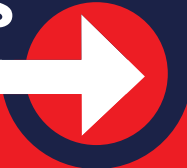


**FUGITIVE
EMISSIONS**



SUMMIT

CHINA

Fugitive Emissions Summit China Advance Program

September 20th - 21st, 2016

**Shanghai International Convention Center
Shanghai, China**

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

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Fugitive Emissions Summit China

September 20th - 21st, 2016

Shanghai, China

**Share your knowledge and experience on site
to reduce China's fugitive emissions!**



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."

It has been effectively implemented landing after the promulgation of the program. Knowledge and information leakage escaping domestic demand growing, in response to the demands of domestic and foreign industry, in-depth exploration industry, cutting-edge technology to promote the future development of win-win situation in the social and economic benefits.

This seminar 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 seminar 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 seminar 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

Fugitive Emissions Summit China 2016 Steering Committee

Chairman: Shanjun Mu,
SINOPEC Qingdao Research Institute of Safety Engineering

Co-Chair: Bill Ross, *ChevronTexaco*

Technical advisor: Barrie Kirkman, *Consultant*
Jishan Cui, *Ministry of Environmental Protection*
Gangfeng Zhang, *Shanghai Academy of Environmental Sciences*

Huang Haoyun, *Tianjin Academy of Environmental Sciences*

Nicole Zhang, *BASF*

Du Bin, *BP China*

Ashley Yao, *Evonik*

Gobind Khiani, *FLUOR Canada Ltd.*

Bronson Pate, *Sage Environmental Consulting*

Greg Johnson, *United Valve*

Silvio Stojic, *Atemeco of Klinger Group*

Matt Wasielewski, *Yarmouth Research and Technology, LLC*

Mark Sparshott, *Captiva Sealing*

Bart Wauterickx, *The Sniffers*

Allen Wang, *Neway Valve (Suzhou) Co., Ltd.*



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

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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

Exhibit at the Summit

Showcase your company while interacting with end users and industry leaders! There will be limited number of tabletops available to help support your presence at the event and from which to carry out business. You will get benefits such as:

- Promote your brand as a leader in Fugitive Emissions expertise & solutions.
- Limited number of exhibitors carefully selected from each industry category.
- Direct contact to the industry's top level decision makers and end-users.
- Drive traffic to your stand and develop business relationships.



For more information please contact:

Seminar:

Jewel ZHU
Conference Organizer
Tel.: + 86 21 6351 9611 - 604
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Exhibit/Sponsorship:

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Preliminary Conference program FE Summit China

Tuesday, 20 September

	Plenary Session Chair: Shanjun Mu , SINOPEC Qingdao Research Institute of Safety Engineering
8:50	Opening
9:00	Regulations on VOCs control in China – Jishan Cui, Ministry of Environmental Protection
9:30	Sinopec practice on LDAR – Shanjun Mu, SINOPEC Qingdao Research Institute of Safety Engineering
10:00	China's experience and lessons learned – Dr. Edward Quick and Bronson Pate, Sage Environmental Consulting
10:30	Coffee break & Expo Visit
11:00	25 Years experience leading to Emission Reduction Results: Benchmarks and Case Studies – Bart Wauterickx, The Sniffers
11:30	Master Class: History of Fugitive Emission Standards and Laboratory Testing of Valves and Seals – Matt Wasielewski, Yarmouth Research and Technology, LLC
12:30	Lunch break & Expo Visit
13:30	<p>Master Class: Introduction and implementation of the California & Kazakhstan best practices – Bill Ross, ChevronTexaco</p> <p>During the whole afternoon master class, you will learn the A to Z of VOCs and LDAR, and how US Californian standards were implemented half way around the world, in a developing country completely new to LDAR regulations.</p> <ul style="list-style-type: none"> • Upgrading existing plant valves to new FE requirements & implementation of a “Flange Management Program” • Understanding LDAR or Enhanced LDAR basics from an End User perspective Key elements, process and importance of “repairs that last” • Monitoring Methods; OVAs (FID / PID), IR Cameras • Record keeping & Reporting • Technology & the Future of ELP (Enhanced LDAR Program)
15:00	Coffee break & Expo visit
15:30	<ul style="list-style-type: none"> • Actual FE information for existing old plants to current day • The path to select technical solutions for existing plant valves. What has failed, what has worked? What is cost effective? • New valve FE requirements, Low-E valves; how & when should they be addressed? Why consider applying Low-E valves to all services? • The need for Flange & Bolting Management? Applying an established torque value for every flange connection.
16:30	Demonstration of FE Measuring and / or replacing a packing. – Bill Ross , ChevronTexaco & Barrie Kirkman , Ex-BP expert

