

## **labtech China Congress 2021 Interprets Future Sustainable Laboratories**

On October 22, the two-day **labtech China Congress 2021** came to a successful conclusion at the Kerry Hotel Pudong, Shanghai. The congress is organized by Messe Muenchen Shanghai Co., Ltd., a wholly-owned subsidiary of Messe Muenchen, and co-organized by Tongji University, International Laboratory Construction and Evaluation Magazine, Shanghai Zhangjiang Bio-tech & Pharmaceutical Base, Shanghai Pudong Bio-Industry Association and Scientific Equipment and Furniture Association (SEFA), USA.

labtech China Congress 2021 is created by analytica China, the beacon exhibition for the laboratory industry in the Asia-Pacific region. It focuses on the promotion of advanced laboratory planning, construction and management in China and the world. It values the harmonious connection between people and laboratories, as well as the innovations and transformations of sustainable labs in this age of Big Health. **82** famous experts, scholars, architects, and laboratory experts gave insightful speeches on eight the most important issues in the laboratory. Well-known Chinese and international companies and brands displayed innovative technologies and products in the Live Labs and exhibition spaces. A total of **1,919 professional delegates** from the laboratory industry contributed to the grand event.

**Mr. Stephen Lu, Chief Operating Officer of Messe Muenchen Shanghai Co., Ltd.,** commented: "This is the second time that the labtech China Congress has been held independently of analytica China. The congress has made it to a new level both in size and quality, and has received very positive feedback from all the participants. It provides all-round learning and communication opportunities for laboratory planning and construction. The end users, planners and construction units can have dialogues on different levels here. I hope labtech China Congress 2022 will attract more end users, lab management and decision-makers. So they can talk face to face with people from the planning, designing and construction side. Together they will develop high-quality one-stop solutions to future labs. We will take a different positioning next year, as we always do, and focus on the end users to make labtech China Congress larger, more specialized, and stronger!"

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## High-quality Summits Directs to Future Sustainable Labs

labtech China Congress 2021 focuses on a myriad of topics: scientific facility construction and laboratory design and planning, laboratory construction, operation and maintenance under the world/China technology innovation system, smart laboratory design and planning, smart laboratory efficiency and management. Experts from the **Chinese Center for Disease Control (CDC), China National Accreditation Service (CNAS), Chinese Academy of Sciences, Panjin Inspection and Testing Center, HOK Architects, Huajian Group Shanghai Architectural Design and Research Institute, China IPPR, Sinopec Shanghai Engineering, Shengkang Hospital, Green Valley Pharmaceutical, Shanghai University of Science and Technology, Peking University International Hospital, New York University Shanghai, University of California, Irvine School of Sustainable Development, Fraunhofer-Gesellschaft, Hanguang, San Group, WALDNER, Agilent, and Perkin Elmer** spoke about the lab construction requirements and standards at home and abroad, and inspired in-depth thinking about laboratory construction and management through their sharing of innovative trends and case studies in the planning, construction and management of smart laboratories. They gave clear directions to the sustainable development of laboratories in the future. In addition, labtech China Congress adopted a brand new roundtable forum that promoted exchange across disciplines - design and planning suppliers, construction contractors, EPC general contractors and users- on how to build high-level biological laboratory that is demanding in many aspects. The talk was heated and participants reported positive experience.

**Mr. Li Zhuxuan, Senior Chief Engineer of China IPPR International Engineering Co., Ltd.** said: "In the past, biosafety almost entirely relies on visual instruments. Now we can monitor and manage equipment remotely through smart systems. Data systems and Big Data technology can support high-performance laboratories such as biological laboratories and high-level laboratories in terms of safety, capacity, efficiency, and management. I think this is very good. Such trend is also what design and construction units are concerned about. I think the organizers of labtech China Congress have done a good job. From policy, laboratory management, design, architecture to electromechanical and even products, manufacturers and the cooperation between industry and academic research like the Tongji University team, as well as the case studies, they all give very inspiring ideas. I would give the organizer a thumb-up and hope the congress will be even better in the future."

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**Mr. Lin Yifan, Special Assistant to the General Manager and Director of the Planning and Construction Department of Shanghai Green Valley Pharmaceutical Co., Ltd.** said: "I can see that the exhibitors and participants are all very supportive to labtech China Congress. The lecture topics are very important and in-depth discussions are made on many aspects from biology and chemistry, to industry standards and national regulations from the perspective of users. I believe this is very helpful to the audience. This is the second time I participated in the labtech China Congress. I think that the size and quality have been greatly improved. I suggest that in the future, we could hold more special workshops focusing on more specific topics. I believe such events will be very helpful."

