

Future-Oriented Injection Molding Technologies

[Development of Unexplored Research Areas in Injection Molding Technologies]

Social Cooperate Program

Polymer Process Phenomena Engineering

<http://www.snom.iis.u-tokyo.ac.jp/>

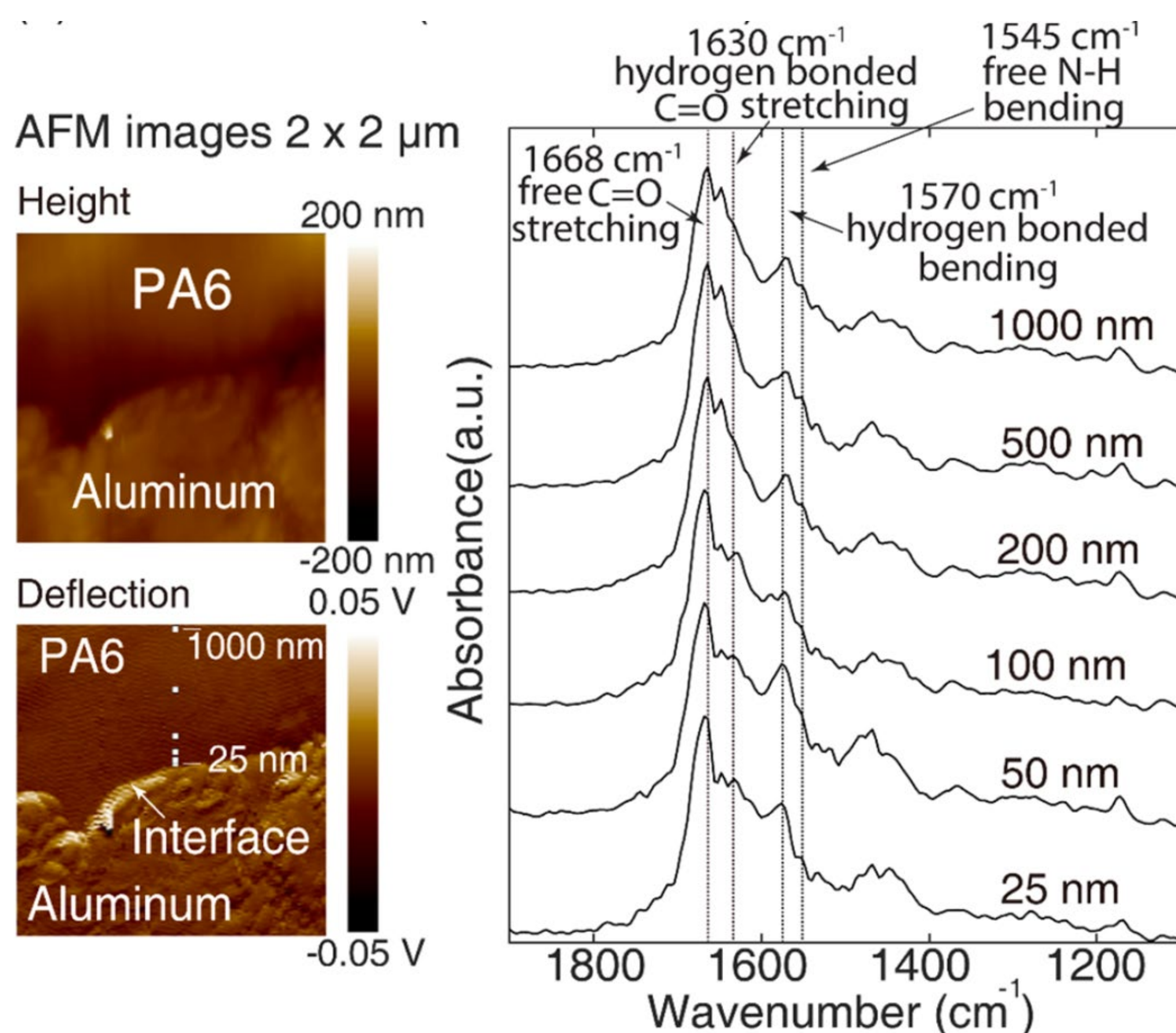
Development of Future Injection Molding Technologies

In injection molding, a major polymer processing technology, the emergence of new hard-to-mold/-control materials such as long carbon fiber-reinforced resins and in-mold multiple processes such as molding and joining are making molding phenomena so complicated that original molding material characteristics are difficult to realize. This program aims to focus on unexplored technological/academic research areas that would lead to the development of future injection molding technologies for resolving these issues.

