VOLUME 3

DUBLIN 1987

V.F.B. de Mello

There is a risk that we may over-simplify our models with respect to both natural and, man-made slopes. I have also encountered the situation where high intensity rainfall suddenly cause a large increase in the number of landslides, and the change may come towards the end of prolonged periods of rainfall.

With regard to the role of suction, in some of the areas mentioned in the discussion, suction may be an effect. Generally it appears likely that the suctions will be removed by natural conditions of relatively small rainfall, over a continuous series of days, and therefore it is not a triggering factor. A further possible triggering factor is what one may call cleft water pressures in the macropores and cracks of the soil.

simplification of the mental model of the D'Arcy oped in them. The entire flow net changes and may most of the analysis of natural slope failures. flow net which is the culprit at the present time in open, and hydrostatic water pressures will be develdifference between rainfall and run-off. The second in localised areas. I think that it is the overlead to the sudden triggering of numerous failures brittle on the tensile state, cracks and micropores a satisfactory model. is exceeded, the conventional flow net is no longer point is that when a certain degree of infiltration into the ground may matter. Infiltration is the fall which is significant, but that the infiltration Our studies have shown that it is not merely rain-Since the material is more