



# CIESC Annual Report 2018



**The Chemical Industry and Engineering Society of China (CIESC)**



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# President's Address

**Dear CIESC members and all friends,**

Spring has brought life and vitality to earth. After a fruitful and progressive 2018, we have ushered in 2019 full of great chapters. On behalf of the Council of the Chemical Industry and Engineering Society of China, I extend my sincere greetings to all colleagues in the petroleum and chemical industry and my heartfelt thanks to all levels of leaders and friends from all walks of life who have always supported the development of CIESC.

2018 marked the 40th anniversary of China's reform and opening up and was the first year for the full implementation of the guiding principles of the 19th CPC National Congress. It was also a year of great progress and fruitful achievements for CIESC. In the past year, under the leadership of the China Association for Science and Technology (CAST), with the support from all members and all sectors, CIESC adhered to the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era and the guiding principles of the 19th Party Congress, focused on the requirements of building China into a science and technology giant in the new era and reforming group organizations, and fulfilled "four services" responsibilities. A great deal of work was done in the areas of infrastructure, discipline development, think tank establishment, science popularization, scientific and technological public services, talent training and recommendation, and the integration among industry, academia and research, effectively improving the organizational capability, academic leadership, strategic support, cultural communication and international influence, and making due contributions to the development of the chemical technology and industry.



Over the past year, CIESC focused on academic leadership and organized more than 90 academic activities attracting over 12,000 participants. The international influence of the "International Olefin and Polyolefin Conference" and the "National Chemical Process Intensification Conference" continued to increase; Hou Debang Chemical Science and Technology Award became more influential; the first 20 Fellows of CIESC were elected. In 2018, CIESC focused on strategic support, advanced the Innovation-Driven Assistance project, held seven high-level academic events such as "2018 (Taizhou) International Pharmaceutical and Chemical Engineering Development Summit", made more than 200 achievements from scientific and technological exchange, and established the China Cyanamide Industry Strategic Alliance of Technological Innovation; expanded public services, and started the association standards making and revision work. CIESC actively undertook more than ten scientific and technological achievements evaluation projects, and explored the evaluation of scientific and technological talents. In terms of cultural communication, over the past year, CIESC compiled and published two popular science books, Chemical Products Around and Stepping into Chemical Industry, and successfully organized the "Beautiful Chemical, Wonderful Life" popular science activity, which showcased the importance

of chemical industry and improved citizens' scientific literacy. There were a lot of highlights in 12th National Chemical Engineering Design Competition, China Chem-E-Car Competition®, and China Chemical Safety and Engineering Practice Competition organized by CIESC. In the past year, in order to increase international influence, CIESC established the "International Green Technology Alliance" (IGTA) to lead the green technology innovation and international cooperation under the "Belt & Road" Initiative; the preparation for the 12th World Congress of Chemical Engineering and Asian Pacific Confederation of Chemical Engineering 2025 was progressed actively, and the organization framework for the congress began to take shape.

The work of the year has been fully recognized by all. CIESC won many awards such as the Excellent Association of CAST, and the Advanced Group of CAST and of the China Petroleum and Chemical Industry Association, etc. The number of individual members of CIESC increased by 36% to 15,000 as compared to 2017 and the number of organization members increased by 20. The members' cohesiveness and social influence continued to increase.

After 70 years of arduous work despite of hardship, China is rising. 2019 marks the 70th anniversary of the founding of the People's Republic of China and is a

crucial year for meeting the first centenary goal, namely ushering in a moderately prosperous society in all respects. CIESC will adhere to the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, and insist on the positioning of "four services" responsibilities. Guided by the work of building an excellent society, it will redouble its efforts in fostering the "five capabilities", improving the level of academic exchanges, attaching importance to science and technology incentives and talent recommendation, continuously providing quality public services, deepening the construction and services of science and technology think tanks, enhancing the influence and branding of popular science work, expanding international influence, and further promoting the construction of an open, hub-type and platform-oriented organization, so as to advance toward an excellent society with good social reputation, strong development capability,

high academic level and international influence.

