

**ANUGA Workshop Programme  
16-17 September 2008**

**Day 1**

**9:30 -10:30**      **Special pre workshop presentation (G.094)**  
Earthquake and tsunami losses for the Wellington region.  
William Power and Jim Cousins  
Institute of Geological and Nuclear Sciences, New Zealand

**Workshop venue: Room G071, 3D Viz Lab**

**10:30 – 11:00**                      **Morning tea**

**11:00 – 11:20**                      **Welcome and workshop objectives**  
**Round table introductions**

**11:20 – 13:00**                      **General presentations**

11:20  
ANUGA - An open source hydrodynamic modelling library.  
Ole Nielsen, Geoscience Australia

11:40  
ANUGA – Underlying algorithms and potential future development.  
Stephen Roberts, Australian National University

12:00  
How fine a mesh is fine enough? Convergence study of an ANUGA inundation  
model.  
Leharne Fountain, Geoscience Australia

12:20  
Parallelising ANUGA.  
Stephen Roberts, Australian National University

**12:40 – 13:40**                      **Lunch**

**13:40 – 15:00**                      **Tsunami presentations**

13:40

Building good inundation models: Data preparation and validation in ANUGA.  
Kristy van Putten, Geoscience Australia

14:00

ANUGA in action: Tsunami impact modelling for Australia.  
Jane Sexton, Geoscience Australia

14:20

Inundation modeling due to hypothetical tsunami scenarios for the city of Padang,  
West Sumatra within "Last-mile – Evacuation".  
Nils Goseberg, University of Hannover, Germany

14:40

What are the key factors that determine the extent of tsunami inundation?  
Investigations using ANUGA.  
Biljana Lukovic, Institute of Geological and Nuclear Sciences, New Zealand

**15:00 – 15:50**                      **Finalising answers to tsunami questionnaire**  
**Afternoon tea**

**15:50 – 17:30**                      **General tsunami discussion**

Future development of ANUGA for tsunami modelling (short/medium/long term).

**17:30**                                      **Day 1 close**

**ANUGA Workshop Program**  
**Day 2 Room G071, 3D Viz Lab**

**9:00 – 10:20**

**Flood presentations**

9:00

Showing results from flood studies at Wollongong.

Petar Milevski, Wollongong City Council

9.20

Extending the ANUGA framework with flood modelling capabilities.

Rudy van Drie, Shellharbour City Council

9:40

Experience in applying and calibrating ANUGA as a riverine flood model.

Ted Ribgy, Rienco Consulting

10:00

Validating ANUGA for riverine flood modelling.

Rudy van Drie, Shellharbour City Council

**10:20 – 11:10**

**Finalising answers to flood questionnaire**  
**Morning tea**

**11:10 – 12:40**

**General flood discussion**

Future development of ANUGA for flood modelling (short/medium/long term).  
Consideration of Australian Rainfall and Runoff Project 15 questionnaire.

**12:40 – 13:50**

**Finalising answers to other hazards questionnaire**  
**Lunch**

**13:50 – 15:10**

**Development for other hazards - general discussion**

Future development of ANUGA for storm surge modelling, coastal erosion modelling, other?

**15:10 – 15:50**

**Afternoon tea**

**15:50 – 17:00**

**Cross-cutting themes and development needs.**  
**Prioritisation of recommendations.**  
**The Way Forward.**

**17:00 – 17:10**

**Inauguration of the ANUGA Special Interest Group**

**17.10**

**Workshop close**