Fugitive Emissions Summit
China
Advance Program

September 20 - 21, 2016
Shanghai International Convention Center
Shanghai, China

The leading knowledge and business event
for fugitive emissions
and VOCs control professionals!

www.fugitive-emissions-summit.com
Why a Summit

Fugitive Emissions is not a new concept in China. However despite the growing concerns on the air quality and environmental issues, the Fugitive Emissions and LDAR technologies have never been widely adopted in China’s industrial market until recent years. In December 2014, the ministry of environmental protection has drafted a remediation programs for China’s petrochemical industry, targeting a 30% reduction of VOCs emission by 2017. “Strengthen VOCs control. Comprehensive VOCs control should be implemented in petrochemicals, organic chemicals, surface coating, packaging, printing and other industries. Technology transformation of ‘Leak Detection and Repair’ (LDAR) should be conducted in petrochemical industry.”

The program is currently being effectively implemented. Leakages are being identified and repairs undertaken using new cutting edge technologies. This summit aims to bring a group of experts from the global industry to share their knowledge, experience and innovations on the Fugitive Emissions control and LDAR practices. End users, government bodies, research institutes and engineering companies are also welcome to share their successful cases, challenges, and new legislations in China. This summit will focus on the China perspective and cover comprehensive topics beneficial to the end users, Engineering companies, government bodies and equipment suppliers.

Audience

The content of the summit will be particularly of interest to:

- Engineers and managers from reliability, maintenance and HSE departments in chemical, petrochemical, oil & gas companies.
- Suppliers and manufacturers of Fugitive Emissions management products and services, including valve and sealing products
- Government, regulatory bodies and research institutes
- Mechanical, Material and process engineers from engineering companies.
- Decision makers within these companies/ bodies

Topics of the Summit

- VOCs control & LDAR regulations in China
- Fugitive Emissions international standards
- Case study of Fugitive Emissions control activities
- Refinery and Chemical plant applications
- Valve and flange sealing technologies
- LDAR practice from different countries and markets
- Low Emission Testing
- Industry trends
Welcome Address

Dear friends and fellows from petrochemical businesses,

It is my great honor to participate in the 2016 Fugitive Emission Summit China as the Chairman of Steering Committee. Fugitive emissions remain both a hot topic and challenge within the petrochemical industry. Main reasons behind this includes the frequent accidents caused by fugitive emission and there is hardly any sign of mitigation; on the other hand, VOCs contributed by petrochemical plants via fugitive emissions are also a cause of air pollution; while field operator might suffer occupational disease. Meanwhile, plants suffer economic loss because leaked material can be raw material, intermediate product or even final product. The fugitive emission issue is both complicated and multi-disciplinary. It involves environment protection, safety, energy saving, occupational health, etc. Therefore, it’s really necessary to build up a comprehensive communication platform so that people can conveniently exchange experience and discuss technical issues.

As the society becomes more and more serious about air quality and environmental issues, authorities are imposing more critical requirements against environment pollution. The focus of experts and this event is to control the VOC fugitive emission issues in petrochemical industry and gradually mitigate VOC emissions. Topics covered by this conference include: international fugitive emission standards, timing of application of LDAR in the markets of different countries, valve and flange sealing technology, VOCs mitigation and LDAR concerned laws and regulations in China, practical case of fugitive emission control, low emission testing, refinery and chemical plant practice, trends of the industry, etc. We’re keen to invite friends from end users, government authorities, research institution, engineering companies and equipment supplier to join this event.

Looking forward to seeing you at the 2016 Fugitive Emission Summit China!

Shanjun Mu,
SINOPEC Qingdao Research Institute of Safety Engineering

What makes Fugitive Emissions Summit China so unique?

• An International Steering Committee, to ensure the quality of content and broad range of views
• Focus on practical experience from speakers, not just theory, so you get realistic and viable solutions
• Providing valuable information to end users and lawmakers
• ChevronTexaco expert gives live demonstration of the LDAR VOCs detection process and packing replacement
• Gathering of international and China’s most innovative businesses, expanding your opportunities for cooperation
• Experienced engineers as well as academics, presenting the forefront of technical innovation from abroad
• We are committed to build a global LDAR knowledge platform

Visit the exhibitors

Visit the exhibition area to learn more about the companies providing FE and LDAR solutions to China. Some of the speakers from the conference will also be available at their company’s stand in the exhibition, where you can have further discussions on the topics they covered in their speech. Sponsors such as AW Chesterton, Flexitallic, Neway and Roofteam will all showcase their FE capabilities at the exhibition, alongside more than 15 other companies. During the various coffee breaks and lunch breaks, conference delegates are encouraged to discover the exhibition area and network there with all the key players in the FE & LDAR industry.

