Lecture Programm LAB-SUPPLY Den Haag 2026

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Zeit, Raum	Referent*in, Firma, Titel, Abstract
09:30am- 11:30am **Room 1**	**Recent Advancements in Gentle Single-Cell Handling: The iotaSciences Way** Lucia Muraro, iotaSciences iotaSciences delivers efficient automation solutions for gentle single-cell handling through its proprietary GRID technology. Initially adopted worldwide for applications in iPSC handling and gene editing, recent developments have further highlighted our platforms' versatility across a broader range of single-cell workflows. These include organoid research, single-cell lipidomics, and stable recombinant protein production. Our presentation will showcase case studies and experimental outcomes demonstrating the impact of our technology on diverse research areas. Target Group: all those interested in single cell research, isogenic cell lines and cell line development Key-Topic: We want to introduce our unique miniaturized nanolitre-scale cell dispensing and culturing technology
09:30am-10:00am **Room 2**	**Glass in everyday laboratory work** Klaus Kirchfeld, DWK Life Sciences GmbH Key-Learnings: Workplace Safety
09:30am-10:00am **Room 3**	**AOF – Determine PFAS contamination quickly and efficiently with the right sample preparation** Wouter van Dijk, Analytik Jena GmbH+Co. KG The environmental impact of anthropogenic perfluoroalkyl and polyfluoroalkyl substances (PFAS) presents us with one of the most important analytical challenges of the 21st century. Due to their positive properties, PFAS compounds have found their way into many industrial processes and consumer goods. However, their chemical and biological stability means that they are not without problems for nature and the environment. The PFAS group of substances now comprises several thousand individual compounds. Although chromatographic methods make it possible to analyze each individual substance, this makes it difficult and very time-consuming to obtain a comprehensive picture of PFAS pollution. The sum parameter AOF (absorbable organic fluorine compounds) provides a remedy here. With appropriately effective sample preparation, it

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	is possible to evaluate the total contamination of a sample with PFAS compounds much more quickly. Target Group: all those interested in PFAS and its pollution detection possibilities Key-Learnings: PFAS detection using the sum parameter AOF
10:10am-10:40am **Room 1**	**Correct pipetteren: 10 stappen naar een pipetteerprofessional** Carlos Naipal, BRAND GMBH + CO KG Correct pipetteren wordt steeds belangrijker. Hoe kleiner het gepipetteerde volume, des te crucialer is de nauwkeurigheid. Ongeacht het volume zijn reproduceerbare waarden natuurlijk een voorwaarde voor betrouwbare resultaten. Mogelijk lijkt correct pipetteren banaal, omdat u er in het dagelijkse labowerk voortdurend mee te maken heeft. Tot nu toe volstond een regelmatig gekalibreerde en goed functionerende pipet voor u als basis. Bij het pipetteren met luchtverplaatsingspipetten spelen echter veel beïnvloedende factoren een belangrijke rol. In de dagelijkse praktijk is vaak niet eens bekend dat deze tot aanzienlijke voluminafwijkingen kunnen leiden. De lezing beantwoordt praktijkrelevante vragen, zoals: · Welke verschillende pipetteertechnieken zijn er en welke is het meest zinvol? · Waar moet op worden gelet bij de bediening en het vasthouden van de pipet? · Met welke maatregelen kan ik de nauwkeurigheid van mijn pipet behouden? Target group Deze lezing is bedoeld voor labtechnici, onderzoekers, procesoperators en studenten die regelmatig pipetteren. Topic: Correct pipetteren lijkt vanzelfsprekend, maar voor nauwkeurige en reproduceerbare resultaten heb je meer nodig dan alleen een goed functionerende pipet. Men moet rekening houden met de omgevingsfactoren en de fysieke eigenschappen van de vloeistof.

