

# “ZET-summit2026” Special exhibition

Date and Time : 2026.2.2(Mon) · 2.3(Tue) 9:30-18:30  
Place : Nagamori Shigenobu Civic Center (Kyoto,Muko city) 1<sup>st</sup> floor 1room

## Special Feature① The World of MOFs developed by Professor Susumu Kitagawa, Nobel Prize Laureate in Chemistry, executive vice-president at Kyoto University and distinguished professor at the Kyoto University Institute for Advanced Studies

This exhibition will focus on "MOFs (Porous Metal-Oxide Frameworks)," developed by Professor Susumu Kitagawa, recipient of the 2025 Nobel Prize in Chemistry.

Eleven companies working on businesses utilizing MOFs will exhibit and introduce examples of MOFs applications.

Please see the next page for details on the exhibitors.

<What are MOFs?>

MOFs are porous materials composed of metal ions and organic ligands, developed by Professor Susumu Kitagawa.

With their high specific surface area and flexible structure, MOFs are expected to bring about revolutionary changes in environmental and resource issues, such as selective separation and adsorption of substances and significant improvements in storage efficiency.

## Special Feature ②: Research Results of Kyoto Prefectural Katsura High School

This is an exhibition presenting the results of research by Kyoto Prefectural Katsura High School, which is working on improving varieties using biotechnology.

Please see below for details of the exhibition.

### Kyoto Prefectural KATSURA High School

#### Activities details

This year marks the 77th anniversary of the school's founding in 1948, and it is a school steeped in history and tradition, having produced approximately 28,000 graduates. The school offers a general education program and a specialized agricultural department consisting of a plant creation department and a horticultural business department, and provides an education centered on research activities and both sports and studies. The specialized department deepens practical learning through research projects. From these research projects, we will be exhibiting research presentations on the following themes: 1) mushroom cultivation using coffee grounds, 2) sustainable agriculture using recycled resource MAP, 3) conservation and utilization of Eupatorium japonica, and 4) ex-situ conservation and edibility of Chrysanthemum seticuspe.



