

Curriculum Vitae

Personal data

Name: Enrico Corniani
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Education

2007 – 2010	PhD Student at Vienna Technical University, TUW (Austria), in a European Marie Curie network.
1999 – 2005	Materials Engineering Degree at Padova University (Italy)
2001 – 2002	<i>One year Erasmus program at Universidad Autonoma de Madrid (Spain)</i>

Work experience

9.2008 – 6.2010	Marie Curie “Early Stage Researcher” at the Austrian Centre for Competence in Tribology (www.ac2t.at), Wiener Neustadt, Austria. The research work included on-line wear measurements based on radio-isotopes technique. In specific a double isotopes technique for detecting wear of different elements in the alloys. The technique was applied also to the study of the tribo-system Piston ring – Cylinder liner
6.2007 – 8.2008	Marie Curie “Early Stage Researcher” at the Nuclear Research Institute of the Hungarian Academy of Sciences (www.atomki.hu), Debrecen, Hungary. The research work included: activation of different type of materials (metals and polymers) through a cyclotron beam, depth profiling of the activated samples, cross sections measurements, radiation protection, gamma-spectrometry,...
9.2005 – 9.2006	Researcher at Hitachi Research Laboratories, Hitachi city, Japan, through the European Community driven programme “Vulcanus in Japan”. Employed at the Hitachi nanoimprinting strategic laboratory. The work dealt with U.V. light nanoimprinting, AFM and nanoindentation analysis of the nanoimprinted polymeric structures, AFM/SEM evaluation of samples.
9.2004 – 8.2005	Master thesis in co-operation with Sacme s.p.a. to develop an electrical conductive polymer for electrostatic discharge through the addition of Carbon Nanotubes (CNT) to a thermoplastic polyurethane matrix.

Additional skills

Research	<ul style="list-style-type: none">• Experience in working in a multinational, diverse environment• Strong in presenting results in written and oral form to other researchers/conferences/journals. Good in research project management.
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Languages:	<ul style="list-style-type: none"> • Italian: Mother language. • English and Spanish: Fluently spoken, read and written. • French: Fluently spoken and read, working knowledge in writing. • Japanese: Advanced in spoken, beginner in reading and writing.
Computing:	<ul style="list-style-type: none"> • Operating Systems: Unix/Linux, Windows, Mac OsX. • Scientific software: Matlab, Maxima. • HTML and Web designing software (web master of www.wemesurf.net)
Certificates	<ul style="list-style-type: none"> • Prince 2 Practitioner Course (project magement), The APM Group Ltd. (http://www.apmgroup.co.uk/) • Speech and Presentation Course, Steiner Consulting, (www.steinerconsulting.at) • Japanese language beginner course (http://www.kaij.co.jp/e/)

Publications

Peer reviewed journals	<ul style="list-style-type: none"> • E. Corniani, M. Jech, F. Ditroi, T. Wopelka, & F. Franek : TLA and wear quantification of an aluminium–silicon–copper alloy for the car industry. <i>Wear</i> 267, 828-832 (2009). • F. Ditrói, E. Corniani, et al. Beam Interactions with Materials and Atoms : Study of proton induced reactions on niobium targets up to 70 MeV. <i>Nuclear Instruments and Methods in Physics Research Section B</i> 266, 5087-5100 (2008). • F. Ditrói, E. Corniani et al. Beam Interactions with Materials and Atoms : Investigation of proton induced reactions on niobium at low and medium energies. <i>Nuclear Instruments and Methods in Physics Research Section B</i> 267, 3364-3374 (2009).
Conference proceedings	<ul style="list-style-type: none"> • E. Corniani, L.M. Vilhena, et al. : Impact of laser surface texturing on Al-Si-Cu cylinder liners evaluated through TLA and nVCT - 17th International Colloquium on Tribology - 19th - 21st of January 2010 Book of Synopses 2010 of the 17th International Colloquium Tribology - pag. 207 - ISBN-Nr. 3-924813-80-9 • E. Corniani, V. G. Marian, et al.: Experimental wear volume analysis on Al-Si-Cu laser textured cylinder liners using thin layer activation technique - World Tribology Congress in Kyoto (Japan) - 6th - 11th of September 2009
Posters	<ul style="list-style-type: none"> • E. Corniani : "Nuclear Physics marries Mechanical Engineering" - Poster presented at the Marie Curie fellows conference, Barcellona July 2008. • F. Ditrói, S. Takács, E. Corniani, F. Tárkányi : Thin Layer Activation of nano-layers by using secondary recoil of activated products from nuclear reactions - 6th International Conference on Isotopes. Seoul, Korea, 12-16 May, 2008 (Page 359 of the proceedings book)