

Nata a Bergamo il 28/10 /1974. Laurea nel 1999 in Ingegneria Gestionale – indirizzo Energetico conseguita presso l'Università degli Studi di Bergamo. Titolo della tesi "Studio di un impianto integrato per la produzione di energia elettrica e di idrogeno mediante steam reforming", svolta in collaborazione con la SIAD (Società Italiana Acetilene e Derivati).

Da giugno 2000 ad aprile 2001 esperienza professionale presso la Brembo Spa (Bg) nel gruppo Ottimizzazione di processo.

Dal 2001 al 2004, Dottorato in Tecnologie e Sistemi di Lavorazione - XVI Ciclo presso il Dipartimento di Meccanica del Politecnico di Milano. Nel 2003 borsa di studio "Marie Curie" di 6 mesi presso l'Institut fuer Werkstoffkunde di Hannover.

Dal 2005 ricercatrice presso il Dipartimento di Progettazione e Tecnologie della Facoltà di Ingegneria dell'Università degli Studi di Bergamo (S.S.D. ING-IND/16 - Tecnologie e Sistemi di Lavorazione

Principali attività didattiche

Professore a contratto del corso di "Tecnologia Meccanica" del Corso di Laurea in Ingegneria dell'Automazione presso il Politecnico di Milano (A.A. 2005-06).

Titolare del corso di "Tecnologia Meccanica II" per il Corso di Laurea in Ingegneria Meccanica presso la Facoltà di Ingegneria dell'Università degli Studi di Bergamo (A.A. 2005/06 – 2006/07 – 2007/08 – 2008/09 - 2009/10).

Titolare del corso "Tecnologie innovative di lavorazione" per il Corso di Laurea Magistrale in Ingegneria Meccanica presso la Facoltà di Ingegneria dell'Università degli Studi di Bergamo (A.A. 2010/11 – 2011/12 – 2012/13 – 2013/14 – 2014/15 – 2015/16 – 2016/17 – 2017/18 – 2018/19)

Titolare del corso di "Studi di Fabbricazione" per il Corso di Laurea Magistrale in Ingegneria Meccanica ed in Ingegneria Gestionale presso la Facoltà di Ingegneria dell'Università degli Studi di Bergamo (A.A. 2018/19)

Principali aree di ricerca

Lavorazioni non convenzionali, microlavorazioni, sostenibilità.

Pubblicazioni

Ravasio C., Nuove frontiere per il waterjet, Lamiera, 2001.

Ravasio C., Il getto d'acqua ora nei più evoluti centri di lavoro, Macchine utensili, 2001.

Monno M., Petrolati M., Ravasio C., Analysis of an accident happened in a job shop in Italy, Proceedings of 16th International Conference on Water Jetting, 2002, Aix-en-Provence, France.

Monno M., Polini W., Ravasio C., Turchetta S., Erosion of natural stone by abrasive grains, WJTA American Waterjet Conference, 2003, Houston, Texas.

Karpinski A., Louis H., Monno M., Peter D., Ravasio C., Scheer C., Südmersen U., Effects of pressure fluctuations and vibration phenomenon on striation formation in AWJ cutting, Proceedings of 17th International Conference on Water Jetting, 2004, pp. 123-136, Mainz, Germany. Premiato dal comitato scientifico della conferenza con il Best Paper Award.

Monno M., Ravasio C., The effect of pressure on the surfaces generated by waterjet: preliminary analysis, Proceedings of 7th International Conference on Advanced Manufacturing Systems and Technology, 2005, pp. 413-425, Udine, Italy.

D'Urso G., Maccarini G., Pellegrini G., Ravasio C., Analysis and optimization of a die casting process by means of a simulation system, 18th International Conference on Production Research, 2005, Fisciano (SA), Italy.

Monno M., Ravasio C., The effect of pressure fluctuation on the cutting ability of pure waterjet, Proceedings of the 8th International Conference on Management of Innovative Technologies, 2005, pp. 49-55, Fiesca, Slovenia. Selezionato e pubblicato su Journal of Mechanical Engineering 52, 2006, 7-8, pp.443-450.

Monno M., Pellegrini G., Ravasio C., An experimental investigation of the kerf realized by AWJ: the influence of the pressure fluctuations, Proceedings of 18th International Conference on Water Jetting, 2006, pp. 309-321, Gdansk, Poland.

