



*Dr. Andrew Boam*

Director New Business  
Development PuraMem  
Evonik UK Holdings Limited

## **Uses and applications of membrane technology in chemical production**

**This session will provide the attendees with an insight into the uses of membrane technology in chemical and pharmaceutical manufacturing processes. The first-half of the session will provide a broad overview of the different forms of membrane filtration, what separation types they are capable of performing, and examples of how they can be used in manufacturing chemical entities. The second-half of the session will focus on organic solvent nanofiltration (OSN), which is a membrane separation technique that has unique performance features relevant to the production of chemical entities. Examples of application development and process implementation from several chemical sectors will be provided for separation types relevant to chemical production – solvent recovery; solvent swap; impurity removal; precious metal removal; homogeneous catalyst recycling; etc. Particular attention will be placed on how OSN can be used as either a retrofit technology or essential component of a new process to enable new chemistries, enhance the sustainability of processes, and support process improvements.**