PEFTEC

PETROLEUM & REFINING TECHNOLOGIES

IMM

INDUSTRIAL METHANE MEASUREMENT CONFERENCE

CONFERENCE, EXHIBITION & SEMINARS

8TH & 9TH JUNE 2022 ROTTERDAM, THE NETHERLANDS







EVENT CATALOGUE

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Welcome

I would like to say how good it is to be back in Rotterdam. As with most of our exhibitors and visitors this will be our first "Live" event since the beginning of the pandemic, it's great to see the support and enthusiasm of people wanting to meet back in person and networking face to face again.

This is now our Fifth PEFTEC and Third International Methane Measurement event. With the past travel and Covid restrictions the last PEFTEC was held virtually, for those who missed it...don't worry we recorded it and all presentations are free to watch on demand online, please contact us for your login codes.

This year we have dropped all registration fees and are hosting two Free to enter Parallel Conferences running in the exhibition hall along with a whole host of exhibitor seminars and poster presentations; the main PEFTEC conference highlights and discusses both the latest analytical and process applications for the petrochemical industry and the International Methane Measurement Conference highlights Policy, Regulation, Methods and measurement technologies which will drive the reduction of Methane. Both the PEFTEC and Methane conferences will have round table panel discussions at the end of the event on the 9th June which again you are all invited to attend.



There are now New Networking opportunities at PEFTEC and IMM, using our PEFTEC and IMM event platforms you can now see and Link up with all other registered attendees, exhibitors and speakers who are attending the show and also you can link up with visitors who are attending the event virtually! Please use our platform to make use of these important connections, already over 1,000 people have registered to attend this event in person and online. As part of our Networking initiative please also join us for Happy Hour on Wednesday from 4.30-5.30.

Finally, thank you once again for joining us at the show we hope you have an enjoyable and worthwhile event.

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Exhibition Organiser Marcus Pattison

Tel: +44 (0) 1727 858840 Email: info@peftec.com

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Free Wifi Access
Network: PEFTEC2022
Password: PEFTEC2022

PEFTEC Opening Times

Wednesday 8th June - 9.00am - 5.00pm Thursday 9th June - 9.00am - 4.30pm

Networking Drinks Reception

Wednesday 8th June - 4.30 – 5.30pm Join us for a free drinks reception in the networking area

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Scientific Committee



Anupam Giri, SABIC Chairman PEFTEC Conference, SABIC Lead Scientist, The Netherlands



Edo Johann Becker, Technical Consultant Germany Prof.



Senthil Kumar Kaliappan, Borouge Lead Researcher, UAE



Dr. Beate Gruber, BASF SELab Manager at Competence Center
Analytics, Germany



Dr. Melissa Dunkle, Dow Benelux BVCo-Chair PEFTEC Conference,
Research Scientist, The Netherlands



Ralf Zimmermann, University of Rostock Full Professor, Germany



Dr. Christopher P. Rüger, University of RostockJunior Research Group Leader,
Germany



Prof. Carlos Afonso, University of Rouen-Normandy Professor of Analytical Chemistry, France



Rod Robinson,
National Physical Laboratory
Chairman Industrial Methane
Measurement Conference, Principal
Research Scientist, United Kingdom
and Europe



Marcel van Engelen, Dow Benelux B.V. Technology Manager, The Netherlands



Dr. Anton Ginzburg, KU LeuvenAssistant Professor, Belgium



Dr. Pierre-Hugues Stefanuto, Liège University

Assistant Professor,
Belgium



Frank David, Research Institute for Chromatography (RIC) R & D Manager, Belgium



Pierre Giusti, TOTAL

Head of the Molecular

Characterization, France



Dr. Vincent Souchon, IFPLab Leader,
Chromatography, France



Geoff Chappell, SABIC Staff Scientist, United Kingdom

Conference ScheduleDay 1 - Wednesday 8th June 2022

View the Latest Conference Schedule here



TIME (CEST)	PRESENTATION	SPEAKER	
	SESSION 1: ANALYTICAL		
09:30	Keynote Letcture-GC×GC-TOFMS to support the transition from fossil-based to bio-based energy sources	Prof Jef Focant, University of Liege, Belgium	9
10:15	Screening of pyrolysis oils from plastic by GC×GC-PI-TOFMS and GC-VUV	Dr Eliane Lazzari, TotalEnergies, France	
10:35	Analysis of Jet, Diesel, and Light Cycle Oil Using Flow Modulated GCxGC - Column Choice, Flow Parameters, and Temperature Programmings Effects on the Separation of Different Molecular Classes	Dr Scott Hoy, Agilent Technologies, United Kingdom	
10:55	Finding needles in chemical haystacks: Chemometric workflows to streamline GCGC-TOF MS data analysis	Mr Carlos Gil, SepSolve Analytical, United Kingdom	
	Break (11:15 - 11:30)		
	SESSION 2: ANALYTICAL		
11:30	Review of two-dimensional liquid chromatography for advanced structure analysis in petrochemical research	Dr Matthias Pursch, DOW, Germany	
11:50	Speciation and Semi-quantification of Nitrogen-Containing Species in Complex Mixtures: Application to Plastic Pyrolysis Oil	Mrs Charlotte Mase, TotalEnergies, France	
12:10	Comparison of GC×GC-VUVFIDMS for the analysis of alternative fuels	Dr Max Jennerwein, ASG Analytik-Service AG, Germany	3
	Lunch Break (12:30 - 13:15)		
	SESSION 3: PAT		
13:15	Streamlining the Use of Chemometrics	Dr Brian Rohrback, Infometrix, United States	25
13:45	Turnkey Global Analytical Solutions for Gas and Liquid Analysis : A New Challenge for Instrumentation in the Energy Market	Mr Fabien Pedretti, CHROMATOTEC, France	9
14:05	Agilent InfinityLab Online LC Solutions	Mrs Danny van Oevelen, Agilent Technologies, Netherlands	0
14:25	Process Optimization using Verified Hydrocarbon Analysis	Mr Dan Wipinski, VUV Analytics, United States	9
	Break (14:45-15:15)		
	SESSION 4: PAT		
15:15	Multi-component tunable laser analyzers for real time process control in petrochemical industry	Dr Pawel Kluczynski, Airoptic, Poland	
15:35	Online Near Infrared analyser solutions for refinery measurements	Mr Hans Buytaert, Guided Wave, a Process Insights company, Belgium	1
15:55	Fast and reliable on-line analysis of oils in water by carbon detection cost-effective monitoring of water quality in the petrochemical sector	Mr Benjamin Mattejiet, Process Insights, Germany	- E
	16:15: Q&A FOLLOWED BY END OF DAY		





Seminar Schedule

Day 1 - Wednesday 8th June 2022

View the Latest Seminar Schedule here



ROOM 1	SEMINAR	PRESENTER
10:45-11:15	Reduce Methane emissions, including specified example projects	Mahjoub Mahlia, TP Europe
11:30-12:00	Refinery Fenceline Open Path Monitoring AB1647, Lessons Learned	Gilad Shpitzer, Atmosfir
12:30-1:00	New sensor platform brings TDLS principle to various portable CH4 applications	Martin Endras, Axetris AG
1:30-2:00	A Simple, Comprehensive and Reliable Method for the analysis of Saturate, Aromatic, Polyaromatic, and FAME content in Conventional, Renewable, and Synthetic Diesel Fuels using GC-VUV	Dan Wispinski, VUV Analytics
2:30-3:00	Analysis of LPG and other liquefied gases	Tom Gallant, ECH Elektrochemie Halle
3:30-4:00	Methane Guiding Principles Flaring Toolkit A new Resource for helping oil and gas operators reduce methane emissions from flaring	Peter Evans, BP
4:30-5:00	Integrated Measurement & Mitigation of Methane Flaring & Emissions	Greg Coleman, Future Energy Partners IMM

ROOM 2	SEMINAR	PRESENTER
10:00-10:30	Pre-assembled System GC solutions for fast and reliable analysis	Omar Mayorga, Shimadzu
11:00-11:30	Biodiesel Sulfur Test Method Comparison, Renewable Diesel vs. Biodiesel, and the Importance of Oxygen Correction for XRF	Leslie McHenry, XOS
12:00-12:30	2D GCMS Analysis of Chemical Contaminates in Bunker Marine Fuel Oil	James D. McCurry, Agilent Technologies
1:00-1:30	Fast and reliable methane quantification Aeromons hyperlocal and mobile real-time emission monitoring and analysis applications	Matti Irjala, Aeromon Oy
2:00-2:30	Challenges and solutions for trace sulfur analysis	Franz Kramp, Shimadzu
3:00-3:30	Monitoring Water Droplet Size and Concentration for Optimum Desalter Performance through the use of Dynamic Imaging Technology	Colin Dalton, JM Canty Intternational
4:00-4:30	Sensitive methane leak quantification using an active imaging approach	Max Bergau, Endress + Hauser







