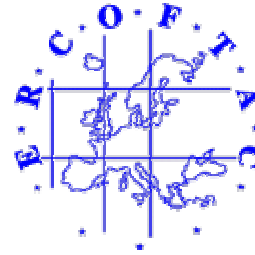


SPHERIC

**Smoothed Particle Hydrodynamics European Research
Interest Group**



Minutes of the Steering Committee Meeting 16 October, 2006 University of Manchester

SC members present:

Damien Violeau, Electricité de France (chair)
Nathan Quinlan, NUI Galway, Ireland (secretary)
Ben Rogers, University of Manchester, UK (webmaster)
Andrea Panizzo, Università di Roma La Sapienza, Italy
Moncho Gesteira-Gomez, University of Vigo, Spain
Etienne Parkinson, VA TECH Hydro, Switzerland
David Graham, University of Plymouth, UK
Paul Groenenboom, ESI BV, Netherlands
Andrea Colagarossi, INSEAN, Italy
John Biddiscombe, CSCS, Switzerland
David Le Touzé, Ecole Centrale de Nantes, France

Other participants:

Peter Stansby, University of Manchester, UK
Eun-Suk Lee, University of Manchester, UK

1. Welcome

Ben Rogers and Peter Stansby welcomed the SC to Manchester and gave a brief introduction to the University.

2. New members

Damien Violeau reported there are now 39 SPHERIC members, including 8 outside Europe. In addition to the members present, Ralf Klessen of the University of Heidelberg has joined the SC, bringing membership of the SC to 12, the maximum allowed for an ERCOFTAC SIG.

3. ERCOFTAC news

Damien reported that at the last ERCOFTAC SPC meeting in June 2006, a plan for increased attention to SIGs was announced, including financial support for clearly active SIGs entering into a concordat. A new SIG website template will be available from ERCOFTAC shortly.

4. Next ERCOFTAC meeting

⇒ David Le Touzé will represent SPHERIC at the next ERCOFTAC meeting in Athens.

5. Newsletter

The next newsletter will be published in December, with submissions to Damien by the end of November.

⇒ David Graham, Eun-Sug Lee and David Le Touzé will submit articles.

⇒ Paul Groenenboom will invite CASA to submit an article.

6. Website

Ben Rogers has added a jobs section to the website. There was some discussion of the best format for a forum or FAQ.

⇒ Ben will implement a wiki-based forum on the website. It is hoped this will be used to post solutions to benchmark test cases, as well as discussion of SPH.

7. Benchmark test cases

There are currently 6 benchmark test cases.

⇒ As the two dam-break benchmarks are quite similar, one will be deleted.

⇒ Nathan Quinlan will develop templates for benchmark definition and solution reports, for circulation to the SC by October 31.

⇒ Nathan will develop a shock tube benchmark.

- ⇒ David Le Touzé will develop a wedge-entry benchmark.
 - ⇒ Andrea Colagrossi will develop a benchmark case for a 2D obstacle moving in internal flow.
 - ⇒ Moncho Gesteira-Gomez will develop a benchmark case on a 2D dambreak with wet bottom and gate opening.
 - ⇒ Andrea Panizzo will invite Prof. Galatti to prepare a benchmark on a hydraulic jump.
- It was agreed that the library of test cases should be updated by the end of 2006, allowing time for participants in the 2007 workshop to complete benchmark studies.

8. Bibliography

Nathan Quinlan reported there are now over 400 entries in the SPH bibliography, maintained as a BibTEX file.

- ⇒ Etienne Parkinson will make available a new web-based bibliography manager, currently in development, for management of the SPH reference database.
- ⇒ Nathan will update future bibliography entries to include the name of the person submitting the reference.

9. 2007 workshop

Moncho Gesteira-Gomez announced that the 2007 workshop in Madrid will take place on 23, 24 and 25 May 2007. The local organizing committee will consist of Moncho and Antonio Souto Iglesias, and the scientific committee will consist of the SPHERIC SC members. Profs. Monaghan, Libersky and Español have accepted invitations to speak at the workshop. Following some discussion, the SC agreed some details as follows. The deadline for submission of 2-page abstracts will be 31 January. Each abstract will be reviewed by 2 SC members by around 21 February, and authors of the best 50–60 abstracts will be invited by 28 Feb to prepare 6-page papers and present at the workshop. The 2-page abstracts will be printed in a book of abstracts for distribution at the workshop, and the full papers will be compiled on a CD-ROM. A prize will be presented for the best presentation by a student.

The benchmark test cases on the 2D moving obstacle, 2D dambreak with gate opening, and 3D wedgeentry are selected for special attention at the workshop. Participants will be encouraged to prepare solutions to these cases and results will be presented in special moderated sessions.

10. Special session at the IAHR conference

Damien reported that he expects 14 papers to be submitted for the special SPH session(s) which he is organising at the 2007 IAHR conference.

11. Special issue of a journal

Moncho reported that Antonio Souto Iglesias will contact the editors of International Journal of Numerical Methods in Engineering and Computer Methods in Applied Mechanics and Engineering to discuss the possibility of a special issue on SPH. Presenters at the SPHERIC workshop would be free to submit papers for the special issue.

12. 2008 events

It was agreed to continue with one workshop per year and two SC meetings (of which one will take place at the workshop).

13. AOB

- ⇒ John Biddiscombe invited SC members to send SPH result data to him for visualisation.
- ⇒ John will work on a new SPHERIC logo.