

The 4th International Conference on Calcined Clays for Sustainable Concrete (ICCCSC 2024) The Announcement May 15-18, 2024, Nanjing, China

Cement and concrete are the largest manufactured product on Earth, which have revolutionized the global built environment. While, the production of cement is characterized by high energy consumption and CO₂ emission, which accounts for 8% of the total carbon emissions around the world. Therefore, reducing CO₂ emissions and increasing materials efficiency throughout the cement value chain has become a major issue for the sustainable development. Globally, developing low-carbon and sustainable cement and concrete has become the urgent task of the industry recently.

Calcined clay-based cementitious materials have been attracting wide attention in the research of developing low-carbon cementitious materials recent years. Taking the most typical Limestone Calcined Clay Cement (LC³) as an example, compared to Portland cement, the clinker content of LC³ can be reduced up to 50% by adding limestone and calcined clay. LC³ also shows outstanding mechanical and durability properties, showcasing significant potential for widespread replacement of traditional Portland cement. Currently, LC³ has gradually gained popularity and application in regions such as Latin America and South Asia.

The International Conference on Calcined Clay for Sustainable Concrete (ICCCSC) which has been held in Switzerland (Lausanne, 2015), Cuba (La Havana, 2017), India (New Delhi, 2019), and Switzerland (Lausanne, 2022) has become an important academic event for low-carbon sustainable cement concrete. The 4th ICCSC will be held in Nanjing, to focus on low-carbon sustainable cement production, performance, environmental efficiency as well as other topics to be presented in seminars. It is expected to further promote the development of low-carbon cement and concrete materials in the world and the cooperation among countries, which will contribute to the large-scale application of low-carbon cement concrete and the sustainable development of human society.



SINOMA 中材国际



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Organizer:

The Chinese Ceramic Society

Executive organizers:

Southeast University Sinoma International Engineering Co., Ltd.

University of Jinan Sobute New Materials Co., Ltd.

The Cement Branch of Chinese Ceramic Society

Co-organizers:

State Key Laboratory of High Performance Civil Engineering Materials

Jiangsu Key Laboratory of Construction Materials

Jiangsu Collaborative Innovation Center of Advanced Construction Materials

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Prof. Changwen Miao, Academician of the Chinese Academy of Engineering,
Southeast University

Prof. Karen Scrivener, Fellow of the Royal Academy of Engineering (FREng),
EPFL

Conference Chair:

Ruiping Gao, The Chinese Ceramic Society

Jiaping Liu, Southeast University

Tongbo Sui, Sinoma International Engineering Co., Ltd.

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Ravindra Gettu, Indian Institute of Technology Madras, India

Shuguang Hu, Wuhan University of Technology, China

Xin Cheng, University of Jinan, China

Yan Yao, China Building Materials Academy Co., Ltd., China

Yongmo Xu, Huaxin Cement Co., Ltd./CCPA, China

Zongjin Li, Macao University of Science and Technology, China

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Yun Bai, University College London, United Kingdom

Zhenyu Huang, Shenzhen University, China

Zhonghe Shui, Wuhan University of Technology, China

Updating...

Keynote speakers



Changwen Miao
Southeast University
China

Changwen Miao, academican of the Chinese Academy of Engineering, professor of Southeast University. He serves as the director of the academic committee at Southeast University, chair of the Joint International Laboratory for Advanced Construction Materials (LACM). Engaged in both theoretical research and practical applications of civil engineering materials, he has achieved numerous breakthroughs in the durability improvement of construction materials, service life extension of major infrastructure projects and development of multifunctional civil engineering materials. He has been awarded with 3 second prize of the State Scientific and Technological Progress Awards, 1 second prize of the State Technology Invention Award. He has 82 national invention patents issued, and has published 4 monographs and over 200 research papers.



Karen Scrivener
EPFL
Switzerland

Karen Scrivener, fellow of the Royal Academy of Engineering (FREng) and the Swiss Academy of Engineering Sciences, and professor of Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland. She obtained her Ph.D. degree at Imperial College London and. Her research fields focus on the hydration mechanisms of cement-based materials and the microstructure characterization. Prof. Scrivener has published over 250 SCI papers accumulating a total citation count of over 27,000. She is now the head of Laboratory of Construction Materials at EPFL and had served as the editor-in-chief of the Cement and Concrete Research journal for 15 years. In 2008, she first introduced the concept of limestone-calcined clay cement (LC³) and serves as the overall coordinator of the LC³ project which is supported by the Swiss Agency for Development and Cooperation (SDC).



