



ASTECC 2027

2027 (the 3rd) Asia Silicone Technology Exchange Conference

March 29-31, 2027 Suzhou, China

- ✓ Macro Trends of Silicone in Asia
- ✓ Frontier Silicone Technologies and Future Application Scenarios

REGISTER FOR THIS CONFERENCE AND PARTICIPATE FOR FREE IN:

2027 Asia Silicon Technology Conference and Fair (AST2027)
2027 Advanced Chemical Materials Industrial Exhibition (ACMIE2027)
National Catalysis and Catalyst Expo 2027 (NCCE2027)

15,000 m² Exhibition Area | **2500**⁺ Participating or Exhibiting Companies | **5,000**⁺ Professional Visitors | **30** Conferences

<https://gst2024.acmi.org.cn>

SUPPORTING ORGANIZATIONS:

- Small and Medium Enterprises Working Committee of China Petroleum and Chemical Industry Federation
- Sino Alliance of Green Development of Silicon Industry (SAGSI)
- Zhongguancun Photovoltaic Industry Alliance (ZPVA)
- Yunnan Province Silicon Industry Engineering Research Center

ORGANIZER:

- Beijing Sino Advanced Chemical Materials Institution (ACMI)
- ACMI Europe GmbH.

HOST:

- ACMI Silicon-based Advanced Materials Research Institute

SUPPORTING MEDIA:

ACMI@linkedin



Chemical advanced Materials

Silicone



CONFERENCE AGENDA

Simultaneous Interpretation in Chinese and English

Day 1

March 29th

All Day • **Registration, Check-in**

Day 2

March 30th

Morning • **Sub-forum 1: Macro Trends of Silicone in Asia**

• **Restructuring the Asian Silicone Supply Chain in the Post-Globalization Era: Changes, Challenges, and Coping Strategies**

Analyzes the actual impact of changes in the global trade landscape on the Asian supply chain, and explores how companies can build resilience through regionalization, inventory strategies, and diversified procurement.

• **Carbon Neutrality Practices of Asian Silicone Companies: From Goal Setting to Implementation**

Reviews the practical measures and achievements of major Asian silicone companies in carbon emission reduction, shares replicable carbon reduction cases, and analyzes the application dynamics of green finance tools.

• **The New Landscape of the Asian Silicone Market: Capacity Flows, Trade Flows, and Competitive Focus**

Analyzes changes in capacity, import and export data, and price trends in major countries and regions such as China, Japan, South Korea, India, and Southeast Asia, and analyzes the focus of regional competition.

• **Silicone Demand Analysis in Emerging Asian Markets: Opportunities and Challenges in India, Vietnam, and Indonesia**

Analyzes the growth potential of silicone demand in construction, automotive, and electronics sectors in India, Vietnam, and Indonesia during their industrialization and urbanization processes.

• **Sino-Japanese Silicone Industry Cooperation and Trade: Market Barriers, Import Substitution, and Overseas Expansion Practices**

Explores Japan's entry standards and technical barriers in the optical, medical, and electronic grade silicone fields, as well as export opportunities and overseas expansion experiences for Chinese companies.

• **Sino-Korean Silicone Industry Chain Collaboration: Cooperation Opportunities in South Korea's Localization Process and Chinese Overseas Expansion Practices**

Analyzes the progress of South Korea's domestic silicone production capacity construction, and examines the supporting opportunities for Chinese companies in key materials and equipment, along with overseas expansion case studies.

• **Interaction between China and Southeast Asia's Silicone Industry: Localization Trends, Trade Opportunities, and Plant Construction Practices**

Explores the demand for localized silicone production in countries such as Vietnam, Thailand, and Indonesia, as well as policy incentives, and the overseas plant construction practices and trade experiences of Chinese companies.

• **High-Value Utilization of By-product Resources: New Breakthroughs in Cross-border Applications of Slurry Residue, Low-Boiling-Point Substances, and Hydrochloric Acid**

Shares the latest industrialization progress in areas such as the preparation of precipitated silica from silicone by-product slurry residue, the preparation of silane coupling agents from low-boiling-point substances, and the recycling of hydrochloric acid.

