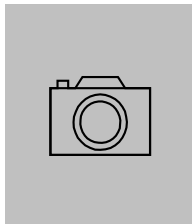






PERSONAL INFORMATION

CHAUMAT Valérie



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- 

POSITION Research Engineer

EDUCATION AND WORK EXPERIENCE

Fill in with your education and work experience:

Ph. D in materials science. 25 years of experience at CEA including mechanical alloying, hot isostatic pressing (5 years) and brazing (17 years). Expert in brazing, especially brazing of ceramics such as SiC base materials (sintered SiC, composites) and carbon based materials (composite C/C, pyrocarbon). Has developed brazing for homogenous brazing of SiC (SiC with SiC) until the stage of technology transfer to Airbus Defense and Space for space application. Has also developed brazing of ceramics for high temperature applications in the field of energy (SiC heat exchangers in European projects Bayhex, Hithex, Hycycles, SiC based ceramic components of GFR nuclear fuel elements, composite C/C to Cu for ITER) and in the field of aeronautics (French projects ARCOCE, SiCambre, Assistense).

Relevant communications

- O. Maillart., V. Chaumat., F. Hodaj, "Wetting and interfacial interactions in the CaO-Al₂O₃-SiO₂ / silicon carbide system. "Journal of Materials Science, (2010) 45:2126–2132
- O. Maillart., F. Hodaj, V. Chaumat, N. Eustathopoulos "Influence of oxygen partial pressure in the wetting of SiC by a Co-Si alloy. "Materials Science and Engineering. A. Vol. 495, no. 1-2, pp. 174-180. 15 Nov. 2008
- V. Chaumat, G. Roux "Multi-staged brazing using the BraSiC[®] process for the fabrication of very large and / or complex SiC based components" Loet 2013 – 10th International Conference – Brazing, High Temperature Brazing and Diffusion Bonding, 2013, Aachen, Allemagne.
- V. Chaumat, A. F. Audubert, "Brazing of SiC-SiC composites with a silicon based brazing alloy for high temperature applications. Influence of the atmosphere on interfacial reactivity". Euromat 2011 – 12-15 Septembre 2011, Montpellier, France.
- V. Chaumat, "Le brasage des céramiques et des composites à matrice céramique CMC". Journée Technique Liaison Céramique Métal organisée par le Pôle Européen de la Céramique. Limoges 5 Octobre 2016.

- 15 Patents on brazing: FR2984784, FR3015318, FR2996478, FR2993494, FR2984781, FR2957544, FR2957543, FR2957542, FR2949696, FR2936176, FR2935376, FR2907448, FR2912675, FR2894499, FR2831533.