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## **President's Address**



Dear CIESC members and all friends,

With the coming of spring, the earth is taking on a fresh look and everything is showing new momentum. As we bid farewell to the extraordinary 2020 and usher in a promising 2021, I would like to, on behalf of the Council of the Chemical Industry and Engineering Society of China (CIESC), extend sincere greetings and best wishes to all colleagues in the petroleum and chemical industry, as well as our partners and friends who have all along supported the development of CIESC.

The year 2020 was both extraordinary and challenging. Guided by the Xi Jinping thought on socialism with Chinese characteristics for a new era, we deeply aware that our era is featured by a new development stage, new development philosophy and new development paradigm. We need to work to see that science and technology development must target the global science frontiers, serve the main economic battlefield, strive to fulfill the significant needs of the country, and benefit people's lives and health.

Centering on critical issues and core technologies in the chemical industry, CIESC pooled strength from all our members, strived for a leapfrog development in science and technology, delivered closer alignment between technology and economy, and created synergy through joint efforts of enterprises, universities, and research institutes. We surmounted difficulties and shouldered our responsibilities to provide strong support and contribute to COVID-19 response as well as economic and social development. Taking this opportunity, I'd like to express my heartfelt gratitude to all the people in the chemical industry.

During the past year, CIESC remained committed to its aspiration and kept forging ahead. We called on all our members to join in the nationwide COVID-19 prevention and control campaign, and gave full play to their advantages in quick response, material supplies, as well as R&D. CIESC played its due part in the national fight against the virus, which spoke volumes about the chemical industry's resolve to navigate this testing time.

During the past year, CIESC focused on its responsibilities and beefed up its function of support. To serve the overall development of the country, CIESC gave full play to organization members' respective strength and the collective wisdom of the individual members. We organized more than 100 academic events, including "CIESC Science and Technology Innovation Conference" and "Process Intensification Conference", effectively enhancing our academic capacity in steering the chemical science and technology advancement.

We also organized "Hou Debang Chemical Science and Technology Award" and "CIESC Science and Technology Award". With a well-designed incentive system in place, CIESC has become a strong driver of frontier technology advancement and at the same time fully motivated scientific brains. CIESC took the initiative in building a high-level think tank of chemical experts, carried out "Smart Action" for targeted services, and promoted "Innovation China" initiative in all areas.

CIESC pushed hard for the science and technology advancement, and moved faster to build up advantages in supporting R&D. We actively turn science and technology innovation into productivity, and helped to move the chemical industry up to the medium and high end of the global value chain, thus better served and spurred high quality social and economic development.

During the past year, CIESC acted in line with the national strategy that "China upholds the central role of innovation in its modernization drive and identifies self-reliance in science and technology as the strategic support to China's national development".

We produced popular science booklets like Chemical Industry in the Fight against COVID-19 that won wide applause. Hou Debang's Lecture Hall, CIESC's online lecture series named after a renowned Chinese chemist, inherited and carried forward the scientist spirits. We also formulated the CIESC Code of Ethics, which serves the common interests of the academic community and helps to foster a healthy and clean academic environment.

During the past year, we took initiative to integrate into the global innovation network, and boosted innovation through international cooperation on science and technology. We seized the historic opportunity arising with the new development paradigm and elevated our international exchange and cooperation to a new high.

Faced with the sudden outbreak of COVID-19, CIESC shared updates on China's fight against the epidemic in an open, transparent and responsible manner with 7 international organizations including the World Chemical Engineering Council, which was highly recognized by the international community.

In 2020, we were admitted into the Engineering Capability Building Alliance of CAST (China Association for Science and Technology), and started to prepare for the International Mutual Recognition of chemical engineering qualifications, in an effort to make our due contribution in establishing a new order and new pattern in the international chemical and energy industry.

We deepened global partnerships, combined "bringing in" with "going global", and continued to promote cooperation among international science and technology organizations along the "Belt and Road", which marked a step forward in building an international chemical community of partnership and

shared interests.

During the past year, under the leadership of CAST and the Council of CIESC, we achieved continuous improvements in mass organization, academic leadership, strategic support, cultural communication, and international influence. In 2020, CIESC won a number of honors, including several annual awards bestowed by CAST that recognized our excellence in COVID-19 response, science and technology award system, as well as popular-science efforts. Over the last year, our individual members increased by more than 50% reaching 30,000, and organization members grew by 26, representing a bigger family with a stronger influence.