Jiaping Liu
Southeast University
China

Jiaping Liu, academican of the Chinese Academy of Engineering, professor of Southeast University. He has developed a theoretical framework for shrinkage cracking, innovated in the field of ultra-high-performance concrete technology, and established three key concrete technologies: shrinkage reduction and crack resistance, mechanical properties improvement, and regulation of rheological properties, which have been successfully applied in over 110 major engineering projects. Prof. Liu obtained 91 domestic patents and 14 international patents. He has published 258 SCI/EI papers and drafted or co-drafted 22 standards or regulations. He has been awarded 1 second prize of the State Technology Invention Award, 4 second prize of the State Scientific and Technological Progress Awards.

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Feng Xing
Jinan University
China

Feng Xing, academician of the Chinese Academy of Engineering, president of Jinan University. He is the chairman of the National Concrete Standardization Technical Committee, vice chairman of American Concrete Institute (ACI) China Branch, and director of the key laboratory of Durability in Coastal Civil Engineering in Guangdong. Focusing on the safety, usability and sustainability of concrete structures, he has obtained great research achievements in the field of green and recycling concrete materials, durability and sustainability of concrete structures. He has obtained more than 150 patent for invention and published over 470 SCI papers. He has won 2 second prize of the State Technology Invention Awards, 3 first prize of the provincial and ministerial level Technology Invention Awards.



Caijun Shi
Hunan University
China

Caijun Shi, chief professor of Hunan University, academician of the Ukrainian Academy of Engineering Sciences and the Russian Academy of Engineering Sciences, chairman of the Asian Concrete Federation, and fellow of the International Energy Foundation (IEF), the American Concrete Institute (ACI) and the International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM). He is the founder and Editor-in-Chief of *Journal of Sustainable Cement-based Materials*, and also the editorial board member of *Cement and Concrete Research*. His researches include the design and preparation of green high-performance concrete, waste utilization and disposal, and intelligent impermeable materials. He has been granted 4 patents for invention in United States and 45 patents in China, and he has authored over 530 academic papers



Nicolas Roussel
Gustave Eiffel University
France

Nicolas Roussel, director of the laboratory CPDM at Gustave Eiffel University in France. He is currently the chairman of the International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM). He received his doctor degree in civil engineering from INSA Rennes in 2001. He has devoted his career to the study of rheology of cement-based materials, and accumulated over 150 SCI papers with more than 10,000 citations. He is the honorary Editor-in-Chief of *RILEM Technical Letters*, the editorial board member of *Cement and Concrete Research* and *Materials and Structures*. He was awarded the RILEM Robert L'Hermitte Medal in 2007. He was the chairman of RILEM Technical Advisory Committee and the RILEM Technical Committee on digital fabrication with cement-based materials.

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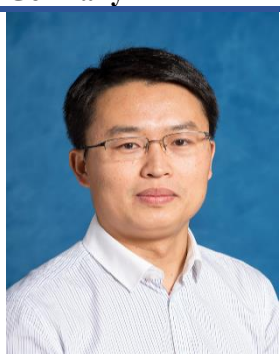
Shashank Bishnoi
IIT Delhi
India

Shashank Bishnoi, professor of the department of civil engineering at the Indian Institute of Technology Delhi, He completed his Ph.D. from EPFL, Switzerland in the area of modelling of cement hydration. He worked as a post-doctoral fellow at Laval University, Canada and has also been a Visiting Professor at EPFL, Switzerland and University of Tokyo, Japan. His areas of interest include cement hydration models, low-carbon cementitious materials, sustainable concrete, and the durability of concrete materials and structures. He has published over 80 SCI papers, with more than 2,500 citations. Additionally, he serves as an editorial board member for the *Cement and Concrete Research*. He is one of the global initiators of the LC³ project, and He serves as the Head of the LC³ Asia-Pacific regional technical resource center.



Thomas Matschei
RWTH Aachen University
Germany

Thomas Matschei, professor, director of the Institute of Building Materials at RWTH Aachen University in Germany. He completed his doctoral studies at the University of Aberdeen. Between 2008 and 2017, he held the position of Technical Research and Development Manager at Lafarge-Holcim in Switzerland. From 2017 to 2020, he was a professor at Dresden University of Applied Sciences. He mainly studies cement hydration mechanisms and hydration thermodynamic simulation. He has published more than 40 SCI papers and received over 4,000 citations. He has been a keynote speaker at three consecutive International Cement Chemistry Conference. Presently, he holds the position of leader for Core Projects (CP5, 6, 7, mainly about LC3) within the Innovandi - the Global Cement and Concrete Research Network.