#### **Four Parallel Sessions on Safe, Smart and Sustainable Labs**

The parallel session **Sustainable Laboratory (1): Laboratory operation and maintenance and evaluation under the goal of carbon neutrality and carbon peak** focused on the important role of the LEED system in sustainable laboratory design and planning, the application of new materials in laboratory construction, sustainable laboratory safety education and personnel training, and ways to achieve "carbon neutrality" in laboratory design and construction. Experts from **Shanghai Pacific Energy Center, Road, Tongji University** and **TERAO France** offered insights into the development of sustainable "carbon-neutral" laboratory that is cost-reducing, efficient and environmental from the perspective of lab operation, maintenance and evaluation.

The parallel session **Laboratory Environment and Safety** is presented by industry and business representatives from **the National Health Commission, the National Ministry of Ecology and Environment, Schneider Elektronik GmbH, San Group, China IPPR International, and the Chinese Academy of Sciences**. They discussed important topics such as chemical pollution and occupational health in laboratories, laboratory hazardous waste management, the design and application of variable air volume control systems in laboratories, intelligent management and control of hazardous chemicals throughout the life cycle, the fundamental role of design in the safety of advanced biological laboratories, the safety of bio data and network facilities. The session conveyed an important concept of Labtech China Congress - the protection of research personnel and harmonious relationship between human and laboratory.

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The parallel session **Sustainable Laboratory (2) International perspectives on sustainability, digitization and intelligence** addressed issues like new trends in sustainable laboratory design and planning, future-oriented flexible laboratories, preliminary planning of scientific research facilities and real estate, active heat recovery- the future of fresh air-conditioning in laboratories, the effective route of achieving “dual-carbon goals” learned from international sustainable laboratories. Senior experts from **Dyna, Perkins & Will Architects, QED Environment, Konvekta AG, and the National Renewable Energy Laboratory (NREL) of the U.S. Department of Energy** talked about advanced design, construction and management concepts that can inspire its Chinese peers, and promote the improvement of Chinese scientific research, education, environmental monitoring, testing, medical and other experimental activities.

The parallel session **Digitalization and intelligence, the future of the inspection and testing industry** focused on the AI interpretation of big inspection data, the development and challenges of medical device inspection and testing in China and abroad, and the digital intelligence services in the new testing lab infrastructure construction, remote review in laboratory accreditation, the construction and acceptance of smart laboratories, the digital transformation and platform building of third-party inspection and certification agencies. Industry representatives from **Shanghai Changhai Hospital, Shanghai Medical College, iLabService Technology, CNAS, CTI and China Certification & Inspection Group (CCIC)** spoke about the orderly, healthy and sustainable development of inspection and testing institutions and their bright future, following the the state’ s policy of “delegating, managing and serving” .

As an important part of the support programs of the labtech China Congress 2021, the **Workshops** offered a more detailed introduction to the concept of lab sustainability through lectures and training sessions, focusing on the lab space, operation and maintenance, and the planning and design of sustainable laboratories. From the designer's point of view, they gave new insights into lab construction. The Workshops also discussed laboratory environment and safety, food safety and inspection automation, and emphasized using high-tech methods to improve the safety of the laboratory and the personnel. Participants discussed how to build a sustainable laboratory and improve laboratory environment and safety.

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## **Immersive Experience of Innovative Technology and Products in Live Labs**

In addition to the two main forums and the four parallel sessions, an 800+ square-meter Live Lab and inno Lab spaces were constructed. **Hanguang, San Group** and **WALDNER** presented the **Smart Laboratory**, the **Chemistry Lab**, and the **Green Sustainable Laboratory** in the area. Through demonstrations and hands-on operations, participants experienced cutting-edge products, innovative technology, modern lab design and advanced IT management concepts. In Inno Lab, well-known brands such as Road, Miele, Xude, Konvekta AG, iLabService, Masdek, and Agilent presented solutions to the entire ecosystem of laboratory design, planning, construction, operation and management.