In the long journey against strong wind, we set out anew with arduous tasks. As the beginning year of the 14th Five Year Plan, 2021 is of special significance in China's modernization drive. At the historic crossroad of the "Two Centenary Goals," the new map of building a modern socialist country in all aspects is unfolding. In this year, we will improve our capabilities to keep up with the new development stage, follow the new development philosophy, and foster new development paradigm.

CIESC will carry on to lead our members to forge ahead in driving development with innovation, developing an enabling system for innovation as a priority, and fully implementing our national deployment on innovation, so as to make new contributions.

As we embrace the year of the ox, I would like to, on behalf of the CIESC Council, extend warmest New Year greetings to all of you. I wish health and happiness to all our members and friends. And I wish continued success and prosperity to our industry and our nation.



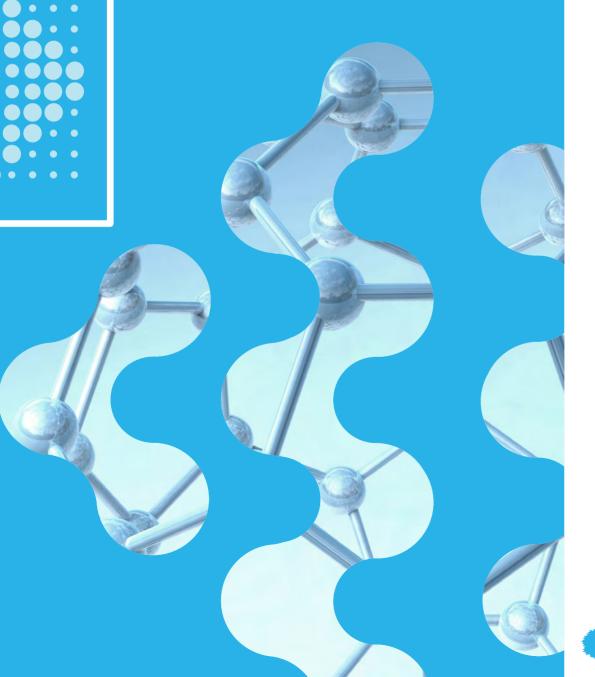
Dai Houliang

President of the Council of the Chemical Industry and Engineering Society of China

Member of the Chinese Academy of Engineering

# **2020 CIESC ANNUAL REPORT**

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In 2020, COVID-19 suddenly broke and affected the world's politics and economy. Under the strong leadership by President Xi Jinping of the CPC Central Committee, the epidemic has been controlled and China entered the stage of normalization. In this extraordinary year, supervised by the China Association for Science and Technology (CAST), and with the support of council members and chemical science and technology personals, CIESC has made outstanding progress on academic exchanges, science popularization, personnel training, talent recommendation, science and technology public service, strategic consultation, cultural communication and international influence.



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## **ORGANIZATIONAL CONSTRUCTION**



By the leadership of the Party, CIESC strived to enhance the work of science and technology and serve for the members and public.

CIESC continued to make the advantages of the society and integrated in epidemic prevention and control. CIESC encouraged individual members and units to take the initiative in the fight against the epidemic, explored outstanding individuals to share their experience, and empowered people in the fight against the epidemic in the chemical industry.

CIESC continued to deepen the implementation of the society construction system reforming. It adhered to work in accordance with the rules and regulations, and convened board meetings and supervisory meetings on time. CIESC strengthened the construction of the internal management system, standardized and improved the employment and salary management. It focused on strengthening branch management on formulating and promulgating a series of regulations and documents.

In 2020 CIESC vigorously developed youth and student members, and continued to promote the construction of "CIESC Student Chapter". Cooperated with the Chemical Teaching Steering Committee of the Ministry of Education, CIESC built a resource sharing platform for universities, research institutes, societies and enterprises. CIESC drafted engineering ethics code, and established the volunteer service team of science and technology.

The member information system has been upgraded, and the member reward system and engineer capability level evaluation system have been completed. In 2020, more than 8,000 individual members have been increased while the total number achieved 30,000 with an increase of 37% and 30 new unit members have joined CIESC.





## **ACADEMIC EXCHANGE AND TALENT REWARD**



In 2020, CIESC and its professional committees organized more than 100 academic activities. A series of online lectures, trainings, and public welfare activities were conducted under the epidemic situation, and more than 100,000 scientific and technological personals participated. The first CIESC Chemical Science and Technology Innovation Conference, National Chemical Process Intensification Conference, National Ionic Liquid and Green Process Conference, China Industrial Water Conference, National Energy Storage Science and Technology Conference, National Engineering Thermochemistry Conference and etc. have been successfully held.