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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 Academy of Environmental Sciences	
9:30	LDAR regulations/practicse in Shanghai – Gangfeng Zhang, Shanghai Academy of Environmental Sciences	
10:00	China LDAR experience sharing from end users - Bin Zou, Anshan Xiao, Dewu Ding, SINOPEC Qingdao Research Institute of Safety Engineering <ul style="list-style-type: none"> • Application of LDAR technology in refining and chemical enterprises • Use and Quality Testing of Low Emission Static Sealing 	
10:30	Tea/coffee break & Expo Visit & Poster Session	
	LDAR Session	Technical Session Chair: Gobind Khiani, Fluor
11:00	LDAR implementation in China and case studies – Pengyuan Xu, SGS China	Current Industry Codes on Fugitive Emissions in Valves - Gobind Khiani, Fluor
11:30	Australia / Middle East - Consideration for the design, implementation and operation of leak risk management program. - Silvio Stojic, Atemeco of Klinger Group	What makes a good FE packing for new/used valves? Carlos D. Girão , Teadit
12:00	UK LDAR, Capturing value and reducing loss - Matt Sparshott, Captiva Sealing.	Fugitive Emission Valve Practice - Yaogang He, Neway Valve
12:30	Lunch break & Expo Visit & Poster Session	
	LDAR Session	Technical Session
13:30	Is there a Return On Investment (ROI) for LDAR? – Barrie Kirkman, Ex-BP expert	Flange bolting & gasket management & ASME PCC-1 – Bill Ross, ChevronTexaco
14:00	LDAR detection and emissions accounting – Zuogang Zhu, Beijing Labor Protection Institute	Further discussions on packings.
14:30	Open Panel session 1 Best New Valve/ Testing/ Sealing practices for future LDAR in China Experts from end users, EPC companies and LDAR, valve & sealing companies will be on the stage to have an open discussion about this topic, and answer any questions from the audience.	
15:00	Coffee break & Informal discussion with presenters	
15:30	Open Panel session 2 Best LDAR practices for future China Experts from end users, EPC companies, government institutes and LDAR companies will be on the stage to have an open discussion about this topic, and answer any questions from the audience.	
16:15	Closing Ceremony	





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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

Steering Committee member of Fugitive Emission Summit. 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.



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

Steering Committee member of Fugitive Emission Summit. Nicole works in BASF Asia Pacific as pipeline engineering and maintenance manager. She has 28 years of experience in chemical industry, she 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 used to be the Chairman of the Valve World Asia 2013 conference in Suzhou.



Fugitive Emissions Summit Americas

June 13th -14th, 2016

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Barrie Kirkman, Former BP valve expert, UK

Steering Committee member of Fugitive Emission Summit. 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 Chairman 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

Steering Committee member of Fugitive Emission Summit. 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

Steering Committee member of Fugitive Emission Summit. 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, Atemeco of Klinger Group, Australia

Steering Committee member of Fugitive Emission Summit. 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 Polyolefines Fugitive Emissions Management program covering some 360,000 components and oversaw the design, structure and overall reporting of the program at Borouge.



