

# Lionel Fournier

PhD in Materials Science - MSc in Corrosion



## Profile

53 years old  
Seniority: 6 years  
English

**Metallurgy**

**Corrosion**

**Industrial Process**

**Nuclear industry**

## Education

### PhD in Materials Science

Mines of St Etienne / Institut National Polytechnique de Grenoble

### MSc in Corrosion

University of Manchester Institute of Science and Technology (UK)

### Master in Chemistry

University of Clermont-Ferrand

## Professional background

### AREVA NP – Paris

Reactor and Services / Engineering Division  
Materials Expert  
Manager of the Chemistry / Corrosion / Radioprotection group

### CEA – Saclay

Research Engineer  
Pellet-Cladding Interactions / Stress Corrosion Cracking

### Research Fellow – University of Michigan (USA)

Irradiation assisted stress corrosion cracking / Austenitic stainless steels / PWR and BWR

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## Key areas of expertise

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### Metallurgy

- Austenitic stainless steels
- Nickel base alloys
- Superalloys
- Zirconium
- Maraging Steel
- Irradiation effects
- Hydrogen Embrittlement

### Corrosion

- General Corrosion
- Stress corrosion cracking
- Pitting
- Microbial Induced Corrosion (MIC)
- Fatigue-Corrosion
- Tribocorrosion
- Oil and Gas
- Nuclear : PWR and BWR
- Sea water

### Industrial Process

- Nuclear
- Oil and Gas
- Metallurgy / Alloys / Fabrication
- Chemistry
- Surface treatments