In 2020, 35 outstanding scientific and technological achievements were successfully selected and awarded in "CIESC Science and Technology Award", 9 "CIESC Fellows" and 49 "Hou Debang Chemical Science and Technology Award" winners were selected. Furthermore, CIESC recommended nominees to the 2nd Innovation Competition Award, Ministry of Education Science and Technology Award and other national recommendations awards. CIESC won the bidding of CAST "Science and Technology Award Demonstration Society Construction Project" this year.

The outstanding journal plan has been implemented. Besides 3 first-class journals, 11 other technical journals executed by CIESC professional committees were listed in the promotion plan. A 4-year compilation and publication of 20 sub-volumes named "Chemical Process Intensification Series" was completed.

# INTEGRATION OF SCIENCE, TECHNOLOGY AND ECONOMY



A high-end chemical science and technology think tank team and a volunteer service group were established in 2020. A 500 hundred expert team has been formed in which near 100 experts were invited to join in construction of the "Science and Innovation China" pilot city of China. In 2020, CIESC signed several strategic cooperation agreements or reached cooperation intentions with 6 local science associations.

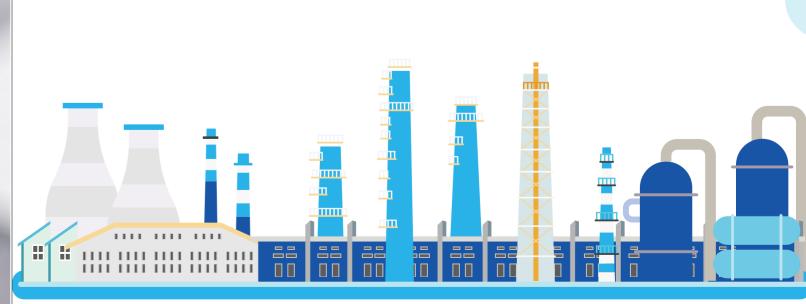
This year, more than 300 key common achievements have been sorted out for technology achievements transformation for the construction of 22 pilot cities awarded by the CAST "INNOVATION CHINA" honor. 10 provinces and regions demand docking projects have been completed while more than 60 experts have been organized to advise 100 requirements in more than 30 fields.





In 2020, 20 scientific and technological achievement evaluations were carried out, 16 projects have been reviewed and approved for the establishment of group standards, and 21 projects were under research. 14 items were officially approved for release. 2020 was the first year to carry out the certification of chemical engineers in China that 41 engineers have been accredited. Undergraduate education certification was normally carried out.

CIESC undertook the key project named "Research on Shandong Science Plan and Engineering" affiliated with 2020 CAST Annual Conference; joined in Chinese Academy of Engineering "2035 China Basic Material Green Manufacturing Technology Roadmap" project; organized the research on the petrochemical and chemical sub-project of "Strategic Research on the 2035 New Material". The development strategy consultation of Pingyang County's plastic packaging industry report has been completed.





# SCIENCE POPULARIZATION AND CULTURAL COMMUNICATION



During the anti-epidemic period, CIESC organized and released a series of popular science works such as "Chemical and Epidemic Control"; gave a series of lectures on "Chemical Industry in the Fight against COVID-19"; introduced the important role of chemical raw materials and products in the epidemic prevention; and displayed outstanding personnel samples from chemical companies. The "Proposal on Strengthening Chemical Science Popularization" was issued, calling on experts, scholars and practitioners in education, scientific research and production in the chemical industry to actively participate in the work of chemical science popularization.

CIESC compiled and published a series of popular science works such as "Magic Stable Isotopes" "Chemicals and Life", "Chemicals and Society", "Understanding Chemicals", "Unpredictable Carbon Elements", and organized "Beirut Port Bombing in Lebanon" for emergent accident popularization.

The 14th National Chemical Design Competition for undergraduates attracted 367 colleges and universities while 2,323 teams signed up for the competition with more than 11,000 participants.

The 4th China Chem-E-Car Competition, which attracted more than 300 contestants from more than 30 universities, has been smoothly held. The second "SCIP+" Green Chemistry and Chemical Engineering Innovation and Entrepreneurship Contest was organized.

