

# Advanced Polymerik licenses two CRC-P technologies



Dr Mark York (CSIRO), demonstrating the use of the new flow reactor.

Researchers in the CRC-P have developed two technologies that have recently been licensed to Advanced Polymerik. The first is a technology for modifying photochromic dyes with polymers to improve their properties and performance in spectacle lenses, developed by a team at CSIRO led by Dr Richard Evans.

The second involves the use of new flow chemistry technology for the synthesis of photochromic dyes. Again, working with CSIRO

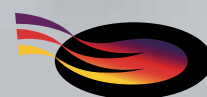
Materials Science and Engineering, who are building an Australian research capability in the field of flow chemistry, Advanced Polymerik has undertaken a pilot project to assess the benefits of this technology. The project, which also received grant funding from the Plastics and Chemicals Industries Association under the PACIA-EPA Rewards Program, demonstrated a 90% reduction in the volume of waste generated, including the complete removal of chlorinated waste.



Members of the team that developed the CRC-P technologies licensed to Advanced Polymerik (from left): Dr Nino Malic, Ms Kirsty Cleland, Dr Richard Evans and Dr Mark York.

The technology also has potential to significantly reduce energy usage, with reactions which have to be performed cryogenically in batch processing being performed successfully at room temperature. Work is currently being conducted to calculate the energy savings achieved in the project.

Advanced Polymerik is a spin-off company from the CRC for Polymers and a current participant in the CRC. Its research in the CRC-P has involved collaborations with both Swinburne University of Technology and CSIRO Materials Science and Engineering. Kirsty Cleland, the CEO of Advanced Polymerik notes, "Our collaboration with the CRC for Polymers has allowed us to build on our existing technologies, and to expand into new areas, such as the opportunity to be part of the exciting new advances being made in flow chemistry."



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