

MAY 14, 2025

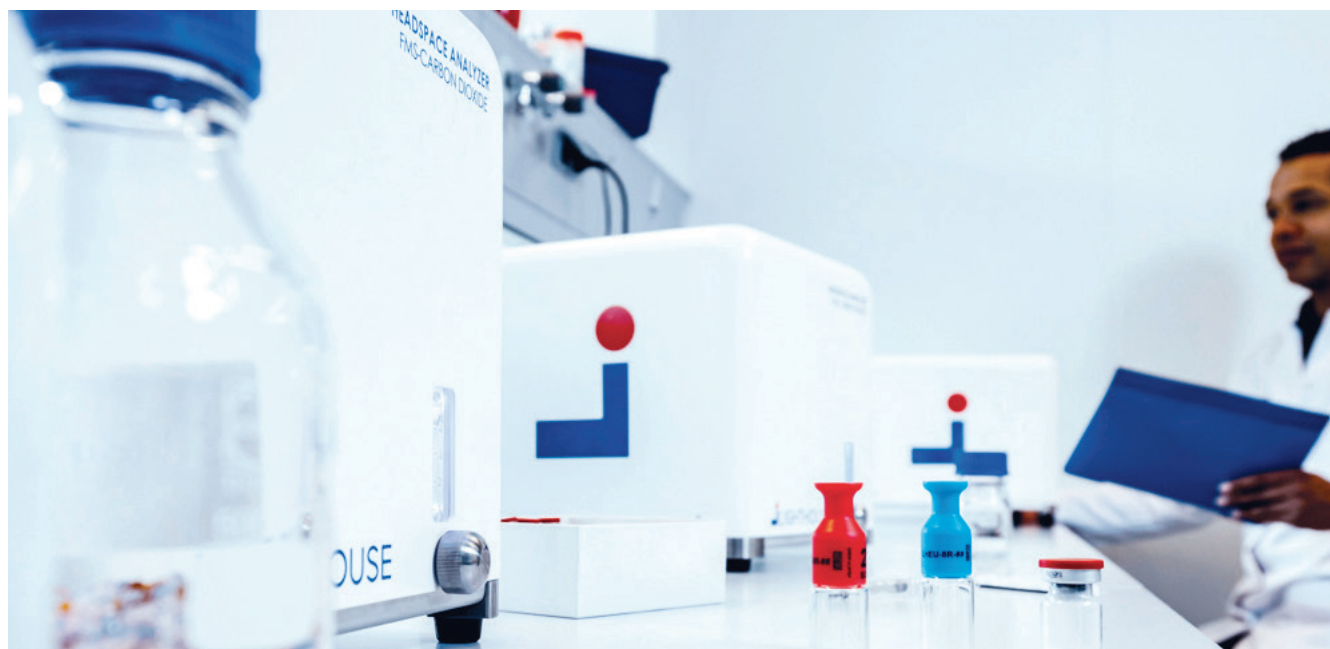
## Introduction to Headspace Analysis Workshop Dublin, Ireland



Hosted by Lighthouse Instruments

**Join us at one of our one-day seminars designed for pharmaceutical industry professionals.**

The session will cover topics such as container closure integrity, oxygen monitoring for oxygen-sensitive pharmaceuticals, media fill inspection, deep cold storage container closure integrity (CCI), and moisture analysis. Enhance your expertise in headspace analysis with practical insights and hands-on demonstrations.



Please click [here](#) for  
Registration via Eventbrite  
or use the QR code

## Introduction to Headspace Analysis Workshop

**Date:** May 14, 2025

**Time:** 09:30 - 16:00

**Location:** Dublin, Ireland to be announced

Sample Agenda*	
09:00–09:30	Registration and refreshments
09:30–09:45	Welcome and introduction
09:45–10:30	A practical road map for compliance to the Container Closure requirements in the new EUGMP Annex 1
10:30–10:45	Break
10:45–11:30	CCIT methods
11:30–12:15	CCIT Headspace Analysis hands-on session
12:15–13:00	Lunch
13:00–13:30	<ul style="list-style-type: none"> <li>• Oxygen Monitoring for Oxygen-Sensitive Products</li> <li>• Overview of oxygen headspace analysis</li> <li>• Nitrogen purge optimization case study</li> </ul>
13:30–14:15	<ul style="list-style-type: none"> <li>• Rapid non-destructive Moisture Analysis using Headspace</li> <li>• Overview of moisture analysis</li> <li>• Determining correlation to cake moisture for lyo product</li> <li>• Water activity measurements for oral solid dosage product</li> </ul>
14:15–14:30	Break
14:30–15:00	Headspace Demonstrations
15:00–15:30	Guest Speaker
15:30–15:45	Quiz with prize
15:45–16:00	Post-Workshop Survey

Certificate of attendance will be emailed to you within two weeks after the workshop.

\* The presentations may change slightly based on the feedback received from registrants.

## Speaker Biographies



### Dr. Derek Duncan

Derek Duncan began his career at the Dutch Institute for Atomic & Molecular Physics in Amsterdam. He moved into industry holding Product & Application Development positions. Currently at LIGHTHOUSE since 2003, Dr. Duncan is responsible for developing applications for process monitoring and finished product inspection. These include using headspace analysis for 100% container closure integrity testing, lyo chamber moisture mapping, and automated media fill inspection.



### Dr. Marnix Wieffer

At Lighthouse Instruments, Marnix Wieffer helps pharmaceutical customers with container closure integrity testing and oxygen analysis services using laser-based headspace analysis technology. Marnix has a solid background in science, business development as well as pharmaceutical project management. As an Analytical Services consultant, Marnix is mainly working in central and northern Europe, supporting customers making informed decisions with science-based packaging data.



### Mr. Avand Amedi, MSc

Avand Amedi is the Area Manager for Northern and Central Europe at Lighthouse Instruments, specialising in laser-based headspace analysis equipment. With expertise in applications like Container Closure Integrity Testing (CCIT), oxygen monitoring, and moisture determination, Avand provides tailored solutions for the pharmaceutical and biotech industries. He has a strong background in science-based consultative selling, ensuring clients receive optimal analytical solutions to meet their quality and compliance needs.