MARCH 20, 21 & 22, 2024

KINTEX, Korea

automotive testing expo KOREA

SHOWGUIDE

- WHAT TO SEE
- USEFUL INFORMATION
- TECHNOLOGY PRESENTATIONS
- EXHIBITOR LISTINGS
- SHOW LAYOUT

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automotive testing expo KOREA

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We'll be keeping readers up to date on breaking news, and will have regular updates about the event

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OPENING HOURS

Wednesday, March 20
10:00am - 5:00pm

Thursday, March 21
10:00am - 5:00pm

Friday, March 22
10:00am - 3:00pm

SCAN THE QR CODE FOR THE LATEST TECHNOLOGY PRESENTATION UPDATES

Organized by

UKi Media & Events,
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Surrey, RH4 1DF, UK
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Fax: +44 1306 742525
Email: atxk@ukimediaevents.com
Web: www.ukimediaevents.com

Managing director, UKi Media & Events:
Colette Tebbutt

Event director:
Dominic Cundy

Event manager:
Sungduk Noh 'Cos'

Exhibition operations manager:
Cassie Inns

THE WORLD'S LARGEST TEST AND VALIDATION TECHNOLOGY SHOWCASE HAS RETURNED TO KINTEX!

We're delighted to welcome friends old and new to this expo that brings together a huge array of new technologies to upgrade and accelerate your testing, vehicle development and verification projects for faster time-to-market and ensure brand quality. This exhibition, which has not been held in South Korea since 2019, will bring innovations beyond your imagination!

The goal of every car company is to make better cars for each market (local or global) at all price points. The complexity of doing this is becoming increasingly challenging, especially as cars are equipped with ever more complex computing systems and advanced driver assistance systems, as various organizations seek to overcome the difficulties of autonomous driving and the market races to develop electric vehicles. Demands on test and development processes are constantly increasing. Korean auto makers are style leaders in the global market, and the ongoing key will be to combine ingenuity and design with both reliability and quality.

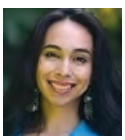
Automotive Testing Expo is the world's largest global event aimed at achieving this goal, helping to reduce – and ideally eliminate – recalls, increase the success rate of new technologies and develop increasingly complex cars in ever shorter timescales (a wonderful paradox)!

See the very latest in full vehicle and component testing and validation technology – the expo showcases everything you need to make even better cars and speed up your test and development programs.

The expo is firmly established as the indispensable test and validation technology show, covering the whole process from prototyping to production, and showcasing a large number of new technologies used in the test, development and validation phases to achieve better durability, reliability, quality and safety, as well as next-generation powertrain and autonomous vehicle system development.

On March 20, 21 and 22, the show floor in KINTEX will highlight solutions from 100+ specialist suppliers to help enable the future of mobility as well as achieve product reliability and performance goals; meanwhile, the Technology Presentation Stage features speakers from some of the world's biggest suppliers and innovators discussing the latest developments and trends in automotive testing. Don't miss presentations such as *Real vehicle testing – vehicle-in-the-loop* by Innosimulation; *Hydrogen fuel cell/stack test introduction and development direction* from Korea's Suwon University; Xylon's *AI tales from the cabin – from data harvesting to full AI validation*; Vector Korea IT's *Analysis of electrical power and efficiency in road tests and on test benches*; Morai's *Mobility trends and autonomous vehicle technology issues*; Suresofttech's *Path to trustworthy AI and dependable AI*; and imc Test & Measurement's presentation on *Torque vectoring – role and importance in e-mobility*.

Use the showguide to help plan your itinerary. We hope you enjoy the show!



Charlotte Iggulden
Head of marketing
(automotive events)

Sungduk Noh "Cos"
Event manager

USEFUL INFORMATION

VENUE ADDRESS

KINTEX Exhibition Center
217-59 Kintekseu-ro
Daehwa-dong, Ilsanseo-gu
Goyang-si, Gyeonggi-do
South Korea

ORGANIZER'S OFFICE

If you require assistance in finding your way around the exhibition, the organizer's office is in a room at the bottom left of the exhibition hall

WI-FI

Wi-fi for browsing and checking emails is available to all attendees throughout the exhibition.
Use **KINTEX_Free_WiFi(1F)** or **KINTEX_ExFree(2~4F)**
No password is required

SOCIAL MEDIA

Seen something fantastic at the show that you want to share on your social feeds? Please mention Automotive Testing Expo Korea and use the event hashtag, and we'll be sure to like and share!

Follow us: @AutoTestExpo

Mention us: #AutoTestKorea

ACCESSIBILITY

The exhibition and demonstration area are on the ground floor and are fully wheelchair accessible. Please speak to a member of the organizing team for any further assistance

RESTAURANTS & DINING

There are a number of restaurants selling food and drinks in Kintex 2 in the foyer area

BOOK YOUR BOOTH FOR 2026!

Visit the sales teams on Booth 5005 to book your exhibition space for 2026
Dominic Cundy, event director
Email: dominic.cundy@ukimediaevents.com

VISIT US ON BOOTH 5005

TECHNOLOGY PRESENTATIONS

The Technology Presentation Stage features speakers from some of the world's biggest suppliers and innovators who will discuss topics currently affecting the industry and introduce new technologies to deal with them

AUTOMOTIVE TESTING TECHNOLOGY INTERNATIONAL

Automotive Testing Technology International is the world's only international publication focusing totally on the area of automotive testing and evaluation. *Automotive Testing Technology International* is distributed to over 50,000 readers worldwide via hard copies and digital copies of the publication

Email: rob.knight@ukimediaevents.com
Web: www.automotivetesting technologyinternational.com

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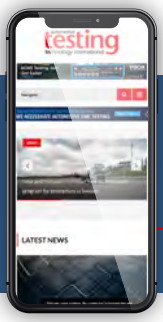
SECURITY

Please note that security will be on-site and bag searches will be carried out for your safety



