



2019 USA Training Workshop

To support our 2019 release, the TUFLOW team will be running a 'hands on' introductory TUFLOW training.

TUFLOW is a world-leading, powerful computational engine for simulating the risk of flooding from rivers, sea, surface water inundation and urban drainage. It is the most efficient Shallow Water Equation (SWE) solver on the market. It is a fully integrated 1D and 2D hydrodynamic simulation package, capable of accurately estimating flow conditions both above and below ground in a single model. It has been successfully applied world-wide to a diverse range of flood management applications, from coastal storm tide inundation to integrated catchment scale models and detailed urban drainage pipe networks.

TUFLOW is currently FEMA certified in Region 3 and within the Ventura County. TUFLOW use and support is growing in the USA more broadly year after year. More local and regional FEMA certifications expected as more agencies get to experience the benefits associated with TUFLOW.



To register please send a completed registration form (last page) to training@tuflow.com.

Who Should Attend

The workshop/training session is designed for engineers, scientists and others involved in water and environmental management.

Whether you are new to TUFLOW or a long term user, our training provides a cost-effective way to develop or enhance your understanding of TUFLOW's functionality and your capabilities and efficiency as a modeler. Our training aims to ensure you get the most out of your software.

It is also an excellent opportunity to network and discuss TUFLOW related applications with other modelers and environmental specialists working in the flood risk management industry.

Training Overview

The course includes content on TUFLOW theory, followed by practical model creation and result viewing exercises. The training is run over three days to allow attendees to consolidate the core hydraulic modeling concepts whilst providing a wide range of practical applications essential for new and experienced modelers.

Content includes hands-on experience with the high performance HPC solver, a look at new 2019 TUFLOW features including our exciting new HPC Quad-Tree solver, and advanced use of our QGIS tools for workflow efficiency, animations, and result viewing.

Locations, Dates and Costs

The 3-day training workshop will be hosted at the Ventura County Public Works Agency. To ensure a personal service and facilitate participation, training sessions will be limited to a maximum of 10 attendees.

**1957 Eastman Ave
Suite A, L#1100
Ventura, California**

September 10th - 12th

Costs for each workshop are outlined below. Multiple attendee discounts (from the same organization) are available.

1 st Attendee	\$1,500 per person
Additional Attendees	\$1,250 per person

Preparation

Registered attendees will be provided detailed information about the host, location, and workshop content prior to the event. The training workshop itinerary is provided on the following page.

Attendees will be required to provide their own computers, all other training material such as model data will be provided on the day.

Meet the Trainers

Chris Huxley will be leading the USA training workshop. Chris has over 15 years' TUFLOW experience. During this time, he has fulfilled a wide range of roles in the TUFLOW software team, including: software benchmarking, TUFLOW user support, code development and TUFLOW training. In addition to these software tasks Chris also uses TUFLOW daily for consulting applications. This combination of knowledge and experience means he can provide practical training, offering unparalleled insight into the best practice application of TUFLOW for all types of users.



Chris Huxley

Ellis Symons is the Software Training and GIS Visualisation Lead and will be joining Chris in the U.S. this year to help facilitate the training. Ellis has over 8 years' experience in the flood consulting industry and has an in-depth knowledge of the software from practical application on projects through to support, training, benchmarking, and code development in TUFLOW and peripheral software. Ellis' experience in flood projects ranging from large rural floodplains to urban catchments with extensive pipe networks gives him a great understanding of the common modeling challenges and how best to overcome them using TUFLOW.



Ellis Symons

Collectively Chris and Ellis have a wealth of experience and knowledge in all aspects of TUFLOW and hydraulic modeling. Don't miss out on this unique opportunity to learn TUFLOW directly from the team who develop the software.

TUFLOW Training Workshop Agenda

The TUFLOW training course agenda is provided below. Our training is run using an open and interactive format where attendees are encouraged to contribute throughout the sessions. The training is flexible and the small class size will allow for some deviation if there are specific features of TUFLOW that participants wish to discuss further.

Day	Time	Activity
Day 1	09:00 – 09:30	Registration and Welcome
	09:30 – 10:30	Session 1 – TUFLOW Overview and Introduction
	10:30 – 10:45	Morning Break
	10:45 – 11:30	Session 2 – 2D Model Theory
	11:30 – 12:30	Session 3 – 2D Model Development
	12:30 – 1:30	Lunch
	1:30 – 2:30	Session 3 – 2D Model Development (continued)
	2:30 – 3:30	Session 4 – Viewing Results
	3:30 – 3:45	Afternoon Break
	3:45 – 4:30	Session 5 – 2D Topographic Modification
	4:30 – 5:00	Session 6 – Impact Assessment and Mapping

