

## 4<sup>th</sup> International Palaeoflood Workshop, Crete, Greece, June 2007

### Preliminary programme of presentations

Times are provisional only and subject to confirmation with the conference venue. Other points to note:

1) All presentations are oral presentations, unless otherwise stated. Except where specified, oral presentation slots will be 20 minutes long (15 minutes for presentation plus 5 minutes for questions/changeover). Standard PowerPoint facilities will be available but please tell us if you are likely to have any special requirements (e.g. overhead projector, slide projector).

2) Poster presentations have been assigned to specific technical sessions but will be on display for the duration of the workshop in the room where the talks are being given, thus ensuring good exposure and opportunities for discussion. As a working guide, poster sizes should be no larger than 1.20 m x 0.90 m but this will be confirmed with the conference venue following a visit in May.

#### Sunday 24<sup>th</sup> June: ice breaker event

##### 19.30-20.10 Introductory talk

M.G. Macklin

The fluvial systems of the Mediterranean: an introduction

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#### Monday 25<sup>th</sup> June: technical sessions

##### 8.30-08.40 Welcome

S. Tooth, P.A. Brewer, M.G. Macklin and J.C. Woodward

##### 08.40-9.20 Opening address

V.R. Baker

Palaeoflood hydrology: past, present, and future

##### 09.20-10.20 Megafloods on Earth and other planetary bodies

D. Burr

Palaeoflooding in the Solar System: an interplanetary comparison

R.P. Irwin III

Palaeoflood hydrology on Mars: results and uncertainties

P. Carling, I. Villanueva, J. Herget and H. Morvan

Unsteady 1-D and 2-D hydraulic models with ice-dam break for Quaternary megaflood, Altai Mountains, southern Siberia

##### 10.20-11.00 Coffee/tea break

## **11.00-12.20 Flood generation mechanisms and consequences**

V. Manville and K.S. Kataoka

Volcanogenic floods from intracaldera lake basins: geomorphic signals, impacts and hazards

K.S. Kataoka, A. Urabe, V. Manville and A. Kajiyama

Geomorphic and sedimentary evidence of a large-scale breakout flood from an ignimbrite-dammed river: the Numazawako eruption (BC 3400) aftermath, northeast Japan

T. van der Schriek, D. Maddy, T. Demir and C. Stemerding

Drainage of Late Quaternary lava-dammed lakes in the Gediz valley (W Turkey): evidence for catastrophic palaeofloods?

U. Schwartz, N. Greenbaum and N. Bergman

The impact of an extreme rainstorm on the assessment of floods in the arid Dead Sea Region, Israel

## **12.20-14.00 Lunch**

## **14.00-15.20 Flood reconstructions from geomorphic and sedimentary evidence (Part 1)**

M.T. Rico Herrero, G. Benito and V.R. Thorndycraft

Late Pleistocene and Holocene palaeoflood record of the Segre River (NE Spain)

J.C. Woodward, R.H.B. Hamlin and M.G. Macklin

Big floods and sediment source changes during the Last Glacial-Interglacial transition in a glaciated Mediterranean catchment

N. Greenbaum, J. Weisheit, T. Harden, J. Dohrenwend, N. Porat and V.R. Baker

Palaeofloods in the Upper Colorado River, Moab, Utah

D. Saint-Laurent, J. St-Laurent and L. Lavoie

Use of pedological and sedimentological methods for the reconstruction of palaeofloods on floodplain terraces

## **15.20-16.00 Coffee/tea break**

## **16.00-17.20 Flood reconstructions from geomorphic and sedimentary evidence (Part 2)**

G. Benito, V.R. Thorndycraft, M.T. Rico Herrero, Y. Sánchez Moya, A. Sopena and A. Pérez González  
Magnitude and frequency of Buffels River palaeofloods in relation to climatic variability (Namaqualand, South Africa)

T. Grodek, Y. Enzel, G. Benito, H. Beukes, N. Porat, Y. Jacoby, O. Dahan, G. van Langenhove and M. Seely  
The largest floods along the canyons of the Kuiseb and Gaub Rivers, Namibia

A.E. Kehew, A.M. Milewski, F. Soliman

Reconstructing an extreme flood from boulder transport: Wadi Isla, South Sinai, Egypt