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EXHIBITOR A-Z

4active Systems GmbH	3050
A&G Technology Co. Ltd	6015
ADT: Advanced Digital Technology	6000
Atics Engineering Inc.	2030
Automotive Testing Expo Korea 2026	5005
Automotive Testing Technology International	5005
AVL Korea Co. Ltd	3020
BGF Corporation	5020
Climats	5100
CME Technology Co. Ltd	7120
Cylos Co. Ltd	5030
Daehan Tech Co. Ltd	5040
Dekati Ltd	6100
dSpace Korea Co. Ltd	6020
E&S Korea Inc.	3050
EinsOne	4060
Espec Korea Corp	4050
ETAS Korea Co. Ltd	4070
Famtech Co. Ltd	5010
General Utility Ltd	3030
GeneSys Elektronik GmbH	3050
HanilProTech Inc.	2000
Hioki Korea	5000
Hottinger Brüel & Kjaer	3010
imc Korea Ltd	3070
Inno-X	4030
Innosimulation	7000
Intrepid Control Systems Inc.	1010
Ipetronik GmbH & Co. KG	4010
IPG Automotive Korea Ltd	6120
Issoft Co. Ltd	3080
JAT Co. Ltd	2050
JFM Technology Corporation	6050
Jinsung Mecha System Co. Ltd	5060
Joowon Industrial Co. Ltd	2040
Keycom Corp	6040
Kikusui Electronics Corp	4010
Kostech Inc.	3000
Michigan Scientific Corporation	5050
Morai	3060
MSElemec	6090
Müller-BBM VAS Korea Ltd	4100
Nutech	7020
ODA Technologies	2025
Omagom	7050
OptoLink	4040
Pickering Interfaces Ltd	7060
Pico Technology	7040
Ref.Korea	7030
SE Systems, Inc.	5080
Seoul Industry Engineering Co. Ltd	2010
SGS Korea	1030
Shanghai Tosun Technology Ltd	5110
Southern Hemisphere Proving Ground	4020
Speedgoat GmbH	4030
Spirent Communications Ltd	4010
Suresoft Technologies Inc.	1000
Technica Engineering GmbH	4010
Techways Co. Ltd	4010
Techwayskewell (Kewell Technology Co. Ltd)	4010
Tektronix	2020
Testmation	7060
Thomas Cable	5070
Toyotech Co. Ltd	6060
Tracetronic Ltd	4080
Vector Korea IT Inc.	4000
Visol Inc.	5090
WEH GmbH Verbindungstechnik	5120
Woojin Technology Co. Ltd	2070
Xylon d.o.o.	4010
ZES Zimmer Electronic Systems GmbH	6070

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Europe's largest vehicle and component testing and validation technology and services exhibition!

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www.testing-expo.com/europe

SHOW LAYOUT

4active Systems GmbH
Booth: 3050
Web: www.4activesystems.at
4activeSystems has a wealth of experience in active vehicle safety, focusing on testing technologies. Its range includes dummy systems (pedestrians, vehicles and animals) and robot platforms that are suitable for a variety of applications such as crash tests and accident scenario simulations. Committed to customer needs, 4active Systems optimizes processes to meet NCAP/UNECE requirements.

A

A&G Technology Co. Ltd
Booth: 6020
Web: www.angtec.com
A&G Technology's goal is to become the world's best total solution provider for automotive testing. Over 20 years, A&G has been accomplishing its mission by supplying state-of-the-art vehicle and component test/inspection equipment which has proven the company's world-class performance to domestic and foreign customers.

ADT: Advanced Digital Technology
Booth: 6000
Web: www.adigitec.com
Advanced Digital Technology supplies end-of-line and/or in-line testing technologies, engine/emissions testing, dynamometers, battery technology, electric and hybrid powertrain testing, NVH analysis, vibration and shock testing, calibration, crash test analysis, connectors for test equipment, and fuels and integrated systems testing.

Atics Engineering Inc.
Booth: 2030
Web: www.atics.co.kr

Automotive Testing Expo Korea 2026
Booth: 5005
Web: www.testing-expokorea.com/en
Visit the sales team to book your booth for Automotive Testing Expo Korea 2026 and to receive information on other worldwide Automotive Testing exhibitions, including our upcoming show in Shanghai, China, on August 28, 29 & 30, 2024.

Automotive Testing Technology International
Booth: 5005
Web: www.automotivetesting technologyinternational.com
Automotive Testing Technology International is the world's only international publication focusing on all areas of automotive testing, development and evaluation. *Automotive Testing Technology International* is read by over 55,000 test and evaluation engineers, technical directors, chief engineers, R&D executives and board-level preproduction managers within car manufacturers, as well as Tier 1 and Tier 2 component manufacturers worldwide. The magazine is now available in a digital format, which has massively increased worldwide readership.

B

BGF Corporation
Booth: 5020
Web: www.vboxkorea.com
The BGF Corporation (VBOX Korea) is the domestic distributor of RaceLogic. At this year's expo, it will show all-new VBOX4 launches, more powerful IMUs (INS products) and the VBOX high-precision indoor positioning solution (VIPS). The company will also introduce new audio/visual detection sensors for ADAS testing and the VBOX HD Lite for motorsport.

C

Climats
Booth: 5100
Web: www.climats-tec.com/en
Climats has been an expert in environmental simulation for 50 years. Its chambers will help you ensure the highest levels of performance, reliability and safety while complying with all European and global standards. During the show, Climats will introduce you to Spirale Vision software, which monitors 13,000 chambers worldwide, ensuring efficient management.

CME Technology Co. Ltd
Booth: 7120
Web: www.creditcme.com
CME Technology was founded in 2006. It specializes in offering cutting-edge testing equipment and comprehensive solutions tailored for mechanical environmental reliability tests to meet various testing needs. These include shock test systems, SRS test equipment, hydraulic vibration shakers, constant acceleration testers, multi-DOF motion simulation tables, packaging test machines, etc.

Cylos Co. Ltd
Booth: 5030
Web: www.cylos.co.kr
Cylos specializes in NVH, DAQ, CAE and engineering services with top brands such as Dytran, Norsonic, m+p, Labworks, Tira, DDS, Spektra, APS and Sonocat. Its services include correlation analysis, optimized CAE design, noise and vibration analysis, modal analysis, vibration controllers, building acoustics and monitoring systems. Cylos delivers advanced measurement solutions.

D

Daehan Tech Co. Ltd
Booth: 5040
Web: www.daehan-eng.co.kr
Daehan Tech is a specialized manufacturer of reliability testing equipment for automotive components and related parts. The company takes pride in being a leader in the custom manufacturing of reliability testing equipment and prioritizes creating products optimized for customer requirements through its top-tier design and manufacturing capabilities.