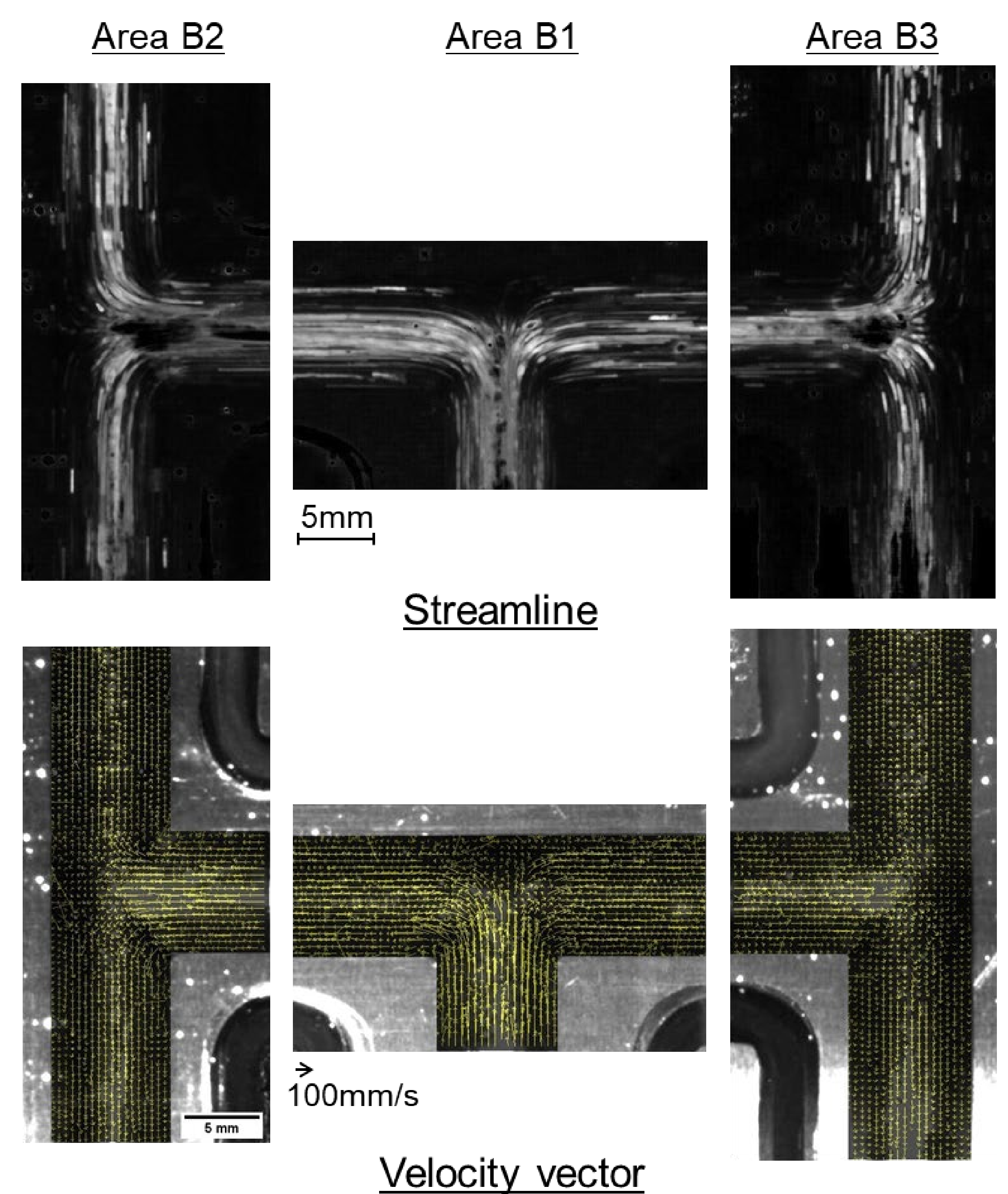
Companies: Shibaura Machine Co., Ltd., Sumitomo Heavy Industries, Ltd., DENSO Corporation, Toyo Machinery & Metal Co., Ltd., Nifco Inc., NSK Ltd., FANUC Corporation

Period of activity: April 2018 – March 2023

Members: KAJIHARA Yusuke, TATSUNO Michihiro



Hydrogen Bonding Spectra at the Interface of Al/PA6 Molding Joint



Visualization Analysis of Flow Phenomena at Split Portion in Hot-Runner Manifold