The course of socialism with Chinese characteristics in the new era has been clearly defined. The great rejuvenation of the Chinese nation is moving ahead. The science and technology associations and the vast number of scientific and technological professionals shoulder new historic responsibilities. Let us unite more closely around the CPC Central Committee with Comrade Xi Jinping at its core, gather the strength of scientific and technological professionals to build China into a science and technology giant in the world, and strive for a great modern socialist country and the great rejuvenation of the Chinese nation.

Beautiful chemicals lead to a bright future. Let us wish that China's chemical industry would create greater glory. I wish all members and friends from all walks of life good health and all the best.

**President of the Council of the Chemical Industry and  
Engineering Society of China**  
**Academician of the Chinese Academy of Engineering**

戴厚良

# 2018 CIESC Annual Work Summary

Under the leadership of the China Association for Science and Technology (CAST) in 2018, the Chemical Industry and Engineering Society of China (CIESC) has done a great deal of effective work in the fields of academic discipline construction, scientific popularization, talent training and cultivation, public services and industry-university-research integration. The number of CIESC members is in rapid development and more experts are willing to support CIESC. All these efforts have greatly promoted CIESC's academic and international influence in chemical industry.

## I. Self-Building

### 1. Organizational Construction

CIESC Council and Supervisors bear full responsibilities and perform great functions. It strengthened its branch committee management and increased the service level for the members and industries. CIESC also set up Annual Report mechanism and publicized 2018 annual report.

### 2. Membership Development

CIESC optimized membership development and service. The membership system is able to delivering messages to each individual member to ensure a sound communication between members and CIESC secretariat.

CIESC integrated the membership management of branch committees into its information management system, and established the cooperative mechanism with local chemical industry societies for member development.

In 2018, CIESC set up Student Chapter system and admitted 5 colleges to become the members of the Chapter.

CIESC successfully launched election of "CIESC Fellow" while 20 outstanding experts won the honorary.

By the end of 2018, the number of individual members has increased to 15,000 compared with 11,000 in 2017.

## II. Academic Communication and Talent Cultivation

### 1. Academic Exchanges

In 2018, CIESC and its professional

committees organized more than 90 academic events with more than 12,000 attendees throughout the year.

## 2. Hou Debang Chemical Science and Technology Award

In 2018, the number of Hou Debang Chemical Science and Technology Award applicants reached the highest level compared with previous years, and 48 candidates won the prize, accounting for 34% of the total number of applicants. In 2018, Hou Debang Chemical Science and Technology Award ranked the third in the materials, energy, environmental resources group (a total of 18), according to the third party evaluation of the Social Science and Technology Award organized by the State Award Office.

## 3. Talent Recommendation

CIESC recommended more than 10 candidates to domestic and overseas awards, including CAST Young Talents Project, the Ministry of Education Youth Science Award, the National Excellent Science and Technology Staff in Petroleum and Chemical Industry, the Chinese Young Female Scientist Award, and SCEJ Award for Outstanding Asian Researcher and Engineer. Owing to reasonable evaluation system, the recommendation success rate is improving that talents are paying more attention to CIESC's recommendation.

## III. Think Tank Consultation

### 1. Innovation-Driven Project

CIESC held a total of 7 forums and meetings to meet local innovation-driven project needs which has brought more than 200 technology achievements announcing. 14 docking workshops have been organized in a whole year with more than 100 experts participated. 7 cooperation agreements between local governments and enterprises had been signed. 3 CIESC workstations have been set up. 2 advisory proposals have been successfully submitted to local governments for decision-making.

CIESC led the establishment of China Cyanamide Industry Strategic Alliance of Technological Innovation and has accepted 16 Alliance members from companies, universities and research institutions.