Dekati Ltd
Booth: 6100
Web: www.dekati.com
Dekati has 30 years of experience in top-notch solutions for automotive particle emissions sampling and measurement. It offers complete measurement setups for both exhaust and non-exhaust emissions, such as brake and tire wear. All Dekati instruments are manufactured in Finland and come with a standard 2-year warranty.

dSpace Korea Co. Ltd
Booth: 5130
Web: www.dspace.kr
dSpace is a leading provider of simulation and validation solutions worldwide for developing autonomous and electrically powered vehicles. This year's exhibition will see UNECE R157 virtual simulation; a future vehicle PTI environment developed with KOTSA; a radar test bench for real-time OTA sensor validation; a radar target simulator; and physics-based sensor simulation for camera, radar, lidar, etc.

E

E&S Korea Inc.
Booth: 3050
Web: www.ens-kor.com
E&S Korea offers customized equipment meeting customer requirements, such as dynamometers and laboratory cooling systems. The company provides products and services for ADAS/AD, HIL/VIL, active safety and test data integration systems, as well as emission measurement equipment and monitoring systems. All employees are committed to customer satisfaction based on trust and responsibility.

EinsOne
Booth: 4060
Web: www.einsone.co.kr
Founded in 2015, EinsOne provides test equipment and customer satisfaction through excellent maintenance. Its foreign partners are STI (China), SOS (USA) and SEREME (France). Each company has enjoyed remarkable success in its business area. STI in China with the electro-dynamic vibration shaker and chamber, SOS in the USA with sand and dust MIL-STD testing, and SEREME in France with vibration and acoustic testing solutions.

Espec Korea Corp
Booth: 4050
Web: www.espec-korea.com
In 2024, Espec Korea proudly celebrates 23 years of business and progress toward being the most reliable and responsive supplier of testing solutions in Korea as a group company of Espec, the world's leading manufacturer of test chambers. Espec is your best partner in environmental test chambers and solutions.

ETAS Korea Co. Ltd
Booth: 4070
Web: www.etas.com
ETAS aims to contribute to the transition to future mobility represented by SDVs (software-defined vehicles). ETAS provides exceptional software development and enhanced security for OEMs and Tier 1s through solutions and services such as vehicle software, middleware, cloud-based OS, cybersecurity, end-to-end engineering and consulting services.

F

Famtech Co. Ltd
Booth: 5010
Web: www.famtech.co.kr
Famtech boasts 28 years of experience, providing solutions with a focus on reliability and durability. Its expertise, totaling 200+ man-years, encompasses durability/reliability design and analysis, provision of reliability testing equipment, RLDA measurement and big data analysis systems, the development of accelerated testing, consulting services and regular training programs.

G

General Utility Ltd
Booth: 3030
Web: www.gu21.com
Transform your work with General Utility's advanced vibration, shock and environmental testing solutions. Its 25-year legacy of high-tech, quality-driven innovations not only solves known challenges but also uncovers and addresses your unseen needs. Partner with General Utility for groundbreaking technology that truly elevates your performance.

GeneSys Elektronik GmbH
Booth: 3050
Web: www.genesys-offenburg.de
For almost 30 years, GeneSys has been developing high-precision and innovative sensor systems for demanding test and measurement applications. Laser measurement technology and inertial sensors are used to capture precise position and motion data of vehicles. The GNSS-based inertial system ADMA was developed specifically for vehicle dynamics analysis and ADAS evaluations in the automotive sector.

H

HanilProTech Inc.
Booth: 2000
Web: www.hanilprotech.com
HanilProTech is the expert in the field of vehicle communication. It provides vehicle communication-related products and services including customer-specific test equipment (HILS and SILS) using its vehicle networking development tool, CANlink, to automotive OEMs and partners worldwide. Visit HanilProTech to find the vehicle networking-related products or solutions that you need.

Hioki Korea
Booth: 5140
Web: www.hiokikorea.com
Since Hioki was founded in 1935, it has developed, manufactured, sold and serviced electric measuring instruments to contribute to the development of its customers' businesses and success. Hioki's products range across four product categories: automatic testing, data recording, electronic measuring and field measuring instruments.

Hottinger Brüel & Kjaer UK Ltd
Booth: 3010
Web: www.hbkworld.com
Accelerate your product innovation with HBK solutions in virtual, physical and in-process testing. From the electrification of mobility to the advancement of smart manufacturing, HBK supports you throughout the entire product lifecycle, sharing your mission for a cleaner, healthier and more productive world. Visit www.hbkworld.com for more details.

I

imc Korea Ltd
Booth: 3070
Web: www.imc-tm.kr
imc Test & Measurement is a manufacturer and solution provider of productive test and measurement systems. imc Test & Measurement is part of Axiometrix Solutions, a leading test solutions provider comprised of globally recognized measurement brands like GRAS Sound & Vibration and Audio Precision.

Inno-X
Booth: 4030
Web: inno-x.co.kr
Inno-X specializes in developing software solutions and hardware-in-the-loop systems for automotive testing equipment and is a distributor of Speedgoat. Speedgoat systems provide unrivaled workflow integration with MATLAB and Simulink and are ideal for rapidly and continuously prototyping control designs and thoroughly testing embedded controllers with digital twins.

Innosimulation
Booth: 2090
Web: www.innosim.com
Innosimulation provides smart mobility XR solutions and simulator systems to the global market. Its XR solution, based on digital twin technology, creates a highly realistic virtual world. Through virtual testing and training, Innosimulation drives innovations and offers infinite possibilities. Its advanced driving simulation technology allows realistic mobility simulations.

Intrepid Control Systems Inc.
Booth: 1010
Web: www.intrepidcs.com
Intrepid was established in 1996, and brings vast knowledge and experience of vehicle networks to provide simple and innovative solutions to your application needs. It provides cutting-edge software and hardware solutions to support various sectors including automotive, heavy-duty, industrial and many more. Intrepid has many offices worldwide.

Ipetronik GmbH & Co. KG
Booth: 4010
Web: www.ipetronik.com
Ipetronik is a globally operating company for mobile measurement technologies, DAQ software, engineering services and test bench technology for the automotive industry. Whether your requirement is on the test bench or in the field, count on Ipetronik to provide the right solution for your application.