CIESC continued to undertake national cultural engineering projects such as "Chinese Terms" verification as a member of National Scientific and Technical Terms Review Committee, and published the sub-volumes "Safety, Environmental Protection, and Sustainable Development" and "Chemical Planning, R&D, Engineering Construction and Industrialization". The first draft of the eight branches of chemical engineering and basic organic chemical engineering in the compilation of the third edition of the "Encyclopedia of China" was completed.

The "Hou Debang's Lecture Hall" was initiated and extensively attracted well-known academicians and experts to give lectures on cutting-edge academy, science and technology, personnel growth and etc.





## <\$> INTERNATIONAL COMMUNICATION



On February 20, 2020, CIESC President Dai Houliang sent letters to 7 friendly international chemical organizations or societies such as the World Chemical Engineering Council (WCEC) and the European Federation of Chemical Engineering (EFCE), informing that the Chinese people and the Chinese government were united in one heart to fight against COVID-19. The seven organizations all responded and expressed their appreciation for the strict measures taken by China to respond to and overcome the epidemic. On June 11, CIESC issued a solemn statement in response to the article on discriminatory views published in Angewandte Chemie International Edition. The statement received extensive attention from the chemical industry circles at home and abroad. Shortly after its publication, an open letter from the journal was received, expressing an apology and the willingness of Chinese scientists to carry out friendly cooperation.

CIESC continued to promote the development of science and technology "Belt & Road" international science and technology cooperation platform construction project. The online "2020 International Green Technology Training Course" and "International Symposium on Green Upgrading of Anti-bactericidal Chemical Products" were successfully held.

The international mutual recognition of engineer qualifications was initiated. A chemical engineering professional evaluation steering committee was set up and a research on the engineers of "going out" companies in the chemical industry report was completed.

CIESC learnt from the relevant experience of AIChE and IChemE to promote the drafting of the "CIESC Code of Ethics ". The second "International Outstanding Young Chemical Engineer Award" was jointly launched with the Global Academy of Chinese Chemical Engineers (GACCE), and recommended 1 person to be selected for the 2020 "SCEJ Award-Outstanding Asian Researcher and Engineer ".

In general, under the epidemic situation in 2020, CIESC closely focuses on the key work of building a world-class society with Chinese characteristics and have effectively improved the "five major capabilities of mass organization, academic leadership, strategic support, cultural communication, and international influence.", and achieved a new leapfrog development.







2020 CIESC Science and Technology Innovation Conference

2nd China Intelligent Refining Summit













2020 China Petrochemical Equipment Maintenance Technology

2020 CIESC Fellow Award Ceremony

2020 Hou Debang Chemical Science and Technology Award Ceremony



2020 CIESC Science and Technology Award Ceremony



CIESC Pingyang Service Station for Science, Technology and Economy Integration Unveiling Ceremony



Association Standard Formulation and Revision











Ningxia Green Cyanamide and New Chemical Material Research Institute Unveiling Ceremony

Research on Shandong Science
Plan and Engineering

Chemical Engineer Professional Accreditation



Science and Technology Service Group for Yueyang

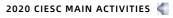






Hou Debang's Lecture Hall















2020 (4<sup>th</sup>) China Chem-E-Car Competition®



2020 "SCIP+" Green Chemistry and Chemical Engineering Innovation and Entrepreneurship Contest

14<sup>th</sup> National Chemical Engineering Design Competition for Chinese Undergraduate Students



6<sup>th</sup> Board Meeting of the 40<sup>th</sup> CIESC Board Coucil



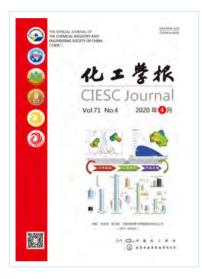
## **CIESC Journals**





### **CIESC JOURNAL**

http://www.hgxb.com.cn



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.

ISSN 0438-1157

CN 11-1946/TO



## CHEMICAL INDUSTRY AND ENGINEERING PROGRESS

http://www.hgjz.com.cn



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.

ISSN 1000-6613

CN 11-1954/TQ



# CHINESE JOURNAL OF CHEMICAL ENGINEERING (ENGLISH EDITION)

http://www.cjche.com.cn



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.

ISSN 1004-9541

CN 11-3270/TO



## ENERGY STORAGE SCIENCE AND TECHNOLOGY

http://www.energystorage-journal.com



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.

