

KEYNOTE SPEAKER



Peter Wiwel

R&D Manager at Haldor Topsoe

Sustainable Aviation Fuel (SAF)

Peter Wiwel, R&D Manager at Haldor Topsoe

Abstract

Sustainable Aviation Fuel (SAF) is recognized as the most important solution currently available to the aviation industry as it looks to drive down its CO₂ emissions and lower its impact on the environment. SAF is presently the only sustainable alternative to conventional jet fuel but yet it currently provides just 0.1-0.15% of global jet fuel use.

Aviation is responsible for 8% of the transport sector's emissions, so there is no way the aviation industry can fly under the radar. Change is coming, and sustainable aviation fuels (SAF) will be in high demand. The demand for SAF is projected to be approx. 200 Mt in 2050 and long term expected to fully overtake fossil jet fuel.

Certification of SAF for commercial use in the aviation industry is tight and requires qualification in accordance with standards from ASTM (American Society for Testing and Materials) equal fossil jet fuel. Various Gas Chromatographic methods are key techniques in this qualification process to ensure safe blending with fossil-based kerosene into Jet A1 and used as jet fuel.

About Peter Wiwel

Peter Wiwel has been with Topsoe R&D for 38 years and currently manager for the Organic Analytical Department. Work has been focused on development of analytical method within the petrochemical area, contributing to Topsoe's deep knowledge on industrial catalytic hydrotreating processes, and to supply analytical assistance to Topsoe customers worldwide. In recent years the focus has been on transforming well established analytical methods into analysis of a wide range of renewable hydrocarbon resources in support of the transformation towards the green sustainable future.

Event Coordinator:

AmCham Denmark - Dag Hammarskjölds Allé 13 - 2100 Copenhagen Ø

ESAC 2024

Executive Seminars in Analytical Chemistry

Tuesday, May 7, 2024 - Scandic Copenhagen



AmCham Denmark's Analytical Instruments Committee is pleased to announce the 23rd annual Executive Seminars in Analytical Chemistry: ESAC 2024

ESAC brings together manufacturers, leading scientific researchers, progressive vendors and cutting-edge technology within the field of analytical instruments.

Experiences, methods, results and the latest developments will be presented within four core areas: Life Science / Biotech, Pharmaceutical, Food / Environmental and Clinical / Forensic applications.

ANALYTICAL INSTRUMENTS COMMITTEE COMPANIES



GUEST EXHIBITORS



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09:00 - 09:30	Registration & Coffee								
09:35 - 09:45	Introduction & welcome remarks by Stephen Brugger, AmCham Denmark								
09:45 - 10:15	KEYNOTE: "Sustainable Aviation Fuel (SAF)", Haldor Topsoe with R&D Manager, Peter Wiwel								

	Life Science / Biotech			Pharmaceutical			Applied Sciences		
	Title	Presented by	Technique	Title	Presented by	Technique	Title	Presented by	Technique
10:20 - 10:50	Improving the benefits of NPH-derivatization for metabolite analysis by combining it with trapped-ion mobility-mass spectrometry	Professor Thomas Moritz , NN Foundation CMBR, University of Copenhagen	LC-HRMS timsTOF	Implementation of online HPLC for real-time process monitoring of a bioreactor	Daniel Grenov , Product Manager & Jeppe Juul Rasmussen , Process Engineer - GEA	Online-LC	Automating Bioprocess Analysis – Product Quality and Process Attributes	Valeria Barratini , Waters UK	LC-MS

10:50 - 11:15	Coffee Break								
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11:15 - 11:45	Top-down approaches on the SelectSeries cIMS with ECD	Kim Haselmann , Novo Nordisk	LC-HRMS with cIMS	Targeted bioanalysis and microsampling	Manca Spendal , Novo Nordisk, Research Scientist, LC-MS Bioanalysis, Non-clinical & Clinical Assay Sciences	6500 LC-MS/MS	Trace gas analysis of liquid green ammonia – an energy and hydrogen carrier	Peter Wiwel , Chemical Engineer R&D Manager, Haldor Topsoe	Advanced multi-valve GC
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11:45 - 11:50	Change Break								
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11:50 - 12:20	Analytical chemistry as a tool for developing cell factories for chemical or protein production with impact on biosustainability	Linda Linnéa Ahonen , Head of Analytics, DTU Biosustain	6500+ LC-MS/MS	Neoantigen Identification: A Microfluidics-Assisted Workflow for Fine Needle Biopsies	Josehp Ndika , Valo Therapeutics	LC HRMS timsTOF Ultra	Micro SPE clean-up of cereals for pesticide residue analysis	Mette Erecius Poulsen , Senior Adviser Director of EURL, DTU	Micro-SPE prior GCMS and LCMS
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12:30 - 13:15	Lunch Break								
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13:15 - 13:55	Poster Pitch Session – 3min per poster								
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	Life Science / Biotech			Pharmaceutical			Applied Sciences		
	Title	Presented by	Technique	Title	Presented by	Technique	Title	Presented by	Technique
14:00 - 14:30	Taking advantage of switching valves for occupational exposure measurements of PAH metabolites and oxidative DNA damage	Simon Pelle Jensen , Laboratory technician, The National Research Center for Work Environment	Online SPE LC-MS-MS	What's in a peak? The powerful merger of automated LC fractionation and in-depth characterization by MS workflows in biopharmaceutical development.	Dan Bach Kristensen , Symphogen	Fraction collector and LC-HR MS-MS	PFAS in Drinking Water: Analysis, Regulations and Treatment Options	Lutz Ahrens, Professor , Swedish University of Agricultural Sciences (SLU)	6500+ LC-MS/MS

14:30 - 14:35	Change Break								
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14:35 - 15:05	Mass spectrometry in integrative structural biology: from epitopes to conformational dynamics	Simon Ekström , Project Manager BioMS Lunds University	LC-MS, HDX-MS, XL-MS, (CryoEM)	Light scattering not just molar mass – characterization of therapeutic peptides/ proteins	Per-Olof Wahlund , PhD, Specialist	Biophysics and Injectable Formulation 1	From Research to Reality: High Throughput Strategies for Micropollutant Detection in Wastewater	Kristoffer Kilpinen , Eurofins Miljø	LC-HRMS Q-TOF
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15:05 - 15:30	Coffee Break and Posters								
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15:30 - 17:30	Mixer / Wine Tasting + Best Poster Prize Drawing								
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