UMI 3157 Water, Environment and Public Policy” CNRS / University of Arizona (Tucson, AZ, US) - EUROPEAN UNION SEVENTH FRAMEWORK PROGRAMME (FP7) - SWAN PROJECT : Sustainable Water ActioN

**Search for a doctoral and/or post-doctoral candidate (2 years each) to participate in SWAN’s Urban Water (Work Package 4) in:**

* **Remote Sensing ( Task 4.2)**
* **Water Governance (Tasks 4.1 and 4.3)**

SWAN is a four-year International Cooperation project granted by the European Commission (FP7-INCOLAB-2011). The Centre National de la Recherche Scientifique, has associated for the SWAN project : The University of Arizona, The University of West of England, Bristol, United Kingdom , Universidad de Sevilla, Departamento de Geografía Humana - Sevilla, Spain, Bulgarian Academy of Sciences, Sofia, Bulgaria and the UNESCO - Institute for Water Environment - Delft, Netherlands

The research program is organized in 4 scientific work packages (WP): 1.Water Resources Sustainability; 2. EU-US Water Governance; 3. Water Demand and **WP4.** **Urban Water.**

The overall objective of WP4 is to expand an integrated approach in water and urban development that will be used throughout the project. Specific objectives include:

* to identify key scientific and technological themes relevant to the field.
* to develop specific task on remote sensing and GIS on the area, the Tucson basin in a comparative perspective.

**Task 4-1:** Rethinking Urban Water: an interdisciplinary approach

The goal of this task is to promote an innovative approach of urban water using the watershed scale, as well as hydrological, human, economic, functional approaches.

**Task 4-2:** Developing a new understanding of urban water and our ability to develop an integrated physical and social modeling structure will require detailed knowledge of the relationships between changing urban land use/cover, population dynamics, and water supply and demand. Through the use of a set of surveys of the partners we will first establish the required resolutions. Once these resolution requirements are established we will create a set of prototype datasets utilizing available remote sensing, census, and water supply and demand data for 3 urban case studies. These urban datasets will be shared enabling subsequent modeling efforts with a consistent set of data for all partners to utilize.

**Task 4-3:** Urban Water in the framework of Stakeholders Workshops

WP4 will study and facilitate participatory and collaborative urban water planning and conflict resolution activities. It will prepare the specific urban data for these workshops to arrive at common definitions of problems, scenarios and management alternatives.

***DOSSIER de candidature A DEPOSER AVANT LE 30 JUIN 2013 en envoyant CV et lettre de motivation à:***

- Franck Poupeau, Directeur UMI3157 et Coordinateur SWAN

franckpoupeau@email.arizona.edu

- Graciela Schneier-Madanes, directeur de recherche CNRS(é), SWAN WP4: graciela.schneier@univ-paris3.fr