IPG Automotive Korea Ltd
Booth: 6120
Web: www.ipg-automotive.com
IPG Automotive is a specialist in the field of virtual development methods for applications such as autonomous vehicle, ADAS, hybrid, EV, powertrain and vehicle dynamics. As a global leader in virtual driving technology, the company provides innovative simulation solutions for vehicle development.

Issoft Co. Ltd
Booth: 3080
Web: www.is-soft.co.kr
Issoft offers turnkey facilities, systems and standard and custom products that will increase your capabilities, capacity and efficiency. It provides innovative technologies of the highest quality and works with the utmost care and attention. Only reliable products guarantee precise test results.

J

JAT Co. Ltd
Booth: 2050
Web: www.jatweb.co.kr
JAT offers solutions to customers in the field of active and passive safety, with technical excellence in testing the safety performance of automobiles and automotive components. It also provides calibration, technical support and testing services to keep your products at the forefront of technological innovation.

JFM Technology Corporation
Booth: 6050
Web: www.jfmtech.co.kr
JFM Tech specializes in a variety of mechanical and environmental testing equipment that can verify the life and durability of automotive electronic components and the reliability of the battery. Environmental testing includes Weiss Technik, Ascott and JFM Engineering products. Fatigue testing includes Dyna-Mess products, vibration and impact testing, AscendTech products and automotive safety systems and Aries products.

Jinsung Mecha System Co. Ltd
Booth: 5060
Web: www.jstest.co.kr
Established in Hwanghak-dong, Jung-gu, Seoul in 1988, Jinsung Mecha System supports a wide range of technical services such as making orders, commissioning equipment and improving/renovating old equipment in the field of test equipment manufacturing and installation, based on technical know-how and specialized manpower accumulated from its years of field experience.

Joowon Industrial Co. Ltd
Booth: 2040
Web: www.joowon.co.kr
Joowon is a distributor that sells various test equipment for vehicles, tires and road surface evaluation. Its main products are ASI's driving robot system, A&D's vehicle and tire tester, M&P's road surface evaluation equipment, Moquette's road carpet and Mitsubishi Heavy Industries's crash simulator.

K

Keycom Corp
Booth: 6040
Web: www.keycom.co.jp/index-e.htm
Keycom, a leading company and a pioneer for radar test systems in the automotive industry, will be exhibiting a solution to easily measure the transmission attenuation of the bumper for refinish and aftersales. A solution for material characterization and RTS passive type will also be displayed.

Kikusui Electronics Corp
Booth: 4010
Web: www.kikusui-korea.co.kr
As a specialist manufacturer of electronic measurement instruments and power supply equipment, Kikusui is supported by a strong foundation of electronics technologies developed over more than 60 years. Kikusui's main products include power supply, e-load, safety testing equipment, etc.

Kostech Inc.
Booth: 3000
Web: www.kostech.net
Kostech offers complete automotive solutions, including research, development, testing, calibration, and advanced driver monitoring systems based on eye tracking and biometric analysis. It specializes in electric and hydrogen vehicle testing with customizable sensors and telemetry systems, as well as optical sensors for vehicle driving tests, complemented by a high-performance digital filter DAQ.

M

Michigan Scientific Corporation
Booth: 5050
Web: www.michsci.com
Michigan Scientific Corporation has over 60 years of expertise in the design and manufacturing of testing equipment. It specializes in the production of standard and custom slip ring assemblies, strain gauge-based transducers, signal conditioning electronics and wireless telemetry. Michigan Scientific equips companies with reliable and innovative solutions for automotive testing.

Morai
Booth: 3060
Web: www.morai.ai
Morai is a leading simulation platform provider for verifying the safety and reliability of autonomous vehicles. As Korea's exclusive provider of comprehensive autonomous driving simulation solutions, Morai's simulation platform is utilized by over 200 clients, including Hyundai Motor Company and Samsung, spanning industries, academia and government.

MSElemec
Booth: 6090
Web: www.mselemec.com
MSElemec, in partnership with Unico, brings global engineering and tailored service quality to Korea. It equips forefront technology firms with advanced drives and control systems. MSElemec's specialties include control systems for EV propulsion testing (battery packs, cells, inverters, e-motors, e-axles), metal forming and converting industry solutions, driving the digital future.

Müller-BBM VAS Korea Ltd
Booth: 4100
Web: www.paksystem.co.kr
Müller-BBM VAS offers the PAK live ecosystem for data acquisition and analysis, together with power analyzer, high-voltage and current and ECU data. Also offered is the component and blocked force TPA, with dynamic substructuring, 6DOF virtual transformation and dynamic stiffness injection.

N

Nutech
Booth: 6110
Web: www.nutech.co.kr
Nutech has extensive experience in control solutions, specializing in powertrain systems and dynamo test units. It is an industry expert that has provided innovative control solutions for its clients as a Siemens Solution Provider. Nutech has completed everything from small system expansions to large new powertrain projects.

O

ODA Technologies
Booth: 7070
Web: www.odacore.com
ODA Technologies is a manufacturer specializing in electrical and electronic testing and measuring instruments. The company manufactures programmable DC power supplies and programmable DC electronic load and test systems and solutions for a variety of industrial sectors.

Omagom, LLC
Booth: 7050
Web: www.omagom.co.kr
Omagom offers the digital image correlation system Aramis SRX 8G, the optical 3D scanner Atos and the handy scanner T-SCAN hawk 2.

OptoLink
Booth: 4040
Web: www.optolink.co.kr
OptoLink manufactures and supplies premium high-power lighting for automotive crash testing in Korea.

P

Pickering Interfaces Ltd
Booth: 7060
Web: www.pickeringtest.com
Pickering recognizes the complexity of automotive electronics. Its modular PXI and LXI switching and simulation solutions cater to the unique requirements of the automotive industry. For ECU testing, HIL simulation, powertrain system simulation, BMS testing or RF and microwave testing, choose Pickering to stay ahead in this rapidly evolving field.

Pico Technology
Booth: 7040
Web: www.picotech.com
Pico Technology is a global leading manufacturer of high-performance electronic test instruments. Since it was founded in 1991, the company has built up an impressive portfolio of products including PC oscilloscopes, RF products and dataloggers. These have numerous advantages including 30GHz, 16-bit ADC, 8 channels, flexible resolution, etc.

R

Ref.Korea
Booth: 7030
Web: www.refkorea.co.kr
Ref.Korea is the Korean agency of SMTech, the world's first screw compressor manufacturer.