### 2. Socialization of Public Services

CIESC initiated the revision of the group standard system, formulated the measures for CIESC Administration of the Group Standards (trial), set up the Working Committee of CIESC Group Standards, and examined and approved three projects for the establishment of the group standards.

CIESC led and set up CAST Chemical New Materials Industry Collaborative Innovation Community. 8 achievements of petrochemical and fine chemical science

and technology have been evaluated.

CIESC carried out evaluation work of talent personnel. As the Deputy Secretary-General of the Chemical Engineering and Pharmacy Sub-committee of the Undergraduate Engineering Education Certification (Washington Accord), CIESC conducted 14 certifications of Chemical Engineering and Materials Specialty in national Colleges and Universities throughout the year.

### 3. Disciplines Construction

CIESC undertook the examination on "Chemical Nouns" (Definitions) entrusted by the National Science and Technology Nomenclature Verification Committee. The books named "Fundamental Organic Chemical Engineering" and "Fundamental Chemical Engineering" are in the process of publishment. The third edition of chemical disciplines in Encyclopedia of China was compiled smoothly.

### 4. Soft Research Project

Soft Research Projects with the topics of new energy materials, energy storage technology, advanced basic materials, advanced petrochemical basic materials were carried out successfully.

## IV. Popularization of Science

### 1. Book Compilation

CIESC organized and compiled two

popular common science books - "Chemical Products Around" and "Stepping into Chemical Industry", showing the important role and contribution of chemistry and chemical industry for creating a better life for the humans.

### 2. Resource Sharing

CIESC carried out theme activity of "Science Camp for Teachers of Primary and Secondary Schools in Guangxi" in 2018. Academicians and experts were invited to give lectures on science popularization. CIESC members are encouraged to open up high-quality science popularization resources to the society.

### 3. Youth Science Popularization

CIESC organized several competitions in 2018. National Mathematics Physics Science Popularization Competition was held for middle school students. More than 5,000 students participated and in which 361 won the prize.

12th National Chemical Engineering Design Competition for Chinese undergraduate students was held. 1,852 teams from 333 colleges and universities signed up to participate while the audience reached more than 9,000.

In the second China Chem-E-Car Competition<sup>®</sup>, 25 teams from outstanding colleges and universities attended with more than 300 audiences. Tsinghua

University and Tianjin University were selected to participate in the international Chem-E-Car Finals sponsored by the American Institute of Chemical Engineers (AIChE) and got good results.

The first South China Chemical Safety and Engineering Practice Competition was successfully held with 35 teams from 22 universities in South China participated in and more than 90 students won the prize.

### V. International Communication

CIESC established information sharing and communication mechanisms with international organizations, such as the World Chemical Engineering Council (WCEC), Asian Pacific Confederation of Chemical Engineering (APCCChE) and the European Federation of Chemical Engineering (EFCE).

Besides closely communicating with organizations of other countries such as AIChE, DECHEMA and SCEJ, CIESC set up cooperative relationship with French Society of Process Engineering, (SFGE), to explore the all-round cooperation in the fields of academic exchange, engineer certification and project cooperation, started with jointly promoting the work of the 2019 International Process Intensification Conference (IPIIC).

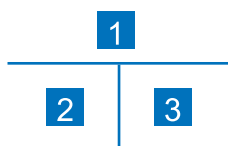
Owing to great effort by CIESC Ionic

Liquids Committee and Institute of Process Engineering, Chinese Academy of Sciences, the International Green Technology Alliance (IGTA) has been successfully established.

CIESC promoted China's chemical safety education to meet the international standards by introducing 10 process safety certification courses from AIChE. The courses have been incorporated into the "Public Service platform for Chemical Safety Education", which cooperates with Chemical Industry Press.

CIESC actively prepared the 12th World Congress of Chemical Engineering and Asian Pacific Confederation of Chemical Engineering 2025, presented the organizational framework of the Preparatory Committee for the Conference.

