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# BIOPOLYMERS & BIOPLASTICS

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# POLYMER SCIENCE AND ENGINEERING CONFERENCES

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## A new era of biodegradable polymers and biocomposites

**Ari Rosling**

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In the recent years, bio-based and biodegradable products have raised great interest because sustainable development policies tend to expand with the growing concern for the environment and the use of non-renewable resources. Arctic Biomaterials LTD (ABM) is a company producing bio-based and/or biodegradable compound and composite solutions for demanding technical and medical applications. Our in-depth and specific biopolymer knowledge is offered to our customers to develop biomaterials to meet their needs. The bioerodible glass fiber reinforced materials produced with ABM's own technology, enables fulfilling customer needs in high demanding technical and medical applications, offer a sustainable alternative to several oil-based technical plastics. The composite materials are produced on our long-fiber-reinforced thermoplastic (LFT) line. This proprietary bioerodible long glass fiber compounding technology increases the ABM composite materials heat resistance and mechanical properties to new levels and opens a variety of possible application areas in fields where durable technical plastics are being used. Along with the sustainable aspects, processability and physicomechanical properties ABM also produces the aforementioned materials with additional specific high-value functionalities, e.g. antistatic, flame resistance, antimicrobial and colored products.

### Biography

Ari Rosling completed his PhD at the age of 35 years from Abo Akademi University (organic chemistry) after which he was appointed assistant professor at Department of Polymer Technology, responsible for the development of biomaterial research. At present he acts as Senior Research Fellow at Arctic Biomaterials, being in charge of the R&D activities at the technical site. He has published more than 42 papers and patents in reputed journals and led numerous joint research projects with industrial partners.

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