



Watercom
DRAINS

DRAINS Advanced Workshop

with additional material on Property Drainage Systems

Benjamin Kus

Kustom Engineering Pty Ltd

Hossein Ansari

Kustom Engineering Pty Ltd

2019



TENTATIVE PROGRAM

We have re-developing the DRAINS Advanced workshop to better reflect everyday problems that drainage engineers face. Our aim was to create practical examples, case studies and solutions for DRAINS users to utilise in solving every day complex situations modelled in DRAINS and data exchanges with other programs.

The following is a tentative program, that reflects the topics we are proposing to present during the workshop. The notes supplied during the workshop will also include extensive additional topics and materials from the previous DRAINS Advanced Workshop and will continue to include our Property Drainage Workshop material.

- 10.45 am Registration
- 11.00 am Investigation of drainage problems in an established areas
Using the premium hydraulic model to simulate complex overland flows
Modelling recorded rainfall records and probable maximum precipitation
- 12.30 pm Lunch
- 1.15 pm Flood affected properties
Simulating large catchment areas using the Storage Network Routing Module (SNRM – RAFTS hydrology)
The role of GIS and 2D flood modelling
Extracting data from DRAINS to use with 2D flood models
- 3.00 pm Afternoon Tea
- 3.15 pm Modelling of complex detention basins, including considerations for:
Integrating GPT and water treatment,
Trunk Drainage simulation paired with Storage Network Routing hydrological modelling
- 4.45 pm Q & A
- 5.00 pm Close

Note:

The main focus of the workshop is the investigation of drainage system behaviour as part of designs or drainage problem assessments.