S

SE Systems, Inc.
Booth: 5080
Web: www.sesystem.co.kr
Link provides a range of capabilities for testing brake emissions on passenger cars, commercial vehicles and rail applications. Depending on your testing needs, emissions features can be provided for conventional brake dynamometers, retrofit of existing brake dynamometers and/or dedicated brake emissions testers. Visit the booth to learn more.

Seoul Industry Engineering Co. Ltd
Booth: 2010
Web: www.seoulcorea.com
Seoul Industry Engineering (SIE) in South Korea offers heat pump system test benches and calorimeter systems for eco-friendly component testing, EHAD test benches for HVAC linearity tests and a portable air flowmeter. SIE is well equipped to fulfill your testing requirements with its own technology.

SGS Korea
Booth: 1030
Web: www.sgs.com
SGS is the world's leading inspection, verification, testing and certification company.

Shanghai Tosun Technology Ltd
Booth: 5110
Web: tosunai.com/en
TSMaster, invented by Tosun, is a versatile software tool designed for automotive network monitoring, simulation, calibration and data processing. Its key functionalities include tracing, transmitting, parsing and analyzing various types of communication messages. Each code created within TSMaster is designed to be independent, shareable, citeable and compatible across different hardwares.

Southern Hemisphere Proving Ground
Booth: 4020
Web: www.shpg.co.nz
The Southern Hemisphere Proving Ground is an award-winning proving ground located in the South Island of New Zealand. SHPG offers counter-seasonal winter testing to global vehicle, component and tire manufacturers during the Northern Hemisphere summer, from June to September.

Speedgoat GmbH
Booth: 4030
Web: www.speedgoat.com
Speedgoat offers state-of-the-art solutions for customers working in the automotive domain to fast-track their R&D activities, especially toward innovations in electrification, automation and connectivity. Speedgoat's rapid control prototyping and hardware-in-the-loop target simulators enable its customers to remain at the forefront of technological advancements in the automotive industry.

Spirent Communications Ltd
Booth: 4010
Web: www.spirent.com/Solutions/Automotive
Spirent is your partner of choice for testing connected vehicles. World-leading automotive brands and subsystem developers rely on Spirent solutions to verify that their systems deliver outstanding user experience. Spirent provides professional testing solutions for automotive ethernet, satellite positioning systems and security-related solutions in the automotive field.

Suresoft Technologies Inc.
Booth: 1000
Web: www.suresofttech.com

T

Technica Engineering GmbH
Booth: 4010
Web: www.technica-engineering.de/en
Technica Engineering is a pioneer in the integration of automotive ethernet. From supporting the standardization of 100Base-T1 to providing end-of-line testing systems, Technica applies its knowledge to engineering services at all stages of E/E development.

Techways Co. Ltd
Booth: 4010
Web: www.techways.co.kr
Techways has maintained continuous business cooperation with related local and overseas companies, based on innovative technology for the growth of the Korean automotive electronics and power electronics industries. It is working with specialized overseas companies with advanced technologies to promote the growth of the future automotive electronics and power electronics markets.

Techwayskewell (Kewell Technology Co. Ltd)
Booth: 4010
Web: www.kewelltest.com
Kewell has been a leader in providing test solutions and intelligent manufacturing equipment to various industries based on test power supplies. TechwaysKewell is a joint brand between Techways and Kewell in Korea. It provides test power supplies for battery testing and power conversion components testing for EVs.

Tektronix
Booth: 2110
Web: www.tek.com/ko
Tektronix is a leading company with over 75 years of experience in the electronics industry, specializing in oscilloscopes. It has been providing advanced testing systems and solutions to solve current and future challenges in the electric vehicle (EV) industry.

Testmation
Booth: 7060
Web: www.testmation.com
As an agent for Pickering Interfaces, Testmation is responsible for sales and technical support of PXI, PCI and LXI modular switching and simulation products used in ECU tests, HIL simulations, powertrain system simulations, BMS tests and RF and microwave test applications. Testmation additionally supports Pickering's partners.

Thomas Cable
Booth: 5070
Web: www.thomas.co.kr
Thomas Cable provides a customized non-stop solution to customers in various industries with various field experiences. With a wealth of experience specializing in manufacturing cables and harnesses and cable R&D for over 30 years, Thomas Cable promises continuous growth with global technology through various overseas networks to find better solutions.

Toyotech Co. Ltd
Booth: 6060
Web: www.toyotech.co.kr
Toyotech is a company specializing in power electronic measuring instruments. It has a diverse line-up to suit customer needs. Toyotech also builds an automated testing system tailored to customer needs – bidirectional DC power supply, wide range DC power supply and programmable DC electronic. Visit the booth to learn more.

Tracetronic Ltd
Booth: 4080
Web: www.tracetronic.kr
Tracetronic is an expert when it comes to automated software testing in the automotive sector and all related industries. Tracetronic knows exactly how software for automobiles is developed and uses this knowledge for highly efficient test automation.

V

Vector Korea IT Inc.
Booth: 4000
Web: www.vector.com
For more than 35 years, Vector has been an outstanding partner for the development of automotive electronics with more than 4,000 employees at 33 locations worldwide. Vector's tools, software components and services help you develop the mobility of the future: e-mobility, safety and security, ADAS and autonomous driving, AUTOSAR adaptive...

Visol Inc.
Booth: 5090
Web: www.visol.co.kr
Visol is a leading global supplier of high-speed lighting systems with LED light sources for crash test facilities. Based on its experience in applying high-speed cameras in various fields, Visol has provided consulting, structural design, custom development and production, installation, training and maintenance for more than 24 years.

W

WEH GmbH Verbindungstechnik
Booth: 5120
Web: www.weh.com
With more than 50 years of experience, WEH is a leading manufacturer of high-quality quick connectors for filling applications and functions and pressure and leak testing of components during production.

Woojin Technology Co. Ltd
Booth: 2070
Web: www.woojintech.com
Visit the booth to learn more about what Woojin Technology offers: e-motor dynamos, multi-charge BTS and universal inverters.

X

Xylon d.o.o.
Booth: 4010
Xylon is an electronics company focused on the design of flexible automotive datalogging solutions, intellectual property and design services based on programmable FPGA and SoC/MPSoC devices. The company was founded in 1995, and since then has delivered many FPGA designs used in production automotive systems on the road.