Conference ScheduleDay 2 - Thursday 9th June 2022

View the Latest Conference Schedule here



TIME (CEST)	PRESENTATION	SPEAKER			
	SESSION 5: ANALYTICAL				
09:30	Analysis of surfactants: A challenge for petroleum industry	Dr Didier Thiebaut, ESPCI, France			
09:50	GC-ICP-MSMS for the analysis of volatile organochlorides	Dr Vincent Souchon, IFPEN, France	6		
10:10	ASAP-HRMS: Petrochemicals and polymer analysis	Dr Anupam Giri, SABIC, Netherlands			
10:30	Advanced thermal analysis mass spectrometry in the context of petrochemicals and recycling	Dr Lukas Friederici, University of Rostock, Germany			
10:50	SFC-ESI-MS for the nontarget analysis of oxygenates in catalytic fast pyrolysis oils	Dr Josephine Lübeck, University of Copenhagen, Denmark	(6)		
11:10	HyperChrom GC: Extremely fast SimDist	Dr Peter Faust, HyperChrom, Germany	9		
	Break (11:30 - 11:45)				
	SESSION 6: ANALYTICAL				
11:45	Analysis of LPG and other liquefied gases	Mr Tom Gallant, ECH Elektrochemie Halle, United Kingdom			
12:05	Real-time sub-ppb level fenceline monitoring of non-criteria pollutants using photoacoustic spectroscopy	Dr Jaakko Lehtinen, Gasera Ltd, Finland	9		
12:25	Metals in Crude Oil and Residual Fuel by ASTM D8322 and Agilent 4210 MP-AES	Mr Andrew Brotherhood, Agilent Technologies, United Kingdom	6		
	Lunch Break (12:45 - 13:15)				
	SESSION 7: ANALYTICAL				
13:15	2D GCMS Analysis of Chemical Contaminates in Bunker Marine Fuel Oil	Dr James McCurry, Agilent Technologies, United States	00		
13:35	Overcoming the challenges associated with the analysis of sulphur and other VOC impurities in Hydrogen fuel	Mr Carlos Gil, SepSolve Analytical, United Kingdom			
13:55	Sensitive measurements of sulfur components in natural gas and diesel fuel	Dr Franz Kramp, Shimadzu Europa, Germany			
14:25	Why do you need to measure BTEX in ambient air?	Eugenio Indrigo, Pollution S.r.l., Italy			
14:35	Low Sulfur Analysis in Gasoline/Diesel Method Comparison	Mr Satbir Nayar, XOS, Netherlands			
14:55	Analysis of Recycled Plastics using the VUV Analyzer for Alternative Feedstocks	Mr Alex Hodgson, VUV Analytics, United States			





Day 2 - Thursday 9th June 2022

Break (15:15 - 15:30) **SESSION 8: PANEL DISCUSSION** Dr Melissa Dunkle, Research Scientist, DOW, Benelux User-Recycler-Industry-Legal on Plastic recycling Dr Jessica Jarman, Senior Manager, Analytical The Panel Discussion at this edition of PEFTEC is themed on Sustainability. Our guest speakers include Science Europe, Corporate Technology & Kristin Mohr from BASF, Jessica Jarman from SABIC, and Melissa Dunkle from Dow Benelux; they will 15:30 Innovation, SABIC, Netherlands present current sustainability initiatives, and we will discuss some of the issues they face. This Panel Discussion is aimed at both members of Industry as well as Academics, and our intention is to highlight Dr. Kristin Mohr, Head of Spectroscopy and the complexity and challenges faced on the long journey that is Sustainability. Analytics Mumbai - Competence Center Analytics, BASF, India **16:30: CLOSING PEFTEC**

Seminar Schedule Day 2 - Thursday 9th June 2022

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ROOM 1	SEMINAR	PRESENTER
10:00-10:30	Innovative Open-path Tunable Laser analyzer for Monitoring Hydrogen Sulfide Gas and Methane at the Fence Line	Pawel Kluczynski, Airoptic
10:45-11:15	Emission management software "Atlas" (Including methane measurment methode)	Stany Smets, TP Europe
11:30-12:00	Critical Monitoring of Chlorine	Cees Oudijn, XOS
12:30-1:00	Metering and emission analysis of flare and vent metering systems using Computational Fluid Dynamics	Lefki Germanou, TÜV SÜD National Engineering Laboratory
1:30-2:00	Measurements of Methane Emissions in the German Gas Distribution Grid	Charlotte Groe, DBI Gas- und Umwelttechnik
2:30-3:00	GASTRAQ: precise top-down quantification of methane emissions, exhaust efficiency measurements and leak detection using drones	Jamie McQuilkin, ReSource International

ROOM 2	SEMINAR	PRESENTER
10:00-10:30	Analysis of hydrocarbons with complementary spectroscopic methods	Johannes Hesper, Shimadzu
11:00-11:30	Sensitive measurements of sulfur components in natural gas and diesel fuel	Franz Kramp, Shimadzu
12:00-12:30	Noctua, compact single site Methane emission monitoring from space	Wencke van der Meulen, Airbus Netherlands
13:00-13:30	(Online) Analysis of ppm/ppb/ppt sulphur components in hydrogen	Laurens Looman, SCION Instruments
2:00-2:30	Optical Gas Imaging for Continuous Monitoring of Methane Emissions	Francisco Corts, SENSIA Solutions



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Scientific Committee

Conference Topics:

- Scientific understanding, regulation and policy;
- Industrial case studies and application of current capabilities;
- Demonstration and validation of novel technologies/techniques;
- Sensors, instruments and emerging technology; and
- Future capabilities and industrial needs

Conference Sponsored by





Rod Robinson, National Physical Laboratory

Principal Research Scientist

United Kingdom and Europe



Phil DeCola, Sigma Space Corporation Chief Science Officer, United States



Daniel Zavala-Araiza, Environmental Defense Fund Senior Scientist, Netherlands



David Lowry, Royal Holloway University of London Reader in Stable Isotopes and Greenhouse Gases, United Kingdom



Olivier Duclaux, Totalenergies Research Engineer, France



Tania Meixus Fernandez, Enagás International organisations, Spain



Jan Liebetrau, DBFZHead of Biochemical Conversion Department,
Germany



Thomas Röckmann, Utrecht University Professor, Netherlands



Peter Kornatz, DBFZ – Deutsches Biomasseforschungszentrum Head of Department, Germany



Day 1 - Wednesday 8th June 2022

View the Latest Conference Schedule here



TIME	TITLE	SPEAKER			
	09:00: REGISTRATION AND COFFEE				
09:20	Introduction to The Industrial Methane Measurement Conference	Rod Robinson, National Physical Laboratory, United Kingdom			
	SESSION 1: LET'S SET THE SCENE WITH A POLICY & DRI	VERS OVERVIEW			
09:30	Methane legislative proposals	Joana Simao Costa, European Commission			
09:45	OGMP/UNEP	Manfredi Caltagirone			
10:00	IMEO & global CH4 trends incl. methane pledge	Andris Piebalgs			
10:15	Top down talk	Anke Roiger			
	10:30: Q&A SESSION				
10:40	Coffee break				
	SESSION 2: CH4 INDUSTRY: METHODS & MEASU	REMENTS			
11:10	Drone-based Top-down and Bottom-up Reconciliation of Methane Emissions from an Offshore Gas Production Platform	Stefan Schwietzke, EDF, Germany			
11:25	Reconciliation between bottom-up and top-down methane emission measurements	Nigel Yarrow, NPL, United Kingdom			
11:40	GERG projects on site level methane emissions quantification and data reconciliation	Violeta Bescos, Enagas, Spain			
11:55	Methane Emissions and Flaring Efficiencies in the North Sea	Jacob Shaw, University of Manchester, United Kingdom			
	12:10: Q&A SESSION				
	12:20: Lunch & Poster Session				



THE 15TH INTERNATIONAL CONFERENCE ON MERCURY AS A GLOBAL POLLUTANT

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Day 1 - Wednesday 8th June 2022

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13:20	Multiscale methane measurements of a contiguous, onshore natural gas production region in Wyoming, USA	Howard Dieter, Jonah Energy LLC, United States		
13:35	CH4 emissions from oil and gas production in Romania	Thomas Röckmann, Utrecht University, Netherlands		
13:50	Multiscale measurements of methane emissions in North American oil and gas producing regions	Erin Tullos, Scientific Aviation - ChampionX, United States		
14:05	Methane emissions from global supply chains- quantification and assessment of national reporting	Jasmin Cooper, Sustainable Gas Institute, Imperial College London, United Kingdom		
	14:20: Q&A SESSION			
	14:30: Coffee break			
	SESSION 2 (CONTINUED): CH4 INDUSTRY: METHODS & I	MEASUREMENTS		
15:00	Scientific Field Studies of the International Methane Emissions Observatory IMEO	James France, EDF, United Kingdom		
15:15	Comparison of measurement-based quantification methods for methane emissions from the natural gas distribution network	Hossein Maazallahi, Utrecht University, Netherlands		
15:30	How much methane is released in the biomethane supply chain?	Semra Bakkaloglu, Imperial College London, United Kingdom		
15:45	Methane emission from the coal mine industry - metrology and cost aspects of MRV	Jaroslaw Necki, AGH, Poland		
	16:00: Q&A SESSION			



