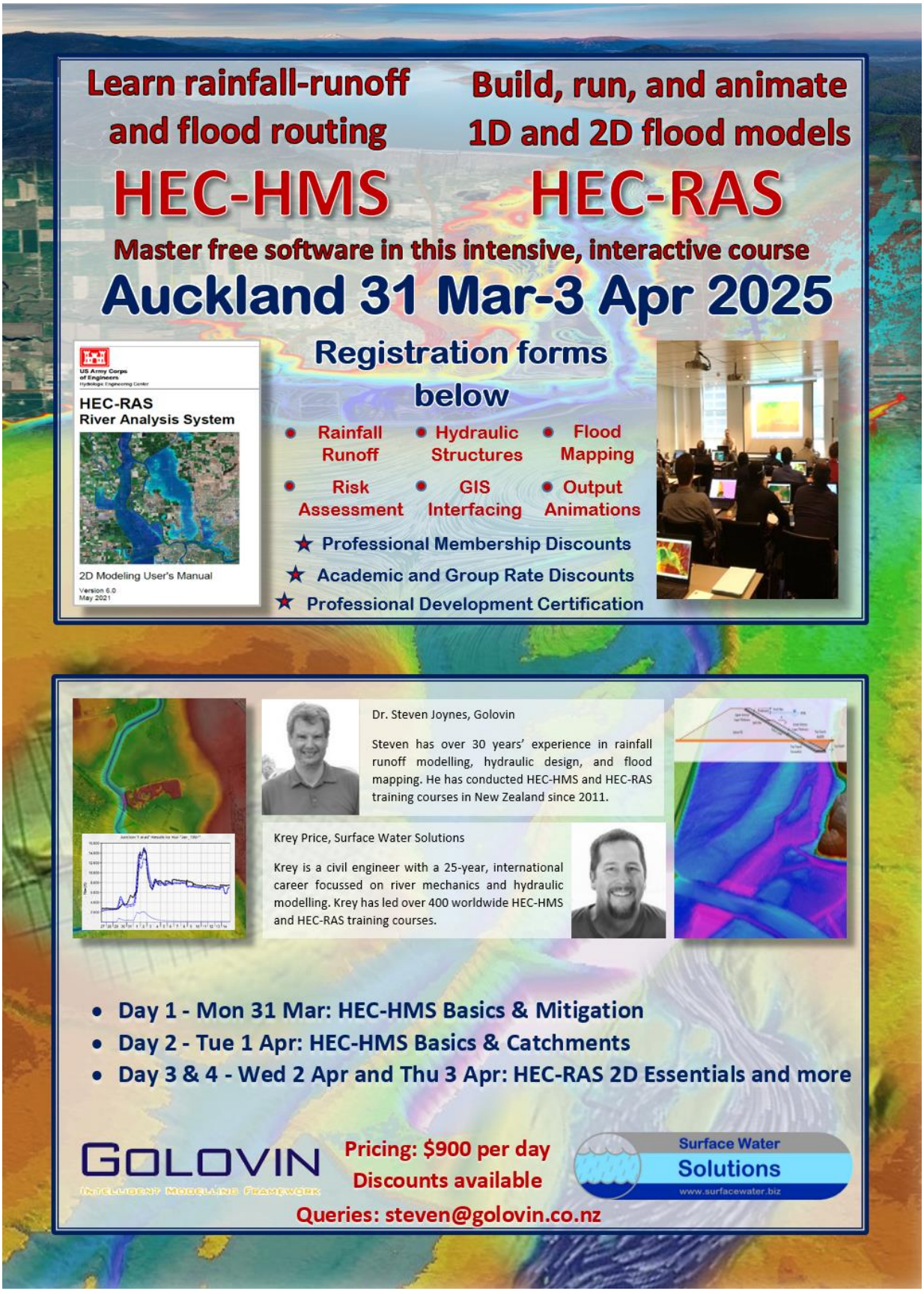
GOLOVIN
INTELLIGENT MODELLING FRAMEWORK

Surface Water Solutions
www.surfacewater.biz

Attention water resources professionals, regulators, consultants, academics, and practitioners: Save the dates for an intensive, interactive course covering the full range of hydrology and hydraulics:




