

*Call for Papers*

*11th International Conference*

# MULTIPHASE '03

*Extending the Boundaries of Flow Assurance*

**San Remo, Italy**  
**11-13 June, 2003**

*Cosponsored by:*



**bH<sup>r</sup>Group**

*BHR Group is the world's leading organiser of specialist Multiphase Conferences. Its series of International Events began in Europe in 1983.*

## *Multiphase '03 – Extending the Boundaries of Flow Assurance*

The BHR Group Multiphase Conference has been held biennially in Europe since 1983. If the term Flow Assurance had been mentioned at the first conference no-one would have known what it meant. Now it is a common term used to describe the various technologies that are required in order to sustain production from the reservoir sandface to the processing facilities. The main goals of flow assurance can be described as:

**Energy** – The provision of sufficient pressure to transport the required flowrates of fluids from the reservoir to the processing facilities. This requires accurate integrated prediction models and includes artificial lift technologies, multiphase boosting and separation.

**Integrity** – Designing to ensure that the fluids are contained and that the flow is not impeded, by high viscosity oils and emulsions or solid deposition such as sand and proppant in the transportation system. Other flow impeding mechanisms are caused by the formation and deposition of hydrates, wax, scale and asphaltine. Solutions to these problems include all kinds of thermal management technologies including passive and active insulation systems, the use of chemical inhibitors, and mechanical means like pigging. Maintaining the physical integrity of the transportation system requires for example control of corrosion, preventing overpressure situations and mechanical fatigue.

**Delivery** – Ensuring that the facilities can handle the fluid delivered from the transportation system. Main issues here include control of flowrate and pressure variations due to slugging/surging and ensuring that the fluids are delivered within design temperature limitations.

Flow Assurance involves the integration of many specialist skills involving multiphase flows, production chemistry and material scientists. The conference continues to provide a venue for bringing together a wide range of people in order to find out about ongoing research projects, the latest developments and field experiences. More importantly it provides a unique forum for exchanging ideas and information on the technical challenges faced by leading technologists, oil industry providers and the end-users of this technology.

## *Opening Address: Multiphase Technology – Past, Present and Future, the World According to Brill*

The success of this conference series is illustrated by the number of regular attendees, many of whom were present at the first conference in Warwick. One of those present in 1983 was Professor James P Brill of The University of Tulsa and it is with great pleasure that we can announce that Professor Brill will give the opening address to this conference.

Jim Brill has devoted his entire professional career to advancing the technology of multiphase flow in pipes. He joined the Petroleum Engineering Faculty at The University of Tulsa in 1966 and formed TUFFP in 1973, serving as Director until 1999 when he began a “two (-year) phase” retirement. He now serves as a Professor Emeritus and part time Research Professor of Petroleum Engineering. He was elected to the United States National Academy of Engineering in 1997. Jim has been actively involved in BHRG’s multiphase conferences since the second one in 1985.

During his academic career Jim supervised multiphase flow research for 70 graduate students on behalf of the 72 different companies that have participated in TUFFP and related research projects. He has served as a consultant to numerous companies, taught 100 short courses and coauthored over 200 technical papers, reports and two books on multiphase flow.

## *Who Should Attend*

Multiphase '03 will benefit anyone engaged in the application, development and research of multiphase technology for the oil and gas industry. Applications in the oil and gas industry will also be of interest to engineers from other industries for whom multiphase technology offers a novel solution to their problems.

The conference will also be of particular value to designers, facility and operations engineers, consultants and researchers from operating, contracting, consultancy and technology companies.

## Scope

### Technologies

- Flow Simulation/Modelling
- Emulsions, Foams & Slurries
- Risk/Cost Benefits
- Thermal Remediation
- Metering, Instrumentation/Control
- Hydrates, Asphaltene, Wax, Corrosion/Erosion
- Raw Water Re-injection
- Slug Management
- Boosting, Separation, Pumping
- Terrain/Transient Analysis
- Sands & Scale
- Integrated Production System
- Environmental Issues
- Sampling

### Applications

- Case Histories with Lessons Learnt
- Difficult Terrain
- Field Validation
- Complex Fluids
- Bundles/Heating Systems
- Wet vs Dry Wells
- New Applications
- Deep & Ultradeep Waters
- Downhole & Seabed Processing
- Adding Value
- Cold Environment
- Subsea Long Distance Tie-backs
- Flowlines and Risers

## Offers of Papers

Authors are invited to submit title and abstract within the scope of the Conference, to reach the Conference Organiser by 6 September 2002. The abstract must be relevant to the scope, and the title should briefly describe the content of the paper. Abstracts may be submitted by email to [twheeler@bhrgroup.com](mailto:twheeler@bhrgroup.com).