D'Urso G., Maccarini G., Pellegrini G., Ravasio C., A system for vector control of SEM electron beam: a new application for LIGA technique, Proceedings of 8th International Conference on Advanced Manufacturing Systems and Technology, 2008, pp. 441-451, Udine, Italy.

Maccarini G., Monno M., Pellegrini G., Ravasio C., Characterization of the AWJ kerf: the influence of material properties, Proceedings of 19th International Conference on Water Jetting, October 2008, Nottingham, UK.

Monno M., Ravasio C., The effect of cutting head vibrations on the surfaces generated by waterjet cutting, International Journal of Machine Tools and Manufacture, Vol. 5, Issue 3, Mar. 05, pp.355-363.

D'Urso G., Maccarini G., Ravasio C., Rivestimenti polimerici delle lamiere e dei materiali metallici, Lamiera, Marzo 2008, pp. 70-74.

Annoni A., Monno M., Ravasio C., "Water jet, a flexible technology", 2007, Polipress.

D'Urso G., Maccarini G., Pellegrini G., Ravasio C., Characterization of SEM Electron Beam LIGA system, 4M 2009 Conference, pp. 279-282, Karlsruhe, Germany.

G. D'Urso, M. Longo, G. Maccarini, C. Ravasio, Characterization Of An EBL System: The Influence Of Process Parameters On Thickness Resist And Engraving Shapes, International Conference Advances in Materials and processing Technologies, 24-27 October 2010, Paris, France.

G. D'Urso, M. Longo, G. Maccarini, C. Ravasio, Investigation of micro EDM machining of micro holes, Proceedings of 11th International Conference on Advanced Manufacturing Systems and Technology, 2011.

G. D'Urso, M. Longo, G. Maccarini, C. Ravasio, Electrical discharge machining of micro holes on titanium sheets, 5th International Conference on Micro and Nanosystems, Washington, USA, August 2011.

- G. D'Urso, M. Longo, G. Maccarini, C. Ravasio, Electrical discharge machining of micro-holes on titanium sheets: effect of process parameters and electrode shape, 4M 2011 Conference, 8-10 November 2011, Stuttgart, Germany.
- G. D'Urso, G. Maccarini, C. Merla, C. Ravasio, The influence of electrode shape and material on micro EDM drilling process, 4M 2012 Conference, 9-11 October 2012, Vienna, Austria.
- M. Monno, G. Pellegrini, C. Ravasio, The reproducibility in AWJ cutting: an experimental case, Proceedings of 21th International Conference on Water Jetting, September 2012, Ottawa, Canada.
- G. D'Urso, E. Gallus, G. Maccarini, C. Merla, C. Ravasio, Micro holes on different materials: a comparison between micro EDM and micro LASER technologies, Proceedings of 8th International Workshop on Microfactories, June 2012, Tampere, Finland.
- G. D'Urso, G. Maccarini, C. Merla, C. Ravasio, Integration of micro-EDM and EBL processes in silicon manufacturing, Proceedings of 8th International Workshop on Microfactories, June 2012, Tampere, Finland.
- G. D'Urso, G. Maccarini, C. Merla, C. Ravasio, Micro EDM Machining Of small faetures on magnesium plates, Proceedings of 1st International Conference on Design and PROcesses for MEDical Devices, May 2012, Padenghe sul Garda, Italy.
- G. D'Urso, G. Maccarini, C. Ravasio, Process performance of micro-EDM drilling of stainless steel, Int Journal of Advanced Manufacturing Technology, (2014) 72:1287-1298.
- G. D'Urso, G. Maccarini, C. Merla, C. Ravasio, A. Surleraux, Comparison EDM / Dry-EDM in microdrilling process, 4M/ICOMM 2015 Conference, March-April 2015, Milano, Italy.
- G. Maccarini, C. Merla, C. Ravasio, A. Bongiorno, I. Fassi, C. Pagano, Influence of micro injection moulding process parameters on mechanical characteristics of POM and POM/CNT composites, 4M/ICOMM 2015 Conference, March-April 2015, Milano, Italy.
- D'Urso G., Ravasio C., Maccarini G., Giardini C., Giorleo L., Attanasio A., Fiorentino A., Ceretti E., REMS: a laboratory for integrated micro-manufacturing, AITEM Conference, September 2015, Napoli, Italy.
- G. D'Urso, G. Maccarini, C. Ravasio, Influence of electrode material in micro-EDM drilling of stainless steel and tungsten carbide, Int Journal of Advanced Manufacturing Technology, March 2015.
- M. Monno, G. Pellegrini, C. Ravasio, Effect of workpiece heat treatment on surface quality of AWJ kerf, Int. J. Materials and Product Technology, Vol. 51, No. 4, 2015, 345-35.
- G. D'Urso, G. Maccarini, M. Quarto, C. Ravasio, Investigation on power discharge in micro-EDM stainless steel drilling using different electrodes, Journal of Mechanical Science and Technology 29 (10) (2015) 4341-4349.
- G. D'Urso, C. Ravasio, The effects of electrode size and discharged power on micro-electro-discharge machining drilling of stainless steel, Advances in Mechanical Engineering 8 (5) (2016) 1-12.
- G. D'Urso, G. Maccarini, C. Ravasio, Influence of electrode material in micro-EDM drilling of stainless steel and tungsten carbide, International Journal of Advanced Manufacturing Technology, Vol. 85, No. 9-12, 2016, 2013-2025.