Z

ZES Zimmer Electronic Systems GmbH
Booth: 2080
Web: www.zes.com
ZES Zimmer Electronic Systems, a high-tech company specializing in high-precision power analysis, has developed and globally distributed power analyzers, high voltage dividers and current transducers for over four decades from its HQ in Oberursel (Frankfurt), Germany. Visit the booth to discover how the company's innovative measurement solutions can elevate your applications.


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TECHNOLOGY PRESENTATION STAGE

Christian Bohne
senior manager international sales and service
m+p international Mess- und Rechnertechnik

Safe vibration testing through notching: background and applications

By limiting the shaker drive signal (notching) at critical frequencies, the safety of the vibration test against over testing can be significantly increased. This is a particularly valuable benefit for large and expensive test objects. The focus is not only on the safety of the test object but also on avoiding overloading of the shaker system due to tilting moments and realistic vibration testing (keyword 'impedance mismatch'). Various notching methods and their backgrounds are presented and illustrated using tests carried out on a large test object.

Thomas Semlitsch
head of sales and marketing
4activeSystems

Design and validation of 3D targets for ADAS testing

Advanced driver assistance systems (ADAS) have witnessed a rapid evolution, transforming the driving experience and, more importantly, enhancing road safety. The intricate interplay of sensors, algorithms and real-time decision making defines the core of ADAS technologies. As these systems become more sophisticated, the need for robust testing methodologies has never been more crucial. In this context, the design and validation of 3D targets for ADAS testing emerge as a linchpin to ensure the reliability and effectiveness of these safety-critical systems. ADAS technologies encompass a spectrum of features, from lane-keeping assistance to collision avoidance systems, all aimed at making driving safer and more convenient. However, the complexity of these systems demands rigorous testing to validate their performance under various conditions. Traditional testing methods, often reliant on on-road trials, are time-consuming, expensive and limited in their ability to cover the vast array of scenarios that drivers may encounter. The effectiveness of ADAS systems hinges on their ability to accurately perceive and respond to the dynamic and unpredictable nature of real-world driving scenarios. Consequently, testing methodologies must evolve to keep pace with technological advancements and ensure the seamless integration of these systems into everyday driving.

Hyeong Ahn Kwon
CEO
ExleetEdge Korea

Reliability assessment through RPA (reliability physics analysis) virtual qualification on electronics and case studies

Reliability assessment is a process to validate the ability of electronics to meet the required performance specifications in their lifecycle application environment for a specified period of time. If the integrity test data on electronics is not sufficient to validate the reliability in their application, virtual qualification like RPA should be considered. By testing electronics virtually, RPA simulation helps a user respond to various scenarios such as different lifecycle loads across customer segments, small sample sizes, shorter test time and other limited physical and realistic situations. This is especially true for electronics because of the characterization and uniqueness of high-reliability digital electronics. The RPA virtual qualification also allows the user to optimize the part parameters of electronics so that the minimum time-to-failure of any part is greater than the expected life. This is especially important for cost reduction as well as the safety margin of the product. This optimization process is a repetitive what-if process after performing the baseline analysis of electronics to find its weakness in light of the end-use reliability objective. In the presentation, a few case studies will be introduced.

David Yoon
CEO
Famtech

Electrical and signal post-processing techniques for AC power analysis in electric vehicles

The theoretical and real-world range of an electric vehicle may vary significantly. To maximize the range and overall efficiency of the vehicle, it is necessary to understand and characterize how the vehicle will be used and determine through meticulous measurement and analysis where the losses occur. Practical examples of how insights from high-speed digitalized data can be gained using digital signal processing (DSP) techniques will be shared during this presentation.

Ju-Yeong Park
SW development team leader
HanilProTech

CANlink 7.0 test simulator with network development SW tool

CANlink is a software tool that can be used in all design, development and testing processes of networks and ECUs. With CANlink, users can experience essential and powerful performance in automotive fields, from data analysis and simulation to diagnosis, calibration and testing. HanilProTech offers CANlink at a reasonable price by applying domestic technology. CANlink 7.0, which will be released this year, will be introduced with new protocols such as XCP on ethernet, SOME/IP and DoIP.

Florian Sailer
business development
imc Test & Measurement

Torque vectoring – role and importance in e-mobility

Torque vectoring is a technology that is increasingly being used in modern vehicle architectures to tune the driving behavior of an EV. Here, the driving and braking torques applied to the individual wheels are controlled differently. A prerequisite and challenge for the use of torque vectoring technologies in vehicle development are vehicle dynamics tests with precise and synchronous data acquisition. Vehicle dynamics deals with the lateral dynamics of the vehicle, which mainly refers to driving stability, lateral slip, yaw and roll. It is further divided into longitudinal dynamics and vertical dynamics, which include driving, braking and ride comfort. Driving slip and braking slip are studied at the wheels in the longitudinal direction of the vehicle, which can also improve driving and braking efficiency.

Deugsu Byun
head of smart mobility business division
Innosimulation

Real vehicle testing – vehicle-in-the-loop

Vehicle-in-the-loop (VIL) is one of the testing methods for the safety of advanced driver assistance systems (ADAS) and autonomous driving (AD) functions at the vehicle production level. This testing technique involves integrating actual production vehicles into a virtual environment to evaluate and enhance the performance of the vehicle's systems and software. It is considered a crucial step in the automotive development process. VIL systems are categorized into static VIL and dynamic VIL, depending on their purpose. They consist of components such as chassis dynamometers, over-the-air (OTA) sensor stimulators, digital twin-based road models and various evaluation scenarios. This high-end virtual testing technique requires a diverse range of equipment, real-time interfacing technology and domain knowledge for system integration. Innosimulation aims to introduce the configuration and effectiveness of VIL systems through practical application cases. This showcases the application of VIL systems and their relevance in enhancing the safety of ADAS/AD functions.

Hyuntae Suk
technical sales engineer
Speedgoat Inno-X

Electric vehicle battery management system testing solution

Speedgoat offers test systems for rapidly and continuously prototyping control designs and thoroughly testing embedded controllers with digital twins. Together with MathWorks, Speedgoat designed a scalable real-time battery management system (BMS) testing solution to assist users with technical and workflow challenges when developing and testing electric powertrains. Go from model-in-the-loop to hardware-in-the-loop without leaving Simulink or changing your model. Benefit from a fully Simulink-integrated solution that provides flexible and automated workflows, powerful digital twin simulation software, hardware emulation solutions and modular testing systems that can scale with your needs.