16:10: CLOSE & DRINKS RECEPTION/POSTERS



Day 2 - Thursday 9th June 2022

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TIME	TITLE	SPEAKER		
09:00: REGISTRATION AND COFFEE				
09:20	Summary of previous day	Rod Robinson, National Physical Laboratory	1	
	SESSION 2 (CONTINUED): CH4 INDUSTRY: METHODS & MEASU	JREMENTS (NEW GUIDELINE)		
09:30	How structured LDAR programs can reduce methane emissions to comply with regulations	Cindy Verhoeven, The Sniffers, Belgium	9	
09:45	A tale of two reconciliations: Recent experiences from conducting top-down methane measurement	Peter Evans, BP, United Kingdom		
10:00	Comparison of measurement-based quantification methods for methane emissions from the natural gas distribution network	Hossein Maazallahi, Utrecht University, The Netherlands		
10:15	Validating solutions for detecting and quantifying methane emissions under comparable protocols	Clay Bell, Colorado State University, United States	6	
	10:30: Q&A SESSION			
	10:40: Coffee break			
	SESSION 3: RESEARCH & EMERGING TECHN	IOLOGIES	I	
11:10	Architecture and Testing of Next-Generation High Flow Samplers	Daniel Zimmerle, Colorado State University, United States		
11:25	Industrial Deployment of Tunable Diode Lidar for Continuous, Autonomous Monitoring and Quantification of Methane Emissions	Doug Millington-Smith, QLM Tech Ltd, United Kingdom	8	
11:40	How to deploy a continuous monitor to detect methane emissions	Daniel Rueffer, Sensiron, Switzerland		
11:55	Development of predictive analytics for the measurement of methane from gas turbines	Jan Sandvig Nielsen, Weel Amp, Denmark		
	12:10: Q&A SESSION			
	12:20: Lunch break			

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Day 2 - Thursday 9th June 2022

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	SESSION 3 (CONTINUED): RESEARCH & EMERGING TECHNOLOGIES				
13:35	Validation and Uncertainty Assessment of an Airborne Miniature TDLAS System for Top-Down Methane Emission Quantification of Offshore Oil and Gas Facilities	Abigail Corbett, SeekOps, United States			
13:50	Benefits of simultaneous quantification of CH4 and CO2 fluxes based on in-situ measurement by drone (AUSEA): Applications to O&G industry (On Shore, Off Shore and Flare)	Ludovic Donnat, Total Energies, France			
14:05	A comprehensive summary of methane quantification using telops airborne hyperspectral instrument from Telops	Jean-Philippe Gagnon, Telops, Canada	0		
	14:20: Q&A SESSION				
	14:30: Coffee break				
	15:00: PANEL SESSION (CHAIR: ROD ROBINSON)				
TOPICS SPEAKERS		SPEAKERS			
15:00	1. Proposed EU regs 2. Flaring/Ems from war regions 3. H2 as an energy vector	Industry: Tania (Enagas - midstream) & Trond (Equinor - Upstream) - oil&gas & offshore NMI: Rod Robinson (NPL) Regulatory: Joana Simao Costa, European Commission All: Stephanie Saunier - Carbon Limits			
	16:00: WRAP UP AND CLOSE BY ROD ROBINSON				



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Posters

NO	TITLE	PRESENTER
1	The optimization of synthesis reaction of polyethylene glycol ester of oleic acid catalyzed by protic ionic liquid	Mrs Roshanak Adavodi, petro eksir asia, Iran, Islamic Republic of
2	A simple analytical method to characterize unsaturated hydrocarbons in complex waste PEPP pyrolysis oils using ATR FT-IR	Dr Sven Janssens, University of Antwerp, Belgium
3	Hydrogen impurity analysis with the Agilent 8890 GCPDHID system and Agilent 990 Micro GC platform	Mr Remko van loonL, Agilent Technologies, Netherlands
4	Recent advances in chemical fingerprinting of crude oil and petroleum products	Mr Ryan Sutherill, SepSolve Analytical, United Kingdom
5	Improved characterization of malodours from recycled plastics using TDGCGCTOF MS	Mr Carlos Gil, SepSolve Analytical, United Kingdom
6	Dedicated Chromatography Data System CDS for GC and MicroGC providing functions for automation and process application	Ms Pauline GUERIN, SRA Instruments, France
7	On-line measurement of the Biomethane energy, quality and odorization by one dedicated MicroGC	Ms Pauline GUERIN, SRA Instruments, France
8	Trace analysis in CO2 and Hydrogen matrix using a gas chromatograph and a pulsed discharge helium ionization detector - GC-PDHID	Ms Pauline GUERIN, SRA Instruments, France
9	Solid Lubrication in Machine Components for Dry Running Systems	Dr Raj Shah, Koehler Instrument Company, Inc., United States
10	Latest Advances in Lubricant and Grease Instrumentation for Oxidation Testing	Dr Raj Shah, Koehler Instrument Company, Inc., United States
11	Importance of Measuring Water Content in Greases	Dr Raj Shah, Koehler Instrument Company, Inc., United States
12	Recent Advances in Tribology Testing for Lubricants and Greases	Dr Raj Shah, Koehler Instrument Company, Inc., United States
13	Evaluation of the Flow Properties of Greases at Extreme Low Temperatures	Dr Raj Shah, Koehler Instrument Company, Inc., United States
14	Lab Test Methods for Lubes amp; Greases Used in EVs	Dr Raj Shah, Koehler Instrument Company, Inc., United States
15	Latest Technologies in Laboratory Corrosion Testing for Lubricants and Greases	Dr Raj Shah, Koehler Instrument Company, Inc., United States
16	Effects of Air Contamination on Machinery and Lubricants	Dr Raj Shah, Koehler Instrument Company, Inc., United States
17	Importance of Lubricant Performance Under Extreme Low Temperatures	Dr Raj Shah, Koehler Instrument Company, Inc., United States
18	Significance of Grease Water Resistance in the Determination of Lubrication for Industrial Machinery	Dr Raj Shah, Koehler Instrument Company, Inc., United States
19	Comprehensive Study of Capillary Viscosity amp; Recent Improvement in ASTM D445 Techniques for Petroleum amp; Petrochemical Products	Dr Raj Shah, Koehler Instrument Company, Inc., United States
20	Development of a Bench Scale Performance Test Method for Lubricating Oils to Evaluate the Wear and Extreme Pressure Properties of Lubes amp; Greases	Dr Raj Shah, Koehler Instrument Company, Inc., United States
21	A Deep Dive into Various Techniques for Flash Point Determination of Flammable Liquids	Dr Raj Shah, Koehler Instrument Company, Inc., United States
22	In-depth Study Related to Cloud and Pour Point Determination of a Variety of Petroleum Products	Dr Raj Shah, Koehler Instrument Company, Inc., United States
23	Standardized Determination of Tackiness of Grease Lubricants via Kesternich Method	Dr Raj Shah, Koehler Instrument Company, Inc., United States
24	Evaluation of Boiling Point Ranges for Petroleum Products Using an Innovative Vacuum Distillation System as per ASTM D1160	Dr Raj Shah, Koehler Instrument Company, Inc., United States
25	Using Automated Flocculation Titrimetry to Reduce Fouling from Heat-Induced Deposition and Coking	Dr Raj Shah, Koehler Instrument Company, Inc., United States
26	Advancements in Biofuel Production to Limit Carbon Dioxide Emissions	Dr Raj Shah, Koehler Instrument Company, Inc., United States
27	An Evaluation of the Bearing Failures in Electric Vehicles	Dr Raj Shah, Koehler Instrument Company, Inc., United States
28	Development of a Standard to Determine Tackiness of Greases	Dr Raj Shah, Koehler Instrument Company, Inc., United States
29	Advancements in Biofuel Production to Limit Carbon Dioxide Emissions	Dr Raj Shah, Koehler Instrument Company, Inc., United States
30	Comprehensive Study of Capillary Viscosity amp; Recent Improvement in ASTM D445 Techniques for Petroleum amp; Petrochemical Products	Dr Raj Shah, Koehler Instrument Company, Inc., United States
31	In-depth Study Related to Cloud and Pour Point Determination of a Variety of Petroleum Products	Dr Raj Shah, Koehler Instrument Company, Inc., United States
32	Study of the Development of Lab Tests to Determine H2O Resistance in Greases	Dr Raj Shah, Koehler Instrument Company, Inc., United States
33	Evaluation of Boiling Point Ranges for Petroleum Products Using an Innovative Vacuum Distillation System as per ASTM D1160	Dr Raj Shah, Koehler Instrument Company, Inc., United States
34	Development of a Bench Scale Performance Test Method for Lubricating Oils to Evaluate Wear and Extreme Pressure Properties for Lubes amp; Greases	Dr Raj Shah, Koehler Instrument Company, Inc., United States
35	Using Automated Flocculation Titrimetry to Reduce Fouling from Heat-Induced Deposition and Coking	Dr Raj Shah, Koehler Instrument Company, Inc., United States
36	The Importance of Lubricant Performance Under Extreme Low Temperatures	Dr Raj Shah, Koehler Instrument Company, Inc., United States
37	Reducing Salt Reduces Setbacks The Effects of Salt in Crude Oil Refinement	Dr Raj Shah, Koehler Instrument Company, Inc., United States





Floorplan







Exhibitors

ADLARES GmbH	C1
AD Systems	C6
Aeris Technologies	A5
Aeromon OY	A7
AGC Instruments	A11
Agilent Technologies Virtu	al Location
Airoptic Sp. z o.o.	A12
AirQIS	J6
Aly-Tech	F3 & F4
Analytik Jena GmbH	J11
Applied Rigaku Technologies	F1
Atmosfir	J7
Bruker AXS	F2
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Da Vinci Laboratory Solutions B.V.	F3 & F4
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VUV Analytics	H7
XOS	E3 & E4
Zematra BV	G3, G4, F5 & F6

View the Floorplan & Exhibitor List Here







4IR SOLUTIONS

Stand: D3

Or-Akiva, Israel

Tel: +97 246392266 Email: info@4irsolutions.com Web: www.4irsolutions.com

4IR Solutions Ltd. is an Israeli technological company providing continuous on-line measurements of physical properties and chemical composition in production process.