## 2018 CIESC Key Events



- ① 2018 International Olefin and Polyolefin Conference (IOPC)
- ② 2018 Green Chemical Industry Summit and 1st National Chemical Process Intensification Conference
- ③ 10th Hou Debang Chemical Science and Technology Award



- ① 1st CIESC Fellow Election
- ② Establishment of International Green Technology Alliance (IGTA)
- ③ 2018 National Conference and Exhibition of Comprehensive Pollution Control for Chemical Industry and Parks
- ④ 2018 China Oilfield Chemistry Academic Forum
- ⑤ Chemical Industry Technology Achievement Evaluation
- ⑥ CIESC Group Standard Revision Meeting

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## 中国化工学会 2018 年重点活动



2018 China (Changxing) New Energy Technology and Industry Summit



2018 (Taizhou) International Pharmaceutical and Chemical Engineering Development Summit



2018 China (Taishan) Green Manufacturing, Three Wastes Treatment and Intelligent Park Construction Conference



2018 China (Deyang) Green Development of Resource Chemical Industry Conference



Establishment of China Cyanamide Industry Strategic Alliance of Technological Innovation



2018 Yangtze River Economic Zone (Jiujiang) Petrochemical Industry Green Development Summit



① Chemical Products Around

② Stepping into Chemical Industry



12th National Undergraduates Chemical Engineering Design Competition



2018 China Chem-E-Car Competition®



1st South China Chemical Safety and Engineering Practice Competition

## Brief Introduction of CIESC

### I. General Introduction

The Chemical Industry and Engineering Society of China (CIESC), founded on April 23, 1922, is a national academic non-profit social organization, affiliated to the Chinese Association for Science and Technology (CAST).

CIESC works on progress and development of chemical science and technology in China. By the end of 2018, more than 160 companies or entities and more than 15,000 individual registered as CIESC's members. CIESC has 5 working committees and 35 professional committees. CIESC is the supervisor of 27 provincial chemical industry associations. CIESC 40th Council Board includes 181 councilors in which there are 60 executive councilors.

CIESC sponsors 4 academic journals: *CIESC Journal*, *Chemical Industry and Engineering Progress*, *Chinese Journal of Chemical Engineering (English Edition)* and *Energy Storage Science and Technology*.

CIESC has extensive contacts with international academic organizations, and has established bilateral and multilateral exchanges and cooperation with more than 10 international organizations, such as the American Institute of Chemical Engineers (AIChE), The Society of Chemical Engineers, Japan (SCEJ), German Society for Chemical Engineering and Biotechnology (DECHEMA), The Institution of Chemical Engineers (IChemE) and Korean Institute of Chemical Engineers (KIChE).

CIESC is one of the 9 members of the Executive Committee of World Chemical Engineering Council (WCEC) and one of the 13 full members of the Pacific Asian Confederation of Chemical Engineering (APCCChE). CIESC won the right to host 12th World Congress of Chemical Engineering and Asian Pacific Confederation of Chemical Engineering 2025.

In order to promote domestic and international academic exchanges and development on chemical science and technology, and to support the growth of chemical science and technology talents, CIESC will continue to do great effort on academic exchanges,

socialized public service, scientific popularization, think tank consultation, discipline construction, talent recommendation and international cooperation.

### II. CIESC Working Committees

Editorial Working Committee

Academic Working Committee

International Cooperation Working Committee

Continuing Education on Science Popularization Working Committee

Organizational Working Committee

### III. CIESC Professional Committees

CIESC professional committees are established in accordance with the development needs of academic, research, application and production in chemical industry and related fields. The professional committees are under the leadership and management of CIESC without legal qualification. There are 35 professional committees by the end of 2018.