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10:10-10:50 **Room 2**	**Customized solutions for climate chambers and universal ovens** Steffen Demas, Memmert GmbH & Co. KG Our experts design the ideal solution for your application – entirely according to your wishes. This includes modifications and special accessories as well as complex high-tech solutions in areas like automation.
10:10am-10:40am **Room 3**	**Criteria for selecting ultra-low temperature freezers** Sven Seidel, Haier Biomedical B.V. Target Group: All users of ultra-low temperature freezers, but also everyone else in the laboratory Key-Learnings: The various criteria for selecting ultra-low temperature freezers are considered from different perspectives (energy efficiency, reliability, interior design, etc.).
10:50am-11:20am **Room 1**	**No Troubles With Bubbles®** Fritiof Pontén, dichrom GmbH Dissolved gases can affect any liquid-flow-based system by forming gas bubbles that interfere with pumps, channels, and detectors. Bubble formation may be triggered by solvent mixing, negative pressure transients, or temperature increases that lead to oversaturation. These effects have long been recognized and managed in HPLC systems. However, many related applications can significantly benefit in terms of performance and accuracy by addressing the dynamic behavior of dissolved gases. This presentation will share practical examples from a wide range of applications, covering both closed and open systems. The focus will be on in-line degassing solutions suitable for flow rates ranging from single microliters to several liters per minute. In addition, guidance on secondary aspects, such as appropriate tubing material selection, will be provided. Target Group: Advanced instrument users and designers of liquid systems Key-Topics: Key words: Degassing, bubbles, de-bubbling Degassing is important for all users working with liquid-based analytical or process systems where solvents are used, including chromatography, sample preparation, and industrial fluid handling. Removing dissolved gases and preventing

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	bubble formation ensures stable operation, accurate measurements, and consistent performance across laboratory, pilot, and production-scale applications.
10:50am-11:20am **Room 2**	**Extraction Systems in the Laboratory (from 30 ml to 5000 ml)** Francois Sinz, behr Labor-Technik GmbH Extraction comes from the Latin word extrahere (to pull out). It refers to a separation process in which one or more components are dissolved from a mixture using an extraction agent. The most well-known method for analyzing food and environmental samples is the Soxhlet method, developed by the German chemist Franz von Soxhlet at the end of the 19th century. The presentation provides an overview of the essential extraction methods for food and environmental analysis, ranging from volumes of 30 ml to 5000 ml, and from single devices to 8-position systems. It also includes key innovations for saving electrical energy and cooling water. Hot extraction systems according to Randall and Twisselmann will also be presented. Key-Topics: Water & Food Analytics
10:50am-11:20am **Room 3**	**Hazardous substances at the weighing workstation – Enclosure as a protective measure** Friedhelm Weichert, a1-envirosciences GmbH In laboratories, many tasks can release powdered hazardous substances, which can then be inhaled. Therefore, the safe handling of hazardous substances is becoming increasingly important for users, safety officers, and laboratory managers. A high risk of contamination exists, particularly during tasks such as weighing samples on precision or analytical balances, as substances are processed in their purest and most dangerous form. The use of micronized active ingredients, common in chemical and pharmaceutical laboratories, further increases this risk. To protect laboratory staff, technical protective measures are necessary. Weighing booths capture hazardous substances directly at the source and, according to the Hazardous Substances Ordinance (GefStoffV), are considered a primary

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	protective measure. They offer an effective way to prevent contamination and improve workplace safety in the laboratory. Target Group: Users & safety officers and laboratory managers Key-Topics: The presentation emphasizes the growing importance of safely handling powdered hazardous substances at the weighing workstation, as there is a high risk of exposure, particularly during weighing and when using micronized active ingredients. Weighing booths are highlighted as the most effective protective measure, as they capture hazardous substances directly at the source and thus increase workplace safety.
11:30am-12:00am **Room 1**	**The BRAND Liquid Handling Station – your easy entry into automated pipetting!** Benjamin Rienhardt, BRAND GMBH + CO KG Small pipetting robots, also known as benchtop liquid handling devices, already support many users' pipetting routines. Even in small and medium-sized laboratories, it is worthwhile to consider automation. With the Liquid Handling Station, BRAND presents a compact, easy-to-use and reliable system. With its intuitive to use hard-/ and software it can handle simple pipetting tasks up to complex pipetting patterns. • Who benefits from a small pipetting robot? • How does a pipetting robot make my work easier? • What improvements can I expect from a small pipetting robot? Target Group: All lab users who regularly pipette manually and are looking for quick and easy Key Topic: Easy entry into automated pipetting: Reasons to switch from manual to automated pipetting. Proper approach and key questions. automation.
11:30am-12:00am **Room 2**	**Audit-ready – Using laboratory instruments in compliance with GLP, GMP, and 21 CFR Part 11** Max Weihermüller, SCHMIDT + HAENSCH Whether in the pharmaceutical, chemical, or food industry, anyone working in a regulated environment must focus not only on precise measurement results but also on documented traceability. In this presentation, we show how polarimeters, refractometers, and density meters from SCHMIDT + HAENSCH can be used in compliance with GLP, GMP, and 21