4IR's unique flagship product - the AI-60 Process NMR analyser and Lab NMR, where developed as part of Aspect Imaging Ltd. (MRI innovation company) from inception on 2014 and until the end of 2019, as of January 2020 the activity of the NMR analysers was spin-off and transferred from the mother company to its affiliate 4IR Solutions. As of today, the mother company is focused in the medical market with its MRI while 4IR is focused on Industrial process control.

4IR's revolutionary magnetic analyzer is unlocking new productivity, transforming traditional industries with real-time online data that was unmeasurable until today.

Its AI-60 Process NMR analyzer is exclusively capable to analyzes dark and opaque liquids thus significantly increase profit margins.

The i-Model SaaS software is transforming traditional multi-trillion legacy industries (chemical, petrochemical, energy) and improving profit margin dramatically by providing automatic modelling across all existing market's analyzers.

AD Systems Stand: C6

France

Tel: +33 231750268

Email: inform@adsystems-sa.com Web: www.adsystems-sa.com

AD Systems is known by its innovative instruments, developed by our engineers in response to specific needs within the petroleum industry for the evaluation of physical properties and performances of fuels and lubricants. We offer automated analyzers for testing corrosion and oxidation stability, combustion and distillation properties; fuels compatibility and cleanness, oil condition monitoring.

AD Systems is an active member of the American Society for Test and Materials (ASTM®) as well as other standardization institutions, like Energy Institute, ISO and BNPé. We work with governmental agencies and research departments of petroleum companies to develop prototypes and subsequently to manufacture various instruments and systems.

International network of authorized distributors provides local support to our customers worldwide.

Our commitment is to deliver high quality instrumentation, and prompt, friendly, attentive customer service and technical support.

ADLARES GmbH

Stand: C1

Teltow, Germany

Tel: +49 1638 132729 Email: ulbricht@adlares.com Web: www.adlares.com

Aeris Technologies

Stand: A5

Aeromon OY

Stand: A7

Helsinki, Finland

Tel: +35 8405744244 Email: info@aeromon.io Web: aeromon.io

We revolutionize the way airborne emissions are monitored and reported.

We provide situational awareness, visualised, realtime and actionable data to industrial companies and authorities.

Aeromon's services are used globally to verify and quantify emissions from industrial plants. Its modular UAV-assisted emission monitoring solutions have been proven to create value in complex and demanding environments e.g., the oil & gas, chemical, waste, maritime, pulp & paper, and mining industries.

AGC Instruments Stand: A11

Stanu. A i i

Shannon, Ireland **Tel: +35 361471632**

Email: sales@agc-instruments.com

Web: www.agc-instruments.com
AGC Instruments is a leading manufacturer of Gas
Analysis Solutions to all users requiring a Quality

Analysis Solutions to all users requiring a Quality Control or identification of their gas stream. With over 50 years of experience in providing our customers with their "Total Gas Analysis Solutions", we provide analytical solutions that meets their needs and a system that is easy to use and understand. At the centre of this is the wide range of Detectors and product platforms available which can be customised to measure unique gas streams. This is complimented by our worldwide reach with strategic partners which ensures that you have peace of mind and a complete after sales support service.

Agilent Technologies Stand: Virtual Location

Amstelveen, Netherlands

Tel: +31 205472000 Web: www.agilent.com

Agilent products and solutions are used throughout the energy and chemicals sector in the development, manufacturing, and quality control of refining, petrochemical, commodity chemicals, specialty and agrochemicals, and fine chemicals.

Chemical market customers use our products to determine chemical composition, perform impurity analysis, qualify raw materials, conduct materials characterization and verify and ensure operations and employees' environmental safety.

The natural gas and petroleum exploration and refining markets use our products to analyze crude oil composition, perform intermediate material analysis, verify and improve refining processes and ensure the overall quality of gasoline, fuels, lubricants, and other products.

For full details of how we will treat your information please view the www.agilent.com/home/privacy-policy

Agilent Technologies Inc. (NYSE: A) is a global leader in life sciences, diagnostics and applied chemical markets. Now in its 20th year as an independent company delivering insight and innovation toward improving the quality of life, Agilent instruments, software, services, solutions and people provide trusted answers to customers' most challenging questions. The company generated revenue of \$5.16 billion in fiscal 2019 and employs 16,300 people worldwide. Information about Agilent is available at www.agilent.com. To receive the latest Agilent news, subscribe at www.agilent.com/about/newsroom/subscribe.html

Follow Agilent on www.linkedin.com/showcase/ agilent-europe/, twitter.com/Agilent or www.facebook.com/Agilent.Tech

Airoptic Sp. z o.o. Stand: A12

Poznan, Poland

Tel: +48 616272128 Email: sales@airoptic.pl Web: www.airoptic.pl

Airoptic Sp. z o.o. is an ISO 9001:2015 certified company located in Poznan, Poland. Airoptic manufactures high performance tunable laser analyzers for industrial process control, emission monitoring as well as safety and security applications.

Airoptic provides in-situ, extractive and open path systems analyzer configurations which can be tailored to match specific customer needs.

Thanks to unique in-house sensing technology Airoptic has pioneered in-situ multi-gas detection technology utilizing multiple semiconductor lasers which allowed to overcome limitations of traditional single laser TDL systems.





AirQIS Stand: J6

Aly-Tech Stands: F3 & F4

Analytik Jena GmbH Stand: J11

Jena, Germany

Tel: +4936417770

Email: info@analytik-jena.com Web: www.analytik-jena.com

Analytik Jena is a leading provider of analytical measuring technology, instruments in the field of molecular biology, and liquid handling and lab automation technologies. The company is present for its customers in many industries, as well as over 100 countries.

Analytik Jena's analysis instruments are used whenever precision and reliability are required. Whether it is water analysis, environmental monitoring, health care, or quality control, the company's devices guarantee that strict standards have been maintained. Services, as well as device-specific consumables and disposables, such as plastic articles, complete the extensive range of products.

Analytik Jena was founded in 1990 and is today part of the Swiss Endress+Hauser Group. The company, which is headquartered in Jena (Germany), has around 1,000 employees. It generated sales of around 162 million euros in 2020.

Applied Rigaku Technologies Stand: F1

Austin, United States

Tel: +15122251796 Email: info@rigakuedxrf.com

Email: info@rigakuedxrf.com Web: www.RigakuEDXRF.com

Applied Rigaku Technologies, Inc., a division of Rigaku Corporation, engineers, manufactures, and distributes Rigaku EDXRF products worldwide. Located in Austin, TX, USA, ART specialises in EDXRF benchtop and on-line elemental analysers serving upstream and midstream for in-field use and downstream for refineries and commercial labs.

From the quantification of heavy elements in crude oil to sulphur in fuels to a variety of elements in lubricating oils, EDXRF is a well-established technique for the petroleum and petrochemical industries. With multi-element analysis capabilities,

Rigaku EDXRF products show versatility for many screening needs and meet compliance with various testing methods and standards.

Rigaku EDXRF benchtop systems include the compact NEX QC Series for routine quality control needs, the advanced NEX DE for more demanding applications, and the powerful NEX CG II indirect excitation analyser for complex applications and research.

For real-time process control needs, the NEX XT total sulphur process gauge and the NEX OL multi-element EDXRF process analyser are offered.

Atmosfir Stand: J7

Email: gilad@atmosfir.net

Atmosfir Optics is a Data & Software R&D, Integration company, providing advanced air monitoring services and solutions for Wise LDAR and Fence-line monitoring emission as well as safety and security applications worldwide.

Atmosfir is an ISO 17025:2017 certified company for air measurements EPA TO-16, EN 15483

Bruker AXS

Stand: F2

Karlsruhe, Germany

Tel: +49721509970

Email: info.baxs@bruker.com Web: www.bruker.com/xrf

Bruker has over 60 years of experience in developing and manufacturing analytical solutions you can rely on. Our X-Ray Fluorescence (XRF) elemental analysers are being used for various petrochemical applications like crude oil, naphtha, intermediates, including catalysts, and final products such as automotive fuels. Our portfolio includes compact EDXRF spectrometers with monochromatic, polarized, and direct excitation as well as WDXRF benchtop systems and fullpower floor standing instruments for demanding applications in central labs.