Agricultural Chemicals Committee

Biochemical Engineering Committee

Chemical Engineering Committee

Chemical Fertilizer Committee

Chemical Machinery Committee

Chemical New Materials Committee

Chemical Process Automation and Instrumentation Committee

Chemical Process Intensification Committee

Chemical Process Safety Committee

Coal Chemical Engineering Committee

Coatings & Finishing Committee

Daily Chemical Products Committee

Dyestuffs Committee

Energy Storage Engineering Committee

Environmental Protection Committee

Filtration and Separation Committee

Fine Chemical Engineering Committee

Industrial Water Treatment Committee

Information Technology Applications Committee

Inorganic Acids, Bases and Salts Committee

## 2018 年学会期刊业绩

Ionic Liquids Committee  
Microwave Power Application in Chemical Industry and Engineering Committee  
Mining Engineering Committee  
Mixing and Agitation Committee  
Petrochemical Engineering Committee  
Petrochemical Ecological Engineering Committee  
Petrochemical Equipment Maintenance Committee  
Rubber and Plastics Green Manufacturing Committee  
Rubber Institute Committee  
Simulation & Virtual Process Engineering Committee  
Specialty Chemicals Engineering Committee  
Sulfur, Phosphorus and Titanium Resource Chemicals Committee  
Supercritical Fluids Committee  
Thermochemistry and Engineering Committee  
Waterborne Technology Application Committee

## IV . CIESC Journals

### 1.CIESC Journal

<http://www.hgxb.com.cn>

ISSN 0438-1157

CN 11-1946/TQ

Founded in 1923, CIESC Journal is a monthly magazine. It mainly publishes original academic papers in chemical industry and related interdisciplinary fields, representing the basic and applied research level of China.

### 2.Chemical Industry and Engineering Progress

<http://www.hgjz.com.cn>

ISSN 1000-6613

CN 11-1954/TQ

Founded in 1981, Chemical Industry and Engineering Progress is a monthly magazine. It focuses on scientific research, technology and industry, reflects the latest achievements and trends of chemical industry in China and abroad, introduces new technologies, disseminates chemical knowledge to promotes the progress of chemical science and technology.

### 3.Chinese Journal of Chemical Engineering (English Edition)

<http://www.cjche.com.cn>

ISSN 1004-9541

CN 11-3270/TQ

Founded in 1982, The Chinese Journal of Chemical Engineering is a bimonthly journal. The aim of the journal is to develop the international exchange of scientific and technical information in the field of chemical engineering. It publishes original research papers that cover the major advancements and achievements in chemical engineering in China as well as some articles from overseas contributors.