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	CFR Part 11—and what needs to be considered beyond pure software functionalities. The focus is on calibration with traceable standards, transparent sample handling, customizable method guidance, and secure data connectivity. We provide practical tips on how to operate your measuring instruments in an audit-ready manner—for greater safety and efficiency in everyday laboratory work. Key-Topic: Polarimetrie Refraktometrie 21 CFR Part 11- Konformität Datenspeicherung
11:30am-12:00am **Room 3**	**Discover the power of automation and high-throughput sample analysis and purification!** Andreas Pechhold**,** Knauer Wissenschaftliche Geräte GmbH Automation and high throughput sample processing are key components in the effective use of laboratory equipment in liquid chromatography. With the right equipment, sample processing can be significantly accelerated in both analytical and preparative chromatography. In analytical chromatography, the use of an autosampler is the standard for achieving high sample throughput. However, autosamplers have their limitations when it comes to the analysis of several hundred samples at a time and more flexibility regarding the use of different wash solutions. The new KNAUER Liquid Handler LH 8.1L brings more automation and higher sample throughput to the lab. We present our latest system configuration for High Throughput Quality Control (HTQC). See how easy it is to automate purification tasks and simplify analytical method development with our KNAUER valves and check out our application examples. Key-Topics: HPLC/Chromatography
12:10pm-12:40pm **Room 1**	**Streamlining Lab Operations: A Digital Solution for Modern Science** Thom Weitenberg, SciSure (Bio-iTech B.V.) In modern science, efficient lab operations are key to accelerating research and driving innovation. This presentation explores the transformative impact of a Scientific Management Platform (SMP) in breaking down barriers in data management, collaboration, and workflow optimization. Discover how SciSure (formerly eLabNext) streamlines operations, enhances data integrity, and boosts research efficiency. See real- world

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	examples where digital tools have reduced administrative burdens and increased reproducibility. Join us to learn how a Scientific Management Platform can revolutionize your work, allowing you to focus more. Target Group: All those interested in laboratory digitalization. Key Learnings: how a Scientific Management Platform like SciSure (formerly eLabNext) can streamline lab operations, improve data integrity, and enhance research efficiency through digital workflow optimization.
12:10pm-12:40pm **Room 2**	**The "Art of Milling"** Hinke Dekter, Verder Scientific Benelux A reliable and accurate analysis can only be guaranteed by reproducible sample preparation. The "Art of Milling" describes the process of turning a laboratory sample into a representative part sample with homogeneous analytical fineness. For this task Verder offers a comprehensive range of the most modern laboratory mills and crushers for coarse, fine and ultra-fine size reduction of almost any material. The wide selection of grinding tools and accessories not only ensures contamination-free sample preparation but also adaptation to the specific requirements of such different areas of application as construction materials, metallurgy, foodstuffs, pharmaceuticals, environment etc. Particle size reduction of solids or bulk materials is required when the particles are too coarse or the sample is too inhomogeneous for subsequent processes such as analysis, division, mixing or further processing. The standard deviation of any subsequent analysis can be minimized drastically by particle size reduction and homogenization of the analysis sample. Target Group:_ All that need to grind/mill samples for further testing/analysis and want to learn more about the importance of good sample preperation. Key-Leranings: Learn more about the importance of good, reliable and reproducable sample preperation. Reliable sample preparation is crucial for reproducible results, forming the backbone of scientific research and quality control.
12:10pm-12:40pm **Room 3**	**Spoiled for choice – tips and advice on selecting the right (U)HPLC column** Dr. Pascal Dünkelmann, ISERA GmbH When working on a new chromatographic task, the first step is to select a suitable (U)HPLC column. Columns with different