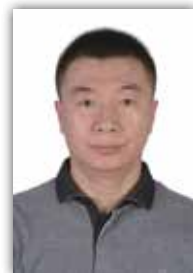
Haoyun Huang, Tianjin Academy of Environmental Sciences, China

Steering Committee member of Fugitive Emission Summit. 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

Steering Committee member of Fugitive Emission Summit. 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

Steering Committee member of Fugitive Emission Summit. 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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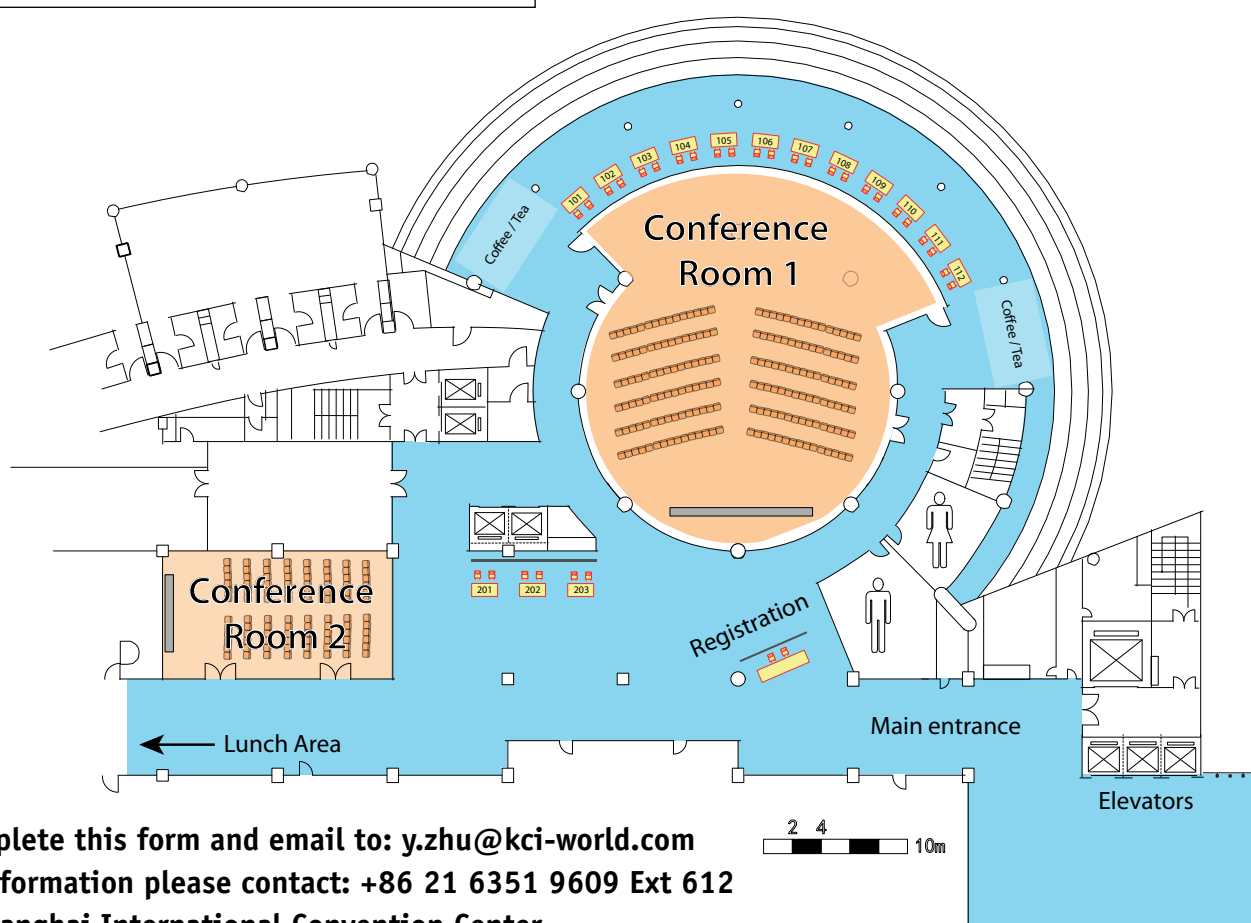
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4 Summit Tickets

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