### 4.Energy Storage Science and Technology

<http://www.energystorage-journal.com>

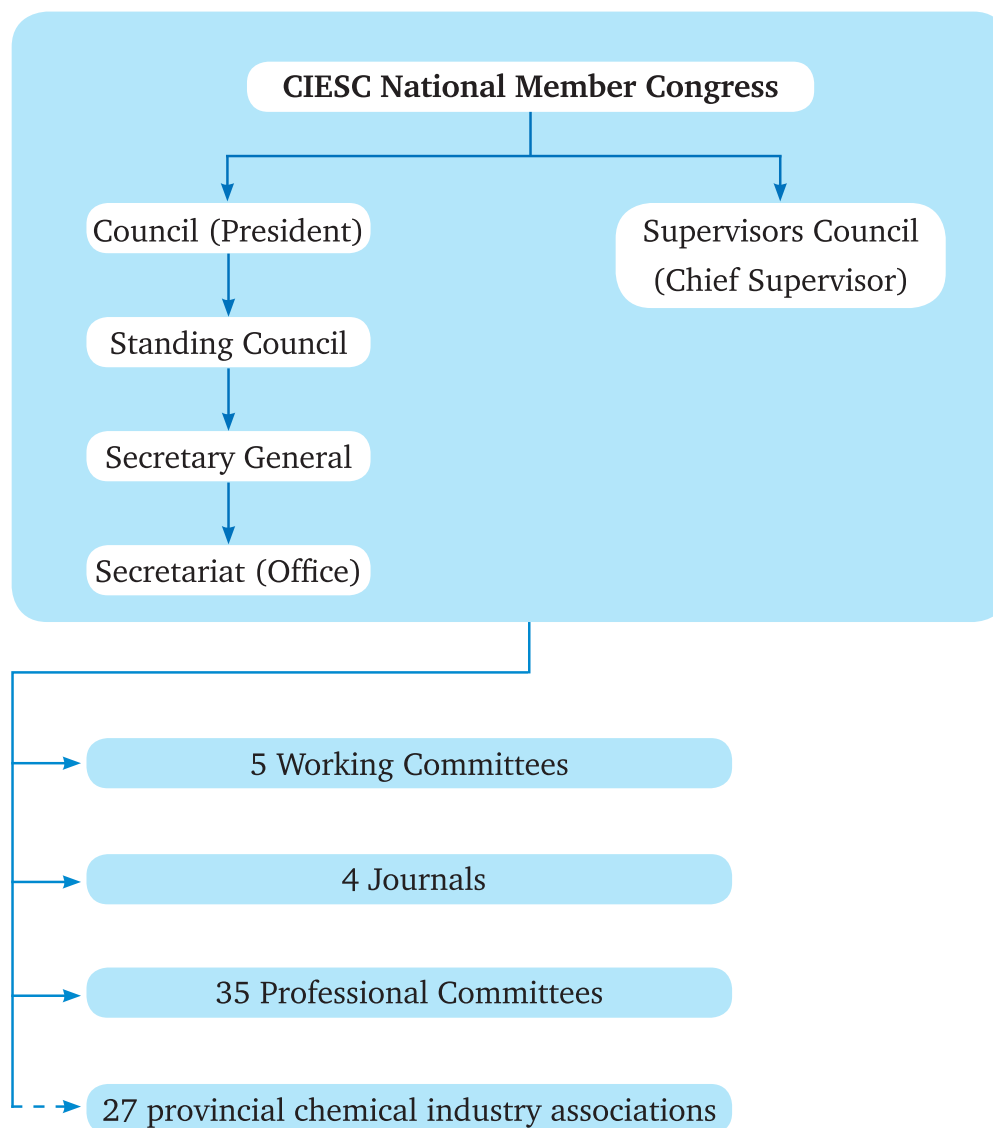
ISSN 2095-4239

CN 10-1076/TK

Founded in 2012, Energy Storage Science and Technology is a bimonthly journal. It focuses on energy storage industry in academic research, technology application, industry trend and etc.



## CIESC Organization Chart



## Attachment

### CIESC Secretariat Contact

The Chemical Industry and Engineering Society of China (CIESC)

Add: 7F, Unit B, Huaxin Mansion, No.33 Anding Rd.,

Chaoyang District, Beijing, 100029, P.R.China

Tel: +86-10-6444 1885

Fax: +86-10-6441 1194

Email: admin@ciesc.cn

Web: www.ciesc.cn

### CIESC Professional Committees Contact:

No.	Committee Name	Committee Secretary General	Tel	Email
1	Agricultural Chemicals	ZHANG Minheng	86-24-86859187	zhangminheng@sinochem.com
2	Biochemical Engineering	WU Zhenyi	86-10-62311037	wzy@263.net
3	Chemical Engineering	CHEN Xiaochun	86-10-64429057	chenxc@mail.buct.edu.cn
4	Chemical Fertilizer	LIU Hong	86-21-52803605	Sh62736666@163.com
5	Chemical Machinery	SUN Mingye	86-931-7310688	jsc@cthkj.com.cn

