"ETUDES EXPERIMENTALES EN HYDROLOGIE (URBAINE ET RURAL) MENEES PAR L'INSTITUT DE RECHERCHES HYDRAULIQUES DE L'UNIVERSITÉ FÉDERAL DE RIO GRANDE DO SUL (À PORTO ALEGRE, BRÉSIL)"

Dr. Joel Avruch GOLDENFUM
In leave of absence (sabbatical) from IPH to perform post-doctoral research at INSA-LYON, France

The Institute of Hydraulic Research, of the Federal University of Rio Grande do Sul (IPH – UFRGS) is now 50 years old. Nowadays, IPH has a staff of 40 teachers/researchers and more than 70 support staff, in a physical area of over 12000m^2. The range of activities of the IPH covers teaching at high school level (Technical Course in Hydrology), undergraduate level (over 40 disciplines in Architecture, Agronomy, Geology and the Engineering courses) and graduate level (Masters and Doctoral students in Water Resources and Sanitary and Environmental Engineering), research (experimental and numerical modelling studies), extension and service to the community (short-duration courses and work carried out in the community at large) for different segments of water sciences: Irrigation and Drainage, Groundwater, Erosion and Sedimentation, Environmental Engineering, Hydrology, Hydraulics and Hydromechanics, Water Resource Planning and Management, and Remote Sensing applied to Water Resources.

This presentation describes some of the experimental studies performed by the Hydrology Group, in two main projects:

Urban Hydrology – The Urban Hydrology Research Group of IPH started its activities in 1979. Among other urban hydrology studies, experimental researches with compensatory devices as elements of urban drainage are now being performed at IPH. The following experiments will be presented: 2 infiltration trenches; a micro-reservoir (on-site detention); rain simulation over permeable pavements; and a 300 m^2 parking lot, allowing intensive and continuous monitoring (water quantity and quality data) of two different types of pervious pavements (asphalt and concrete garden blocks, filled with grass).

Potiribu Project - The Potiribu Catchment was identified as representative of the basaltic plateau of Rio Grande do Sul State, Brazil. The IPH has been monitoring a set of nested basins (catchments of 12,5 ha, 1,1 km^2, 19,5 km^2, 100 km^2 and 563 km^2) in the Potiribu River Catchment, since 1989 (initially in cooperation with ORSTOM). The study of spatial and temporal variability of hydrossedimentological processes is being performed by the collection and analysis of data from rainfall data gauges, water level and suspended load monitoring in rivers, rainfall simulation, measurements of gully erosion, water balance studies in lysimeters, soil contamination by agricultural products, and spatial variability in soil water content. The effects of the change in cultural practices, from conventional to direct sowing are also evaluated.

OBS.: cette résume est an anglais, mais la présentation sera en français

JOEL AVRUCH GOLDENFUM - RESUMED CV

POSITION:
Professor Adjunto at Universidade Federal do Rio Grande do Sul (UFRGS), BRAZIL.

In leave of absence (sabbatical) to perform post-doctoral studies during one year (Oct/2003 to Sept/2004) at the INSTITUT NATIONAL DES SCIENCES APPLIQUEES DE LYON (INSA-LYON), France, under the following subject: « Etude expérimentale de dispositifs d'infiltration pour le contrôle des écoulements superficiels en milieu urbain : cas des tranchées drainantes et des bassins d'infiltration »

GRADUATION: Civil Engineering, UFRGS, Porto Alegre, BRAZIL, dez/1983.

MSc: Civil Engineering/Water Resources. Instituto de Pesquisas Hidráulicas (IPH) at the Universidade Federal do Rio Grande do Sul (UFRGS), jul/1991.

PhD: Civil Engineering/Hidrology, Imperial College of Science, Technology and Medicine, University of London, Great Britain, May/1996.

PROFISSIONAL AND ACADEMICAL EXPERIENCE:
Field of work: Civil Engineering – Hydrological Modelling, Hydrological Regionalisation, Flood Control, Urban Hydrology, Unsaturated Flow, Uncertainty in Hydrossedimentological Processes

Professor at the Departament of Hidromechanics and Hydrology of the IPH-UFRGS (Instituto de Pesquisas Hidrúlicas of the Universidade Federal do Rio Grande do Sul), since December/89 at Undergrad and PostGrad levels.

Revisor of the Revista Brasileira de Recursos Hídricos and of the Journal of Hydrology.

Regional Representative of ABRH (Associação Brasileira de Recursos Hídricos) in Rio Grande do Sul State (April1996 to September/2003).

Member of the ABRH Urban Drainage Committee.

Consultant Engineer of 05 private companies and national agencies.

Engineer at PETROBRÁS (March/84 to March/85).

Engineer at Magna Engenharia Ltda. (April/85 to March/88).

SCIENTIFIC AND TECHNICAL PRODUCTION
05 papers in scientific journals
34 papers presented in scientific meetings
03 technical books published
11 chapters published in technical books
02 technical books organised
03 softwares developed
12 technical reports
05 MSc Supervisions concluded
04 PhD Supervision concluded
65 participations as MSc or PhD examinor

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