For more information please contact:

Conference:
Jewel ZHU
Conference Organizer
Tel.: + 86 21 6351 9611 - 604
y.zhu@kci-world.com

Exhibit/Sponsorship:
Ms. Joan Pan
Tel.: +86 21 6351 9611
j.pan@kci-world.com
## Advance Conference program FE Summit China

**Tuesday, 20 September**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:50</td>
<td>Plenary Session* Chair: Shanjun Mu, SINOPEC Qingdao Research Institute of Safety Engineering Co-Chair: Bill Ross, Chevron-Texaco</td>
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<tr>
<td>9:00</td>
<td>Regulations on VOCs control in China – Jinshan Cui, Ministry of Environmental Protection</td>
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<td>9:30</td>
<td>Sinopec practice on LDAR – Shanjun Mu, SINOPEC Qingdao Research Institute of Safety Engineering</td>
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<tr>
<td>10:00</td>
<td>China’s experience and lessons learned – Dr. Edward Quick and Bronson Pate, Sage Environmental Consulting</td>
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<tr>
<td>10:30</td>
<td>Coffee break &amp; Expo Visit</td>
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<tr>
<td>11:00</td>
<td>25 Years experience leading to Emission Reduction Results – Bart Wauterickx, The Sniffers</td>
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<tr>
<td>11:30</td>
<td>Master Class: Fugitive Emission Standards and Laboratory Testing of Valves and Seals – Matt Wasielwski, Yarmouth Research and Technology, LLC</td>
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<tr>
<td>12:30</td>
<td>Lunch break &amp; Expo Visit</td>
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<th>Time</th>
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<tr>
<td>13:30</td>
<td>Master Class (Conference Room 1): Fugitive Emission Regulations and Impact on End User Facilities; California Refineries and Kazakhstan Best Practices – Bill Ross, Chevron-Texaco USA Inc.</td>
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<td>13:30</td>
<td>During the whole afternoon master class, you will learn the A to Z of VOCs and LDAR from the End User’s perspective.</td>
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<td>• California air quality starting in the 1920s and reaching all-time record air pollution index in 1950s;</td>
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<td>• Evolution of California regulations and regulatory agencies and the impact on petrochemical industries in California;</td>
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<td>• Regulatory agencies and industry working together to reach emission reduction targets;</td>
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<td>• The path to select technical solutions for existing plant valves and flange joints;</td>
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<td>• The development of best practices which eventually become industry standards and implemented globally.</td>
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<td>13:30</td>
<td>Technical Session (Conference Room 2) Chair: Henry Ye, Dupont</td>
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<td>14:00</td>
<td>State of the Art Fugitive Emission Sealing Solutions for Processing Industry and OEM’s – Thomas Heitz, Burgmann Packings GmbH</td>
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<td>14:30</td>
<td>Valve Stem Packing to Reduce Fugitive Emission from Chemical and Petrochemical Industries to conform with LDAR – Yang Lu, Garlock Sealing Technologies</td>
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<td>15:00</td>
<td>Coffee break &amp; Expo visit</td>
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<tr>
<td>15:30</td>
<td>Kazakhstan Experience – Applying California FE Knowledge to Kazakhstan Facilities</td>
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<td>• Primarily safety and reliability driven; environmental is secondary;</td>
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<td>• Valve packing upgrades; Flange management and bolting technology improvement;</td>
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<td>• Routine monitoring using IR camera technology; Development and implementation of Smart LDAR</td>
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<td>15:30</td>
<td>Fugitive Emission Caused by Corrosion and Equipment Failures – Henry Ye, DuPont China</td>
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<td>16:00</td>
<td>Fugitive Emission Detector Gearbox – Hai Zhao, Rotork Actuation (Shanghai)</td>
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<tr>
<td>16:30</td>
<td>Infra Red camera videos and demonstration of replacing valve packings. (Conference Room 1)</td>
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<td>World experts Bill Ross, Chevron Texaco, Barrie Kirkman Ex-BP and Mark Sparshott Captiva UK will share their combined 100 years experience in operating sites fugitive emissions and valve insitu repacking practices. Pro’s and con’s of the various equipment and methods will be shared. Infra Red Camera videos showing VOC equipment leakages plus FID /PID flame ionisation and pellistor bulb instruments explained. Impact of climatic conditions and measuring methods described. At the climax of the demonstration a live valve repacking will illustrate the additional special skills needed to achieve low emissions whilst repacking valves positioned in-line on the plant.</td>
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Wednesday, 21 September

