

WEBINAR September 16th 9:00

Biomass and Recycled materials contributing to CO² reduction Japanese Examples of Innovation

All speakers are Japanese from Headquarters and the speech will be in English.

MITSUBISHI CHEMICAL CORPORATION | *Masahide KONDO – Senior Manager - MMA Global Technology Division*

We define MMA monomers manufactured by the following three methods as "Sustainable MMA" and are working on the development of its manufacturing technology.

1. Molecular recycling that collects, decomposes and reuses used acrylic resin
2. New manufacturing technology that applies plant-derived raw materials to the existing MMA monomer manufacturing process
3. New manufacturing technology to directly manufacture MMA monomers from plant-derived raw materials by fermentation

Promising results using method No. 2 have prompted us to begin the design process for a new pilot plant.

AC BIODE | *Takashi KUBO - CEO*

AC Biode, based in Luxembourg and Japan, is a cleantech startup with expertise in chemistry and material science. AC Biode has three different technologies on batteries, ash upcycling into adsorbent, and plastic chemical recycling, developing chemical catalysts to depolymerize PE, PET, and more.

SUMITOMO CHEMICAL | *Takao WAKE - Business Development Team MMA Division*

With Japan Steel Works, established a unique basic technology using a twin-screw extruder "TEX" suitable for decomposing acrylic resin, that allows generation of recycled MMA monomer (project starting in autumn 2022, samples available in 2023).

Compared to virgin materials made from fossil resources, the basic properties of acrylic resin produced by polymerization of recycled MMA monomer obtained by this technology are almost the same, such as transparency and strength, and it is expected to reduce greenhouse gas emissions by more than 60% over the entire product life cycle.

DAICEL CORPORATION | *Akihiko KAWAKAMI - Material SBU Acetyl BU Cellulose Marketing Manager*

DAICEL "CELBLEN EC" is Non-edible Biomass & Marine Biodegradable resin. CELBLEN EC is made from cellulose, acetic acid and plasticizer mainly. There are unique features, transparency, antibacterial, material recyclable.

UNITIKA | *Yumi IKEDA - Sales department*

Unitika suggests environmentally friendly materials from 3 aspects: bio-based, recycled, and reduced. From among the many, we will introduce polyamides that contributes to the environment by emitting less carbon dioxide; Bio-based PPA (XecoT), chemical recycled PA6, and metallic molded in color PA6 (NANOCON).

TBM Co., Ltd. | *Emma RAN - Sales department*

LIMEX, a new material mainly made from limestone with polyolefin as binder, to be paper and plastic alternatives.

LIMEX pellets can be converted to LIMEX products with existing plastic molding machines.

LIMEX sheets can be printed with existing printing machines, and water resistance.

LIMEX is material recyclable.