–14:25 In Kuk Kang & Prof. Jae Hong Kim,  
KAIST, KR  
***Automated Exp. Evaluation of Cement  
Dispersant on Rheological Properties***
- 14:25–14:50 Dr. Alexey Yalymov,  
Sika LLC, Moscow, RU  
***PCE Cluster In Sika Russia: Growth  
History, Unique Facilities and Products***
- 14:50–15:10 Dr. Vivek Naik  
Apple Chemie India Pvt. Ltd, IN  
***PCE for Enhancing Concrete Durability:  
The Indian Perspective***
- 15:10–15:40 COFFEE BREAK

## PROGRAM

**Friday, 25 July 2025**

### Oral presentations VII

*Chair: Prof. Johann Plank*

- 15:40–16:10 Presenting the  
**Young Researcher Award**  
Awardee: Dr. Manuel Ilg  
BASF Trostberg, DE
- 16:10–16:30 Prof. Johann Plank,  
Technische Universität München, DE  
***What comes next? The Future of  
PCE Technology***
- 16:30–17:30 Panel discussion  
***Decarbonization of the Cement  
Industry – How does this transition  
affect admixtures?***

Panelists:

***Prof. Dr. Johann Plank (Moderator)***  
***Mr. Manasit Sarigaphuti, Thailand***  
***Dr. Roberta Alfani, Ecocem, France***  
***Prof. Dr. Ziming Wang, BUT, China***  
***Dr. Oh Seungtaek, Silkroad, S. Korea***  
***Dr. Alexey Yalymov, Sika, Russia***  
***Dr. Vivek Naik, Apple Chemie, India***

17:30 Closure

### Posters

- ***Preparation of Shrinkage-Reducing PCE***
- ***Preparation&Performance of Viscosity-Modified PCE***  
Dr. Y. Fang, Y. Lin, X. Zhang, KZJ New Materials, CN
- ***Viscosity-Reducing PCE: Preparation and Performance in Concrete***  
Dr. Jiaji Chen, CNBM Zhongyan Technology, CN

## GENERAL INFORMATION

### GET-TOGETHER

The get-together will be held on 22 July from 18:00 to 21:00 at **Century Park Hotel**, and the location will be announced in the lobby. Light snacks and drinks will be provided.

### AIM OF THE CONFERENCE

PCE 2025 highlights the role of PCE superplasticizers in the ongoing “green” transition of the cement industry, showcasing advances in synthesis and global application of Innovations in PCE technology.

### REGISTRATION FEE

PCE 2025 Conference	690 € (regular price)
23 – 25 July 2025	300 € (student price)

**Note: All local Thai participants, please register through our partner TCA.**

### INFORMATION BEFORE AND AFTER THE CONFERENCE

Prof. Dr. Johann Plank

Technische Universität München  
Lichtenbergstr. 4  
85748 Garching bei München, Germany  
Email: [pce.conf@gmail.com](mailto:pce.conf@gmail.com)  
Tel.: +49 89 289 13170

## Demonstration of High-Performance PCEs at Concrete Laboratory of CPAC Ready-Mix Company

Date: 23 July 13:00 – 18:00

### Program:

- Comparison of novel pre-cast EPEG PCE vs. HPEG PCE (product provider: Silkroad)
- Reduced Stickiness of Concrete Using Phosphated Superplasticizer (MasterEase 5020 from Sika)
- Demonstration of Low Carbon Concrete Based on ACT Technology (product provider: Ecocem and Chryso)
- 3D Printing Using Calcined Clay Blended Cement (provider: Siam Cement Group, SCG)

Note: Bus will depart on-time at 13:00 from Century Park Hotel

## ORGANIZER

Technical  
University  
of Munich



**Prof. Dr. Johann Plank**

## CO-ORGANIZER



**Prof. Dr. Nattapong Makaratat**



**Prof. Dr. Lei Lei**



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## UPCOMING EVENT



American Concrete Institute  
*Always advancing*

### TUM/ACI 2026 Conference

Formerly  
CANMET / ACI Conference

14th International Conference on  
Superplasticizers and Other Chemical  
Admixtures in Concrete (**SOCAC**)

16th International Conference on  
Recent Advances in Concrete  
Technology and Sustainability Issues  
(**RACTSI**)

**Munich, Germany**

**06 – 10 July 2026**

[www.aciconf.de](http://www.aciconf.de)

## Aim of the Conference

The **TUM/ACI 2026 Conference** will focus on innovations in concrete technology, featuring the 14th International Conference on Superplasticizers and Other Chemical Admixtures in Concrete (**SOCAC**) and the 16th International Conference on Recent Advances in Concrete Technology and Sustainability Issues (**RACTSI**). The event will highlight advancements in sustainable concrete practices, low-carbon solutions, and admixture technology. Join us in Munich to engage with experts, explore industry trends, and deepen your knowledge of sustainable concrete solutions.



**TUM** Center for  
Advanced **PCE** Studies