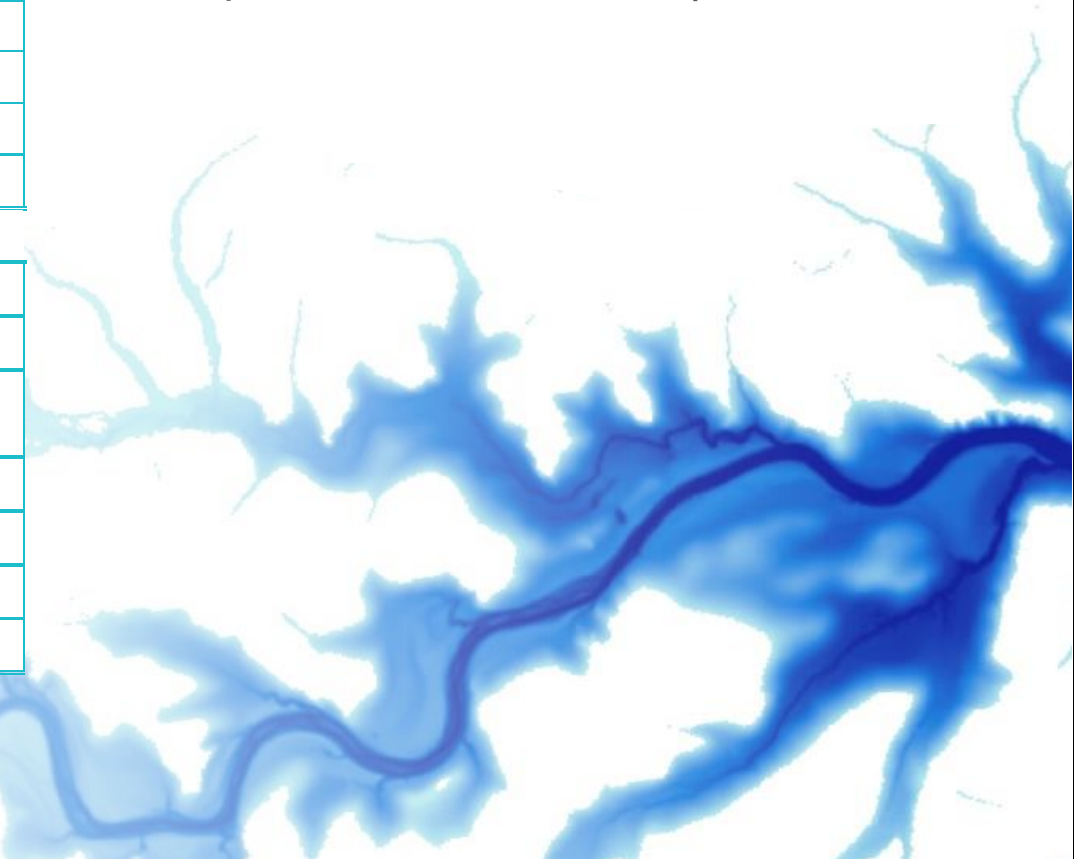
“I found the session to be very informative and pitched at just the right technical level. I feel the example models will prove to be a very useful resource going forward. I thought the trainers did a great job presenting the content and fielding questions.”

“Very informative and great introduction. I feel I now have the skills to develop a simple model and know where to look to continue developing my knowledge. Lovely friendly instructors who were very encouraging and helpful.”

Day 2	09:00 – 10:30	Session 7 – Embedding 1D Structures
	10:30 – 10:45	Morning Break
	10:45 – 12:30	Session 8 – Modeling Bridges
	12:30 – 1:30	Lunch
	1:30 – 3:30	Session 9 – Integrated Catchment Modeling - Modeling Underground Stormwater Pipes
	3:30 – 3:45	Afternoon Break
	3:45 – 4:30	Session 10 – Modeling Underground Stormwater Pipes (continued)
	4:30 – 5:00	Session 11 – Reviewing Results of Underground Pipes

“Excellent workshop. The class size was good. It allowed discussion, while not being too large. There was also a good mixture of presentation, discussion and examples.”

Day 3	09:00 – 10:30	Session 12 – TUFLOW HPC (GPU Acceleration)
	10:30 – 10:45	Morning Break
	10:45 – 12:30	Session 13 – TUFLOW HPC Model Performance Review, Optimisation and Best Practice Model Design
	12:30 – 1:30	Lunch
	1:30 – 3:30	Session 14 – Scenario and Event Management in TUFLOW
	3:30 – 3:45	Afternoon Break
	3:45 – 5:00	Session 15 – Workshop Recap / Overview



Registration and Payment

Please complete and send this section to BMT. Scan and e-mail to training@tufLOW.com, or post to:

BMT
Attn: TUFLOW Training
Level 8, 200 Creek Street
Brisbane, Queensland, 4000 Australia
ABN 54 010 830 421
Tel: + 61 7 3831 6744 (Amy Smith can help with enquires)

Title First Name Surname

Organisation.....

Address

.....

.....

Postcode..... Telephone.....

Email.....

First Attendee:

Title First Name Surname

Additional Attendees:

Title First Name Surname

Title First Name Surname

Title First Name Surname

Title First Name Surname

Payment Amount:

Payment method: Cheque (please attach) Mastercard

Purchase Order (please attach) Visa

Credit Card No:

Expiry Date (MM/YY): /

Name on Card:

Signature: