

# EURO-AQUAE - Euro Hydro-Informatics & Water Management

2004-0005 / Duration: 2 years

## Summary description:

Education and training into modern development of water management strategies and hydroinformatics must include an understanding about a worldwide diversity of situations. The partnership, in different regions, with excellent and relevant institutions - able to play a major role at the regional dimension and the most recognized into the water field - is a key priority and has been foreseen by the Euro-Aquae consortium at the initial state of the master course.

The objectives of the partnership are:

- integration and understanding by the students of the worldwide dimension of the water management,
- extension of existing contents to specific specialities and into specific regions of the world,
- support and improvement of the capacity of education and training of the partner institutions,
- to improve the capacity of the Euro-Aquae consortium with additional competences and expertise,
- to ensure activities and development of the Euro-Aquae consortium in each region of the world at a continental scale,
- to build a cooperation network at the worldwide scale to support research and professional training of European students.

The partnership is defined for 2 years between the 5 following european institutions:

University of Nice – Sophia Antipolis (UNSA), Brandenburg University of Technology Cottbus (BTUC), Budapest University of Technology and Economics (BME), Technical University of Catalonia (UPC), Newcastle University (NU) and the 4 following institutions:

National University of Singapore (NUS), Swiss Federal Institute of Technology Lausanne (EPFL) also acting as coordinator representative of Swiss Federal Institute of Technology Zurich (ETZH), Indian Institute of Technology Madras (IIT), National University of the Riverside (UNL - Argentina). The partnership provide a general framework for European students and scholars exchanges between Euro- Aquae consortium members and partners.

Each institution of the partnership offers modules which are identified as original options (ocean engineering, fluvial hydraulics and water management in different environments) during the 3rd semester of Euro-Aquae master course or research/project activities during the 4th semester. Offered modules replace the standard modules of Euro-Aquae master course and are equivalent to 10 to 12 ECTS according to a signed pedagogic contract (learning agreement). The research/project work (12 ECTS) of the 4th semester can be carried out jointly with one of the 4 partner institutions and one Euro-Aquae member institution. European teachers mobility contributes to reinforce the hydroinformatics master courses in partner institutions, extends research topics and activities, and widely promotes concepts and good practices for sustainable water management. 15 grants of 3 months length are offered each year to all the European students selected to participate in the Euro-Aquae master course. The initial selection process used for Euro-Aquae is based on excellence of candidates and limited to 15 participants per generation. 9 European scholars spend in total 9 months/work with the 4 institutions to teach 12 different modules and are involved into research activities. They play an active role into hydroinformatics curricula development, research and cooperation. Modules and works are carried out in English and in national languages. The partnership allows to develop a worldwide network on higher education and research into hydroinformatics and water management fully recognized by the professionals, and shared with them.

## European Partners:

- (1) University of Nice - Sophia Antipolis (FR)
- (2) Brandenburg Technical University Cottbus (DE)
- (3) Polytechnic University of Catalonia (ES)
- (4) Budapest University of Technology & Economics (HU)
- (5) University of Newcastle Upon Tyne (UK)

## Third-Countries Partner Institutions:

- (1) Tropical Marine Science Institute National University of Singapore (Singapore)
- (2) Indian Institute of Technology Madras (India)
- (3) Swiss Federal Institute of Technology Lausanne (Switzerland)

- (4) Swiss Federal Institute of Technology Zurich (Switzerland)  
(5) Faculty of Engineering And Water Sciences - National University of Riverside (AR)

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