

**Graduate Students Associated with the  
Materials and Process Mechanics Laboratory**

<b>Date</b>	<b>Degree</b>	<b>Candidate</b>	<b>Thesis Title</b>
1991	M.A.Sc.	G. Fernlund	Quasi-Static Failure of Structural Adhesive Joints
1993	M.A.Sc.	A. Yakimov	Adhesive Wetting Kinetics
1993	M.A.Sc.	M. Papini	Fracture Load Prediction of Structural Adhesive Joints
1994	M.A.Sc.	D. Plausinis	Time-Dependent Fracture of Adhesive Joints
1994	Ph.D.	G. Fernlund	Design of Structural Adhesive Joints
1995	M.A.Sc.	H. Lanting	Mixed Mode II/III Fracture of Adhesive Joints
1995	M.A.Sc.	M. Dessureault	Observations of Fatigue Crack Initiation and Propagation in Structural Adhesive Joints
1996	M.Eng.	A. Hamade	A Preliminary Assessment of the Mechanical Properties of Organic Coatings
1996	M.Eng.	J. van de Vegte	Automated Adhesive Bonding of Stator Magnets
1996	M.A.Sc.	J. Wylde	Measurement of Adhesive Joint Fracture Properties as a Function of Environmental Degradation
1997	M.A.Sc.	I.V. Vintilescu	Mixed-Mode I-II-III Fracture of Adhesive Joints
1997	M.A.Sc.	E. Jean	Coating Removal from Aluminum Using Wheat Starch Blast Cleaning
1997	Ph.D.	S. Ardebilli	Micromechanical Characterization of the Interphase Zone in Adhesive Joints (co-supervisor A.N. Sinclair)
1997	Ph.D.	A. Moidu	Characterization of Adhesive Joint Durability Using Open-Faced Specimens (co-supervisor A.N. Sinclair)
1997	M.A.Sc.	B. Djurovic	Coating Removal from Fiber Composites Using Wheat Starch Blast Cleaning
1998	Ph.D.	M. Papini	Organic Coating Removal by Single Particle Impact

1998	M.A.Sc.	M. Ahmed	Blast Cleaning of Painted Surfaces
1999	M.A.Sc.	P. Tangestanian	Starch Media Blast Cleaning: Properties and Performance of Masking Tapes and Aged Paint Films
1999	M.A.Sc.	S. Wang	Experimental Investigation of the Mechanics of Vibratory Finishing
1999	M.A.Sc.	Y. Tu	Water Absorption and Degradation in Adhesive Joints
1999	M.A.Sc.	A. Raykowski	Mechanics of Blast Cleaning as Applied to Gas-Turbine Rotor Deposits
2000	M.A.Sc.	I. Farid	Viscoelastic Properties of Wood Fiber Reinforced Polyethylene: Stress Relaxation, Creep and Threaded Joints
2000	Ph.D.	C. Cottrell	The Influence of Surface Properties on Zebra Mussel Adhesion (co-supervisor D.G. Allen)
2000	M.A.Sc.	A. Akhtarkhvari	Painting Wood-Fibre Reinforced Plastics (co-supervisor M.T. Kortschot)
2001	M.A.Sc.	R. Wang	Fracture of Bonded Sheet Structures (co-supervisor A.N. Sinclair)
2001	M.A.Sc.	Q. Mao	Wetting and Distortion of Paper (co-supervisor M.T. Kortschot)
2001	M.A.Sc.	J. Cui	Fracture of Bonded Sheet Structures
2001	M.Eng.	R. Chaudhary	Black Pad Defect in Pb-Free Solder Joints
2001	M.Eng.	K. Shamsi	Black Pad Defect in Pb-Free Solder Joints
2002	M.A.Sc.	M. Baghbanan	Contact Forces and Surface Characterization of Aluminum Alloys in a Vibratory Finishing Process
2002	M.A.Sc.	S. Sareskani	Adhesive Failure with Adherend Yielding – The T-Peel Test and Cohesive Zone Modeling

