

# 10th International Conference on Fluvial Sedimentology

UNIVERSITY OF LEEDS, UK 14-19 JULY 2013

## Call for Abstracts

The 10th ICFS will debate modern and ancient fluvial processes and deposits across the full range of spatial and temporal scales, highlighting research that uses theoretical, experimental, field and numerical techniques. We invite paper and poster abstracts that describe the very latest research within fluvial sedimentology. Abstracts will be assigned to specific sessions within six broad conference themes. If research does not fit these broad Session and Theme areas, the conference organisers will allocate abstracts to new, emerging groupings.

## Modern

**Floodplains** and their deposits

**Channel pattern**, facies patterns and controls on pattern

**Dryland fluvial systems**: ephemeral flows and their signatures

**River responses** to changing climate and the Anthropocene

**Ecosystem engineering**: interactions of biota and the fluvial system

**Tropical and monsoonal** river systems: dynamics and deposits

**Erosion and sediment flux** to basins: systems and controls

**Impact of climate change** on fluvial systems: consequences for the century ahead

**Provenance**: fingerprinting alluvial sediment sources

## Ancient

**Continental sequence stratigraphy**: relative and absolute chronostratigraphic control

**What is 'normal'** in the continental rock record

**Dynamics and evolution** of fluvio-deltaic systems

**Mechanisms of amalgamation**: styles and control

**Variability in the alluvial record**: seasonality and climatic zone

**Erosion and sediment delivery** to basins

**Hierarchy in fluvial systems** from the rock record

**Interactions** between rivers and the continental shelf-slope system

**Ichnological record** of channels, levees and floodplains

## Process

**Sediment transport** and bedforms

**Processes in cohesionless**, cohesive and mixed sediments

**Pro- and peri-glacial fluvial process**, product, and preservation potential

**Channel-scale flow structures** and morphodynamics

**Linking morphodynamics** to deposit architectures

**Impact of tectonics** on alluvial basin fill

**Drainage basin evolution**: styles and controls

**Fluvial interactions** with continental environments

**Scale invariance**: are small and large rivers different?



## Organisers

### Executive Committee

Dan **Parsons**

Chair - University of Hull

Phil **Ashworth**

Vice-Chair - University of Brighton

Jim **Best**

Vice-Chair - University of Illinois at Urbana - Champaign

Chris **Simpson**

Graphics - Fulcrum Graphics

### Conference Organisation Team

Jan **Alexander**

University of East Anglia

Jaco **Baas**

Bangor University

Mike **Blum**

ExxonMobil Upstream Research

Zhongyuan **Chen**

East China Normal University

Liz **Hajek**

The Pennsylvania State University

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University of Aberdeen

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Statoil

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Plymouth University

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University of Leeds

Gary **Nichols**

Royal Holloway University of London

José **Stevaux**

Universidade Estadual de Maringa

Esther **Stouthamer**

Utrecht University

[www.icfs10.co.uk](http://www.icfs10.co.uk)

## Modelling

**Modelling alluvial reservoirs** and heterogeneity  
**Modelling modern river** morphodynamics and fluvial sedimentology  
**Experimental modelling:** analogue and scaled  
**Incorporating sediment transport** and bank erosion  
**Model dimensionality** – reducing complexity

**Advances** in process-based modelling  
**Modelling the connections** between rivers, floodplain and delpaplains  
**Modelling tectonics and erosion:** coupling fluvial systems and active tectonics  
**Stratigraphic modelling:** advances and challenges ahead

## Resources

**Advances** in reservoir engineering techniques  
**Modelling alluvial reservoirs** and heterogeneity  
**Heterogeneity** and connectivity  
**Coal** and coal-bed stratigraphy  
**Alluvial reservoirs:** the potential for CO<sub>2</sub> sequestration and storage  
**Heavy and industrial mineral** deposition and preservation

**Fluvial sediments** as hosts for groundwater and hydrocarbons  
**Fluvial successions** as hosts for unconventional resources: shale gas and coal bed methane  
**Pre-vegetation systems:** depositional geometries and diagenetic variations

## Hot

**Sediment-laden flash floods:** processes, products, modelling and mitigation  
**Fluvial-tidal zone** sedimentology  
**Megafloods:** terrestrial and extraterrestrial systems  
**Avulsion:** downstream versus upstream controls

**Distributary fluvial systems** and the rock record  
**Sequence stratigraphy** and fluvial architectural analysis: where are we now?  
**Preservation,** shredding and the missing? alluvial signals in the rock record

## Abstract Requirements & Guidelines

Visit [www.icfs10.co.uk](http://www.icfs10.co.uk) for formatting instructions and sample abstracts. Abstracts must meet the requirements detailed therein to be considered.

Abstracts will be reviewed and assigned to sessions by the conference organisation team.

Through submission of an abstract authors grant permission to ICFS10 to publish the abstract.

No limit on the number of abstracts that may be submitted by an individual.

The official language for ICFS10 is English.

## Important Dates

2013  
Call for abstracts opens - **October 3<sup>rd</sup>**  
Registration opens - **December 3<sup>rd</sup>**  
Abstract deadline - **February 1<sup>st</sup>**  
Notification of abstract acceptance - **Feb. 14<sup>th</sup>**  
Early-bird registration closes - **March 15<sup>th</sup>**  
Registration closes - **June 14<sup>th</sup>**  
ICFS 10 - **July 14<sup>th</sup> - 19<sup>th</sup>**

## Fees

Full	<b>Early-bird - £295</b>	until Mar. 15
Student	<b>Early-bird - £225</b>	until Mar. 15
Full	<b>Standard - £375</b>	Mar.16 - Jun.14
Student	<b>Standard - £275</b>	Mar.16 - Jun.14
Single	<b>Day - £95</b>	before Jun. 14
Full	<b>Onsite - £420</b>	Jul. 14 - 19
Day	<b>Onsite - £125</b>	Jul. 14 - 19

## Submission

Visit [www.icfs10.co.uk](http://www.icfs10.co.uk) for full details on abstract submission.

Abstracts must be received by midnight GMT February 1, 2013.

No late submissions will be accepted.

## Keynote Speakers

**Bill Dietrich**  
University of California, Berkeley

**Martin Gibling**  
Dalhousie University

**Doug Jerolmack**  
University of Pennsylvania

**David Moreton**  
Imperial Oil

**James Syvitski**  
INSTAAR

## Invited Speakers

**Jaco Baas**  
Bangor University

**Bob Dalrymple**  
Queen's University

**Steven Goodbred Jr.**  
Vanderbilt University

**Liz Hajek**  
The Pennsylvania State University

**John Holbrook**  
Texas Christian University

**Maarten Kleinhans**  
Utrecht University

**Gerald Nanson**  
University of Wollongong

## Presentation Types

ICFS10 will have both oral and poster sessions. Decisions on oral presentations will be made by the conference organisation team.

Requests for poster presentation will be honoured, preference for oral presentation will be considered by the organisers.