### Plenary Session* Chair: Barrie Kirkman, Ex-BP expert

**9:00** Survey on Domestic and foreign LDAR environment management systems – Haoyun Huang, Tianjin Environmental Protection Bureau

**9:30** LDAR regulations/practice in Shanghai – Gangfeng Zhang, Shanghai Academy of Environmental Science

**10:00** China LDAR data from end users – Bin Zou, Anshan Xiao, SINOPEC Qingdao Research Institute of Safety Engineering

- Application of LDAR technology in refining and chemical enterprises
- Use and quality testing of Low Emission Static Sealing

**10:30 Coffee break & Expo Visit**

### Technical Session (Conference Room 2) Chair: Bill Ross, Chevron-Texaco

**11:00** US EPA Impact to Industry and Valve Manufacturers – Paul Heald, Bonny Forge

**11:30** What makes a good FE packing for new/used valves? – Carlos D. Girão, Teadit

**12:00** Fugitive Emission Valve - Best Practices and Benefits – Luke Chou, Neway Valve

**12:30** Lunch break & Informal discussions

### LDAR Session (Conference Room 1) Chair: Barrie Kirkman, Ex-BP expert

**13:30** Is there a Return On Investment (ROI) for LDAR? – Barrie Kirkman, Ex-BP expert

**14:00** Taiwan LDAR policies and regulations, management strategy and auditing means – Siyu Feng, Thermo Fisher

**14:30** Open Panel session 1* **Best New valve, testing and seals practices for future LDAR in China**

- Panel experts from end users, EPC companies, test houses, sealing & valve companies. The audience is free to ask questions.
- Facilitator: Bill Ross
- Panel 1; Matt Wasielewski, Paul Head, Rodney Roth, Luke hou, Bin Zou, Carlos D. Girão

The Panelists will discuss the key aspects of testing, valve and sealing technologies shared at the Summit. Which aspects are relevant for future LDAR in China? Gaps will be identified that offer assistance to China in their quest to reduce valve and sealing fugitive emissions. Are there opportunities for future co-operation between the West and China?

**15:00** Coffee break & Informal discussions

**15:30** Open Panel session 2* **Best LDAR practice for future China**

- Panel experts from end users & LDAR companies.
- Facilitator: Barrie Kirkman
- Panel 2; Dr. Edward Quick, Bart Wauterick, Mark Sparshott, Bill Ross, Shanjun MU, Siyu Feng.

An international panel of LDAR experts will discuss the pro’s and con’s of the various methods shared at the Summit. The total Leak, Detect and Repair process for China will be explored. Has there been anything identified that could assist LDAR in China in their quest to reduce valve and sealing emissions more quickly and cost effectively? If so, what could these be? What steps need to be undertaken?

**16:15** Closing Ceremony

* Plenary Session and Open Panel Sessions will be held in Conference Room 1.
Introduction of Steering Committee Members

Mu Shanjun, SINOPEC Qingdao Research Institute of Safety Engineering, China
Chairman of Fugitive Emission Summit China 2016, member of the (America) Center for Process Safety-Technology Commission, Chief Director of China Occupational Safety & Health Association-Fire & Explosion Prevention Committee, Associate Director of State Administration of Work Safety-Chemical Registration Center; Deputy Dean of SINOPEC Safety Engineering Institute, Professor Senior Engineer, Doctor, with over 30 years of experience in the field of chemical process safety; supervised and participated about 10 projects under the National Science & Technology Program; won over 10 provincial & ministerial above-second-level prizes of science & technology award. The LDAR technology research team lead by Mu Shanjun accomplished many scientific research projects for SINOPEC. He is also responsible for the promotion and application of SINOPEC LDAR technology.

Gangfeng Zhang, Shanghai Academy of Environmental Sciences, China
Senior engineer of the Academy of Environmental Sciences, Shanghai. Long been engaged in volatile organic compounds (VOCs) pollution control technology policy and research work, he has participated in the drafting of the “Shanghai Industrial emissions of volatile organic compounds and governance programs”, “Shanghai industrial emissions of volatile organic compounds industrial pollution control projects to support special operations approach “,” Shanghai VOCs pollution charges pilot implementation”, “the volatile organic compounds emissions from industrial enterprises accounted for Interim Measures “,” Shanghai typical industry VOCs emissions calculation method “and other local policies and regulations.

Zian Ma, Shanghai Roofteam Control Engineering Co., Ltd., China
Ma Zian is the founder of Shanghai Roofteam Control Engineering Co., Ltd. Mr. Ma has 31 years of work experience in the process control equipment manufacture industry, in the power plant system pipe valve engineering design, system maintenance, supply chain management, and other fields have rich experience also. Founded several supply chain management companies for pipe, valves and fittings products for process control industry.