2002	M.A.Sc.	A. Shaygan-Pur	Fracture of Bonded Sheet Structures
2003	M.A.Sc.	K. Al-Qazzaz	Buckling Failure in Adhesive Joints under Bending
2003	M.A.Sc.	G. Cheung	Mechanical Response of Intramedullary Nails (co-supervisor M. Papini, Ryerson Polytechnic Univ.)
2002	M.A.Sc.	D. Ciampini	Computer Simulation of Interference Effects in Particle Streams (co-supervisor M. Papini, Ryerson Polytechnic University)
2005	Ph.D.	Y. Qi	Accelerated Thermal Fatigue Testing of Sn-Pb and Pb-Free Solder Joints in Microelectronic Packages
2002	M.Eng.	I. Muhammad	Determination of Elastic Thermal Stresses in Microelectronic Packages Using Finite Element Analysis
2002	M.Eng.	A. Ali	Analysis of Temperature Distribution in Film Packaging Equipment
2002	M.Eng.	Y. Li	Lead-Free Solder Finishes
2002	M.Eng.	S. Raza	Lead-Free Solder Rework Evaluation
2003	M.Eng.	M. Yeoh	An Investigation of the Reduction in Optical Fibre Strength After Fusion Splicing
2003	M.Eng.	Y. Wang	Measurements of Velocity Fields in a Vibratory Finisher
2003	M.Eng.	Q. Hu	Analytical and Numerical Modeling of Snap Buckling in Adhesive Joints
2003	M.A.Sc.	N. Chhabra	Atomic Force Microscopy of Paper Fibres (co-supervisors M.T. Kortschot and C. Yip)
2006	Ph.D.	H. Ghorbani	Thermal Fatigue of Sn-Pb and Pb-Free Solder Joints: Experiments and Modeling
2003	M.Eng.	M. Agia	Effect of Cooling Rate on Performance of Lead-Free Solder
2003	M.Eng.	A. Pakzad	Control of Infrared Curing of Adhesives in Fibre-Optic Joining

2002	-	J. Ma	Thermal Fatigue of Plated-Through-Vias: Modeling and Experiments
2008	Ph.D.	D. Ciampini	Mechanics of Vibratory Finishing
2006	M.A.Sc.	R. Lam	Thermal Fatigue Testing of Various Plated-Through-Vias: Comparison of Convective and Resistive Heating
2011	Ph.D.	S. Emami Naeini	Mechanics of Vibrating Finishing
2004	M.Eng.	M. Li	Bending Strength of Solder Joints
2004	M.Eng.	D. Purza	PDPA Studies of Abrasive Air Jets
2006	M.A.Sc.	X. Xie	Rewetting of Paper (co-supervisors M.T. Kortschot, R. Farnood)
2009	Ph.D.	D. Shirley	Creep of Solders as a Function of Stress State
2006	M.A.Sc.	O. Belashov	Thermal Fatigue of Plated-Through-Vias
2005	M.Eng.	H. Patel	Particle Motion in a Vibratory Finisher
2007	M.A.Sc.	N. Dadhiala	Mechanics of Round-End Truss Joints
2008	Ph.D.	A. Ghobeity	Abrasive Jet Mico-machining (co-supervisor M. Papini, Ryerson Univ.)
2006	M.A.Sc.	M. Jastrzebski	Simulated Degradation of Adhesive Joints (co-supervisor A.N. Sinclair)
2004	-	T. Krajac	Abrasive Jet Mico-machining (co-supervisor M. Papini, Ryerson Univ.)
2007	M.A.Sc.	G. Hailu	Abrasive Jet Mico-machining of Polymers (co-supervisor M. Papini, Ryerson Univ.)
2010	Ph.D.	S. Azari	Fatigue of Adhesive Joints (co-supervisor M. Papini, Ryerson Univ.)
2007	M.Eng.	S. Mohsen	Vibratory Simulator
2011	Ph.D.	A. Mohajerani	Erosion in Vibratory Finishing
2011	Ph.D.	A. Ameli	Design of Adhesive Joints Subject to Degradation