## Schedule and pricing:

| Day | Course | Price +GST |
|---|---|---|
| 1 | HEC_HMS - basics & mitigation | $ 900 |
| 2 | HEC-HMS - basic & catchments | $ 900 |
| 3 & 4 | HEC-RAS - 2D essentials and more | $ 1,800 |

Note: Registration discounts are available for multiple courses, multiple registrants from a single organisation, and members of professional organisations (NZSOLD, NZHS, and Engineering NZ). Previous course attendees can qualify for additional discounts. Details must be provided when requesting a discount.

Please direct pricing enquiries to steven@golovin.co.nz.

# Contents:

**DAY 1 Monday 31 March 2026:**
**HEC-HMS – basics & mitigation**

- Review of TP108
- Overview of Precipitation-Runoff Processes
- Basin Precipitation
- Rainfall Loss Rates Computation
- Channel Routing
- Multiple catchment and stream modelling
- Structures
- Basins
- Mitigation of peak flows
- Conducting simulation runs

**DAY 2 Tuesday 1 April 2025:**
**HEC-HMS – basics and catchments**

- Overview of Precipitation-Runoff Processes
- Basin Precipitation
- Rainfall Loss Rates Computation
- Using GIS tools in HEC-HMS
- Model calibration
- Using 2D Flow in HEC-HMS
- Working with Depth-Area Analysis
- Working with Optimisation Trials
- Working with Time Series Results
- Exporting results for use in HEC-RAS
- Creating a basin map

**DAY 3 and 4 Wednesday 3 and Thursday 4 March 2025**

**HEC-RAS – 2D essentials and more**

- File management with HEC-RAS
- RAS Mapper and GIS interfacing
- Importing terrain files
- Setting up a 1D network
- Entering reach data
- Entering cross sectional data
- Entering roughness data
- Junctions
- Bridges and culverts
- Steady and unsteady flow
- Executing plan files
- Floodplain analysis
- Interpreting and checking results
- Computational mesh generation
- Creating 2D areas
- Hydrologic boundary conditions
- Time step selection
- Entering unsteady flow data
- Computational options and tolerances
- Setting up plan files
- Adding internal structures
- Breaching dams and lateral weirs
- Viewing and exporting in RAS Mapper
- Troubleshooting models
- Calibrating models
- Building your own model from scratch

All course days run from 9.00 am to 4:30 pm

Certification of professional development hours available to all attendees

## Location:

Quality Hotel Parnell
10/20 Gladstone Road
Parnell, Auckland 1052
+64 20 7365 0519

## Registration Details

Organisation _____

Postal Address _____

Email contact _____

Dietary requirements _____

| Course | Date | Attendees Name | Fee ($) |
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| | | | |
| | Discounts | | |
| | Sub-total | | |
| | GST | | |
| | **TOTAL TO PAY** | | |

## Method of Payment

[ ] Invoice Me (purchase order or reference required)

Register by email to steven@golovin.co.nz

## Terms and Conditions

1. Registration is by 1st in - 1st paid basis.
2. If you cannot attend a course, a substitute participant is welcome.
3. If you withdraw from a course in writing or email more than 20 working days prior to the course, you will receive a full refund less a $50 administration fee.
4. If you withdraw with 10 working days' notice, you will receive a 50% refund.
5. After this, if you do not attend the course, there is no refund.
6. If a course is rescheduled or cancelled due to lack of numbers, or any other valid reason, you will be advised 10 working days before the course and your course fee will be refunded in full.
7. Participants are responsible for their own travel/accommodation bookings and no compensation will be made should the course be rescheduled or cancelled.
8. Participants must bring their own laptop. Install HEC-HMS and/or HEC-RAS and test the software prior to attending the course. Download links will be provided to all registrants.
9. To hire a laptop pre-loaded with all required software and tutorials for $50 per day, please contact steven@golovin.co.nz.

Authorisation Signature

Name _____

Signature _____ Date _____