## 附录

No.	Committee Name	Committee Secretary General	Tel	Email
6	Chemical New Materials	ZHANG Xiaofeng	86-10-64433718	zhangxf@mail.buct.edu.cn
7	Chemical Process Automation and Instrumentation	LI Hongguang	86-10-64434797	lihg@mail.buct.edu.cn
8	Chemical Process Intensification	DU Jinxiang	86-10-64519148	dujinx@sina.com
9	Chemical Process Safety	ZHANG Shucai	86-532-83786653	zhangsc.qday@sinopec.com
10	Coal Chemical Engineering	HUANG Lijuan	86-10-64519466	huagongjz@126.com
11	Coatings & Finishing	CHEN Hong	86-519-83299523	chenhong15@cnooc.com.cn
12	Daily Chemical Products	JI Hongbing	86-13600450733	jihb@mail.sysu.edu.cn
13	Dyestuffs	WANG Ying	86-24-85869219	wangying3@sinochem.com
14	Energy Storage Engineering	XI Xiangli	86-10-64519601	Esst_edit@126.com
15	Environmental Protection	LI Hesheng	86-10-59202231	Lihsh.bjhy@sinopec.com

No.	Committee Name	Committee Secretary General	Tel	Email
16	Filtration and separation	WANG Shiyong	86-21-52815377-0415	wsy023@163.com
17	Fine Chemical Engineering	ZHONG Xiaoping	86-10-64263223	zykjzlb@sina.com
18	Industrial Water Treatment	LIU Yanfei	86-22-26689023	lyf@iwt.cn
19	Information Technology Applications	JIANG Yan	86-10-64444098	jiangyan@itsc.chemchina.com
20	Inorganic Acids, Bases and Salts	LIU Yanfei	86-22-26689023	lyf@iwt.cn
21	Ionic Liquids	LI Chunshan	86-10-82544875	csli@home.ipe.ac.cn
22	Microwave Power Application in Chemical Industry and Engineering	ZHU Huacheng	86-28-85470659	zhuhuacheng@126.com
23	Mining Engineering	ZHANG Dianji	86-13871012250	dianjizhang@wit.edu.cn
24	Mixing and Agitation	LIU Zuohua	86-23-65678932	liuzuohua@cqu.edu.cn
25	Petrochemical Engineering	XIA Xianzhi	86-10-59202600	xiaxz.bjhy@sinopec.com

No.	Committee Name	Committee Secretary General	Tel	Email
26	Petrochemical Ecological Engineering	QU Tao	86-411-39699712	qutao.fshy@sinopec.com
27	Petrochemical Equipment Maintenance	BAI Hua	86-10-59964525	baih@sinopec.com
28	Rubber and Plastics Green Manufacturing	LI Shuqin	86-18610609519	xsgy2025@163.com
29	Rubber Institute	HUANG Liping	86-10-51338216	huanglp86@qq.com
30	Simulation & Virtual Process Engineering	WANG Limin	86-10-82544942	lmwang@ipe.ac.cn
31	Specialty Chemicals Engineering	LIU Feng	86-371-67763385	liufeng@zzu.edu.cn
32	Sulfur, Phosphorus and Titanium Resource Chemicals	WANG Xinlong	86-28-85408098	wangxl@scu.edu.cn
33	Supercritical Fluids	BAO Zongbi	86-571-87952773	baozb@zju.edu.cn
34	Thermochemistry and Engineering	WANG Kangjun	86-13940559792	angle_79@163.com
35	Waterborne Technology Application	CHEN Hong	86-519-83299523	chenhongpci@163.com

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中国化工学会网址

中国化工学会

地址：北京市朝阳区安定路33号化信大厦B座7层（邮编：100029）

电话：010-6444 1885

传真：010-6441 1194

邮箱：admin@ciesc.cn

网址：www.ciesc.cn

The Chemical Industry and Engineering Society of China ( CIESC )

Add: 7F, B Unit, Huaxin Mansion, No.33 Anding Rd., Chaoyang District, Beijing, 100029, P.R.China

Tel: +86-10-6444 1885

Fax: +86-10-6441 1194

Email: admin@ciesc.cn

Web: www.ciesc.cn