

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



**PERSONAL INFORMATION**

Name  
Address Permanent  
Address Temporary  
Telephone  
E-mail / website

**CORNIANI, ENRICO**  
**35, Via C.Colombo, I-36015, (Vi) Schio, Italy**  
**82 / 4 Siccardsburggasse, 1100 Vienna, Austria**  
**Mobile: +43 660 65 67 637**  
[corniani@ac2t.at](mailto:corniani@ac2t.at) / [www.wemesurf.net/enrico.htm](http://www.wemesurf.net/enrico.htm)

Nationality  
Date of birth

Italian  
14 MAY 1980

**WORK EXPERIENCE**

- Dates (from - to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

July 2007 onwards  
Marie Curie fellows in the WEMESURF project (Working in Atomki - Debrecen, Hungary and in AC2T- Wiener Neustadt Austria), Referee prof. F.Franek: [franek@ac2t.at](mailto:franek@ac2t.at)  
Nuclear Physics applied to the study of Tribology

Researcher

WEMESURF is a project run under the European Commission framework of a Marie Curie Action. My research work, to obtain a PhD degree, focuses on developing a wear measuring technique based on radioactive isotopes and apply it to different materials (metals, polymers, textured, multiphase ... ). Being my research multidisciplinary I am working in two different institutions. I spent one year in Debrecen at Atomki (Nuclear research Institute of the Hungarian Academy of Sciences) performing cyclotron irradiations on materials to activate their surfaces and studying the cross sections of some nuclear reactions. The activated materials were hence tested at AC2T (Austrian centre for competence in Tribology, where at the moment I am employed) where *I perform some wear measurements to understand the wear mechanism of different types of materials*

- Dates (from - to)
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September 2005 until August 2006  
Vulcanus in Japan programme Internship at Hitachi Ltd.  
Referee: Mrs. Sato: [satok@eu-japan.gr.jp](mailto:satok@eu-japan.gr.jp), tel. (+81 3) 3221 6161  
Nanoimprint Strategic Unit of Hitachi research laboratory, Hitachi Ltd.  
Researcher

Vulcanus in Japan is a programme held by European community and Japan; 30 young engineer were selected over 942 applications. At Hitachi Ltd. I follow an international project on Nanoimprint aim at

developing next generation hard disk drive and other nanoimprinted objects like Bio chip or LSI. I was the head of a research project developing a method to test and analyzed surface and mechanical properties of polymeric nanostructures. I was working in a clean room with AFM, SEM, nanoimprinting UV lights machines...

My results were directly reported to the Unit leader and presented to all the laboratory's researchers.

- Dates (from - to) June 2004 until march 2005
- Name and address of employer Sacme s.p.a. 2, Via del Lavoro; I-36034 VI Malo Italy; Tel.: (+39) 04 45 69 66 11, (+39) 04 45 69 66 19; e-mail: [stefano\\_altissimo@sacme.it](mailto:stefano_altissimo@sacme.it) Url.: [www.sacme.it](http://www.sacme.it)
- Type of business or sector Plastic materials' marketing and distribution, compound and coloring of techno-polymers
- Occupation or position held Researcher
- Main activities and responsibilities I was working in this industry for a research program on nanomaterials co-financed by the university. The aim of the project was to produce an electrical conductive plastic. The base polymer is a thermoplastic polyurethane filled with carbon nanotubes, structures that are supposed to bring electrical conductivity with small loadings. During this research I got used with instruments typical in laboratories as DMA, FT-IR, dynamometer, TGA,... but also with machinery typical in polymers industries as extruders, plastograph, injection moulding machines...
- Dates (from - to) December 2000 - January 2005
- Main activities and responsibilities Informatic Teacher for private industry: I taught to individuals or public bodies Microsoft' software as Windows, Office, Internet explorer, Outlook and the world of information technology. The courses aimed at obtaining the ECDL.
- Dates (from - to) January 2004 onwards
- Main activities and responsibilities Promoter of an Informatic cooperative dealing with development of web site, networks construction and administration, schooling informatics, consulting and solving on information technology problems.