**Mr. Hou Haifeng, President of Shanghai Hanguang Industrial Co., Ltd.** said: "This year the labtech China Congress invited experts from different industries and senior academics to share with us the current trends in laboratory construction and development. Apart from our need for R&D centers and innovation centers, which is stated in the "Big Infrastructure" initiative, and China's demand for public health centers under the Covid-19 epidemic, digital laboratories are also increasingly needed. I believe that through this congress, the laboratory construction in China and even the world will reach a new level. labtech China Congress is a good platform and we will definitely participate again next year."

"This year is our second participation in the labtech China Congress. We have found that all the events, the plenary sessions, parallel sessions, workshops, Live Labs and other programs are providing more idea exchange opportunities than in 2019. There are not only ideas, but also real applications and case studies." **Ms. Wang Bing, general manager of Shanghai San Group Corporation**, said: "What impresses me is that the conference has expanded from lab construction, a very specialized and confined area, to the broader arena of architecture. Though it is not uncommon in advanced countries, I am still very pleased to see that in China the laboratory industry has begun to expand their horizon and have discussions face to face. It is a very good beginning. The Live Lab is a great aid for the conference. They can provide better experience and more choices. At the same time, exhibitors can actively respond to user needs on the spot. I hope that labtech China Congress will become better and better, and we will join hands to create more good ideas and applications."

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**Ms. Liao Yi, vice president of WALDNER (Shanghai) Technology Co., Ltd.,** said: "The labtech China Congress has continued the form of "forums + live labs + workshops" so exhibitors can make more in-depth interaction with users in terms of the macro trends to specific needs. WALDNER looks forward to our continued cooperation with the congress to create more flexible cooperation models, and jointly promote the Open Area concept of laboratory and workshop. The conference serves as a bridge between user needs, equipment supplies and laboratory solutions. It has really contributed to the rapid development of the laboratory industry. I wish the event will get better and better every year!

### **Upgraded Research Ecology and Life-cycle Management System in a Proven Exhibition Model**

A total of 85 speeches, 20+Live Labs, inno Labs and support activities were held to discuss innovative technologies and trends in the laboratory field at home and abroad, in addition to new opportunities and challenges for sustainable laboratory development in the future. The congress created Live Labs and Inno Labs spanning over 800 square meters to stage latest industry trends and products. It also built multiple user exchange circles and organized laboratory visits that provided opportunities for efficient communication between VIP representatives, enterprises and users. Labtech China Congress 2021 continued to improve the "exhibition + conference" model initiated in 2019, and offered multi-dimensional, comprehensive innovation and upgrading solutions in laboratory construction, furniture, HVAC, cleaning, storage, equipment maintenance, safety and intelligence that covered the entire scientific research ecology and full life cycle.

labtech China Congress 2022 looks forward to your participation from Nov. 13 – 15, 2022 in Shanghai. Save the date!

For more information about labtech China Congress, please follow our Wechat account "labtechChina" .

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**About labtech China Congress**

labtech China Congress 2021 is developed by analytica China, the leading laboratory exhibition in Asia. labtech China Congress presents the future-oriented laboratory ecosystem and its full life cycle through a “Summit + Exhibition + Events” scheme, plus multiple Live Labs and inno Labs. The congress advocates “safe, smart and sustainable” labs, and promotes the trend towards intelligent and sustainable laboratories.

### **About Messe Muenchen**

Messe Muenchen is one of the world’s leading trade show organizers. It organizes over 50 trade shows for capital and consumer goods, and key high tech industries. Each year more than 50,000 exhibitors and around three million visitors take part in over 200 events held at Messe Muenchen exhibition center, the ICM – International Congress Center München, and the MOC Veranstaltungszentrum München. Messe München and its subsidiaries organize professional trade shows in China, India, Russia, Turkey, South Africa, Nigeria, Vietnam and Iran. Messe Muenchen has a worldwide network with subsidiaries in Europe, Asia and South America and over 70 foreign representatives actively serving more than 100 countries and districts.

The international trade fairs of Messe Muenchen are all FKM-certified, i.e. exhibitor and visitor numbers and the figures for exhibition space are collected in line with agreed standards and independently audited on behalf of the FKM (Gesellschaft zur Freiwilligen Kontrolle von Messe- und Ausstellungszahlen), a society for the voluntary monitoring of fair and exhibition statistics. The Group also takes a pioneering role as regards sustainability: It is the first trade-fair company to be awarded energy-efficiency certification from the technical inspection authorities TÜV SÜD. For more information, visit [www.messe-muenchen.de](http://www.messe-muenchen.de).

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