

# — Milan Skocic, PhD —

## — Electrochemistry and Materials —

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## Work Experience

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📅 May 2017 — Now: 💎 PhD, Electrochemist

🏢 Framatome – 📍 France

- *Project Management*
- *High temperature electrochemistry*
- *Corrosion of Zr-based and Ni-based alloys in aqueous high temperature environment*

📅 Oct. 2015 — Feb. 2017: 💎 PhD, Metallic Material

🏢 Areva NP – 📍 France

- *Project Management*
- *Stress corrosion cracking in Inconel 718: HT/HP slow tensile tests*
- *Corrosion of Zr-based alloys: HT/HP electrochemistry*

📅 Oct. 2012 — Oct. 2015: 💎 PhD Project - "Photoelectrochemical study of the Shadow Corrosion"

🏢 Areva/SIMaP Lab – 📍 France

- *Design and realization of a new electrochemical cell for HT/HP corrosion tests*
- *Validation of the HT/HP electrochemical cell*
- *HT/ HP (photo-)electrochemical characterizations*
- *Classical corrosion tests in autoclaves at HT and HP*
- *Coupling with chemistry loop*

📅 Feb. 2012 — Aug. 2012: 💎 Master Internship - "Metallic bipolar plates for PEMFC"

🏢 Air Liquide – 📍 France

- *State of the art of the coated stainless steels*
- *Set-up of the electrochemical tests*
- *Measurement of the interfacial contact resistance*
- *TEM/SEM observations*
- *Go between the different partners involved in the project*

📅 Apr. 2011 — Aug. 2011: 💎 Master Internship - "Compositionally graded steels"

🏢 McMaster University, Materials Engineering Department – 📍 Canada

- *Carburization of microtruss samples*
- *Prepared and characterized the samples (phase fraction)*
- *Modelling of compressive peak stress*

📅 2007 — 2009: 💎 Technician

🏢 ArcelorMittal R&D center – 📍 France

- *Prepared samples: cutting, mounting, polishing*
- *Used microstructural characterization devices: SEM-FEG, TEM, RX diffractometer*
- *Used thermo-mechanical treatment devices: Gleeble, hot rolling pilot, tensile tests*

📅 Aug. 2005 — Jun. 2006: 💎 Technician

🏢 Pyrolysis Center (CPM) – 📍 France

- *Carried out pyrolysis tests on pilot furnace*
- *Prepared and characterized coke and coal samples*

## Education

📅 2012 — 2015: 🎓 PhD, Materials and Electrochemistry – 📖 University of Grenoble – 📍 France

📅 2012 — 2015: 🎓 Engineer, Electrochemistry – 📖 Grenoble INP (PHELMMA) – 📍 France

📅 2003 — 2005: 🎓 Technician, Analytical Chemistry – 📖 University of Metz – 📍 France

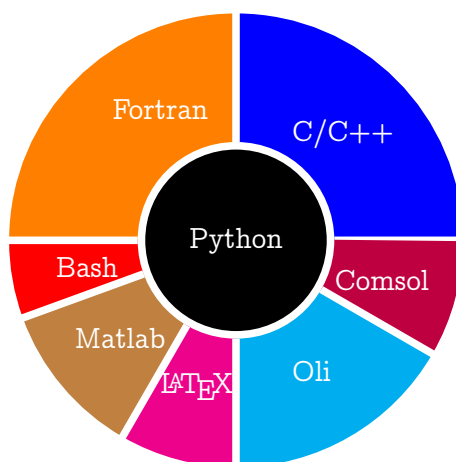
## Language Skills

Serbian ★★★★★

French ★★★★★

English ★★★★★

## Computer Skills



## PhDs - Technical Mentoring

S. El Euch, "Recherche d'une corrélation entre caractéristiques électrochimiques et relâchement en nickel de l'alliage 690 en milieu primaire d'un réacteur à eau pressurisée," Université Sorbonne, Paris, 2019.

F. Da Fonseca, "Etude du phénomène de shadow corrosion des alliages de zirconium dans les réacteurs à eau bouillante (REB)," Université de Grenoble Alpes, Grenoble, 2021.

J. Ben Mohamed, "Etude des mécanismes de Corrosion sous contrainte des alliages 600/690 en milieu secondaire des réacteurs REP en présence de plomb et de soufre.," Ecole Nationale Supérieure des Mines de Saint-Etienne, Saint-Etienne, 2021.

D. Peyret, "Mécanismes électrochimiques de la corrosion des alliages de type ZrNbX en condition simulées de réacteur à eau pressurisée," Université Sorbonne, Paris, 2023.

## Publications

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- [1] K. Abu Samk, M. Skocic, H. Zurob, and O. Bouaziz, „Microtruss Cellular Nanocomposites”, *TMS Annual Meeting*, vol. 1, pp. 337–344, May 2012.
- [2] M. Skocic, D. Kaczorowski, D. Perche, and J.-C. Nuguet, „Paper Number 83: High Temperature (Photo-)Electrochemical setup for Studying Zr-based and Ni-based Alloys in Simulated LWR Conditions”, in *NPC 2016*, Brighton, UK: Nuclear Institute, Oct. 3, 2016.
- [3] P. Barberis, M. Skocic, D. Kaczorowski, D. Perche, Y. Wouters, and K. Nowotka, „Shadow corrosion: Experiments and modeling”, *Journal of Nuclear Materials*, vol. 523, pp. 310–319, Sep. 1, 2019.
- [4] S. E. Euch, D. Bricault, H. Cachet, E. M. Sutter, M. T. Tran, V. Vivier, N. Engler, A. Marion, M. Skocic, and B. Huerta-Ortega, „Temperature dependence of the electrochemical behavior of the 690 Ni-base alloy between 25 and 325 °C”, *Electrochimica Acta*, vol. 317, pp. 509–520, Sep. 10, 2019.
- [5] N. Ribière, N. Engler, D. Brimbal, M. Skocic, É. Andrieu, C. Blanc, and L. Laffont, „Multi-scale characterization of the inner surface of as-received steam generator tubes and correlation with the ni release in primary water”, *Corrosion Science*, vol. 218, p. 111 205, 2023.
- [6] D. Peyret, D. Kaczorowski, M. Skocic, B. Tribollet, and V. Vivier, „Electrochemical and modelling study of zrnbo alloys aged under high temperature and high pressure pwr simulated conditions”, *Corrosion Science*, vol. 224, p. 111 505, 2023.