Core Competence

Capabilities to Develop Innovative Solutions by Leveraging Its Technological Expertise in Diverse Areas

Power of Chemistry Creates New Value

Sumitomo Chemical has continued to pioneer new fields with its creative technologies and tireless spirit of inquiry. Through our broad research activities over many years, we have established a set of six core technologies. Using these core technologies, we are working on research and development to generate new solutions for issues and trends in global society in the three business areas of the environment and energy, ICT, and life sciences, where high growth is expected. We will continue to enhance our technological capabilities based on the belief that we can create a new era through creative research and development.

> Inorganic Material Function Design

Device Design

Six Core Precision

Technologies

Catalyst Design

Processing

Biological Mechanism Analysis Organic & Polymer Material Function Design

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Examples of Next-generation Automotive Solutions

Separators for Lithium-ion Secondary Batteries

By providing its proprietary aramid-coated separators, which are thin and highly heat resistant, Sumitomo Chemical is contributing to the creation of safe, high-capacity lithium-ion secondary batteries.

Super Engineering Plastics (SEPs)

Sumitomo Chemical is contributing to reducing the weight of automobile components by replacing metallic components used in cars with components made from SEPs. In addition, by using injection molding technology, components with complex shapes can be mass produced in a short period of time, leading to reductions in customer costs.

Olefin Thermoplastic Elastomer

In addition to being an advanced polymer that is highly moldable when processed, and which offers outstanding weather resistance and recyclability, this elastomer is useful in creating a luxurious feel in vehicle interiors.

Examples of Agriculture-related Solutions

Crop Stress Management

Crop stress management aims to contribute to crop yield improvement by developing agrochemicals and biological materials that improve resistance to environmental stresses, such as low and high temperatures and drought.

Biorationals

Sumitomo Chemical is contributing to the stabilization of agricultural production and the improvement of crop quality and yields by supplying biorational crop protection and enhancement products derived from natural sources such as microbial pesticides, plant growth regulators and biorational rhizosphere, thereby meeting the rising demand for organic food and high-quality fruits and vegetables around the world.

Total Support for Agriculture in Japan

Sumitomo Chemical provides comprehensive support for agricultural businesses, utilizing the various products and services of group companies, such as crop protection products, fertilizers, agricultural materials, technical services and sales of farm produce.

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Core Competence Capabilities to Reach Global Markets

Competitive Businesses around the World

The Sumitomo Chemical Group has expanded its businesses around the world, aiming to be a truly global company. The Group's current overseas sales revenue ratio is over 60%. The Group is actively expanding competitive businesses into global markets, hoping to create sustained growth.





Polyolefin Plant

The strength of Sumitomo Chemical's petrochemical business is its global business development utilizing the unique features of its three locations in Japan, Singapore, and Saudi Arabia. The Polyolefin Company (TPC) in Singapore reliably produces and sells high-quality products, thanks to the outstanding plant operation techniques of its experienced local staff.



Separator Plant for Lithium-ion Secondary Batteries

Since 2006, Sumitomo Chemical has been producing heat-resistant separators at its Ohe Works. Subsequently, in light of the sudden increase in soaring demand, particularly for lithium-ion secondary batteries for automotive applications, we began operations at the subsidiary company SSLM (South Korea) in 2016, expanding its production capacity in stages.



Processing Chemicals Plant for Semiconductors

For some time, Sumitomo Chemical has produced high-purity chemicals for semiconductors in Japan, South Korea, and China. Now, in order to seize the Chinese semiconductor market, which is expected to expand rapidly going forward, Sumitomo Chemical has begun constructing a new plant in Changzhou. In addition, the company has also decided to expand its production facilities in Xi'an. The company aims to further expand sales through a timely entry into the Chinese market.

Biorational Research Center (BRC)

The newest research center for biorationals began operations in July 2018. The center plays a pivotal role in research and development activities for microbiology, plant biology, chemistry, fermentation, and formulation technologies.

Core Competence Loyal Employees

Their Goal is to Shape the Future

The Sumitomo Chemical Group has about 30,000 employees working around the world. One of the greatest strengths of the Group is that all employees loyally push forward with their dayto-day work. Going forward, all employees will work together to enhance our capabilities, explore new possibilities every day, and overcome the challenges lying ahead with enthusiasm and a strong sense of mission.



Yuki Hiroi Functional Organic Material Synthesis Group Advanced Materials Development Laboratory

My team is working on developing lightemitting materials for OLED displays. Our number one mission is to create light-emitting materials with a long life and vivid colors. Development has presented a series of difficulties, but everyone in the team, myself included, has a strong desire to produce results no matter what, overcoming difficulties one after another.

Charter for Business Conduct

- 1. We will respect Sumitomo's business philosophy and act as highly esteemed "good citizens."
- 2. We will observe national and international laws and regulations and will carry out activities according to our corporate rules.
- 3. We will develop and supply useful, safe products and technologies that will contribute extensively to the progress of society.
- 4. We will take voluntary and active initiatives to achieve zero-accident and zero-injury operations and to preserve the global environment.
- 5. We will conduct business transactions based on fair and free competition.
- 6. We will endeavor to make our workplaces sound and energetic.
- 7. Every one of us will make efforts to become a professional who has advanced skills and expertise in his or her field of responsibility.
- 8. We will actively communicate with our various stakeholders such as shareholders, customers, and regional communities.
- We, as a corporate member of an international society, will esteem the culture and customs of each region around the world and contribute to the development of those regions.
- 10. We will strive for the sound development of our Company through business activities conducted in accordance with the guiding principles stipulated hereinabove.



Song Heng Mun Monomer 2 Sumitomo Chemical Asia Pte Ltd

I joined then Sumitomo Chemical Singapore (now Sumitomo Chemical Asia) more than 16 years ago with the Planning and Coordination department. Over the years, I witnessed the growth of its MMA/PMMA capacities and had the opportunity to play an active role in this wonderful journey. My main role is to secure stable and reliable feedstocks for our plants. This motivates me to strive for the best while giving me a sense of satisfaction whenever we overcome difficult situations. Armed with the Company's strong core values in doing business, I look forward to contributing more in my current capacity in the Monomer department.



Ayaka Shigematsu Production Planning & Administration Dept. Oita Works As the person in charge of accounting for the Oita Works, I conduct trial calculations and analysis for product costs, which are an indicator of plant operations. This contributes to maintaining safe and stable operations and high cost competitiveness at the Oita Works. In addition, I also frequently prepare documents that effectively convey timely information from relevant departments, as well as issues at the Oita Works that can be read from the numbers, in order to lead to smoother management decision-making.



Saki Senda Process System Group Production & Safety Fundamental Technology Center Ehime Works

I work to clarify problems caused by the flow of materials by using Computational Fluid Dynamics. This technique leads to a speeding up of our research and development and improves the process for production equipment. In addition, in order to properly evaluate the impact of wastewater from the Ehime Works on the ocean, I successfully developed proprietary analysis technology for environmental evaluation across the entire Seto Inland Sea. I think this helps us to fulfill our social responsibility, contributing to the actualization of a sustainable society.



Kou Hakley Business Planning & Administration Dept. Environmental Health Division Tokyo Headquarters I am responsible for planning the production and logistics scheme for new devices and products launched by the Environmental Health Division. I am making my best effort to plan more effective production schedules, in light of market trends and demand information from our sales representative. In addition, I actualize rational product shipments by using our global logistics network. These duties also contribute to the timely delivery of our products around the world.

