



MINUTES

INDUSTRIAL PROGRAMME COMMITTEE (IPC)

18th May 2010

Committee room 4, Aula Congress Centre, TU-Delft

Attendance

Name

Dr. Philippe Geuzaine
Prof. Charles Hirsch
Prof. Anthony Hutton
Prof. Rene Oliemans
Dr. Richard Seoud
Prof. Wolfgang Rodi

Organisation

CENAERO
Numeca International
Airbus UK
Multiphase Flow B.V.
ERCOFTAC
KIT

1. Apologies for absence

Apologies were received from the IPC Chair, Dr. C. Lea, and SIG leader, Microfluidics and Microheat, Prof. S. Tardu.

2. Approval of the agenda

The agenda was approved as listed.

3. Minutes of IPC meeting held in Lausanne on 2nd October 2009

Item 4 ERCOFTAC Industrial Strategy, 4.ii

Regarding the actions listed for Dr. R. Seoud under 4.ii of the Lausanne minutes:-

Plans for events in 2010, are in place and were approved by the IPC in December 2009.

Also, plans for events in 2011 are taking shape, please see section 4 of the new minutes, below.

Holding the Hybrid RANS-LES course in the USA, again please see section 4.v of the new minutes, below.

There is still an outstanding action for Prof. C. Hirsch's offer to introduce VKI director to Dr. R. Seoud for assistance in advertising ERCOFTAC's events.

Item 5 QNET-CFD Wiki

Prof. W. Rodi

It was agreed in the Delft meeting that Prof. W. Rodi will coordinate with Dr. R. Seoud in meeting this action on advertising the Knowledge Base in "Flow, Turbulence and Combustion".

Action for Prof. A. Hutton:

Dr. R. Seoud has contacted the CFD-online webmaster who was unhappy that we are charging for this service. The explanation on the costs incurred in raising the wiki to the standard that it has now did not help in convincing the webmaster. In the Delft meeting Dr. R. Seoud agreed to



contact the webmaster and explain the fact that the silver standard is open to all and includes tremendous amount of cases.

Item 6: *Action on the BPG marketing plan is still outstanding.*

4. ERCOTAC industrial strategy (Dr. R. Seoud)

i. Status of industry events planned for 2010 (Dr. R. Seoud)

Dr. R. Seoud expressed that there will be six events in 2010. A second announcement has been made, and flyers and emails have been sent to prospective delegates. Overall, there are currently three completed programmes, a fourth which is a collaboration with SIAMUF would be completed in the next two weeks, as promised by SIAMUF. The collaboration with SIAMUF is assured to deliver some 40 delegates. The two events on “Uncertainty management and quantification in industrial analysis and design” and on “Flow control” rely on Profs. Hirsch and Hutton, respectively, to complete in time for properly advertising before the summer holidays.

Action: Prof. Hutton will call key contacts for his event this week (week commencing 24th May 2010). Also, Prof. C. Hirsch is expected to complete this week.

ii. Prospects for new industrial members in 2010 (Dr. R. Seoud)

We have potentially ESA (European Space Agency) and Novatam as possible candidates. McLaren F1 is a probable candidate as well.

iii. Financial forecast for 2010 (Dr. R. Seoud)

Status Quo

Apparently, and based on data provided by Prof. C. Hirsch ADO, rather the sole information available to Dr. R. Seoud, if we combine (to include two to three months /year from E-CAERO) all income and expenditures, then we are doing OK. All committee members were pleased with the situation and Prof. A. Hutton expressed that things are working.

Action: Prof. C. Hirsch to supply the financial data from ADO to be incorporated in the financial valuations of the events.

Relationship between revenues and costs

Action: Dr. R. Seoud to send an update of the financial status to the committee members.

Honorarium

It was decided that in the event budget estimates the honorarium per speaker is to be fixed at 300 Euro / lecturing hour.

iv. Brief feedback from delegates at industry events in Autumn 2009(Dr. R. Seoud)

Hybrid RANS-LES, FOI, Nov. 2009

The data are with Dr. C. Mockett, who informed Dr. R. Seoud that the feedback was pretty positive.

v. Present and review proposals for industry events for 2011(Dr R. Seoud)

Dr. R. Seoud stated that a global email was sent to all SIG leaders, inviting them to participate in the 2011 programme, with cc to the Executive Committee. This was followed up by telephone



and emails. The outcome was that only a few of the SIG leaders wanted to participate. The following suggestions for event topics were made:

Erik Dick - Transition modelling for internal flows (Turbomachinery Applications)
Marianna Braza (Swirling Flows) – Preparing a response.
Kyriakos.C. Giannakoglou (Design Optimisation)– Did not want to conduct a course in 2011.
Pierre Comte (Compressible turbulence) – Would be delighted but needs more time.
Ananias Tomboulides (Reactive Flows)- Flame stabilization in industrial burners.