Meet our experts at booth # F2 and check out our S2 POLAR, a polarized, monochromatic EDXRF spectrometer.

Join our FIRST Newsletter Mailing List! Sign up and receive the latest product news, special promotions and more!

built to deliver unsurpassed operating life. With basic maintenance and upkeep, a user can expect CFR products to consistently withstand the demands of today's fuel testing environment.

With a strong focus on customer and market needs, CFR continues to develop product enhancements, automation capabilities, and accessories that are available on new CFR units and as an upgrade for currently installed CFR units. Visit us at booth F8 to learn about CFR engine XCPTM Technology, CFR engine CTS (Online) Technology, and the Ignition Quality Tester (IQTTM) system. You will also be able to discover how CFR's automation provides the measurement accuracy of digital instrumentation, ease-of use of computer guided operation, and the traceable accountability of data recording and reporting.

For 90+ years, CFR products continue to provide value and confidence in global Gasoline and Diesel fuel quality. The CFR F1/F2 for Octane Number adheres to ASTM D2669/D2700. The CFR F5 for Cetane Number adheres to ASTM D613. The IQT for Derived Cetane Number adheres to ASTM D6890. For more information, contact us as info@cfrengines.com or visit our website at www.cfrengines.com

Chromatotec

Stand: C2

Val de Virvée, France

Tel: +33557940622

Email: info@chromatotec.com Web: www.chromatotec.com

Independant family-owned French company, Chromatotec develops, manufactures and sales scientific instrumentation since 1986.

Exclusively designed and made in France, our online gas chromatographs for gas and liquid are aimed at industry and environment markets. They are used for a continuous monitoring of impurities at very low concentation levels. They allow the analysis of ambient air, industrial air control as well as natural gas, biogas and LPG monitoring.

Cannon Instrument Company Stand: G3

CFR Engines Inc

Stand: F8

United States

Tel: +12625015998

Email: info@cfrengines.com Web: www.cfrengines.com

CFR Engines Inc. (CFR™) is a leading global manufacturer of fuel rating test instruments and related equipment. Since 1928, CFR products have been manufactured in North America with advanced technology, robust design, and strict manufacturing processes to deliver fuel testing excellence and proven reliability. CFR systems and components are

Da Vinci Laboratory Solutions B.V.

Stands: F3 & F4

Netherlands

Tel: +31102581870

Email: marketing@davinci-ls.com Web: www.davinci-ls.com/en/

Da Vinci Laboratory Solutions (DVLS) was formed as a laboratory support provider in 2000. Today Da Vinci has become the versatile partner to laboratories in the global petrochemical industry.

Our team of experts develops, assembles and supplies chromatography and innovative solutions that are based upon the Agilent Technologies chromatography platform.

Our headquarters are located in Rotterdam, the Netherlands and offer an extensive application and test laboratory, a well equipped training room,





assembly facilities, an R&D office and a warehouse. Through a network of sales & support offices and our distributors we are able to supply & support our chromatography solutions on a global scale.

As a channel partner of Agilent Technologies Da Vinci offers solutions that comprise of:

- Systems for GC, LC & MS
- Software
- Service & Support
- Supplies

The chromatography systems are configured to comply with the standard test methods of ASTM, DIN, EN, GPA, IP, ISO and UOP. Each analyzer is tested according to the inhouse testing procedures to check the system performance and to verify the analyzer specification by a reference sample test. Factory Acceptance Test will be scheduled upon request.

Desu Systems BV Stand: A17

Bergschenhoek (Rotterdam), Netherlands

Tel: +31104610333

Email: rverkroost@desusystems.com Web: www.desusystems.com

Desu Systems BV provides Sensia Optical Gas Imaging camera's for (CH4) emission monitoring, gas detection, gas quantification, leak detection and flame detection. In addition we provide Spectrex flame detectors for hydrocarbon- and inorganic (H2) fires and open path gas detection for C1-C8 hydrocarbons, NH3, SO2 and H2S.

Ducom Instruments (Europe) B.V.

Stand: A10

Groningen, Netherlands

Tel: +31850657410 Email: info@ducom.com Web: ducom.com

Ducom Instruments is a global leader in the design and manufacturing of test instruments, analysis tools and software. From the start, Ducom's focus has been on designing and developing measurement instruments and software at the leading edge of technology. Ducom have a proud culture of pushing instrumentation technology to its limits, so they can bring you the best measurement and analysis devices on the market.

View the Floorplan & Exhibitor List Here



ECH Elektrochemie Halle

Stand: F7

Bedfordshire, United Kingdom

Tel: +441525404747

Email: info@echscientific.com

Web: www.ech.de

ECH Elektrochemie Halle GmbH is an independent enterprise founded in 1992 in Germany. We develop and produce analytical instruments for laboratory analytics, online monitoring, process technology and mobile on-site use. Besides standard products ECH also manufactures individual analytical solutions as well as customized control systems.

Our systems are used in petroleum exploration and production, petroleum refining, fuel analysis, used oils, power grid networks, water analysis, wastewater treatment, sewage plants, biogas production and chemical industry. ECH have a well established distribution network and service centres providing local support.

EcoChem Analytics and Messtechnik

Stand: D4

SALEM, GERMANY

Tel: +4975538274030 Email: info@ecochem.biz Web: www.ecochem.biz

EcoChem Analytics and Messtechnik ("EcoChem") is a premier provider of gas analyzers and Continuous Emissions Monitoring Systems (CEMS)

MC3 CEMS - Premier multicomponent CEMS for measuring low-level NOx, HCl, NH3, SO2, CO, CO2, H2O, CH4 and O2 all using one analyzer. Robust, compact system designed for accurate measurements and high availability. Panel-mount and standalone enclosure configurations.

CEMTRAC3 -- Data Acquisition System for regulatory compliance and process monitoring

HW5 HEATED PROBE – Unique probe designed for high reliability and easy maintenance.

PARTICLE MEASURING INSTRUMENTS -- Photoelectric Aerosol Sensor and Diffusion Charger for measuring carbonaceous aerosols and particle surface area.

Endress+Hauser Stand: J12

Naarden, The Netherlands

Tel: +31356958611

Email: marketing.nl@endress.com Web: www.nl.endress.com

Endress+Hauser is a global leader in measurement and automation technology for process and laboratory applications.

Endress+Hauser devices, solutions and services are at home in many industries. Customers thus use them to gain valuable knowledge from their applications. This enables them to improve their products, work economically and at the same time protect people and the environment.

Endress+Hauser is a reliable partner worldwide. Own sales companies in 50 countries as well as representatives in another 70 countries ensure competent support. Production facilities on four continents manufacture quickly and flexibly to the highest quality standards.

Eraly Stand: J8

FONTENAY LE FLEURY, FRANCE

Tel: +33177048097 Email: d.diallo@eraly.com Web: www.eraly.com

We design, develop, manufacture and sell a range of laboratory equipment for industrial, petrochemical, environmental and scientific applications.

According to many national and international standards, we provide a complete range of equipment for Sulfur, Nitrogen, Chlorine, and Carbon measurement in solids, liquids and gas samples. We manufacture also tubulars furnaces and equipments for extraction of the radionucleides (Tritium, 14Carbon....)

According, ASTM D5453, ASTM D6667, ASTM D4929, ASTM D4629, ASTM D2784.

ISO 20846, ISO 9562, ISO 4260, UOP 779, IP 243.

eralytics GmbH Stand: G3

Vienna, Austria

Tel: +43189050330 Email: office@eralytics.com Web: www.eralytics.com

The Austrian company eralytics develops and manufactures analyzers mainly for the petroleum and fragrance and flavor industries.

eralytics' fully automated, portable, and easy to operate analyzers are mainly used for highperformance quality control of fuels and lubricating oils. eralytics' instruments provide fast results with the highest precision and maximum reliability in the laboratory and on-site with mobile laboratories.

eralytics product range consists of Vapor Pressure Testers, Flash Point Testers, Oil-in-Water Testers, and Multi-Fuel and Used-Oil-Analyzers. The release of the FAME in jet fuel analyzer ERAJET FAME in 2019 was another great step to extending eralytics fuel analyzer family. In 2021 eralytics launched its NEXT ERA instrument platform of portable and easy-to-operate analyzers: The oil-in-water analyzer, ERACHECK X, and the high-precision density meter ERADENS X.

With a highly qualified team of nearly 30 employees and a very well trained international Service and Sales network eralytics has sold instruments in more than 100 countries worldwide. Due to the flat company structure eralytics is able to provide short delivery times and custom-tailored solutions to individual requirements.

Our customers are companies in the petroleum industry (from upstream to downstream), refineries, independent testing laboratories, shipping companies, and companies in the flavors and fragrances industry.





eralytics invests in research and development and the constant development of the instruments. eralytics is ISO 9001:2015 certified (DET NORSKE VERITAS). All instruments are CE compliant and fulfill the requirements of UL/CSA and RoHS.

