



Patricia PATRIER MAS
(Dr, PhD in Geosciences)



Research laboratory :
IC2MP, UMR 7285 CNRS
UP - FR

Responsibilities inside the institution	Assistant Professor Member of various Research and Administrative committees Co-ordinator of the ASA research team
Responsibilities inside the consortium	Co-ordinator of the IMACS consortium, Contact person in UP
Address, contacts	Institution address : IC2MP – Université de Poitiers , CNRS – Bât. B8 – 5 rue Albert Turpain 86022 Poitiers cedex - FR Office Phone : (33)(0) 5 49 45 40 84 Fax : (33)(0) 5 49 45 42 41 E-mail : patricia.patrier@univ-poitiers.fr Personal webpage : http://hydrasa.labo.univ-poitiers.fr/
Research focus	Clay mineralogy, alteration petrography, hydrothermal systems, diagenesis. The main goal is to improve the use of the crystal properties of clay minerals (crystal structure, crystal chemistry and textural properties...) as petrogenetic indicators of the evolution of geological systems.
Teaching experience	<u>Post-graduate level</u> : Clay minerals in hydrothermal systems, clays and clay minerals, methods of characterisation of clay minerals (X-ray diffraction, electron microscopies) <u>Undergraduate level</u> : Mineralogy, geothermal and hydrothermal systems, field trips
International experience	Research collaborations : Department of Earth sciences of Chiba, Japan; Federal University of Rio Grande do Sul, Brazil (CAPES-COFECUB programme, PhD co-supervision); Academy of Science of Sofia, Bulgaria (DRI- CNRS programme); University of Helsinki, Finland (ANR programme), Saskatchewan Research Council, Canada.
Regular employment	Assistant Professor, University of Poitiers, FR
Studies	PhD (1991) – University: Poitiers, FR Habilitation à diriger des recherches – University: HDR., 2000, Poitiers University

**Five selected references and
Book section**

Patrier, P., Beaufort, D., Laverret, E., Bruneton, P. (2003) - High-grade diagenetic dickite and $2M_1$ illite from the middle Proterozoic Kombolgie Formation (Northern Territory, Australia). *Clays and Clay Minerals*, 51, 102-116.

Patrier P., Beaufort D., Mas A., Traineau H. (2003) - Surficial clay assemblage associated with the hydrothermal activity of Bouillante (Guadeloupe, French West Indies), *Journal of Volcanology and Geothermal Research*, 126, 143 – 156.

Laverret, E., Patrier, P., Beaufort, D., Kister, P., Quirt, D., Bruneton, P., Clauer, N. (2006) - Mineralogy and geochemistry of the host rocks alterations associated with the Shea Creek uranium deposit (West Athabasca Basin, Saskatchewan, Canada). Part 1 : spatial variation of illite properties. *Clays and Clay Minerals*, 54 (3).

Guisseau, D., Patrier, P., Beaufort, D., Girard, JP., Inoue, A., Sanjuan, B., Genter, A. and Lens, A. (2007) - Significance of the depth-related transition montmorillonite-beidellite in the geothermal field of Bouillante (Guadeloupe, Lesser Antilles). *American Mineralogist*, 92, 1800-1813.

Bongiolo E.M., Patrier Mas P., Mexias, A.S., Beaufort, D., Formoso, M.L.L. (2008) - Spatial and temporal evolution of hydrothermal alteration at Lavras do Sul (Brazil) : evidence from dioctahedral clay minerals. *Clays and Clay Minerals*, 56, 222 - 243.