Afternoon • **Sub-forums 2: Frontier Silicone Technologies and Future Application Scenarios**

• **Upgrades in Silicone Thermal Management Materials Driven by AI Computing Power**

Addressing the new challenges posed by the continuously rising power density of AI chips, this section explores the latest performance breakthroughs and application cases of thermally conductive gels, liquid thermal pads, and phase change thermally conductive materials.

• **New Requirements for Silicone Materials After the Popularization of the 800V Platform in New Energy Vehicles**

Analyzing the performance requirements and improvement directions of silicone materials for cable insulation, battery pack potting, and connector sealing on the 800V high-voltage platform.

• **Frontiers of Solid-State Batteries and the Potential Role of Silicone: Early Research and Material Design**

Introducing the special requirements of solid-state batteries for electrolytes, interface materials, and encapsulation materials, and discussing the possible application directions and pre-research progress of silicone in these areas.

• **Iteration of Silicone Materials for Photovoltaic Modules: Functional Extension from Sealing to Conductivity**

Analyzing the differentiated requirements and industrialization progress of next-generation photovoltaic modules such as TOPCon, HJT, and perovskite for conductive adhesives, high-barrier sealants, and light conversion encapsulation materials.

• **Flexible Sensors and Smart Wearables: Advances in the Application of Silicone in Electronic Skin**

Showcases the latest research results and application cases of silicone-based flexible pressure sensors, strain sensors, and temperature sensors in wearable devices.

• **Ultra-High Purity Silicone for Advanced Semiconductor Packaging: Domestic Production Process and Customer Certification**

Introduces the purity requirements of high-end silicone materials such as die-attach adhesives, stress-reducing coatings, and underfill adhesives, and updates the product development and customer onboarding progress of domestic companies.

• **Self-Healing and Shape Memory Silicone: From Laboratory to Commercialization**

Reviews the application attempts of self-healing silicone rubber and shape memory silicone in coatings, seals, and flexible actuators, and analyzes technical bottlenecks and commercialization prospects.

• **Silicone 3D Printing with Adjustable Mechanical Properties: Research Progress and Clinical Application Prospects**

Introduces the research progress and application prospects of 3D printed silicone in surgical planning models, biomimetic tissue models, and personalized medical implants.

• **Applications of Silicone in Energy Storage Systems: Liquid Cooling Piping, Thermal Insulation Sheets, and Flame-Retardant Encapsulation**

Discusses the specific technical requirements and market prospects of silicone liquid cooling pipes, aerogel thermal insulation sheets, and flame-retardant potting compounds for large-capacity energy storage battery packs.

• **Optical Silicone for LiDAR and Cameras in Smart Cars: The Dual Challenges of Weather Resistance and Light Transmittance**

Analyzes the comprehensive requirements and solutions for silicone materials in automotive optical devices regarding high and low temperature shock, UV aging, and optical stability.

Day 3

March 31th

Morning • **Main Forum of AST2027**

Afternoon • **Exhibition visit** Exhibition dates: March 30th - April 1st

PARTICIPATION FEE

Date	Price
Before February 19, 2027	\$700 per person
After February 19, 2027 and on-site	\$800 per person

BOOTH FEES

Booth Types	1 st Floor Exhibition Area	2 nd Floor Exhibition Area	Special Offers
Standard booth/9m ²	US\$3100/booth	US\$3800/booth	Enjoy a 15% discount before October 31, 2026, and a 12% discount before February 19, 2027.
Raw space(special design booth) / 18m ² and up	US\$280/m ²	US\$350/m ²	Each 9 m ² booth offers 2 free attendee slots, with a maximum of 6 free attendees per company.

PAYMENT ACCOUNT

Payment Account (Remittance Note: ASTEC2027)

Intermediary Banker's Name: JPMORGAN Chase Bank, ASSOCIATION, New York CITY, NEW YORK

SWIFT Code: CHASUS33

Bene Banker's A/C No.: 001043718

Beneficiary Banker's Name: Industrial and Commercial Bank of China, Beijing Zhonghangyou sub-Branch

BANK Address: FIRST FLOOR, BUILDING 9, 5 ANDING ROAD, CHAOYANG DISTRICT, BEIJING, CHINA

SWIFT Code: ICBKCNBJBJM

Beneficiary: Beijing Sino Advanced Chemical Materials Institution Co., Ltd.