The committee debated the available topics and expressed that three can go ahead, with the two exceptions being the topics of Marianna Braza and Pierre Comte. Therefore, we have three new topics in 2011, which are as follows:-

Prof. E. Dick (Transition modeling) – On the basis of these minutes, Dr. R. Seoud had already reported to Prof. E. Dick, who was very pleased and ready to work with us.

Prof. A. Tomboulides (Reactive Flows) – Title: Flame stabilization in industrial burners.

Prof. K. Giannakoglou (Design Optimisation) – Here, even though Prof. Giannakoglou did not want to participate in 2011, the committee felt that this is a good topic. In particular, Prof. C. Hirsch asserted that Dr. R. Seoud should contact Dr. Werner Haase and invite him to participate as a scientific coordinator on this topic, as his expertise in this field is well known and much valued.

Finally, the committee would like to see the titles of all new events.

Action: *Dr. R. Seoud to collate titles, and to contact Dr. W. Haase by email, with cc to Prof. C. Hirsch.*

Last but not least the committee is considering taking the Hybrid RANS-LES course to the USA. Here, Prof. W. Rodi would initiate the process by sending the current Hybrid RANS-LES flyer to Prof. P. Spalart. Also, Dr. R. Seoud will be investigating the possibility of holding the course at GE, Cincinnati, Ohio, as we have now held the course twice at GE, Munich.

Action: *Dr. R. Seoud to send flyer to Prof. W. Rodi*

vi. IEO support assistant (Prof. Hutton)

Prof. Hutton expressed his apologies regarding the short notice to leave ERCOTAC, by Miss S Hutton. Dr. R. Seoud can hire support where deemed fit for purpose in the execution of his marketing campaign.

5. QNET-CFD Wiki (Prof. W. Rodi)

i. Present status

Cases that have been already added:

2D periodic hill flow

Buoyant far field plume

To be added shortly (ready, but has to be converted to Latex):

Near fields of Buoyant Plume

Planned/promised test cases:



Application Challenge 4: Four stage low speed research compressor (TU Dresden - first draft already prepared)

3 UFR's on particle laden flow (from Martin Sommerfeld)
AC/UFR NACA0021 airfoil flow (from M. Strelets together with Ch. Mockett)
UFR Car mirror flow (from Ch.. Mockett)
UFR 3D Diffusor (from Jakirlic/ von Terzi)
UFR Flow past finite-height cylinder (Rodi / Palau-Salvador)
AC/UFR Combustion case on non-premixed flames (Drobniaak - Poland)
AC/UFR Combustion case on turbulent pre-mixed flame (Dreizler -
Tu Darmstadt)

ii. Future plans, including marketing

Action: *Prof. W. Rodi to coordinate with Dr. R. Seoud on advertising in Springer.*

6. Best Practice Guidelines

i. Dispersed Multi-Phase Flow BPG (Prof. Oliemans)

This book has sold 98 copies since start of advertising.

The aim now is to offer this book with the first edition single phase book, free to new members.

Prof. W. Rodi requested a copy of the BPG to assist his lecture on the course Best Practice for Engineering CFD, in September 2010, at EDF, Paris, France.

Action: *Dr. R. Seoud*

ii. Industrial CFD BPG, 2nd edition (Prof. Hutton)

Action: *Prof. A. Hutton to get the information from Dr. C. Lea.*

iii. Other BPG: Combustion, Heat transfer

Prof. A Tomboulides has informed Dr. R. Seoud, that a core committee is being formed, and their objective is to identify the necessary content to create a 'cook book'. Regarding costs and budgets, Prof. R. Oliemans has passed all the necessary information to Prof. A. Tomboulides.

7. Next Chair of IPC

This was not discussed in detail here, but during the EC meeting.

Action: *Dr. Lea and prof. Oliemans to identify and approach possible candidates for chairman and deputy chairman and propose these for approval to the EC. Proposals for candidates to be send early September in invitation for Autumn meeting in Lisbon.*

8. Autumn Festival and IPC meeting

The next IPC meeting will convene in Lisbon, Portugal, 12th October 2010.

9. Any Other Business

None

12:00 End of meeting

Prof. R. Oliemans – Deputy Chairman IPC

Dr. R. Seoud – Industry Engagement Officer