- G. D'Urso, G. Maccarini, M. Quarto, C. Ravasio, M. Caldara, Micro-electro discharge machining drilling of stainless steel with copper electrode: The influence of process parameters and electrode size, *Advances in Mechanical Engineering*, 8 (12) (2016) pp. 1-16.
- G. D'Urso, S. Lorenzi, G. Maccarini, C. Ravasio, Investigation on the migration of material from tool to workpiece in micro-EDM machining, *Proceedings of 11th International Conference on Micro Manufacturing Orange County, California, USA, March 2016*.
- G. D'Urso, C. Ravasio, M. Quarto, Material-Technology Index to evaluate micro-EDM drilling process, *Proceedings of 11th International Conference on Micro Manufacturing Orange County, California, USA, March 2016*.
- G. D'Urso, G. Maccarini, M. Quarto, C. Ravasio, Product cost modelling for micro-EDM drilling, *4M/ICOMM 2016 Conference, September 2016, Copenhagen, Denmark*.
- M. Monno, G. Pellegrini, C. Ravasio, F. Vigano, Interaction between metallurgical state and process parameters on AWJ kerf, *Proceedings of 23rd International Conference on Waterjetting, November 2016, Seattle, USA*
- G. D'Urso, C. Ravasio, Material-Technology Index to evaluate micro-EDM drilling process, *Journal of Manufacturing Processes*, 26, 2017, pp. 13-21.
- G. D'Urso, M. Quarto, C. Ravasio, A model to predict manufacturing cost for micro-EDM drilling, *International Journal of Advanced Manufacturing Technology* 91(5-8), 2017, pp. 2843-2853.
- G. D'Urso, C. Giardini, G. Maccarini, M. Quarto, C. Ravasio, Analysis of the surface quality of steel and ceramic materials machined by micro-EDM, *European Society for Precision Engineering and Nanotechnology, Conference Proceedings - 18th International Conference and Exhibition, EUSPEN 2018*, pp. 431-432.
- G. D'Urso, M. Quarto, G. Pellegrini, C. Ravasio, Towards the prediction of micro-EDM drilling performance on WC varying the hole depth, *Manufacturing Technology* 18(6), 2018, pp. 1041-1047.
- G. D'Urso, G. Giardini, C. Ravasio, Effects of Electrode and Workpiece Materials on the Sustainability of Micro-EDM Drilling Process, *International Journal of Precision Engineering and Manufacturing* 19(11), 2018, pp. 1727-1734.
- G. Giardini, G. Pellegrini, C. Ravasio, S. Lorenzi, T. Pastore, Investigation on the migration of material from tool to workpiece in micro-EDM drilling, *Metallurgia Italiana* 111(4), 2019, pp. 13-22.
- G. D'Urso, C. Ravasio, Investigation on the effects of exchanged power and electrode properties on micro EDM drilling of stainless steel, *Manufacturing Technology* 19(2), 2019, pp. 337-344.

Altre attivita'

Reviewer per riviste internazionali:

-Machines

-Journal Manufacturing Process and Technology

-International Journal Precision Engineering and Manufacture

Scientific Committee per la conferenza "World Congress on Micro and Nano Manufacturing" negli anni 2017 e 2018