F-DGSI

Stands: F3 & F4

Evry, France

Tel: +33164982100 Email: marketing@f-dgs.com Web: www.f-dgs.com

Established in 2006, F-DGSi is a French family-owned company, dynamic and innovative in the field of gas generators, as we have proven experience in design, manufacturing and technical assistance in gas generators for many years.

Our commitment is to provide your laboratory with a complete gas production solution that is reliable and durable for years.

At F-DGSi, we innovate, design and manufacture high performance gas generators. Our Headquarters is located near Paris (France), where all our products are designed and manufactured 100% in-house by our own Research & Development center. This ensures reliability on our products as we totally control our manufacturing protocols.

With the know-how of our French engineering teams, we provide laboratories around the world with a unique and efficient gas production solution (Hydrogen, Zero Air, Nitrogen) offering a safer, more convenient and cost effective alternative to cylinders. F-DGSi has a wide range of gas generators products and also related to your gas needs, to meet your complete needs of all your analytical instruments. Our high quality products, combined with French technology and design, provides you with absolute peace of mind and helps to reduce your operating costs, environmental impact and eliminates inconvenience of cylinder supply.

Gasera Ltd

Stand: J1

Turku, Finland

Tel: +4991140988788 Email: contact@gasera.fi Web: www.gasera.fi

Gasera manufactures and develops cutting edge measurement equipment for ultimate performance gas analysis. Main focus is in measuring harmful air pollutants in order to protect humans and the environment. Gasera analyzers are based on photoacoustic spectroscopy (PAS), either NDIR-PAS or Laser-PAS. By use of laser light sources our instruments allow sensitive and selective measurements of several components. Besides the proven GASERA ONE PULSE platform, GASERA offers laser based photoacoustic gas monitors for several components, including for example CH4, N2O, Formaldehyde, HF and others. Gasera Ltd. is located in Turku, Finland with offices in Helsinki Nürnberg, Germany (Sales Office).

ILM Exhibitions and Petro Industry News

Stands: C5 & B3

St Albans, United Kingdom

Web: www.ilmexhibitions.com

Our digital and live events offer the opportunity to engage with thought leaders and network with all industry stakeholders. Our technical programs keep you up to date with the latest trends, regulations, methods, techniques, and technologies.

We believe in providing a personalised experience for every customer. We know that your business is unique, so our team is always on hand at every step of the way to help achieve your goals.

The ILM exhibitions team have over 40 years' experience in running successful international events and are ready to help you unlock benefits from attending or exhibiting at an ILM Exhibition event.

Our digital and live events offer the opportunity to engage with thought leaders and network with all industry stakeholders. Our technical programs keep you up to date with the latest trends, regulations, methods, techniques, and technologies.

We believe in providing a personalised experience for every customer. We know that your business is unique, so our team is always on hand at every step of the way to help achieve your goals.

The ILM exhibitions team have over 40 years' experience in running successful international events and are ready to help you unlock benefits from attending or exhibiting at an ILM Exhibition event.

ILUDEST Destillationsanlagen GmbH

Stand: G3

Waldbüttelbrunn, Germany

Tel: +49931497090 Email: sales@iludest.de Web: www.iludest.de

ILUDEST® offers a wide range of Products for the Chemical Industry

Distillation and Extraction Systems Film Evaporator Systems Heat Transfer Systems Ab-/Desorption Units Reaction Units

Pilot Plant Units for Solid-Liquid Extraction. With our brand i-Fischer Engineering® we offer

Process Engineering Systems and Pilot Plants for the Petrochemical Industry:

- Fully or partly Computer Controlled Single or
- Combined Distillation Systems according to ASTM standards
- Pilot Plants for Simulating Refinery Towers
- Pilot Plants for Extracting Crude Oils with Light (Deasphalting) and Heavy Solvents
- Flash Equilibrium

Intero Integrity – The Sniffers

Rotterdam, The Netherlands

Tel: +32 14 31 88 88

Email: info@intero-integrity.com Web: www.the-sniffers.com

JAS GmbH

Stand: D5

Moers, Germany

Tel: +4928419871100

Email: Stefan_Kraemer@jas.de

Web: www.jas.de

JSB

Stand: 19

Lelystad, Netherlands

Tel: +310402514753 Email: info@go-jsb.com Web: www.go-jsb.com

Since 2002 JSB has been active on the European market and in the past twenty years JSB positioned itself as a full knowledge partner in chromatography and mass spectrometry solutions. Analytical instruments can be purchased in different places, but solid advice tailored to the needs of your laboratory or process environment is not readily available. However, you can call on JSB for both GC (MS) and LC (MS) techniques specifically for your field of application. We have a full range of custom-made solutions. We consider it our task to offer added value when it comes to instrumentation. These standard or custom-made solutions are often delivered including application. For sample preprocessing to full automation, JSB ensures a turnkey solution of several systems, together with the relevant application.

Koehler Instrument Company, Inc.

Stand: H1

Holtsville, United States

Tel: +16315893800

Email: info@koehlerinstrument.com Web: www.koehlerinstrument.com

KSC POLAND Sp. z o.o

Stand: B1





Leman Instruments Stand: G6

Valserhône, France

Email: info@leman-instruments.com Web: www.leman-instruments.com

At Leman Instruments we manufacture the best European Gas Generators.

In 2022 we are presenting our new patented technolgy of 5.0 Oxygen generators to supply most of Organic / Inorganic Spectroscopy system which use O2 as burner

We have many other classical generators such as H2, ZA, N2 and calibration systems.

Custom products available!

Liebherr-Mischtechnik GmbH Stand: A20

Bad Schussenried, Deutschland

Tel: +497583949807 Email: mt.Imt@liebherr.com Web: www.water-content-measurement.com

Hans Liebherr established the company that bears his name in 1949. Since then it has grown into a group of more than 140 companies on all continents, employing 49'611 people at the latest count. Today, Liebherr is not only among the world's largest manufacturers of construction machinery, but is an acknowledged supplier of technically advanced, user-oriented products and services in many other fields of activity as well. Since 1985 Liebherr develops, produces and distributes efficient moisture measurement systems for the industrial automation around the world

At the Liebherr factory in Bad Schussenried the sensors are produced and calibrated in an ESD-protected production line. Sensor development at Liebherr includes the total R&D value chain from the physical idea to the final solution, from the first concept to the finished product. The experience from the field of construction machines under extreme conditions guarantees a very high reliability and a long life time of the sensors.

Lumex Analytics GmbH Stand: B2

Wakendorf II, Germany

Tel: +494535297756 Email: sales@lumexinstruments.com Web: www.lumexinstruments.com

For almost 30 years Lumex Instruments manufactures, supplies and supports mercury analyzers with unique technical specifications. The instruments are based on Zeeman atomic absorption spectroscopy with high frequency modulation of background absorption, which eliminates the effect of potential interferences. This technology allows ultrasensitive highly selective real-time measurements without any need for chemicals, any carrier or zero gases for operation. Most of the samples are analyzed directly avoiding time-consuming and costly sample preparation and pre-concentration.

Metrohm Applikon

Stand: I1

Netherlands

Tel: +31102983577

Email: info@metrohm-applikon.com

Web: metrohm.com

Metrohm Applikon, headquartered in Schiedam, the Netherlands has been designing, manufacturing and distributing online analytical analyzers worldwide for nearly 45 years. Our industrial process analyzers are now known under the Metrohm Process Analytics brand name. Thousands of these reliable process analyzers perform online or atline analysis for process control with high precisions and uptimes, day in and day out.

Metrohm Process Analytics offers a wide range of analytical equipment which can be supplied with sample preconditioning systems as well as network software for local or remote data handling and analyzer control.

National Physical Laboratory Stand: A6

Teddington, United Kingdom

Tel: +447827991469 Web: www.npl.co.uk

Providing confidence in every aspect of environmental monitoring.

NPL are the National Measurement Laboratory for the UK and have 800 scientists and 400 laboratories across all science disciplines. Environmental monitoring expertise has been developed by NPL over many years and is a critical aspect of the support we deliver nationally and internationally. We ensure our customers are able to monitor gas emissions reliably and comply with evolving environmental regulations. Our high quality, cost-effective pollution monitoring and analysis services are delivered using unique environmental test facilities. We help industry, research organisations, environmental regulators, government and other measurement providers to evaluate instrument performance, demonstrate conformance with industry-standard protocols and validate instruments in the lab and the field.

Our emissions, ambient air sampling and analysis services are accredited to ISO 17025 and all our measurements are traceable to UK national standards, providing you with ultimate confidence in data and ensuring compliance with regulatory requirements.

Our expertise and innovation eliminates the need for specialist in-house resources and reduces our customers' technical risk. We deliver revenue, cost and time savings for complex technical challenges. Our unique combination of experts and equipment makes us one of the premier environmental measurement facilities in Europe.

Optimol Instruments Prüftechnik GmbH

Stand: F9

Munich, Germany

Tel: +49894509120

Email: info@optimol-instruments.de Web: optimol-instruments.de

Optimol Instruments Prüftechnik GmbH is the specialist in measuring friction and wear. For over 50 years, our name has been synonymous with innovative top quality tribological testing equipment worldwide. As a global technology leader with a strong practical orientation, we have created industry standards.

