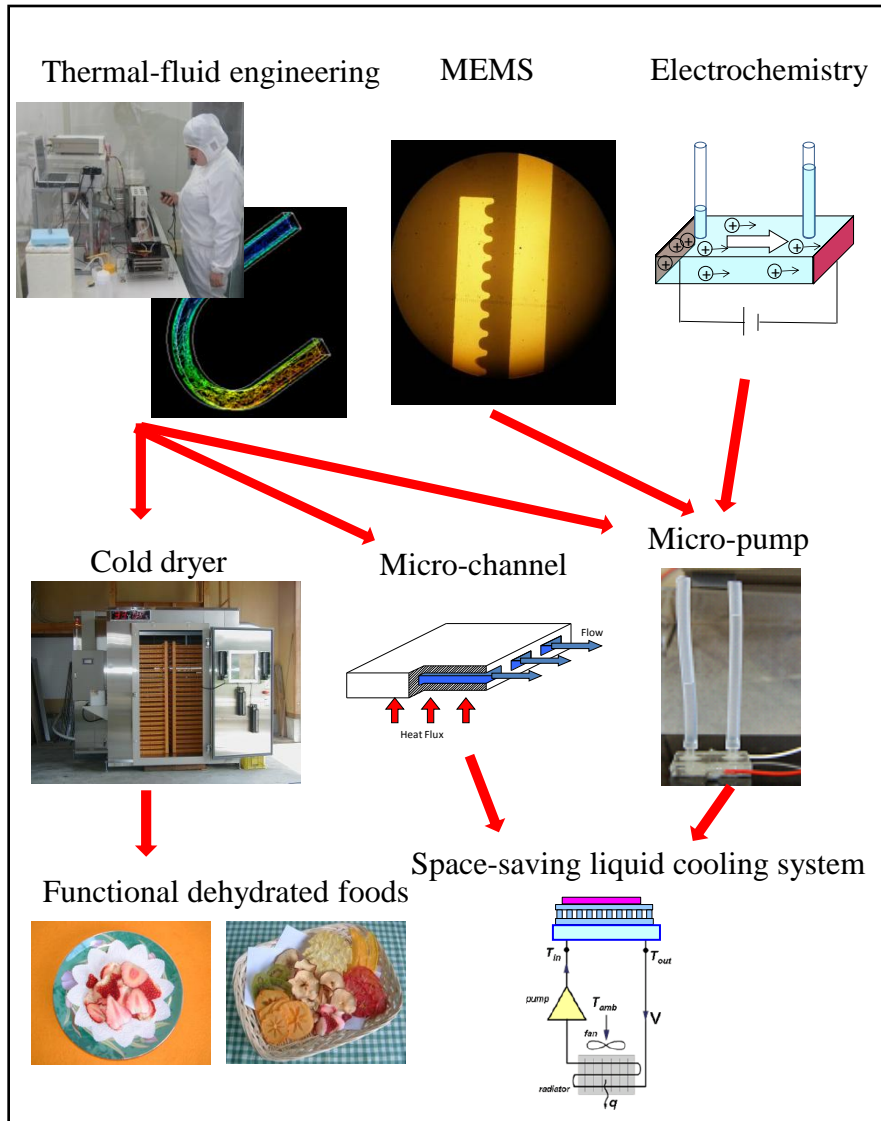


Study of Cooling and Drying Techniques

Associate Professor Ichiro Kano



Content:

Space saving liquid cooling systems for cooling heated electric devices and cold dryers for dehydrating foods are developed with a fundamental technology based on thermal-liquid engineering.

Especially, the latest technology is studied and this technology is applied to devices and equipments which are component parts of the cooling systems, the cold dryers and so on. For example, there are micro-pumps without movable parts, high performance heat exchangers using boiling heat transfer.

Realizing the new equipments with the latest technology, an academic field of thermal-fluid engineering is expanded into MEMS (Micro Electro Mechanical Systems) and Electrochemistry.

The space saving high performance heat exchanger is expected to cool laser diodes, CPU and other heating electrical devices. The cold dryer for dehydrating foods is now ready for practical usage.

Yamagata University Graduate School of Science and Engineering
Research Interest : Thermal-fluid engineering

E-mail : kano@yz.yamagata-u.ac.jp

Tel : +81-238-26-3226

Fax : +81-238-26-3226

HP : http://kano_lab.yz.yamagata-u.ac.jp/