Matt Wasielewski, Yarmouth Research and Technology, LLC
Matt Wasielewski started Yarmouth Research and Technology in 1992 after working for several years at a major valve manufacturer as a Design Engineer in the USA. Yarmouth Research has grown into the world-leader in providing independent testing services for fugitive emission, fire, cryogenic, PR2, and gaskets. Matt was a member of the first fugitive emission test standard committee in 1993, the ISA group, which released ANSI/ISA 593. He is also an active participant in the API and a member of the API 607, 622, 624 and 641 test standard committees. Matt has presented numerous papers on fugitive emissions and fire testing at Valve World, API and Valve Manufacturers Association conferences in the United States, Europe and China.

Bill Ross, ChevronTexaco, Kazakhstan
Vice-chairman of Fugitive Emission Summit China 2016, Bill Ross is a Piping & Valve Subject Matter Expert for Chevron Corporation and supports Chevron’s upstream and downstream interests. Bill has a Bachelor of Science degree in Mechanical Engineering and is a licensed Professional Engineer in the State of California. He represented Chevron during review and comment sessions with the California Air Quality Control Districts on new regulations/ordinances regarding volatile organic compound (VOC) emissions. Bill moved to Chevron’s Engineering Technology Company in Houston for 4 years where he integrated the two California Refineries best practices into Chevron’s central engineering standards. Bill has been involved with the development of API 622: Type Testing of Packing for Fugitive Emissions; API 624: Type Testing of Rising Stem Valves for Fugitive Emissions; and a soon to be published API 641: Type Testing of Quarter Turn Valves for Fugitive Emissions.

Nicole Zhang, BASF, China
Nicole works in BASF Asia Pacific as pipeline engineering and maintenance manager. She has 28 years of experience in the chemical industry, and has lots experience in chemical engineering design, project management, supplier assessment etc. She currently serves as BASF in Asia Pacific pipeline engineering and maintenance manager. She was the Chairman of the Valve World Asia 2013 conference in Suzhou.

Mark Sparshott, Captiva Sealing
Mark has been working with LDAR projects for 17 yrs. Planning, implementing, operating, servicing & repairing equipment for companies such as, BP, EXXON, BASF, TOTAL (UK), PHILLIPS66 (UK), INEOS, AGIP (ITALY),IES (ITALY), & CHEVRON (UK), Mark is currently working at the Phillips66 UK plant having spent 5 yrs planning, implementing & operating their LDAR program. He also services the TOTAL refining plant where he has been operating their LDAR program from the outset in 2001. He also plans & executes the valve repairs identified from the LDAR surveys as well as other associated equipment. Mark began Exxonmobil’s Fawley refinery LDAR program in 1999, preparing the collected data to be used in their FE software program. Further to this he also prepared information & executed the repair of equipment identified from the unit surveys. He currently still advises & executes T/A outages. As a result of his time at Exxon Fawley he also moved to work on associated Exxon plants (Mossomoran Scotland, NDG France & Aromatics Rotherdam ). Mark was involved with the then BP refinery at Grangemouth. There he piloted an LDAR program on several units. At Ineos he still services valves during shutdowns. He was also involved with the testing of BEST AVAILABLE TECHNOLOGY gland packing for BP & EXXON in the UK. He went on to work on a number of plants throughout the UK & Europe, BASF (LDAR ), Chevron, (Valve repacking ), AGIP Italy ( Valve repacking ) IES Italy (LDAR SURVEY) & more recently the Karratha Gas Plant Australia (Valve repacking).

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Barrie Kirkman, Former BP valve expert, UK
Barrie has a Bachelor of Science in Mechanical Engineering and is a qualified Mechanical Chartered Engineer. He worked for 33 years with BP undertaking various managerial, mechanical, procurement and project responsibilities. He specializes in static equipment, piping and valves. For the last 12 years Barrie has been a consultant to the Oil/Gas, Petrochemical, & Chemical Industry. He has been privileged to assist API, Shell, BP, Ineos, BASF, Origin Energy, SASOL, Distributors, and valve companies, sealing companies, foundries & technical publishers. Also Barrie is involved with the development of all the latest fugitive emission ISA, API & ISO standards. Barrie’s career has involved membership as Chairmen of an end user Valve Emission Network (VEN), Executive member of Valve World Global Steering Committees, The Valve Academy Bergamo Italy, The British Valve and Actuator Association (BVAA) & The European Sealing Association (ESA).