0200 2282 0902 0125 456

Address: Rm.1510, Building 4, Yard 18, Kechuang 13th St., Economic & Technological Development Zone, Beijing, China

LIST OF INVITED PARTICIPANTS

1. Experts and scholars in the silicone industry;
2. Senior management personnel from representative silicone companies;
3. Heads, technical and R&D personnel, and marketing and sales personnel from upstream and downstream silicone companies in Asia (raw materials, silicone monomers, silicone oils, silane coupling agents, silicone rubber, silicone resins, downstream products, equipment, etc.);
4. Silicone trading agents and buyers from Japan, South Korea, India, Thailand, Vietnam, Indonesia, Malaysia, and other countries;
5. Purchasing and R&D personnel from end-application fields such as new energy vehicles, photovoltaics, electronics, semiconductors, power, medical, construction, and smart wearables;
6. Representatives from silicone industry associations, societies, and research institutes.

BUSINESS COOPERATION

The conference accepts various business cooperation requests, including sponsorship for speeches, exhibition booths, advertising in the conference program, lanyards, name badges, roll-up banners, etc. For details, please contact the conference organizing committee.

Concurrent Conferences

- ✓ 2027 (29th) Silicone Fine Chemicals Technology Exchange Conference
- ✓ 2027 (3rd) Asia Silicone Technology Exchange Conference
- ✓ 2027 3rd Aerogel Products New Technology and Application Exchange Conference
- ✓ 2027 4th High-Purity Quartz Materials Technology and Application Summit Forum
- ✓ 2027 Third Generation Semiconductor Silicon Carbide Wafer Growth and Precision Machining Technology Exchange Conference
- ✓ 2027 National Catalysis and Catalyst Expo
- ✓ 2027 (14th) Surfactant High-End Application Technology Exchange Conference
- ✓ 2027 Water Treatment Agent Technology Innovation and Industrial Application Exchange Conference
- ✓ 2027 (17th) Epoxy Resin High-End Application Technology Exchange Conference
- ✓ 2027 Organic Amine and Modified Amine Industry Forum
- ✓ 2027 Radiation Curing Innovation and Development Forum
- ✓ 2027 Electronic Adhesive Technology and Application Innovation and Development Forum
- ✓ 2027 Special Fiber Industry Forum & 2027 Prepreg and Composite Material Industry Forum
- ✓ 2027 Acrylic Acid, Ester and MMA Industry Forum
- ✓ 2027 Ethylene High-End Polymer Technology Conference
- ✓ 2027 Special Engineering Plastics Industry Forum
- ✓ 2027 (16th) Fluorine Materials High-End Application and Processing Technology Conference (FMC 2027)
- ✓ 2027 Semiconductors Key Materials and Application Technology Exchange Conference
- ✓ 2027 (6th) Electrolyte and Solid Electrolyte Innovation and Development Forum
- ✓ 2027 Perovskite Battery Technology and Application Exchange Conference
- ✓ 2027 (5th) Liquid Cooling Technology Innovation and Market Application Forum
- ✓ 2027 (3rd) International Advanced Thermal Management Technology Exchange Conference
- ✓ 2027 New Flame Retardants and Flame Retardant Materials Technology Exchange Conference
- ✓ 2027 Chemical New Materials and Fine Chemicals Market Report Conference
- ✓ 2027 Chemical Pilot-Scale and Small-Scale Testing Technology Exchange Conference
- ✓ 2027 Chemical Process Intensification (Microreactors, Continuous Flow, Distillation, Filtration) Exchange Conference
- ✓ 2027 Fine Chemical Waste Treatment and Resource Utilization Technology Conference
- ✓ 2027 Chemical New Materials and Fine Chemicals Investment and Financing Exchange Conference

CONTACT INFORMATION

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