## EDUCATION AND TRAINING

- Dates (from - to) July 2007 onward
- Name and type of organisation providing education and training Marie Curie fellow, PhD student at Technical University of Vienna
- Principal subjects/occupational skills covered Tribology, Applied Nuclear Physics, radiation detection, wear, ...
- Title of qualification awarded Doctorate degree is expected for September 2010
- Dates (from - to) September 1999 - April 2005
- Name and type of organisation providing education and training Università degli studi di Padova (I-PD01), Facoltà di Ingegneria, Padova, Italy  
- *One year with Erasmus programme at Universidad Autonoma de Madrid, Madrid , Spain*
- Principal subjects/occupational Science and technology of materials (Metals, polymers, ceramics, glasses...); Physics (pure, solid state,...) math, mechanics of solids,

- skills covered theory and construction of mechanics and electrical machine, business economy and administration, ...
- Final Thesis subject: "Thermoplastic Polyurethane filled with carbon nanotubes for electrically conductive applications"
- Title of qualification awarded Five years degree on Materials' Engineering. Final Vote : 104/110  
Italian state's qualification exam for engineers: 120/120

#### PUBLICATIONS

- TLA and wear quantification of an aluminium-silicon-copper alloy for the car industry: [E. Corniani](#), *M.Jech, F. Ditrói, T.Wopelka, F.Franek* - Wear of Materials 2009 in Las Vegas, Published in a special issue of WEAR (in press, available to download from April 2009)
- Thin Layer Activation of nano-layers by using secondary recoil of activated products from nuclear reactions: *F. Ditrói, S. Takács, E. Corniani, F. Tárkányi* - 6th International Conference on Isotopes. Seoul, Korea, 12-16 May, 2008 (Page 359 of the proceedings book)
- Study of proton induced reactions on niobium targets up to 70 MeV: *F. Ditrói, S. Takács, F. Tárkányi, M. Baba, E. Corniani, Yu.N. Shubin* - Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 266, Issue 24, Pages 5087-5100 (December 2008)
- "[Nuclear Physics marries Mechanical Engineering](#)" - Poster presented at the Marie Curie fellows conference, Barcellona July 2008

#### PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

**ITALIAN**

OTHER LANGUAGES

**ENGLISH**

EXCELLENT

- Reading, Writing, Verbal skills

**SPANISH**

EXCELLENT

- Reading, Writing, Verbal skills

**FRENCH**

GOOD, SUFFICIENT, GOOD

- Reading, Writing, Verbal skills

**JAPANESE**

BASIC, BASICA, GOOD

- Reading, Writing, Verbal skills

SOCIAL SKILLS AND COMPETENCES

Team work: I have always liked to work with people, and I think to have a gift for doing it.

At the university I often organized working groups and I think I have a real talent to coordinate and get people together.

At the moment I am the fellows representative in the WEMESURF project (network of 12 PhD students and 11 post docs)

Relation skills: Outside of my daily life (for ex. living abroad in Spain, France or Japan or Hungary) I was always able to meet new friends

in short time and make myself friendly with everybody, giving people respect, hearing and liking. The same peculiarities have consolidate my bosoms friends

**TECHNICAL SKILLS  
AND COMPETENCES**

The world of engine attract me from when I was a child. Motorbikes and Car have really few secrets. Many times I adjusted my own motorbike or the friend's one in the full-accessorized garage that I have at my home.

**ARTISTIC SKILLS  
AND COMPETENCES**

I love art in all its expressions. For two years, I was in a theatrical set. Sometimes I write stories and tell them to children. Visiting museums is without doubt one of my preferred activity in the free time.

**OTHER SKILLS  
AND COMPETENCES**

Prince 2 Parctitioner certificate for Project Management.  
Wine tasting and gourmet lover.

**TRAVEL PROPENSITY**

I love to travel also for business trip and I don't have problems at all to relocate to a different country.

**DRIVING LICENCE(S)**

A (motorbike); B (Car). (Italian licence and Japanese licence)

**ADDITIONAL INFORMATION**

- CONTACT MY SUPERVISOR, PROF F.FRANEK ([FRANEK@AC2T.AT](mailto:FRANEK@AC2T.AT)) OR DR. DITROI ([DITROI@ATOMKI.HU](mailto:DITROI@ATOMKI.HU)) REGARDING MY PHD REASERCHES
- OR PROF. MICHELE MODESTI ([MICHELE.MODESTI@UNIPD.IT](mailto:MICHELE.MODESTI@UNIPD.IT)) OR BY TELEPHONE (+39 049) 827 55 41 AS REFERENT.
- OR "EUROPE-JAPAN CENTER FOR INDUSTRIAL COOPERATION" TOKYO'S HEADQUARTER Mrs. SATO ([SATOK@EU-JAPAN.GR.JP](mailto:SATOK@EU-JAPAN.GR.JP)) TEL. (+81 3) 3221 6161