			(co-supervisor M. Papini, Ryerson Univ.)
2011	Ph.D.	N. Datla	Fatigue of Degraded Adhesive Joints (co-supervisor M. Papini, Ryerson Univ.)
2011	Ph.D.	S. Nadimpalli	Prediction of Solder Joint Strength
2006	-	A. Oladeinde	Abrasive Jet Erosion of Teeth (co-supervisor M. Papini, Ryerson Univ.)
2009	M.Eng.	J. Kilbourne	Friction Stir Welding (co-supervisor T. North, MSE)
2012	Ph.D.	G. Hailu	Abrasive Jet Mico-machining of Polymers (co-supervisor M. Papini, Ryerson Univ.)
2010	M.Eng.	S. Lelea	Processing of Mg Alloys
2010	M.Eng.	C. Ivascu	Processing of Mg Alloys
2011	M.A.Sc.	A. Gradeen (Ryerson)	Abrasive Jet Machining of Polymers (co-supervisor M. Papini, Ryerson Univ.)
2013	Ph.D.	R. Jafar	Roughness Modeling in Abrasive Jet Machining (co-supervisor M. Papini, Ryerson Univ.)
2012	M.A.Sc.	G. Jhin	Adhesive Bonding of Galvanized Steels Subject to High Cycle Fatigue (co-supervisor M. Papini, Ryerson Univ.)
2011	M.Eng.	A. Wodoslawsky	Maskless Abrasive Jet Micromachining
2011	M.A.Sc.	S. Ally (Ryerson)	Abrasive Jet Micromachining of Metals (co-supervisor M. Papini, Ryerson Univ.)
2014	Ph.D.	K. Hashemnia	Modeling Granular Flows in Vibrationally Fluidized Beds
2015	Ph.D.	H. Nouraei	Micromachining with Slurry Jets (co-supervisor M. Papini, Ryerson Univ.)
2015	Ph.D.	A. Nourani	High Strain-rate Fracture of Solder Joints

2013	M.A.Sc.	K. Kowsari	Slurry Jet Micromachining (co-supervisors M. Papini, Ryerson Univ., D.F. James)
2015	Ph.D.	N. Haghbin (Ryerson)	Waterjet Micromachining (co-supervisor M. Papini, Ryerson Univ.)
2013	M.Eng.	J. Tikaram	Heat Transfer Modeling of Cooling Meat Products
2013	M.Eng.	M. Emami-Far	CFD Modeling of Slurry Jet Erosion (co-supervisor M. Papini, Ryerson Univ.)
2016	Ph.D.	S. Akbari	High Strain-rate Fracture Prediction of Microelectronic Solder Joints Surrounded by Adhesive Underfill
2014	M.A.Sc.	N. Tamannaee	Slurry-jet and Water-jet Machining of Plastics (co-supervisor M. Papini, Ryerson Univ.)
2017	Ph.D.	K. Kowsari	Slurry Jet Micromachining (co-supervisor M. Papini, Ryerson Univ.)
2018	Ph.D.	J. Schwartzentruber (Ryerson)	Waterjet Micromachining (co-supervisor M. Papini, Ryerson Univ.)
2016	M.Eng.	A. Basu	Slurry Jet Micromachining (co-supervisor M. Papini, Ryerson Univ.)
2015	M.Eng.	W. Ishaque	Stress Analysis
2015	M.Eng.	S. Lalonde	Polymeric Material Properties
2015	M.Eng.	T. Mellary	Modeling 3D Deformation in an Elastomer
2018	M.A.Sc.	M. Teti	High-pressure Slurry-jet Micro-machining (co-supervisor M. Papini, Ryerson Univ.)
2018	M.A.Sc.	R. Brown	Creep of opto-electronic adhesives
2017	M.A.Sc.	E. van Wijk	Polymer Additives in Abrasive Slurry-jet Micro-machining (co-supervisors M. Papini, Ryerson

Univ., D.F. James)

2019	Ph.D.	L. Maciel	Mechanics of Vibrationally-fluidized Granular Flows
2017	Ph.D.	A. Nouhi (Ryerson)	Abrasive-jet Micro-machining of Highly-curved Surfaces (co-supervisor M. Papini, Ryerson Univ.)
2019	M.A.Sc.	X. Luo	Focusing of Abrasive Air Jets  (co-supervisor M. Papini, Ryerson Univ.)
2020	M.A.Sc.	J. Palumbo	CFD Modelling of Abrasive Air Jet Focusing  (co-supervisor M. Papini, Ryerson Univ.)