

**IPRIME Previous Industrial Fellows**

<b>Company</b>	<b>Name</b>	<b>Research</b>	<b>Faculty</b>	<b>Year</b>
Toray	Yu Abe	An Analysis of the Drying State in Multi-layer Coating	Francis Cheng	2015
Medtronic	Carl Schu	Ion Sensor applications to new products	Stein	2015
Upsher-Smith	Xiao Yu	Sustained release coating systems	Sury	2015
Boston Scientific	Ed Kopesky	Characterizing the Semi-Crystalline Morphology and Thermomechanical Properties of Biaxially Oriented Poly(L-Lactide)	Macosko	2015
Cabot	Limeng Chen	Investigation of the destruction and recovery of conductive particle network in polycarbonate under shear deformation	Macosko	2015
Nitto	Koki Tomioka	Numerical simulation of viscoelastic flows in a film forming process	Kumar	2014
Valspar	Keith Kirkwood	Film Formation and Stress Development	Francis	2014
Cabot	Arthur Scholz	Development of AFM techniques for studying interactions between polymers and nanoparticles	Haugstad	2014
Toray	Yu Abe	An Analysis of the Drying State in Multi-layer Coating	Francis	2014
Upsher-Smith	Dave DeGrio	Evaluation of 3D Printing for the Pharmaceutical Industry	Francis	2014
INOAC	Yoshihasi Takamori	Controlling the morphology of cocontinuous porous polymer sheets	Macosko	2014
Ecolab	David Castro	Microrheology to explore polymer structural effects on viscosity development	Francis	2014
Covidien	Peter Barnett	Drug Morphology Characterization on a Medical Device	Wormuth Haugstad	2014
Boston Scientific	John Chen	PLLA material morphology, process characterizations and investigations	Macosko	2014
Nitto	Koki Tomioka	Numerical simulation of viscoelastic flows in a film forming process	Kumar	2013
Stratasys	Jenny Zhu	Applying Water-Based Coating on 3D Printed Parts	Francis	2013
Valspar	Keith Kirkwood	Improved Industrial Spray Coating and Final Film Coalescence	Francis Kumar	2013
Boston Scientific	Maggie Zeng	Impact of polymer crosslinking on particulate profile of a hydrophilic coating used in a medical device	McCormick Haugstad	2013
Upsher-Smith	Justin Song	Drug-Product-Representative Excipient Compatibility By Microcalorimetry	Sury	2013
Corning, Inc.	Brandon Williamson	Investigation of "Shrinkback" in Extruded Polymeric Materials Focusing on Amorphous Regions	Macosko Haugstad	2013
Nitto Denko	Kei Yoshida	Numerical simulation of phase separation	Morse	2013
Toray	Shigeru Aoyama	Interface characterization of composite material	Macosko Haugstad	2013
Total (Bostik)	Miao Hu	Physical Profiles of Hot Melt Adhesives in the Coating Applications	Lodge	2013
RTP	Fariborz Parsi	Flow Induced Architecture in Polymer Composites	Macosko	2013
Stratasys	Victor Jaker	Polymer Adhesion Mechanisms in the FDM (Fused Deposition Modeling) Process	Macosko	2013
Asahi Kasei	Ryo Horiuchi	Simultaneous Multilayer Coating	Kumar Carvalho	2013
INOAC	Ayumu Sakai	Preparation and characterization fine cell EBR/PEO foams	Macosko	2013
Dai Nippon Printing	Tomohiko Anazawa	Evaluation method of functional interlayer between two liquid layers	Kumar	2013
Cabot	Bill Coggio	The Use of AFM to Probe Particle-Polymer Nanomorphology	Haugstad	2013
Donaldson Company	Brad Houser	Cryo-SEM of filter/particle samples in organic solvents	Haugstad	2013
Upsher-Smith	Sam Reinhold	Quantitation of coating efficiency for multiparticulate systems	Sun	2012
General Mills	Steve Anderson	Multilayer die property optimization	Macosko	2012
Valspar	Keith Kirkwood	Improved Industrial Spray Coating and Final Film Coalescence	Francis Kumar	2012
Upsher-Smith	Sam Reinhold	Quantitation of coating efficiency for multiparticulate systems	Sun	2012
CooperVision	Rachel Marullo	Morphological and rheological characterization of silicone hydrogel contact lenses	Macosko	2012
Donaldson Company	Kristin Amsden	Nothing listed	Macosko	2012

