



Manon Rapy

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Communication

French: mother tongue

English: fluent

Italian: beginner

German: beginner

Computer: MS Office, Visio

Surface Treatment Process

- Chemical and Thermal paint stripping
- Pre treatment on painting lines
- Thermal Spraying
- Plasma Spraying
- PVD and CVD

Characterisation Process

- Bulk and surface analysis (SEM, TEM, Vickers hardness, flexural strength)
- Composition and phase analysis (SEM/EDX, XRD, XPS)
- Electrochemical analysis (Impedance Spectroscopy)
- Chemical analysis (titration, pH, conductivity)

Experience

R&D Engineer – Chemical Paint Stripping Process 07/2015 - today

ABL Technic, Leader in industrial paint stripping - Leutkirch, GERMANY

- *Optimisation of paint stripping processes : safety, quality, productivity*
- *Implementation of new chemical paint stripping processes*
- *Technical support for new products launches*
- *Optimisation of waste management*

12/2017 to 08/2018 : Short term assignment in Yuyao, CHINA

- *Technical support for new plant start of production*
- *Technical training of local team to ABL Group standards*

2017: Design of a new production unit

- *Creation of database for cycle time analysis and capacity study*
- *Creation of material flows*
- *Design of waste water treatment plant*
- *Research and selection of suppliers*

Development Chemist – New Product Development 06/2014 - 07/2015

MEL Chemicals, Global producer and supplier of inorganic materials specializing in zirconium based chemicals - Manchester, UK

- *Develop new products to meet customer requirements*
- *Define and carry out laboratory programs*
- *Analysis of in process and final products*

Engineer – PhD Student 01/2010 – 01/2013

CEA, Leader organisation in research, development and innovation - Monts, FRANCE

- *In charge of process optimisation and performance study of high temperature devices for hydrogen production*
- *Collaboration with various research laboratorie*
- *Participation in international conferences*

Research engineer 04/2009 – 12/2009

CNRS (National Centre for Scientific Research) - **SPCTS** (Science of Ceramic Processing and Surface Treatments) - Limoges, FRANCE

- *Project: Elaboration of nanostructured deposits by plasma spraying for Solid Oxide Fuel Cell applications*
- *Redaction of experiments reports and contribution to scientific publication*

Education

2013 : Ph.D in Process Engineering and Advanced Technologies

CEA and University Pierre et Marie Curie, Paris VI, FRANCE

2009 : Engineering Master Degree in Materials and Surface Treatments – ENSIL, Limoges, FRANCE