German Engineering - Made in Germany

Orbis Stands: D6 & E6

Dronten, The Netherlands

Tel: +310321382354 Email: sales@orbisbv.com Web: orbisbv.com

With Passion for innovative technology, we create and provide analytical solutions for the petro & chemical industry.

We have over 40 years of experience in the petro & chemical industry. Paul Bruggeman, the founder of Orbis BV in 1998, was the first person to develop automatic instruments for distillation, flash point and many other testing instruments for Walter Herzog in the early 1970s. At Orbis BV, we love what we do and do it with passion, always looking for ways to do it better. Our development department is our company's heart, its creativity. Method-knowledge and supreme development skills are the key factors for our success.

Besides the development and manufacturing of our own products, ORBIS BV also provides and supports instruments and products from the brands Tannas & King, TSHR and Rudolph Research Analytical and Paragon in the North Western Europe area.

View the Floorplan & Exhibitor List Here







Performance Distillation Solutions

Stand: G3

State College, United States

Tel: +18143085604 Email: info@pdspropak.com Web: www.pdspropak.com

Performance Distillation Solutions' proprietary Pro-Pak high efficiency distillation column packing is engineered and designed to meet a variety of industry needs and a range of applications from laboratory and pilot plant distillation, to those used in smaller manufacturing plants. Applications ranging from ASTM D2892 crude oil assays, ultra-purity isotopes, electronic chemicals/gases, fine chemicals, petrochemicals, solvent recovery, fragrances, flavorings, and botanicals. Packing is available in two different sizes in several different metal alloys including: 316L Stainless Steel, Alloy 304 Stainless Steel, Alloy 20, Alloy 110 Copper, Alloy 200 Nickel, Alloy 400 Monel, and Hasteloy C276.

Process Insights Stands: H6 & I8

Frankfurt am Main, Germany

Tel: +496920436910

Web: www.process-insights.com

Process Insights is an association of technology companies focused on innovative and differentiated solutions in the field of gas and water analytics. Our brands deliver leading solutions for the process control, automation, and research industries around used across a wide range of applications to ensure safe operation, increase product quality and to attain higher levels of efficiency. Our gas analyzers, safety and process sensors, water analyzers and other solutions used in these applications are missioncritical to reduce disruptions, downtime, and lost productivity, all while managing increasing regulatory complexity. With our brands are Tiger Optics, Extrel, Guided Wave, LAR Process Analysers, COSA Xentaur, Hygrocontrol, Alpha Omega Instruments, ATOM Instrument and MBW Calibration.

SCION Instruments

Stand: J10

Goes, Netherlands

Tel: +310113287600

Email: jorikdj@scioninstruments.com Web: www.scioninstruments.com

SCION Instruments designs, develops, supplies and supports GC, GC-MS, LC and Compass CDS (chromatography data system) product lines.

The company prides itself for manufacturing in Europe at facilities in Goes, The Netherlands with its headquarters based in Livingston, Scotland. SCION Instruments maintains a global infrastructure to support sales around the world. As well as providing support for SCION Instruments customers, there is also service and support available for users of legacy

SCION Instruments maintains a global infrastructure to support sales around the world. As well as providing support for SCION Instruments customers, there is also service and support available for users of legacy Varian systems.

Picarro Stand: A8

Santa Clara, United States

Tel: +1 (408) 962-3900 Email: info@picarro.com Web: www.picarro.com

Picarro has been the preferred analyzer for GHG research since 2005, and has grown to the mature ISO9001:2015 certified organization that serves industry customers worldwide with regional offices in the US, Switzerland, The Netherlands, Italy, South Korea and China. Our flagship technology allows cost-effective and ultra-precise measurements of various gases for Stack Testing, CEMS, Process, and Ambient Gas Measurements, without chromatographic separation or pre-concentration. Our analyzers allow detection at up to 10Hz, with lower limits in the ppb -ppt range. Thanks to the intrinsic quality of CRDS and patented wavelength monitor, our analyzers are straightforward to use with infrequent calibrations and no consumables. Picarro gas analyzers have proven to be cost-effective, versatile, and powerful analytical instruments for ambient air and source emissions testing. We offer remote support in all regions, with local support through our extensive network of full-service certified dealers. For more information, visit www.picarro.com.

Schauenburg Analytics Ltd. Stand: G1

Bridgend, UK

Tel: +4401443233920

Email: hello@schauenburganalytics.com Web: www.schauenburganalytics.com

Schauenburg Analytics Ltd comprises Markes International and SepSolve Analytical, manufacturers and suppliers of instrumentation, consumables, software and expertise that maximises every analysis for the detection of trace-level S/VOCs.

Jointly, the companies offer a wide range of technologies and supplies. From Markes, this includes thermal desorption for GC (UNITY-xr™ and TD100-xr™ instruments), sample preparation equipment (Centri® platform for headspace, SPME, TD and high-capacity sorptive extraction) and robotic autosamplers. This is complemented by SepSolve's GC×GC technology (INSIGHT® flow modulator), BenchTOF2™ time-of-flight mass spectrometers with Tandem Ionisation® (simultaneous hard- and softionisation technology), and powerful data mining and chemometric software packages (ChromSpace® and ChromCompare+).

Schauenburg Analytics will be on stand G1 at PEFTEC, to give insight into how Markes and SepSolve's combined expertise and systems enable analysts to discover more about their samples, and to deliver higher throughput for both research and routine applications.

Sensia Solutions

Stand: A17

Leganés, Spain

Tel: +34910559290

Email: contact@sensia-solutions.com Web: sensia-solutions.com

SENSIA is a market leader in infrared (IR) imaging technology. We deliver today the IR imaging solutions of the future.

Our mission is to contribute to the future challenges of the industries in terms of safety, environment, and operations, through cutting-edge Al-powered IR

SENSIA Redlook technology is the best-in-class solution for unattended monitoring for automatic detection of gas leaks, flame, intrusion, in-service components monitoring, etc.

Trust, reliability, and value creation are the foundations of our commitment to our customers

PID ANALYZERS LLC Stand: A14

Download the Swapcard App for full product listings

www.swapcard.com





Sensirion Stand: A16

Stäfa, Switzerland

Tel: +41443064000 Email: info@sensirion.com Web: www.sensirion.com

Omicro by Sensirion and Sensirion offer solutions for online gas composition analysis and accurate control of gas flow over a wide dynamic range.

The company has been a subsidiary of Sensirion since February 2021 and offers high-tech products and solutions for on-line gas composition analysis, enabled by microGC chip technology. Core applications of their analyzers include the determination of the calorific value of natural gas in distribution networks. They monitor the composition of gas mixtures used in industrial processes, and in the future environmental monitoring.

Omicro by Sensirion offers various product lines. The DynamiQ-X for example is a compact Ex certified process gas analyzer suitable for a range of natural gas applications including C6+ analysis, odorant monitoring and hydrogen/biogas injection control. The DynamiQ-S on the other hand is a compact and versatile microGC module that offers a versatile gas analysis platform that can be tailored and optimized for specific applications.

Sensirion is an expert in environmental and flow sensor solutions with headquarters in Switzerland and subsidiaries in the USA, Europe, China Taiwan, Japan and Korea.

Sensirion's SFC5500 mass flow controller series for example is based on the microthermal measurement principle and makes use of our proven CMOSens® MEMS Technology. This allowed us to build a mass flow controller with best-in-class performance and excellent reliability, which unlike most other devices on the market, does not drift and does not require inservice re-calibration.

Nubo Sphere on the other hand enables the continuous monitoring of assets to rapidly and reliably localize and quantify methane emissions. It combines high performance with a cost-efficient and robust design for maximum data quality and uptime.

Shimadzu Europa GmbH Stands: B5, B6, B7 & B8

Email: info@shimadzu.eu

Contributing to Society through Science and Technology Shimadzu is one of the leading manufacturers of analytical instrumentation and provides a broad range of analytical solutions for research and development, quality control and on-line monitoring.

Ever since its foundation in 1875 Shimadzu is in the service of science, ensuring precise, reliable diagnoses and analyses in petrochemistry and chemistry, pharmaceutical/health care, food or environmental

The product range cover liquid and gas chromatography, mass spectrometry, elemental and molecular spectroscopy, sum parameters (TOC) and physical testing.

Based on this techniques Shimadzu provides also specific analysers, for example System GC, tailored to fulfil the requirements of international standards for Natural Gas, Refinery Gas, Liquefied Petroleum Gas, moisture, sulphur traces and oxygenate analysis.

SilcoTek GmbH

Stand: B4

Germany

Tel: +4906172279718 Email: info@silcotekambh.de Web: silcotek.de

SilcoTek GmbH is a leading provider of high performance coatings applied by chemical vapor deposition, or CVD.

SK-Elektronik

Stand: G7

Germany

Tel: +49 2171-39550 Web: www.sk-elektronik.de

The SK-Elektronik GmbH is focused on the development and the production of instrumentation for the process analysis and the complete measurement data logging as well as the latest CEM systems for analytical technologies.

