



Stormwater

INDUSTRY ASSOCIATION
OF QUEENSLAND INC.
IA. 173 66

Proudly Presents

Progress in the Development of a Real Time Flood Forecasting System

28 February 2008

Presented by:

Allan Herring: Principal Engineer Waterways and Assets - PRSC
Steve Roso: Senior Engineer, Surface Water – Worley Parsons
David McConnell: Civil Engineer

Progress in the Development of a Real Time Flood Forecasting System

Talk outline:

The Bureau of Meteorology traditionally provides flood forecasting advice however this does not extend to rivers and streams with response times of less than 12 hours. At the same time there is an increasing expectation for Councils to develop emergency procedures and response plans to ensure community safety during flood for smaller catchments. The Pine River is a medium sized coastal river located immediately to the north of Brisbane with a total catchment area of 700 Km². This presentation will cover the steps taken by Pine Rivers Shire Council to develop a flash flood warning system. Including:

- Collection of rainfall and flood data
- Simulation of flood behaviour in real-time
- Mapping of flood behaviour
- Preparation of a database relating to evacuation planning

The presentation will describe current progress in these areas and the likely application of the proposed system to other local government areas.

David McConnell

David is a civil engineer with a specialised background in coastal, maritime, river and hydraulic engineering, gained both in Australia and Canada.

His interests lie in analytical and field investigations of physical processes, conceptual design and physical and computer modelling, and especially in synthesising and communicating the complex results of such studies.

David has guided the development and integration of Geographical Information System (*GIS*) technology within the company and in so-doing is continually developing speciality software to enhance these capabilities.

Steve Roso

Steve is an Environmental Engineer whose fields of expertise include surface and ground water management including the planning and design of urban stormwater infrastructure, stream rehabilitation, treatment wetlands and urban water cycle management. Steve has a strong interest in the use of GIS and remote sensing and recently completed a Masters Degree on the application of spatial analysis in urban hydrology.

Allan Herring

Allan is currently Principal Engineer, Waterways & Assets, Pine Rivers Shire Council. Over the past five years Allan has guided the consolidation of Pine Shire's waterways investigations, planning and data consolidation. Following unexpected flash flooding in 2004 on the South Pine floodplain, Allan has taken a special interest in the development and implementation of a flood warning system to ensure better communication and flood preparedness for shire residents.

Registration Form on following page



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INDUSTRY ASSOCIATION
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IA. 173 66

PO Box 2100
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Phone: 07 3000 2116
Fax: 07 3257 2392

Proudly Presents
**Progress in the Development of a Real Time
Flood Forecasting System**

28 February 2008

Programme **5.45 pm Registration**
6:15 pm Seated for Dinner
7.00 pm Presentation

To be held at The Greek Club & Convention Centre, Edmonstone St, West End

Please note—Registrations cannot be accepted after 12 noon on 25th February 2008 – fax to 3257 2392

1st Registrant

Name:

2nd Registrant

Name:

3rd Registrant

Name:

4th Registrant

Name:

Company: Contact:

Address:

Tel: () Fax: ()

E-Mail:

(We would appreciate your e-mail address so that we can forward correspondence to you electronically in future)

I am paying by Cheque Purchase order Mastercard Visa Amex Diners

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Valid until: / 20.....

Name:

as appears on credit card

Card holders Signature:

Registration Fees

This payment is for persons at \$55.00 per head for non-members (\$10 day membership included)

This payment is for persons at \$45.00 per head for SIA members

This payment is for persons at \$35.00 per head for students

TOTAL \$ _____

Please make cheques payable to: Stormwater Industry Association (Qld) Inc

Enquiries phone Carolyn Hick on (07) 3000 2116, fax (07) 3257 2392 or e-mail at: siagld@stormwater.asn.au

Please notify your Registration by 12 noon 25 February 2008

Stormwater Industry Association Qld Inc., PO Box 2100, Fortitude Valley BC, Qld 4006

Cancellations must be notified no later than two (2) days before the event otherwise registration fees will be charged.