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Dai Nippon Printing	Tomohiko Anazawa	Evaluation method of functional interlayer between two liquid layers	Kumar	2011
Panasonic	Toshihide Horii	Study of ultra thin coating method	Kumar & Carvalho	2011
Toray	Shigeru Aoyama	interface characterization of composite material	Macosko	2011
Toyota	Yoshito Endo	Slot coating flow analysis at start-up and stop-down	Kumar	2011
Donaldson Company	Paul Klick	Analysis of Probe Molecules Within Hydrocarbon Fluids	Dong Haugsted	2011
General Mills	Steve Anderson	Multilayer die property optimization	Macosko	2011
Toyota	Hideki Hagiwara	Visualization, analysis, and optimization of paste and film during battery electrode fabrication	Francis	2111
Nitto Denko	Kei Yoshida	Research for numerical simulation of phase separation	Morse	2111
Corning, Inc.	Dave Chiasson	Polymer interface adhesion characterization	Macosko	2010
Boston Scientific	Bruce Forsyth	Thin-Film coating microstructure during in-situ dynamic drying	Francis	2010
Corning, Inc.	Anne Bringuier	Co-extruded polyolefin interface behavior	Macosko	2010
Ecolab	Eric Morrison	Phase behavior in microemulsions related to nanoemulsification	McCormick	2010
JFE Steel Corp.	Masato Sasaki	Visualization of roll coating and multilayer die coating of high-speed region	Francis	2009
SKC	Jae Soo (Charley) Yang	Polyurethane nanocomposites and microcellular foams	Macosko	2009
General Mills	Katya Barrangan-Perez	Evaluation and formulation of moisture-barrier coatings using food-grade mica particulates	Macosko	2009
Donaldson Company	Joe Block	Method for Sectioning Highly Porous Fibrous Media	Francis	2008
Dai Nippon Printing	Norikatsu "Nori" Nakamura	Optimized Two-Layer Slot Coating for Industrial Use	Francis	2008
Sony	Kazuhiko Morisawa	Phase Separation in Coatings	Francis	2008
Sumitomo Chemical	Takumi Shibuta	Morphology of Nanoparticle Layer	Francis	2008
Dai Nippon Printing	Katsunori Tsuchiya	Optimized Two-Layer Slot Coating for Industrial Use	Francis	2008
Donaldson Company	Brad Kahlbaugh	unkn	Francis	2008
Donaldson Company	Karthik Viswanathan	Method for Sectioning Highly Porous Fibrous Media	Francis	2008
Hutchinson Technology	Bob Henry	Viscosity Gradients in Polyimide Coatings on HDD Suspension Model	Francis	2008
Lintec	Tomohiro Matsuda	Single layer coating for thin film	Kumar	2007
Nitto Denko	Yoshi Morita	Curtain coating	Kumar	2007
3M	Gibson Batch	Demixing and delamination in polymer compositions	Macosko	2007
Huntsman Chemical	Qiang Lan	Advanced characterization methods for nanocomposites	Haugstad	2007
Ecolab	Sara Peters	Surfactant-Soil Interactions and Characterization Methods Synthesis and Characterization of Biodegradable Block Copolymer Surfactants	Hillmyer	2007
Sekisui	Yoshihiro Inui	Multilayered film of nanocellular structures using supercritical fluid	Macosko	2007
Dai Nippon Printing	Hiroshi Yoshiba	Structure Control of Particles by Coating	Francis	2006
Boston Scientific	Scott Smith	Unkn	Victor H. Barocas	2006
Lintec	Takatoshi Nisho	Slot coating stability analysis with an active control system Control of microstructure through drying conditions	Francis	2005
Nitto Denko	Hiroaki Kobayashi	Mechanism behind blushing phenomenon in coatings	Francis	2005
Imation	Gary Huelsman	Theoretical clarification on the variation of thickness generated by the variation of the drying rate in the coated layer with an organic solvent system. Also the development of a computational program based on theoretical understanding.	Francis	2005

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Vision-Ease	Hannah Vu	Mechanism behind blushing phenomenon in coatings. (First) Investigate flow properties of polyurethane coating solutions on multi-focal ophthalmic polycarbonate lenses during the withdrawal coating process.	Francis	2005
Entegris	Sanjiv Bhatt	Research the key parameters governing dispersion of single-wall nanotubes in a non-polar polymer matrix. Develop a Theoretical understanding of SWNT and SWNT-Nanocomposites Behavior	Macosko	2005
Eastman Kodak	David Whitcomb	Characterizing the nanostructure evolution of metal carboxylate crystals	McCormick	2005
Dai Nippon Printing & Dow (later)	Takeaki Tsuda	Slot coating stability analysis with an active control system	Francis & Santos	2005
Ecolab	David Gohl	Surfactant-Soil Interactions and Characterization Methods	McCormick	2005
Imation	Raul Andruet	Theoretical analysis and computer modeling of continuous slitting of a coated web.	Francis	2005
Imation	Pete Silbernagel	Investigate flow properties of polyurethane coating solutions on multi-focal ophthalmic polycarbonate lenses during the withdrawal coating process.	CPF	2005