## Sustainable solutions that transform consumers' lives and experiences: Material Innovation: Designed Enzymatic Biomaterials Examples

## Christian Lenges International Flavors and Fragrances – Health & Biosciences 200 Powder Mill Road, E353 – Wilmington DE 19803 USA

International Flavors and Fragrances, established more than 130 years ago, is a leading creator, innovator and manufacturer for food, beverage, health & biosciences, scent and pharma solutions markets. This includes the development of cosmetic active and natural health ingredients, used in a wide variety of consumer products. IFF products are sold globally to manufacturers of dairy, meat, beverages, snacks, savory, sweet, baked goods and other foods. In addition, IFF is serving the specialty product markets in personal and home care such as soaps and detergents, cleaning products, perfumes and cosmetics. Emerging and growing categories such as dietary supplements, and functional foods as well as pharmaceutical and oral care products. Leveraging innovation across these market and product categories is driving sustainable growth and biotechnology takes center stage as enabling platform technology. Creating a better world at IFF means understanding how we can leverage our business, our performance and our partners to for people and planet. Overall, momentum is building for a transition to inherently more sustainable product and material choices manufactured in processes with reduced impact but without compromising product performance expected by consumers. This is driving the continued need for material and product innovation which is aligned with circular bioeconomy principles and is able to avoid undesired end-of-life material profiles such as microplastic accumulation.

This presentation will highlight the progress within IFF towards commercializing through biorefinery integrated biomanufacturing the Designed Enzymatic Biomaterial platform to enable sustainable material innovation with unique differentiated product performance across strategic IFF Health and Bioscience markets.