Jinsu Kim
office manager
Intrepid Control

10 MBase-T1s network intro and related solutions

10MBase-T1s, a vehicle ethernet that uses bus architecture like CAN in place of the current point-to-point ethernet connection mechanism, has been developed in the name of automotive ethernet. 10MBase-T1s' fundamental architecture as well as the testing solution will be explored.

Cheolho (Bruno) Lim
account manager
IPG Korea

IPG Automotive CarMaker/TestBed for integration of virtual and physical testing on all types of testbeds

IPG Automotive CarMaker/TestBed is an open, flexible, scalable and customizable integration solution for any type of powertrain testbed. The real-time simulation of both vehicle and environment combines with powertrain testbeds to form one flexible and integrated development, validation and test environment. This unique front-loading test environment with IPG Automotive's TestBed product line is also useful in the early development of functions and vehicles such as electrified and autonomous driving. The result is an unmatched ability to perform real-world driving scenarios with remarkable ease of use. The IPG Automotive TestBed product line for CarMaker, TruckMaker and MotorcycleMaker empowers users to make virtual vehicle integration and system-driven powertrain testing an integral daily work practice. IPG Automotive understands the importance of the availability and usability of our solutions throughout the test lifecycle. Around the world, a dedicated team of application engineers helps clients with installation, commissioning, ramp-up and empowering services to establish the simulation-based front-loading test method as a fundamental part of their development and test process.

DongWook Park
account manager
IPG Korea

CarMaker Extended for ADAS development

CarMaker Extended is a SW tool that enables ECU verification by configuring only CarMaker Extended and a CAN device, especially in ADAS development. Designed to seamlessly integrate with IPG Automotive's CarMaker simulation environment, CarMaker Extended facilitates CAN communication verification for ADAS development. In the fast-paced world of ADAS, CarMaker Extended will facilitate rapid and precise data exchange within vehicle systems. This capability enables more realistic and efficient testing, and ultimately contributes to the improvement of ADAS capabilities. CarMaker Extended provides an environment in which controllers can be quickly verified with ADAS sensor simulations using CAN communication without the need for a real-time system.

Park Soo-han
director
Itel

Lifespan analysis of LED for automobile lamps

The automobile industry is introducing various technologies to increase safety and efficiency. Among them, LED lamps provide various advantages such as energy efficiency, color control and high durability, and improve the design and performance of vehicles. For LED lamps, specifications are established for each automobile manufacturer according to environmental requirements depending on the installation location to verify function and performance and ensure durability beyond the warranty life. Due to the nature of lamps with different operating times for each function, the LEDs used must also be different, but in reality the entire lamp has no choice but to be replaced even if one internal part is damaged, so an excessively high safety factor is applied. As the proportion of LED lamps is increasing according to various customer needs and the number of LEDs used is also increasing, checking the lifespan of LEDs and selecting the optimal product is an important task to ensure reliability and economic efficiency at the same time.

Hyangseol Cho
manager
Magus Technology

Evaluation system for autonomous driving safety verification and performance validation: utilizing AB Dynamics GTC

With ongoing advancements in autonomous driving technologies, contemporary autonomous vehicles are progressively supplanting certain aspects of the driver's role. However, as we envisage the advent of Level 4 and 5 autonomous driving technologies, the majority of the driver's responsibilities are anticipated to be entirely automated. Consequently, there is an intensified emphasis on the verification of safety and the validation of performance for autonomous vehicles. At this juncture, AB Dynamics' GTC system stands out as a pivotal tool, providing an optimal environment to simulate realistic traffic scenarios, including worst-case situations. This system facilitates proactive safety confirmation and performance validation assessments for autonomous vehicles.

Sangtaek Oh
CEO
Seoul Industry

Consideration on the research and development of equipment for parts of eco-friendly automobile thermal management

Thermal management is the key to extending the driving range of eco-friendly electric vehicles and increasing human-centered thermal comfort. In particular, heat pump systems, which are considered the most advanced heat management technology today, require the development of three to four times more components for optimal heat management – such as batteries, motors, inverters and CPUs for controlling – than the existing air-conditioner cycles do. As a result, a lot of testing is required to research and develop high-level parts of electric vehicle thermal management, and a lot of research and development is also required for testing facilities according to the types and characteristics of the parts.

Choi Won-hee
team leader
Spring Cloud

SDV development direction using an open source-based autonomous driving platform

Vehicles which are evolving around software with the launch of electric vehicles are currently competing to increase the future value of SDVs, and investment and technology development are being actively carried out. Therefore, the presentation looks at the development directions viewed from the perspective of suppliers and consumers on the services to be developed in the future.

Speaker to be confirmed
Vibration Research Corporation

Defining reliability targets for accelerated vibration test profile generation

In the evolving automotive industry, establishing specific reliability targets and developing appropriate testing methodologies are paramount. As existing profiles and targets become outdated, a more tailored approach to test development is required. We will detail the procedure for determining reliability goals and concentrate on developing accelerated vibration test profiles that effectively merge real-world field conditions with controlled laboratory testing.

Jong-Yeol Park
manager
Xylon

AI tales from the cabin – from data harvesting to full AI validation with Xylon

Today's in-cabin automotive systems count passengers, guard babies seated in rear seats, check drivers for signs of drowsiness and ensure that they are alert and ready to take over vehicle controls. Because those AI systems must monitor humans and recognize their behavior, their development imposes new and specific requirements, such as collecting humans' bio-medical data and their assessment by non-automotive experts, for example from medical and cognitive sciences. Xylon's presentation will outline technological and other challenges of in-cabin data capturing in labs and remote test fleets and discuss the ways to overcome them through each development and testing stage, such as heterogeneous sensory setups, ground truth and training data sets development, neural network optimization and hardware-in-the-loop (HIL) simulation. Topics such as test fleet management, data offloads and refining for DNN training, approaches to setting up ground truthing, metadata extraction and full hardware evaluation will be illustrated through a project developed in-house. The presentation will also outline the challenges of quick and precise translation between physical and virtual domains in HIL direct data injection and full virtual drive simulations.