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	stationary phases, particle sizes, pore sizes, lengths, inner diameters, and various other parameters are often considered. The selection of suitable column parameters depends not only on the analytes, but also on factors such as sample matrix, sample volume, equipment, and personal experience. This presentation will provide you with tips and assistance for selecting the right column parameters. Target group: This lecture is aimed at beginners and advanced learners who use liquid chromatography methods in their laboratory work. Key-Topics: Liquid Chromatography, Column Selection, Column Parameters
12:50- 01:20 **Room 1**	**Holistic Inert Workflow Solutions for Biopharma Applications** Katrien Sabbe, Agilent Technologies Nonspecific interactions of analytes with metal surfaces along the LC flowpath can lead to signal suppression, poor peakshape and reduced recovery. Agilent's powerful combination of bio-inert and bio-compatible Infinity III LC instruments with Altura Ultra Inert columns and inert LC supplies ensures optimum system performance for metal-sensitive biologically relevant molecules. We will demonstrate improvements in chromatographic resolution and analytical sensitivity across a range of analytes and conditions, and share insights on how to overcome hardware-related limitations and to accelerate method development. Target group: All HPLC users interested how to deal with analyte adsorption on metal surfaces and especially those who are developing biopharma workflows. Key-Topics: LC analysis of metal-sensitive analytes Biopharma workflows
12:50pm-01:20pm **Room 2**	**Smart Solution Preparation Meets Laboratory Pragmatism – Intelligent, Guided, Fully Documented** Dr. Elke Spahn, Gravitech GmbH Solution preparation is a daily laboratory task – and a major drain on skilled resources. The new alino®-formulation-module turns this routine into a guided, fully digital, and documented process. From automated batch calculation and step-by-step instructions to correction functions, complete data traceability, and instant

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	label printing with all safety information – everything is integrated in one smart workflow. Laboratory balances and devices can be connected flexibly; integration is handled seamlessly. Discover how intelligent laboratory software makes solution preparation faster, safer, and audit-ready – and why this new module is a key extension of the alino® platform. Target Group: all those interested in HPLC, LC, solution preparation, buffer, dilution, culture, growth and nutrient media Key-Topic: laboratory and data safety, troubleshooting while sample preparation, combination of stirring and weighing.
12:50pm-01:20pm **Room 3**	**Stirling, from Space to Lab** Igor Spierenburg, Sterling Ultracold From space systems to laboratory freezers: Discover how a 200-year-old engine is powering the science of tomorrow. Stirling Ultracold technology as a totally different technology used for Ultra low Temperature freezers in the current lab space Target group: Lab managers Life science specialists Cell en Gene therapy bionanking Pharmaceutical industry Biotech and Biomedical Key-Topic: Stirling Ultracold technology as a totally different technology used for Ultra low Temperature freezers in the current lab space. We removed the compressors, your welcome.
01:30pm-02:00pm **Room 1**	**Vacuum: The overlooked champion.** Pieter Heidema, VACUUBRAND GMBH + CO KG Vacuum is used in every chemical or pharmaceutical lab to accelerate processes and is often the overlooked champion of the lab. What exactly is a vacuum, what does it do for your lab processes, and what can you do to keep your vacuum systems in top condition? Target group: labtechnician, lab researchers, general lab users (pharma &chemical) Key Topics: vacuum in the lab and its basics tips and tricks

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01:30pm-02:00pm **Room 2**	**Cell-based and molecular assays** Duddy Oyib & Marloes van der Zwalm, Promega Benelux Promega's cell-based and molecular assays offer high-performance tools for life science research (including drug screening) and diagnostics. Our cell-based assays provide sensitive, reproducible measurements of basic indicators of cell health, such as cell proliferation, cell viability and cytotoxicity, as well as assays that determine the specific mechanism of cell death, such as apoptosis or necrosis. In molecular assays, we specialize in manual and automated nucleic acid purification to extract DNA or RNA from many different sample types, using column-based solutions, benchtop robots, liquid handlers for mid-throughput and chemistry that can be implemented on most High-Throughput Liquid Handling platforms. For downstream we have qPCR and RT-qPCR solutions for accurate quantification with optimized master mixes that can be used in gene expression, genotyping, pathogen detection etc. All assays are backed by scalable automation, proprietary technologies, and dedicated technical support for seamless lab integration. Target Group: For all scientists working with cells and nucleic acids. Key-Topic: cell-based assay and molecular assays
01:30pm-02:00pm **Room 3**	**Data where the discovery happens: Rethinking bench-side capture** Dr. Catharina Sänger, Apinilabs The promise of the digital lab often hits a wall at the bench. The hands-on flow of experimental work clashes with the rigid needs of digital systems. This talk explores the critical gap between data generation and data management, drawing on real-world observations from biology and chemistry labs. We will share key insights on the following topics: 1) How transferring data from physical materials and instruments into ELNs or spreadsheets often loses the real experimental story. 2) Why even the best desktop digital tools can fail, as they require scientists to stop their workflow, move to a computer, and "translate" bench-side observations into digital structures.

