**ORANGE Didier**

Date of birth: 31/05/61

Grade: CR1 Institution: IRD

UMR 7618-BIOEMCO, Univ. Paris 6, Paris 7, Paris 12

SFRI, Dong Ngac, Tu Liem, Hanoi (Vietnam)

HDR Yes **X** No CNU section :

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ENGLISH: Excellent, **X** Good, Average, Weak

TEACHING ACTIVITIES IN USTH:

Lecturer in WE-05, 32, 35

COORDINATION OF A TEACHING UNIT? **X** Yes TU #: **32** No

EDUCATION: PhD Thesis: 1990, univ. Strasbourg, Hydrologie et Géochimie

Engineer diploma: 1986, ESEM, univ. Orléans, Géologie, Hydrogéologie et Matériaux

MAIN RESEARCH EXPERIENCES AND RESEARCH THEMES:

I started my research work with IRD (ORSTOM at this time) in Senegal and Guinea from 1985 to 1989 on river

matter transport and chemical erosion linked to the rainfall geochemistry impacted by aeolian dust. After my PhD, I

moved to RCA (Centralafrican Republique, 1992-1995) to work on the hydrological survey and erosion assessment

of the Ubangui River for IRD (1996-1997). I was the coordinator of the multidisciplinary programme GIHREX in

Mali on the inner Niger River Delta (posted at Bamako from 1997 to 2001). Then I move to the MSEC project

(Management of Soil Erosion Consortium) from IWMI/IRD where I am the coordinator in Vietnam from 2002.

This project addresses the coupled scientific questions concerning the appropriation of a best bet agricultural

practice by the stakeholders in relationship with the best option appropriated to the biophysical environment. I have

experience of working with a wide range of techniques (cultures, mesocosms, in situ) and in a wide range of and

countries (Senegal, RCA, Cameroun, Guinea, Mali, Vietnam, Laos, Thailand), both alone and as part of a group,

either as a simple participant or as the coordinator of the program. The results of my research have been published

in 30 articles published in journals of Rank A, as well as chief organizer of 2 international seminar (Mali in 2000,

Vietnam in 2007) and 3 books edited, one TV film and TV programmes. I am regularly contacted to conduct

reviews for high quality scientific journals. From 2007, I was nominated the representative of IWMI in Vietnam.

*Research topics:* The central theme of my research is the study of the runoff generation in relationship with the

landuse change under climate change scenarios to promote the hydrological modelling as a tool of integrated

management of water and soil resources. I look mainly matter transport by the waters (from the surface runoff until

the large rivers) and on the other side the impact of the landscape on the human decision.

TEACHING EXPERIENCES:

Punctual lecturers or conference at the universities (Dakar, Paris, Bamako, Hanoi)

Supervision of more than 10 PhD students, near than 100 students in master.

MAIN RESPONSABILITIES:

Head of the IRD Laboratory of Hydrology at Bangui (RCA) from 1992 to 1995

Expert for UICN in environment and ecology in West Africa.

Head of the GIHREX research project from IRD in Mali from 1997 to 2001

Coordinator of the MSEC research team in Vietnam from 2002

Representative of IWMI in Vietnam from 2007 to 2010.

RECENT PUBLICATIONS (5 max, < 5 years):

Orange D., Dardenne L., Geier P., Nguyen Duy Phuong, Jouquet P., Tran Duc Toan, 2009. Using a biogas scheme to control

soil erosion on sloping lands, North Vietnam. ***Mountain Forum Bulletin***, January: 52-55.

Clement F.\*, Orange D., Williams M., Mulley C., Epprecht M., 2009. Drivers of afforestation in Northern Vietnam: Assessing

local variations using geographically weighted regression. ***Applied Geography***, doi:10.1016/j.apgeog.2009.01.003: 1-16.

Luu Thi Nguyet Minh\*, Garnier J., Billen G., Orange D., Nemery J., Le Thi Phuong Quynh, Tran Hong Thai, Le Lan Anh,

2010. Hydrological regime and water budget of the Red River delta (Northern Vietnam). ***Asian Earth Science J.***, 37: 219-

228.

Dang Thi Ha\*, Coynel A., Orange D., Blanc G., Etcheber H., Le Lan Anh, 2010. Long-term monitoring (1960-2008) of the

river-sediment transport in the Red River Watershed (Vietnam): temporal variability and dam-reservoir impact. ***Sciences of***

***the Total Environment***, 408 (20): 4654-4664. ISSN 0048-9697.