S. Stiros, S. Pytharouli, P. Psimoulis and E. Kokkinou

Evidence of palaeofloods in ancient sites

Poster: R.H.B. Hamlin, M.G. Macklin and J.C. Woodward

Catastrophic flooding and flood variability in the Voidomatis and Aoos basins, northwest Greece over the last 200 years

Poster: S. Hewitt, G.S. Maas, M.G. Macklin and J.C. Woodward

A 450-year flood record from the western Mediterranean

Poster: N. Greenbaum, U. Schwartz, N. Porat, Y. Enzel and G. Benito

Palaeofloods in the ephemeral Swakop and Khan Rivers, western Namibia

Poster: C. O'Connor

Exploration of channel capacities of the incised meander section of the San Juan River, Utah and potential implications for palaeofloods

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**Tuesday 26<sup>th</sup> June: field excursion to Samaria Gorge followed by the Workshop banquet**

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**Wednesday 27<sup>th</sup> June: technical sessions**

**09.00-10.20 Flood reconstructions from historical records**

N. Macdonald

Trends in flood seasonality of the River Ouse, UK, since 1600AD using reconstructed flood records from documentary sources

J. Herget and H. Meurs

Reconstructing peak discharges of historic flood levels in the city of Cologne, Germany

H. Kim, H. Cho, C. Jang and S. Noh

Historical records on floods and flood stages of the Cheonggye-cheon stream in Seoul, Korea

C. Yoo, D. Kim, M. Park

Study on flood records in the annals of the Chosun Dynasty and their evaluation based on Chukwooki rainfall data

Poster: H. Kim, H. Cho, C. Jang, S. Noh

Extreme flood records in historical documents on Young-Ho Pavilion in Nakdong River, Korea

Poster: L. Elleder

Reconstruction of the extreme winter flood event in the Elbe River basin in 1784 using historical records and epigraphic evidences

**10.20-11.00 Coffee/tea break**

### **11.00-12.20 Alternative topics and approaches in palaeoflood studies**

G. Grant, A. Jefferson, J. O'Connor, and S. Lewis

Drainage density integrates geology and climate, reflects landscape evolution, and constrains palaeoflood magnitudes

J.E. Godaire, T.R. Bauer and R.E. Klinger

Regional analysis of palaeoflood data and its application to flood hazard assessment

V.R. Thorndycraft

The use of slackwater flood deposits as palaeoenvironmental archives of catchment instability

A.F. Jones, P.A. Brewer and M.G. Macklin

Palaeoflood hydrological interpretation of high-resolution ITRAX core scan data from Welsh alluvial sedimentary sequences

Poster: G. Benito, V.R. Thorndycraft, O. Dahan, W. Engelbrecht, Y. Enzel, T. Grodek, T. Hoffman, S. Todd, C. Kuells, H. May, T. Ouarda, R. Rhode, M. Seely, A. Matros-Goreses, G. van Langenhove and C. Coetzee  
Assessing floodwater recharge of alluvial aquifers in dryland environments

### **12.20-14.00 Lunch**

### **14.00-14.40 River response to floods/environmental change**

N. Bergman, O. Sholker, J. Roskin and N. Greenbaum

The geomorphic impact of the Nahal Oz Reservoir dambreak flood on a small ephemeral loess-channel in the NW Negev Desert, Israel

H. Griffiths, P.A. Brewer, M.G. Macklin

Historical vertical instability on Welsh rivers

Poster:

J. Booth, P.A. Brewer, M.G. Macklin and S. Tooth

Reconstructing the response of coastal Mediterranean steepland catchments to late Holocene uplift and palaeohydrological change

### **14.40-15.20 Coffee/tea break**

### **15.20-16.00 Pre-excursion presentation**

S. Tooth, P.A. Brewer, M.G. Macklin and P. Noble

Flood process and product in gorge-bound rivers of southern Crete: a pre-excursion primer

### **16.00-17.00 Advances and futures in palaeoflood hydrology: open discussion (Chair: J. Lewin)**

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**Thursday 28<sup>th</sup> June to Saturday 30<sup>th</sup> June: post-conference excursion**