



**6th International Conference on
Polycarboxylate
Superplasticizers (PCE 2025)**

23 – 25 July 2025

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)
[Click here for program](#)

PROGRAM

Thursday, 24 July 2025

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

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 Dr. Fanzhi Kong,
Oxiranchem, CN
Current Trends in China's PCE Polyether Industry
- 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***

09:30–09:50 Prof. Johann Plank,
Technische Universität München, DE
***Decarbonization of the Global
Cement Industry – Concepts,
Problems and Solutions***

09:50–10:10 Prof. Lei Lei,
Hunan University, CN
***Next-Generation PCE for AAS
Binders***

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

- ***Design and Application of Industrial Waste-Based Road Materials***
J. Jia, Prof. Xin Cheng, et al. University of Jinan, CN
- ***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 Z. Tech., CN

GENERAL INFORMATION

GET-TOGETHER

The get-together will be held on 22 July from 18:00 to 21:00 at the **2nd Floor, Century Park Hotel**. 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

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CO-ORGANIZERS



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Thailand Concrete Association



Prof. Dr. Nattapong Makaratat



Prof. Dr. Lei Lei

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