nireas International Water Research Center

University of Cyprus

NIREAS SPEAKER SERIES

WHEN IDEAS FLOW

Tuesday, December 6, 2011

16:30 | Social Facilities Center, Building 7, Presentations Room
University of Cyprus

Dr. Xavier Albets

Senior Researcher of Nireas-IWRC

Saltwater intrusion of coastal aquifers

Development of an integrated numerical tool for its prediction and control

Brief CV

Xavier Albets-Chico is a graduate from the Polytechnic University of Catalonia (Barcelona, Catalonia, Spain) as a Thermo-Mechanical Engineer (2001). He pursued an MSc of Thermal Engineering and Energy Technology (2002) and a PhD on Thermal Engineering (2006) at the Heat and Mass Transfer Technological Center of the aforementioned university.

His research work was based in the CFD implementation and developing of RANS two-equation turbulence models for both natural and forced convective turbulent flows. In 2006 he joined as a Post-Doc the Dynamics of conductive flows group at ULB, Brussels, Belgium; where his main work was based in the analysis and developing of finite volume techniques for the simulation of liquid-metal flow under the influence of strong-magnetic fields (high Ha numbers), fringing magnetic fields and DNS of turbulence interaction at relevant parameters for nuclear fusion applications.

In 2008 he became an associate researcher at the Computational Science Laboratory UCY-CompSci of the Mechanical and Manufacturing Engineering of the University of Cyprus, where he has actively participated in several projects such as liquid metal flow simulations for Nuclear Fusion applications and the development of turbulent atmospheric dispersion models, to name a few.

Since January 2011 he is the researcher in charge of the development of a numerical tool for the monitoring and prediction of saltwater intrusion of coastal aquifers in the water research center (NIREAS) of the University of Cyprus.

Xavier Albets-Chico has published more than 20 articles in international conferences and scientific journals. He is a reviewer of several scientific journals such as Physics of Fluids, Fusion Science and Technology and Solar Energy. His main research interests are based on the ability of numerical methods to understand nature and their potentiality to produce knowledge with a high social impact.

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