Jaeho Shim
professor
Suwon University

Hydrogen fuel cell/stack test introduction and development direction

The hydrogen car industry is gaining momentum due to the impact of the climate crisis. This presentation introduces the testing methods and future application directions for hydrogen fuel cells as the core of hydrogen vehicles.

Daehwan Kim
business development manager
Vector Korea IT

Analysis of electrical power and efficiency in road tests and on test benches

The development of electric vehicles requires optimization of both the power electronics and the ECU application. In most cases, they influence each other. Merely measuring voltages and currents is not sufficient as a measurement for optimizing the components of electric vehicles. Only derived values such as active power and efficiency are meaningful. It is the basis for the comprehensive analysis of the efficiency of inverters, electric motors, converters and charging systems. With Vector e-mobility measurement technology, ECU internal values can be measured and adjusted and analog measurement signals can be synchronously acquired and analyzed.

Cholhee Kim
CEO
Tracetronic Korea

CI for vehicle development

Since vehicle development is now based on software development, it is obvious to use established methods and processes here as well. An example of this is the DevOps approach, which integrates and automates the work of software development as a means to improve and shorten the systems development lifecycle.

Kate Kim
CEO
Jetson AI

Development and verification of embedded-based 3D object tracking algorithm

The presentation will discuss research and development of deep-learning-based 3D multi-object tracking technology for autonomous driving systems. It will introduce the design and implementation of embedded systems for this system and verification tests for functional safety.

Cho, KyungHyun
CEO
ZES Zimmer Electronic Systems

Efficiency and energy measurement in the e-mobility sector with precision power analyzer

In response to the growing needs of the electric vehicle market, ZES Zimmer is dedicated to providing accurate, customized solutions that optimize efficiency and support e-mobility manufacturers. This presentation not only solves important challenges in EV development, which establishes accurate power measurements of drivetrain components such as traction inverters, high-voltage DC-DC converters and on-board chargers, but also concentrates on the certification of charging stations..

Jiwon Jung
CEO
Morai

Mobility trends and autonomous vehicle technology issues

The next generation of mobility, represented by autonomous vehicles, is rapidly advancing. However, there are numerous challenges in fully implementing and commercializing autonomous driving technology. Recently, software-defined vehicles (SDVs) have become a key component in the automotive industry, and the need for virtual environment verification, certification and integrated development environments has become essential. The role of autonomous driving simulations in supporting these has become increasingly important. This session will closely examine the standards and technological trends related to simulation-based development, verification, evaluation and certification. We will also explore how Morai's autonomous driving simulation platform responds to these changes, showcasing the company's technical features, strengths and practical success stories.

Donghyun Seo
manager
Keysight

The future of automotive ethernet

Various automotive technologies in the automobile market are developing at a rapid pace, and automotive ethernet technology that supports them is also accelerating. Explore the changing automotive market trends and latest solutions through Keysight.

Aaron Lehman
CEO
System of Systems

Blowing sand and dust testing: proven processes and lessons learned

This presentation will describe the methodologies and processes used in the design of blown sand and dust test chambers over the past 30 years. In the 15 years we have been custom designing, building and maintaining blown sand and dust test chambers, we have had four of our most challenging processes. We'll explain these topics in detail using real test data, photos and videos. Concentration of sand and dust, wind speed management and control, systems that separate sand and dust from the airflow versus circulation systems, and temperature and humidity control will all be covered.

Minhyuk Kwon
director (Intelligent Test Automation Room/
Suresoft Test Automation Research Institute)
Suresoft Technologies

Path to trustworthy and dependable AI

This presentation explores trends in activities to increase the trustworthiness and dependability of artificial intelligence (AI) systems in the automotive industry and introduces an AI model adversarial testing evaluation tool. By identifying and improving vulnerabilities in AI systems, this tool will contribute to promoting the development of safer and more reliable automotive technologies.

Cho Min-seong
director (Embedded Technology Research Institute)
Suresoft Technologies

Simulation-based SW development/verification plan in response to SDV conversion

This presentation anticipates changes in SDV development trends and SDV conversion of auto makers and presents development/verification efficiency measures, represented by virtualization-simulation, to resolve the SW crisis caused by a lack of developers.


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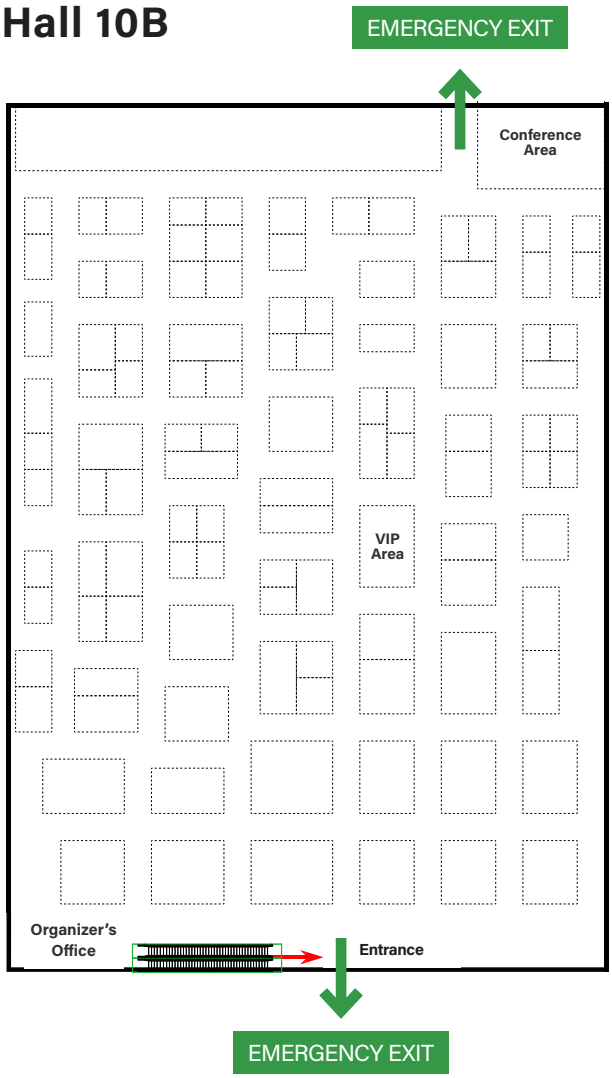

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