ISSN 2095-4239

CN 10-1076/TK



# > | Journals Sponsored by CIESC Professional Committees

No	Professional Committee	Journal
1	Petrochemical Engineering	Petrochemical Technology
2	Environmental Protection	Environmental Protection of Chemical Industry
3	Dyestuffs	Dyestuffs and Coloration
4	Inorganic Acids, Bases and Salts	Inorganic Chemicals Industry
5	Chemical Machinery	Chemical Engineering & Machinery
6	Fine Chemical Engineering	Fine Chemicals
7	Coatings & Finishing	Powder Coatings & Finishing
8	Coatings & Finishing	Coating and Protection
9	Agricultural Chemicals	Agrochemicals
10	Chemical Fertilizer	Fertilizer & Health
11	Chemical New Materials Specialty Chemicals Engineering	New Chemical Materials





#### **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 has been working on progress and development of chemical science and technology in China. By the end of 2020, 198 companies or entities and more than 30,000 individual registered as CIESC's members. CIESC has 6 working committees and 37 professional committees. CIESC is the supervisor of 27 provincial chemical industry societies. CIESC 40th Council Board includes 184 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) and Energy Storage Science and Technology.

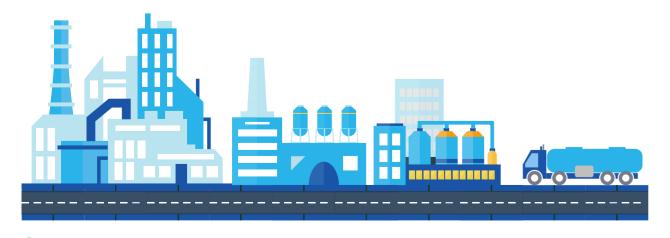
CIESC has extensive contacts with international academic organizations, and has established bilateral and multilateral exchanges and cooperation with more than 10 international organizations, such as the American Institute of Chemical Engineers (AIChE), The Society of Chemical Engineers, Japan (SCEJ), 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 (APCChE). 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.

#### **CIESC Working Committees**

Academic Working Committee
International Cooperation Working Committee
Continuing Education on Science Popularization Working Committee
Organizational Working Committee
Editorial Working Committee
Engineering Ethics Education Committee



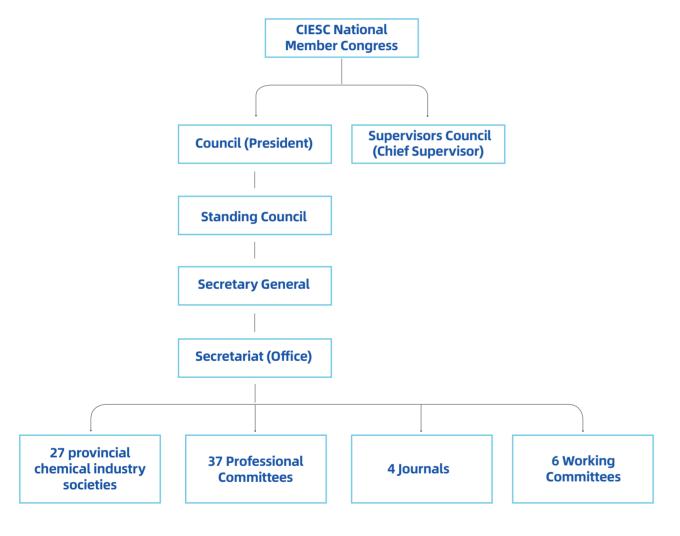
#### **CIESC Professional Committees**

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 37 professional committees by the end of 2020.

Agricultural Chemicals	Information Technology Applications
Biochemical Engineering	Inorganic Acids, Bases and Salts
Chemical Engineering	Ionic Liquids
Chemical Fertilizer	Microwave Power Application in Chemical Industry and Engineering
Chemical Machinery	Mixing and Agitation
Chemical New Materials	Petrochemical Archives
Chemical Process Automation and Instrumentation	Petrochemical Ecological Engineering
Chemical Process Intensification	Petrochemical Engineering
Chemical Process Safety	Petrochemical Equipment Maintenance
Coal Chemical Engineering	Rare Earth Catalysis and Process
Coatings & Finishing	Rubber and Plastics Green Manufacturing
Daily Chemical Products	Rubber Institute
Dyestuffs	Simulation & Virtual Process Engineering
Energy Storage Engineering	Specialty Chemicals Engineering
Environmental Protection	Sulfur, Phosphorus and Titanium Resource Chemicals
Filtration and Separation	Supercritical Fluids
Fine Chemical Engineering	Thermochemistry and Engineering
Hydrocarbon Resources Processing and Utilization	Waterborne Technology Application
Industrial Water Treatment	