Gobind Khiani, Fluor, Canada
Gobind Khiani is a professional engineer with more than 21 years of experience in the petroleum industry. He has served as Lead Engineer, in Engineering and Project Management roles, for both operating companies and Engineering, Procurement and Construction (EPC) companies. Gobind has a B.Sc. from University of Pune, India and M.Eng., from the University of Calgary, Alberta. Gobind’s current role is Director-1, Design Engineering on projects with Fluor Canada Ltd.

Ashley Yao, Evonik, China
Works in the multicultural team and interact with internal clients /project team members, external engineering company, and subcontractors to fulfill project targets; Cost estimation for piping discipline; Piping Engineering Specification review and approve; Model review; MRP review and approve for piping materials; Quality and schedule inspection for piping design; MEI work scope review; Supervision of the piping welding progress and quality; Tracing site piping modification and material purchase work; Monitor site piping work progress and coordinate piping engineer manpower and MEI manpower; Lead the test package review and supervision the hydraulic test progress; Support commission; Review and approve as built version piping documents; Engineering documents hand over.

Silvio Stojic, Atmeuco of Klinger Group, Australia
Silvio Stojic has over 20 years experience in the management and operation of leak risk control programs in hydrocarbon processing facilities. He supervised ATMECO’s preparation of fugitive emissions inventories for clients based on the monitoring results of large and multi-faceted component integrity management programs. Silvio leads the continuing development of, and manages, the modular ATMECO CIMS online database systems. This includes supervision of collaborative research and development work with university research groups. He holds a Diploma in Cleaner Production and associated technical design qualifications. Silvio acted as ATMECO Project Manager for part of the Borouge UAE Polyolefins Fugitive Emissions Management program covering some 360,000 components and oversaw the design, structure and overall reporting of the program at Borouge.

Haoyun Huang, Tianjin Academy of Environmental Sciences, China
Director of Tianjin Environment Protection Research Institute-Environmental Planning Division, Senior Engineer. In 2011, appointed by Tianjin Municipal Scientific Committee as Director of Tianjin Air Pollution Prevention and Control Key Laboratory. In the field of atmosphere protection, presided over the establishment of the National Boiler Atmospheric Pollutant Emission Criteria, Tianjin Industrial Enterprise VOCs Emission Control Standard, LDAR Technological Specification and the Emission Volume Calculation methodology, Tianjin Air Pollution Combined Force Prevention and Control Plan, Plan of the Fresh Air Action, Heavy Pollution Weather Emergency Plan, etc; developed VOC on-line monitor which fills the gap in such fields in China; Appointed as member of Air Pollution Prevention & Control Expert Committee in Beijing-Tianjin-Hebei Metropolitan and surrounding area, member of Environment Protection Department-Environmental Influence Assessment Expert Group, Vice-chairman of Tianjin Clean Production Committee, expert of Tianjin Environment Protection Department- Environmental Project Evaluation Center, Evaluation Expert of Tianjin High & New Technological Achievements Conversion Center.

Jishan Cui, Ministry of Environmental Protection, China
Jishan Cui, a senior engineer of chemical process, an advanced technical expert of safety and environmental protection in CNPC, now working as a Deputy Director in the Review Division of Petrochemical and Light Industry Projects at the Appraisal Center for Environment &Engineering under the Ministry of Environmental Protection of the People’s Republic of China. Mr. Cui has been working in the environmental protection field of petrochemical industry for over 20 years, and is familiar with the process and pollution control technology in the petrochemical industry. Since 2014, Mr. Cui has led research projects involving the definition, characterization, source term analysis and control as well as management of Volatile Organic Compounds (VOCs), led and completed comprehensive VOCs control programs and estimation methods of VOCs’ emission calculation in the petrochemical industry, as well as source term analytical method of VOCs. He has also proposed the concept of “Whole Process, Delicacy and Open Management Control” for VOCs.

Bart Wauterickx, The Sniffers, Belgium
Bart holds a Master of Mechanical Engineering and a Bachelor of Business Administration. Before joining The Sniffers, Bart worked 12 years at Brady Corporation, a USA based world leader in identification and protection of products, premises and people, where he was responsible for Operations in Europe. In 1990 he started his professional career at Atlas Copco, global compressor manufacturer. His last position at Atlas Copco was Vice President Operations.
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2 Organizational Contact Person:
Name ____________________ Tel. ____________
Email ____________________ Job Title __________

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☐ 1 Tabletop: Euro 3,900
Preferred booth numbers, in order of preference:
1 ________ 2 ________ 3 ________
Including: 2.5*2.5m decorated stand space with oblong table and 2 chairs, 2 conference tickets and cleaning service

4 Conference Tickets
☐ Early bird price: Euro 490
Including: 2 days conference, coffee breaks and 2 lunches

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111 Teadit
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