

Bioindustrial Manufacturing Scale-Up Capacity – A Workshop Follow-On Event December 2022

Tuesday, December 20th

Jim Philp, OECD. Jim [Philp] is currently a Policy Analyst at the OECD in Paris. His areas of interest are industrial biotechnology, synthetic biology and sustainability. He started his career in the microbiology of radioactive waste disposal and spent in total 8.5 years working for Saudi Aramco as an oilfield biotechnologist. He was an academic at Edinburgh Napier University for over 15 years, researching and teaching environmental biotechnologies such as bioremediation and bio-based production e.g. biosurfactants. He is a Fellow of the Royal Society of Chemistry (FRSC) and an Associate Fellow of the Institution of Chemical Engineers (AFIChemE). His first degree is in microbiology from the University of Edinburgh, with a Masters in Water Management from Edinburgh Napier University. For his PhD he studied microbial corrosion processes associated with the deep disposal of high level radioactive waste. He is the author of over 300 articles.

Deepti Tanjore, ABPDU. Deepti Tanjore is Director of the ABPDU and interfaces with several scientists from industry, academia, and start-ups that are each individually trying to resolve scale-up challenges for their synthetic biology-based technologies. Deepti's interests lie in articulating industry-wide issues and developing technologies that no single company is incentivized to pursue. Her research at ABPDU focuses on modeling the impact of bioprocess conditions on microbial heterogeneity and developing in-line analytical tools for real-time adaptation of process development in bioreactors. Deepti has a PhD in Biological Engineering from Pennsylvania State University and is currently enrolled for an MBA from University of California - Berkeley.

Dirk Carrez, Bio-based Industries Consortium. Dirk Carrez is the Executive Director of the Bio-based Industries Consortium (BIC). BIC brings together actors from different sectors and disciplines to establish a pan-European bio-based industry. As such, BIC represents the private sector in a public-private partnership (PPP) with the European Commission, the Circular Biobased Europe Joint Undertaking (CBE JU). BIC's mission is 'to connect industry, academia, regions and citizens to transform bio-based feedstocks into novel sustainable products and applications, and to create circular bioeconomy ecosystems through investments, innovation and know-how'.

Dirk is Bioengineer and holds a PhD in Agricultural Sciences. He has worked at SOLVAY in the research department, at the Belgian Federation for the Life Sciences and Chemical Industry as Director Innovation & Product Policy and as Secretary-general of the Belgian Biotechnology Industry Association, and has been Director Industrial Biotechnology at EuropaBio.

Dirk is also Vice-Chair of BIAC's (Business and Industry Advisory Committee to the OECD) Biotechnology Expert Group, a member of several European and national advisory bodies in the area of the biobased economy, and Doctor Honoris Causa of the University of Reims Champagne-Ardenne.

Adam Leman, Good Food Institute. Adam is a Lead Scientist, Fermentation at GFI and is focused on the development of biomass fermentation and precision fermentation biotechnology for food protein. He earned a B.S. in Molecular Genetics from the University of Rochester and a Ph.D. from Drexel University College of Medicine in Molecular Biology. Adam's postdoctoral studies concentrated on fungal genetics and systems biology. During his time in biotech, Adam implemented gene expression analyses in microbial, agtech, and human health studies to better characterize these systems and offer a deeper understanding for strain development and process improvement.

Alexandra Jaffe, Synonym. Alexandra (Alex) Jaffe is a Product Manager at Synonym. Synonym is a venture-backed startup that is accelerating the world's biological future by developing, financing and building commercial-scale biomanufacturing infrastructure. Synonym provides synthetic biology (synbio) producers – from startups to the Fortune 500 – with flexible production capacity while giving infrastructure investors access to a new, carbon-negative biomanufacturing asset class.

Synonym recently collaborated with the Good Food Institute, Blue Horizon and Material Innovation Initiative to develop Capacitor (www.capacitor.bio), the most comprehensive and free online database of microbial fermentation facilities worldwide. Companies that need fermentation capacity can now search Capacitor's growing list of 130+ facilities to find and connect with ones that meet their needs. Users can refine searches by criteria such as location, scale, bioprocess, feedstock and they can also browse facilities on an interactive map of the world.

Alex holds an MBA from Northwestern University's Kellogg School of Management and a bachelor's degree in Economics from the University of California, Berkeley. Prior to joining Synonym, she worked at Google for 7 years on several strategy and finance teams.