**We look forward to your visit !**

<p><b>Atomis, Inc.</b></p> <p><u>Company Profile · Business details</u></p>  <p>Atomis Inc. is a startup specializing in next-generation porous materials, including metal-organic frameworks (MOFs) based on research by Prof. Susumu Kitagawa at Kyoto University Institute for Advanced Study. MOFs are next-generation porous materials with functions such as gas storage and separation, gaining global attention following the Nobel Prize in Chemistry 2025.</p> <p>In addition to our “Materials Business,” which handles the entire process from MOF design and evaluation to manufacturing and sales, we are engaged in our “Impact Business.” This business aims for the societal implementation of an innovative gas distribution system centered on “CubiTan®,” a lightweight, compact, and smart next-generation high-pressure gas container utilizing MOFs.</p>	<p><b>Osaka Gas Co., Ltd.</b></p> <p><u>Company Profile · Business details</u></p>  <p>The Daigas Group, engaged in the energy sector, regards environmental conservation at both regional and global scales as a critical mission and is actively advancing various technological developments toward achieving carbon neutrality. At the Osaka-Kansai Expo, a demonstration of methanation technology synthesizing e-methane from CO2 and green hydrogen was conducted. Furthermore, the group is engaged in the development of CO2 adsorbent materials utilizing PCP/MOF frameworks, aiming to realize an energy-efficient system for direct air capture (DAC) of CO2 from the atmosphere, which serves as the feedstock for e-methane production.</p>
<p><b>OHARA PARAGIUM CHEMICAL CO. LTD</b></p> <p><u>Company Profile · Business details</u></p>  <p>We are a Kyoto-based chemical manufacturer celebrating our 100th anniversary. Our core business focuses on the development, manufacture, and sales of water-based functional finishing agents for textiles.</p> <p>Since 2023, we have expanded into gas adsorption products utilizing PCP/MOF, applied in various forms through our proprietary technologies. We aim to broaden the use of PCP/MOF across a wide range of fields, including living environments and occupational environments, addressing issues such as odor control and hazardous gas mitigation.</p> <p><b>【Message】</b> Our PCP/MOF-based products provide effective solutions to gas-related challenges involving substances such as hydrogen sulfide and ammonia. If you are facing issues related to excrement odors, industrial odors, tobacco smoke, or equipment damage caused by acidic gases, please feel free to contact us for consultation.</p>	<p><b>Crasus Chemical Inc. / NIPPON STEEL CORPORATION</b></p> <p><u>Company Profile · Business details</u></p>  <p>Crasus Chemical Inc. and Nippon Steel Corporation have established a consortium to advance the Green Innovation Fund Project titled “Development of a Low-Concentration CO<sub>2</sub> Separation System Using Innovative Adsorbents.” The project develops a “structurally flexible MOF” as the adsorbent and aims to achieve efficient CO<sub>2</sub> recovery from exhaust gas with a low CO<sub>2</sub> concentration through Pressure Swing Adsorption (PSA). The consortium plans to conduct pilot-scale demonstrations by fiscal year 2030, followed by social implementation within their own operations, as well as commercialization through adsorbent sales and technology licensing.</p>
<p><b>Sumitomo Chemical Co., Ltd</b></p> <p><u>Company Profile · Business details</u></p>  <p>Sumitomo Chemical operates businesses in four sectors - Agro &amp; Life Solutions, ICT &amp; Mobility Solutions, Advanced Medical Solutions, and Essential &amp; Green Materials - and provides solutions from products and technologies worldwide that support a wide variety of industries and help people's daily lives.</p>	<p><b>Nagase &amp; Co., Ltd.</b></p> <p><u>Company Profile · Business details</u></p>  <p>Nagase &amp; Co., Ltd. was founded in 1832 as a trading company dealing in natural dyes. Today, our group has expanded to over 100 companies in approximately 25 countries and regions around the world, and is engaged in a wide range of business fields, including not only chemicals but also electronics, mobility, energy, food, medical, and biotechnology. In addition to trading functions, we also have manufacturing and research and development functions, and by combining these functions, we are able to make unique proposals to address our customers' manufacturing challenges. We contribute to solving our customers' manufacturing challenges through materials, and we are committed to “realizing a safe, secure, and warm society where people can live comfortably.”</p>
<p><b>NIPPON FUSO CO., LTD.</b></p> <p><u>Company Profile · Business details</u></p>  <p>The company's core business includes baked fluoropolymer coatings and lining services using materials such as PTFE, PFA, and FEP, which offer excellent non-stick properties, chemical resistance, and high purity, and is used for a wide range of applications in various industries.</p> <p>For example, they are used in various manufacturing lines and machine parts such as semiconductor and electronic component manufacturing equipment, chemical manufacturing equipment, and pharmaceutical manufacturing equipment. In order to create higher value-added solutions, the company is also actively engaged in product development, and was among the first to develop highly corrosion-resistant lining technologies utilizing PCP/MOF.</p>	<p><b>BASF Japan Ltd.</b></p> <p><u>Company Profile · Business details</u></p>  <p>BASF Japan Ltd. is the Japanese subsidiary of BASF Group, one of the world's largest chemical companies headquartered in Ludwigshafen, Germany. BASF aims to create chemistry for a sustainable future, pursuing environmental protection, social responsibility, and economic success simultaneously. In Japan, BASF manufactures, imports, and sells chemical products, contributing to customers across a wide range of industries.</p>
<p><b>FUJIFILM Wako Pure Chemical Corporation</b></p> <p><u>Company Profile · Business details</u></p>  <p>FUJIFILM Wako Pure Chemical Corporation has been developing and manufacturing high-quality products as a general reagent manufacturer for over 100 years. Leveraging advanced technological development, we offer a wide range of chemical and life science reagents for testing and research purposes to meet diverse customer needs.</p> <p>In the field of PCP/MOF, we provide reagents from Atomis Inc., advised by Dr. Susumu Kitagawa, as well as numerous components of MOFs such as metal ions and organic ligands.</p>	<p><b>Yachiyo Engineering Co., Ltd.</b></p> <p><u>Company Profile · Business details</u></p>  <p>As a consulting firm specializing in social infrastructure development, we focus on the planning, design, and operation and maintenance (O&amp;M) of infrastructure, while also advancing sustainability initiatives and corporate venture capital (CVC) activities. The real-world application of deep-tech faces challenges such as technology commercialization and regulatory compliance. Leveraging our long-standing experience in Japan and overseas, we provide strategic advice to support the implementation of sustainable deep-tech innovations in society. In Indonesia, we are advancing the development of a smart gas network in collaboration with Atomis. Through the introduction of new technologies and partnerships with government bodies and local enterprises, we are deploying solutions that promote local energy production and consumption while addressing disparities in access to energy resources. Our strength lies in providing hands-on support that bridges advanced technology with tangible social value.</p>