



Baseflow for Design flood estimation (ARR Project 7)

Speaker: Rachel Brown, SKM

Abstract:

An important aspect of flow estimation as distinct from flood estimation is the relative importance of the baseflow component of a hydrograph. Whereas the direct runoff component is the most significant component of a hydrograph for flood estimation and the baseflow component is neglected, this is not always the case for general flow estimation. In recent years the need to estimate small flood flows (in-bank floods) has arisen and, therefore, estimation of baseflow needs to be considered within Australian Rainfall and Runoff.

This project focuses on the development of appropriate techniques for estimating the baseflow component of a hydrograph. It is expected that both statistical and deterministic approaches be developed to meet the various needs of the industry.

This project will result only in preliminary guidance in a form suitable for inclusion in Australian Rainfall and Runoff.

Speaker: Rachel is the SKM project Manger of ARR Project 7 (Baseflow for design flood estimation). Rachel is a hydrologist with seven years of experience and has been involved in a range of hydrologic modelling studies considering catchment processes. Rachel undertook the bulk of the analysis for a Natural Heritage Trust study into groundwater and surface water interaction, which initially involved four case studies in a range of climates across Australia, followed by development of a user-friendly tool (*Basejumper*) for baseflow separation and baseflow trend analysis.

Thursday 26th May 2010

Time: 5:30pm for 6:00pm

Venue: UTS Building 2, Room 537

Enter via UTS Broadway entrance and follow signage on the day

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