Yun Bai
University College London
United Kingdom

Yun Bai, chair professor in the department of Civil, Environmental and Geomatics Engineering at University College London (UCL), director of the Advanced and Innovative Materials Center (AIM), fellow of the UK Higher Education Academy (FHEA), the Institute of Concrete Technology (FICT), and the Institute of Materials, Minerals and Mining (FIMMM). He is head of the Geotechnical and Materials Section and deputy head of Civil Engineering. His main research interests are novel low-carbon cementitious materials, advanced composite materials, rheological properties of cement and concrete, durability of concrete structures, structural health monitoring, and solidification of nuclear waste. He has led and participated in more than 20 research projects. He has organized and participated in nearly 60 international academic conferences and published more than 170 academic papers.



Ruben Snellings
KU Leuven
Belgium

Ruben Snellings is an associate professor of Earth and Environmental Sciences at the KU Leuven, Belgium. He received his Master's and Doctoral degrees in Earth and Environmental Sciences from KU Leuven in 2006 and 2011, respectively. He has served as a Senior Scientist in Flemish Institute for Technological Research (VITO), Belgium. His research areas include applied mineralogy, low-carbon cement, mineral admixtures, etc., and he has published over 100 SCI papers, with more than 5,000 citations. He currently serves as the Chairman of the RILEM Technical Committee on Accelerated Mineral Carbonation in Building Materials Production Processes (TC309-MCP) and the Technical Committee on Testing Reactivity of Mineral Admixtures (TC267-TRM). He has been the keynote speaker at two consecutive International Cement Chemistry Conference (ICCC).

Conference topics

1. Influence of processing on reactivity of calcined clays
2. Influence of clay mineralogy on reactivity
3. LC2 SCM: hydration, durability, and performance
4. Portland-calcined clay-limestone systems: hydration, durability, and performance
5. Calcined clay-alkali systems: hydration, durability, and performance
6. Calcined clay-new blends
7. Limestone cement
8. Life cycle analysis, economics and environmental impact of use of calcined clays in cement and concrete
9. Field applications
10. Rheology of calcined clay systems
11. Other related topics

Abstract submission and registration

Abstract submission and registration

Abstracts submission and registration online via <https://icccsc2024.ceramsoc.com>

Important date

Agenda	Time
On line registration start	2024.02.01
Full paper or extended abstract deadline	2024.04.15
On-site Registration	2024.05.15
Conference date	2024.05.16~05.18

Registration fees

Type	Early-bird Before March 31 st , 2024	Regular
Regular	EUR 350	EUR 500
Student	EUR 200	EUR 300

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*Registration includes: abstract (program) book, welcome reception, banquet dinner, coffee breaks, and lunches during the conference.

Method of Payment

a. Bank Transfer

Beneficiary: *The Chinese Ceramic Society*

Beneficiary Bank: *Bai Wan Zhuang Banking Office, Industrial and Commercial Bank of China*

Bank Address: *No.15, San Li He Road, Haidian District, Beijing 100037, P.R. China.*

Account No.: *0200001409014435189*

Swift Code: *ICBKCNBJBJM*

※ Please write " ICCSC + name " in the place of "Message".

b. On-site Payment

※ Early-bird registrants can enjoy the early-bird price when paying on-site by credit card or cash.

Conference and Hotel Venue

Holiday Inn Nanjing Qinhuai South, Nanjing, China

Address: *NO.21 Mozhou East Road, Jiangning District, Nanjing, 211111*

Room rate: *500 CNY per night*

Booking: *Please fill the booking form and send to icccsc2024@sobute.com*

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Vice Chair

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Jinyang Jiang, Southeast University, China

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Wei She, Southeast University, China

Jiayuan Ye, China Building Materials Academy Co., Ltd., China

Pengkun Hou, University of Jinan, China

Junmei Hu, LC³ Global Project Manager, Switzerland

Xiaoxin Fu, The Chinese Ceramic Society, China

Cheng Yu, Sobute New Materials Co., Ltd., China

Xiaohui Zeng, Central South University, China

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The Chinese Ceramic Society

2024.1.18

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The Announcement
May 15-18, 2024, Nanjing, China

The 4th International Conference on Calcined Clays for Sustainable Conference (ICCCSC2024)

Hotel Reservation Form

Information					
Name		Gender		Nationality	
Affiliation					
Telephone					
Email					
Hotel Reservation					
Room type	<input type="checkbox"/> Single room		<input type="checkbox"/> Double room		
Duration of stay	Arrival:		Departure:		
Special requirement					
Pick-up service (Optional)					
Means	<input type="checkbox"/> By flight		<input type="checkbox"/> By train (<input type="checkbox"/> Nanjing <input type="checkbox"/> Nanjing South)		
Flight No./ Train No.					
Arrival time/date					

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