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	Target group: Anyone who deals with the real, practical challenges of digitizing the lab Key-Topic: Lab digitalization: The gap between data generation and data management.
02:10pm-02:40pm **Room 1**	**Overcoming Solvent Effects at High Injection Volumes in PFAS Analysis** Danny van Oevelen, Agilent Technologies The analysis of PFAS (per- and polyfluorinated alkyl substances) often requires sample preparation techniques like solid phase extraction (SPE), especially in case of drinking water analysis with low detection limit requirements. The final samples ready for LC/MS/MS analysis are therefore usually dissolved in 80-100% organic solvents. Additionally, recommended drinking water concentration limits are getting even lower, lately. Injecting high sample volumes could improve sensitivity and therefore allow lower detection limits but this is limited by undesirable solvent effects caused by the high elution strength of the sample solvent in case of common reversed phase liquid chromatography. Here we present how the use of feed injection as an alternative injection principle to the common flow through injection. Feed injection allows much higher injection volumes without negative impact on the peak shape, even when the sample is dissolved in 100% organic solvents. This is achieved by infusing the sample into the mobile phase stream with a special valve resulting in a dilution. The use of a novel C18 reversed phase column designed to be compatible with a 100% aqueous mobile phase helps to maximize the improvement. Target group: All those who are interested in LC, LC/MS/MS, PFAS and drinking water analysis. Key Topics: The focus is on an alternative LC injection principle to overcome solvent effects. Together with optimized consumables this results in high sensitive PFAS analysis.
02:10pm-02:40pm **Room 2**	**The Heritage of Plastic – Which Options Do We Have?** Jan-Hendrik Bebermeier, Eppendorf Group Sustainability becomes more and more important. Wherever the topic of sustainability emerges in the scientific community, there are many aspects to consider. Plastic-based laboratory consumables are mandatory for many steps in the lab: Purity, sterility, ease-of-use, the expectations of the user are high. But plastic provides a severe heritage: Limited oil resources and waste load.

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	Is plastic really that severe? What is the real carbon impact? Which alternatives like biobased material or recycling material are the right way to go? Discover the options for plastic & sustainability in the lab. Agenda: > Reduce waste in the lab > Biobased alternatives > Carbon Footprint > Recycling Target group: people responsible for sustainable laboratory processes Decision-makers in material selection and environmental strategies Key-Learnings: Participants gain practical insights and decision-making aids to help them
02:10pm-02:40pm **Room 3**	**MONITORING OF VOLUMETRIC TEST EQUIPMENT MADE OF GLASS** Alexander Gronner, Isolab GmbH Monitoring of test equipment in glass volumetric measuring devices involves labelling, regular calibration, documentation and accuracy checks to ensure reliable measurement results. This topic has been causing confusion and uncertainty in laboratories for years. This short presentation explains the calibration of volumetric measuring devices in a clear and practical manner. De controle van meetapparatuur bij glazen volumemeters omvat markering, regelmatige kalibratie, documentatie en verificatie van de nauwkeurigheid, met als doel betrouwbare meetresultaten te waarborgen. Dit onderwerp leidt al jarenlang tot verwarring en onzekerheid binnen laboratoria. In deze korte lezing wordt het proces van kalibratie van volumemeters op een duidelijke en praktijkgerichte manier toegelicht. Target group: all laboratory staff Key-Topics: How to calibrate volumetric measurment instruments after ISO and GMP
02:50pm-03:20pm **Room 1**	**Milling fundamentals - tips and tricks –** Marc Ruppenthal, Fritsch GmbH

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02:50pm-03:20pm **Room 2**	**Freeze Drying Made Practical** Sadjaad Samoedj, SALM EN KIPP