Selection of papers will take account of originality, relevance and likely interest to delegates. Predominantly theoretical papers are normally expected to include experimental or other practical validation. Papers should be of a technical nature and we recommend that authors take an exhibition stand should they wish to support their presentations with commercial material.

## Timetable

Deadline for receipt of abstract	6 September 2002
Deadline for receipt of manuscript	16 December 2002

## Important – Authors Please Note

- Papers must be original, unpublished, and not pending publication elsewhere.
- The author submits each paper on the understanding that the paper must be reviewed and approved by an independent referee. If the paper is accepted, the author must attend the whole Conference to present the paper and discuss with delegates. Each presenting author is entitled to 25% discount on the full Conference fee.
- Papers, and presentation at the Conference, must be in English.
- Papers should be no longer than 15 printed pages. There is no minimum length
- The title should be appropriate to the scope and should accurately describe the content of the paper.
- Guidelines for the preparation of manuscripts will be supplied by BHR Group. Papers conforming to these guidelines will, subject to final refereeing, be accepted for commercial publication.
- The copyright of accepted papers must be transferred to the Publisher. Authors who wish to retain copyright must notify the organisers when submitting their abstracts.
- The presenting author will receive one copy of the published proceedings plus 25 off-prints of his/her own paper for personal use.

## ***Venue – the “Cannes Conference” moves to Italy***

After 12 years in Cannes, the Conference is moving 80 km round the coast to the Royal Hotel in the Italian resort of San Remo. Access is still via Nice airport and the Royal Hotel is part of the Leading Hotels of the World group. We hope that delegates will relish the opportunity to sample a new venue in 2003. Travel and accommodation details will be included in the conference reservation leaflet.

## ***Cosponsors***

The conference is cosponsored by: IFP, France; TUFFP, USA; Technology Initiatives Ltd, UK; and Neotechnology Consultants Ltd, Canada.

## ***Technical Advisory Committee***

Ms A Cutler	Technology Initiatives Ltd
Mr D Dick	PRIMAS
Mr P Fairhurst	BP Amoco
Mr G McNulty	BHR Solutions
Mr A Tait	Advantica Technologies Ltd
Mr S King	Baker, Jardine & Associates Ltd
Mr A Hunt	TotalFinaElf Exploration UK Plc

## ***International Members***

Prof P Andreussi	University of Pisa, Italy
Mr I Brandt	Scandpower A/S, Norway
Prof J P Brill	TUFFP, The University of Tulsa, USA
Dr A Burns	TotalFinaElf, Norway
Dr E F Caetano	Petrobras, Brazil
Professor P Fuchs	Statoil, Norway
Dr G Gregory	Neotechnology Consultants Ltd, Canada
Dr E Guevara	PDVSA, Venezuela
Mme J Lecourtier	IFP, France
Prof R Oliemans	Delft Univ of Technology, The Netherlands
Dr C Sarica	TUFFP, The University of Tulsa, USA

## ***BHR Group’s Interest in Multiphase***

BHR Group is an independent world class centre of expertise in fluid engineering and process technology. The Group provides technical services in multiphase transportation, pumping/pressure boosting, separation and commingling, measurement and control, and integrity assessment – including consultancy, product development and testing.

CALTEC, the Group’s Oil and Gas division, designs and supplies hydrocarbon production boosting equipment. Products include I-Sep and HI-SEP compact separators, WELLCOM jet pumps and pressure boosting systems for gas or multiphase recovery, and PROMPT – a slug detection and control system.

*For more information visit BHR Group’s web pages at: <http://www.bhrgroup.com>.*

## ***Enquiries***

For further information, please contact:

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***You are also invited to submit your abstract by email to [twheeler@bhrgroup.com](mailto:twheeler@bhrgroup.com) –  
receipt will be acknowledged.***

TITLE

AUTHOR(S) & AFFILIATION(S)

SYNOPSIS (up to 300 words: figures/tables may be included)



***Please complete your name and address overleaf***

Abstract required by 6 September 2002 ● Manuscript required by 16 December 2002

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## *Your details*

*Please complete in block letters ticking appropriate boxes*

Prof     Dr     Mr     Mrs     Miss     Ms

Surname

Forename

Position

Company

Address

Post/Zip Code

Country

Telephone

Fax

Email

- I wish to submit a paper and enclose the title and abstract herewith. If accepted, I agree to attend the whole Conference and present the paper.
- I do not wish to submit a paper but would be interested in attending. Please send me full details as soon as they are available.
- I would be interested in taking exhibition space at the Conference.

Please send me further details of:

- BHR Group technical activities     Forthcoming conferences     BHR Group publications

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