# **CIESC Organization Chart**





#### **CIESC Secretariat Contact**

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Fax: +86-10-6441 1194
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2	Biochemical Engineering	WU Zhenyi	010-62311037	wzy@263.net
3	Chemical Engineering	CHEN Xiaochun	010-64429057	chenxc@mail.buct.edu.cn
4	Chemical Fertilizer	LIU Hong	021-52803605	Sh62736666@163.com
5	Chemical Machinery	SUN Mingye	0931-7310688	jsc@cthkj.com.cn
6	Chemical New Materials	ZHANG Xiaofeng	010-64433718	zhangxf@mail.buct.edu.cn
7	Chemical Process Automation and Instrumentation	LI Hongguang	010-64434797	lihg@mail.buct.edu.cn
8	Chemical Process Intensification	DU Jinxiang	010-64519148	dujinx@sina.com
9	Chemical Process Safety	ZHANG Shucai	0532-83786653	zhangsc.qday@sinopec.com
10	Coal Chemical Engineering	YANG Weisheng	021-68466280	yangws.sshy@sinopec.com
11	Coatings & Finishing	WU Xiangping	0519-83299523	Jeff@asiacoat.com
12	Daily Chemical Products	JI Hongbing	13600450733	jihb@mail.sysu.edu.cn
13	Dyestuffs	WANG Ying	024-85869219	wangying3@sinochem.com
14	Energy Storage Engineering	XI Xiangli	010-64519601	Esst_edit@126.com



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15	Environmental Protection	LI Hesheng	010-59202231	Lihsh.bjhy@sinopec.com
16	Filtration and Separation	WANG Shiyong	021-52815377-0415	wsy023@163.com
17	Fine Chemical Engineering	ZHONG Xiaoping	010-64263223	zykjzlb@sina.com
18	Hydrocarbon Resources Processing and Utilization	ZHANG Qundan	13810431636	zhangqd.ripp@sinopec.com
19	Industrial Water Treatment	MING Yunfeng	022-26689023	2068324250@qq.com
20	Information Technology Applications	JIANG Yan	010-64444098	jiangyan@itsc.chemchina.com
21	Inorganic Acids, Bases and Salts	YANG Yumei	022-26689023	aais-yym@163.com
22	Ionic Liquids	LI Chunshan	010-82544875	csli@home.ipe.ac.cn
23	Microwave Power Application in Chemical Industry and Engineering	ZHU Huacheng	028-85470659	zhuhuacheng@126.com
24	Mixing and Agitation	LIU Zuohua	023-65678932	liuzuohua@cqu.edu.cn
25	Petrochemical Archives	HONG Yan	010-69166020	hongy.trqi@sinopec.com
26	Petrochemical Ecological	LIU Zhongsheng	0411-39699712	liuzhongsheng.fshy@sinopec.

No.	Committee Name	ommittee Secretary General	Tel	Email
27	Petrochemical Engineering	GUO Zifang	010-59202600	guozf.bjhy@sinopec.com
28	Petrochemical Equipment Maintenance	BAI Hua	010-59964525	baih@sinopec.com
29	Rare Earth Catalysis and Process	TANG Changjin	025-89684945	tangcj@njnu.edu.cn
30	Rubber and Plastics Green Manufacturing	WU Weidong	18610609519	13810367675@163.com
31	Rubber Institute	HUANG Liping	010-51338216	huanglp86@qq.com
32	Simulation & Virtual Process Engineering	WANG Limin	010-82544942	lmwang@ipe.ac.cn
33	Specialty Chemicals Engineering	LIU Feng	0371-67763385	liufeng@zzu.edu.cn
34	Sulfur, Phosphorus and Titanium Resource Chemicals	WANG Xinlong	028-85408098	wangxl@scu.edu.cn
35	Supercritical Fluids	BAO Zongbi	0571-87952773	baozb@zju.edu.cn
36	Thermochemistry and Engineering	WANG Kangjun	13940559792	angle_79@163.com
37	Waterborne Technology Application	ZHENG Chem	0519-83299523	stacyzheng0519@163.com



#### China First-class (5A) Technology Society

Serve the public and government for knowledge, science, technology and innovation.



Member Registration (China Mainland)



CIESC Official Subscription (Wechat)



CIESC Website

The Chemical Industry and Engineering Society of China (CIESC)

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