SRA Instruments Stand: E5

Marcy L'Etoille, France

Tel: +33478442947

Email: marcom@sra-instruments.com Web: www.srainstruments.com

SRA Instruments, Agilent Premier Solution Partner, locates in Italy and France, operates in the field of research and development of analytical solutions dedicated to the petrochemical, energy & chemical, environmental, materials and food sectors.

SRA manufactures analytical systems for the control of air, water, soil and odors using the best technologies available, thanks to international partnerships.

MicroGC solutions for on-line analysis of hydrogen, natural gas, biogas and biomethane and a dedicated Chromatography Data System (CDS) for GC and MicroGC providing functions for automation and process applications complete the portfolio.

Tanaka Scientific Ltd Stand: G3

Web: www.tanaka-sci.com/en/

Tanaka Scientific Limited has more than 100 years of experience in supplying robust, reliable, and user friendly testing equipment to the petroleum industry.

Tanaka's product range covers testing of volatility such as flash point, distillation, and vapor pressure; flow properties such as kinematic viscosity, pour/cloud point, and CFPP; elemental analysis such as sulphur content; and hydrocarbon analysis such as aniline point.

As a member of the ASTM D02 committee, ISO TC28 committee, and JIS, we are actively involved in the making and maintenance of standard test methods. Thus, our product design reflects the latest methods and technologies.

We continuously strive to maintain and improve on our "Made in Japan" quality and service.

Teledyne FLIR

Stand: J5

Belgium

Tel: +3236655142

Email: steve.beynon@teledyneflir.com Web: www.flir.com

We're building more than innovative technologies; we're striving to create a more sustainable, more efficient, and safer future by enhancing human perception through bestin-class intelligent imaging & sensing solutions.

Teledyne FLIR designs, develops, manufactures, markets, and distributes technologies that enhance perception and awareness. We bring innovative sensing solutions into daily life through our thermal imaging, visible-light imaging, video analytics, measurement and diagnostic, and advanced threat detection systems.

Teledyne FLIR offers a diversified portfolio that serves a number of applications in government & defense, industrial, and commercial markets. Our products help first responders and military personnel protect and save lives, promote efficiency within the trades, and innovate consumer-facing technologies. Teledyne FLIR strives to strengthen public safety and well-being, increase energy and time efficiency, and contribute to healthy and intelligent communities.

The Tintometer Ltd

Stand: G3

United Kingdom

Tel: +441980664800 Email: support@lovibond.uk Web: www.lovibond.com

The Lovibond® visual and automated colour measurement instruments (spectrophotometers for transmission and reflectance; colorimeters and colour comparators) are synonymous with accuracy in the analysis of liquids and solids including: edible, industrial & fuel oils, chemicals, pharmaceuticals, beverages & foodstuffs. The instruments and ISO17025 certified reference materials comply with international test methods and standards such as ASTM, DIN, AOCS and ISO.

TP Europe

Stand: 17

Dordrecht, The Netherlands

Tel: +31852733150

Email: sales@tpeurope-em.com Web: tpeurope-em.com

TP Europe is a worldwide operating expert in emission monitoring and emission management. Our certified employees detect and analyze all kinds of leaks in equipment and piping sources from industrial activities, using most advanced techniques and protocols. We are ISO 9001:2015 and SCC 2017/6.0 certified. Besides our headquarters in The Netherlands, we also have an office in Curação.

With the announcement of adopting a new "Methane Strategy", the European Union has made a strong, clear and explicit commitment to fight climate change and become climate neutral by 2050.





With a proposed cut of greenhouse gas emissions by at least 55% by 2030. This would also require up to 37% methane emission reductions by 2030.

These changes mean that legislative proposals on compulsory measurement, reporting and verification for all energy-related methane emissions are in the near future.

Such legislation will include an obligation to improve leak detection and repair (LDAR) of leaks on e.g. all fossil gas infrastructure.

Together we can use our knowledge to achieve the requirements according to OGMP 2.0 gold standard, combined with our strong Asset Integrety Management database ATLAS®.

Trace Elemental Instruments Stand: J9

Delft, The Netherlands

Tel: +31158795559

Email: sales@teinstruments.com Web: www.teinstruments.com

Trace Elemental Instruments B.V. designs, develops, manufactures, markets, sells and supports a range of laboratory equipment for industrial, petrochemical and environmental applications.

We offer a full range of combustion analyzers and accessories, dedicated to handling all sorts of samples according to ASTM methods and other international standards. Besides combustion analyzers, a variety of complementary sample introduction & pre-treatment systems are part of our offering. The highly innovated fifth-generation technology combustion analyzers set a new standard in the industry.

TSHR B.V. Stands: A15 & A18

The Netherlands

Tel: +31102457701

Email: sales.tshr@estanalytical.com Web: tshrbv.com

TSHR develops, manufactures and supports combustion elemental analyzers and can count on long time experience with legacy Thermo Euroglas and Thermo Scientific TN/TS/TX products. Our combustion analyzers help laboratories meet challenging industrial issues by providing reliable instrumentation to have high performance with accurate, and precise results and compliance with international standard methods at a low cost of ownership, high productivity and safe operation.

We are committed to deliver superior and local customer service worldwide with a network of over 40 distributors.

TSHR is part of EST Analytical (OH, USA) and we have over 200 years of combined experience.

TSHR, YOUR PARTNER IN COMBUSTION ELEMENTAL ANALYSIS

VICI AG

Stands: A18 & A19

Switzerland

Tel: +41419256200 Email: info@vici.com Web: www.vici.ch

VICI AG International is the leading source of top quality components for HPLC, UHPLC, LC, GC, FIA, SFE, SFC and Lab Safety. The Valco, Cheminert, Jour, Precision Sampling Metronics and DBS product lines include injectors, selection valves for low pressure, HPLC and UHPLC, valve actuators, polymeric and metal fittings, filters, polymeric tubing (PEEK, PTFE, ETFE, FEP, PFA), metal tubing (Stainless Steel, Titanium, Nickel, Hastelloy C), sample loops, syringes, tools, gas generators, liquid handling pumps, consumables and related products like GC capillary columns, gas purifiers, calibration gas standards and flow control devices.

VUV Analytics

Stand: H7

Cedar Park, United States

Tel: +15123330860

Email: info@vuvanalytics.com Web: www.vuvanalytics.com

VUV Analytics, Inc. products and solutions are used throughout the energy and chemical sector in the development, manufacturing, and quality control of refining, and petrochemicals.

Petrochemical customers use our products use our products to analyze chemical composition, perform impurity analysis, quality control of raw materials, and material characterization.

Refining customers use our products to analyze fuel composition, perform material analysis, verify and improve refining processes and to ensure the overall quality and certification of gasoline, jet fuel, diesel fuel, and other products.

VUV Analytics, Inc. is the global leader in Vacuum Ultraviolet detector technologies. At VUV Analytics our vision is to enable laboratory dependant organizations to See Science in a New Light by harnessing the power of the Vacuum Ultraviolet range of the elctromagnetic spectrum. Our innovative line of award winning spectrometers, detectors, and analyzers includes the VGA - 100, VGA - 101, along with our newest detector, the LUMA Multi-Channel Vacumm Ultraviolet detector. Our products and method deliver sensitive, universal, and scalable data analysis across a wide range of applications.

XOS

Stands: E3 & E4

East Greenbush, United States

Email: info@xos.com Web: www.xos.com

XOS is an innovator in elemental analysis solutions that help ensure product compliance and protect critical assets through the offering of application-specific X-ray fluorescence (XRF) instrumentation.

We offer a suite of benchtop and process analyzers suitable for a wide range of applications like crude oil, gasoline, NAPTHA, jet fuels, catalysts, water, aromatics, distillates, and more. These analyzers range from monochromatic wavelengh dispersive XRF (MWDXRF) to high definition XRF (HDXRF, HDXRF is a trademark for our ED-XRF Technology) systems that deliver direct measurement without the need for consumable gasses or sample conversion and have the ability to measure low and high sulfur as well as ultra-low chlorine.

Stop by our booth (E3/E4) to chat with a member of our team to learn more about our solutions.

To receive the latest XOS news make sure to subscribe to receive our emails and follow us on LinkedIn

Zematra BV

Stands: G3, G4, F5 & F6

Netherlands

Tel: +311646877770 Email: info@zematra.com Web: www.zematra.com

Zematra is an internationally well-known supplier and manufacturer of analytical/general laboratory equipment and consumables for the (petro)chemical industry, with offices in The Netherlands and the UK.

We have an exclusive partnership with the viscosity specialist Cannon Instrument Company for Europe (except Spain, Italy and France) and some CIS countries.

For a great part of Europe we are the exclusive partner of Tanaka Scientific Ltd (automatic petroleum test Equipment). In the Benelux we can also offer and service the products from companies like Eralytics GmbH, PCS instruments ltd., Julabo Labortechnik, Tintometer UK Ltd., ECH Scientific LTD, AD systems, Kyoto Electronics Manufacturing Ltd., Dott G. Scavini, and many others.

We have our own line of products (e.g. Automated Stability Analyzer) and Zematra is the specialist in effective solutions for monitoring the condition of fuels, lubricants and process fluids and sampling and gauging equipment. Service is our key and our team of service engineers is ready to assist you.

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