

## **Notification of the CSNI WGAMA CFD Special Group Meeting**

**NEA Headquarters**, Le Seine St-Germain, 12 Boulevard des Iles,  
92130 Issy-les-Moulineaux, France  
**May 10, 2010**

The CFD Special Group Meeting will be held on May 10, 2010, at the NEA Headquarters, 12 boulevard des Iles, Issy-les-Moulineaux, France, Room 601 on the 6th floor.

The meeting will start at 10:00 AM on Monday May 10, 2010 and is expected to finish by 05:30 PM on the same day.

Delegates who are invited to or wish to make presentations, proposals, etc. are kindly requested to send a file of each presentation material to the contacts listed below by email before **May 4, 2010**, at the latest, so that the Secretariat can prepare hard copies for distribution prior to the presentation. Otherwise, delegates are asked to bring 10 copies of documents with them.

Delegates participating are advised that the security arrangements in force at the NEA include the obligation to present an identity document bearing a photograph. This document may be requested at the time of issuing delegates' cards for the meeting. It should also be presented subsequently together with the card every time NEA premises are entered from the outside. It is desirable that the delegates are aware of this requirement in order to avoid any difficulty in obtaining entry. It is beneficial if the names and addresses of designated participants can be communicated to the NEA Secretariat as soon as possible, but not later than May 4, 2010.

### **Contact**

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### **Location of the meeting**

NEA Room 601 (6<sup>th</sup> Floor)  
Le Seine St-Germain  
12, Boulevard des Îles  
92130 Issy-les-Moulineaux  
More information at [www.nea.fr/html/general/welcome.html](http://www.nea.fr/html/general/welcome.html).

**Equipment available for the presentation**

The meeting room is equipped with projection directly from a personal computer (available in the meeting room), using Powerpoint.

**Transportation**

The NEA is close to metro, RER, and bus lines. All information can be found at [www.nea.fr/html/general/welcome.html](http://www.nea.fr/html/general/welcome.html) or at [www.ratp.fr](http://www.ratp.fr) (in English, German and Dutch).

**Accommodation**

Participants have to make their own reservation.

A list of hotels is available at [www.nea.fr/html/general/oced-hotels.html](http://www.nea.fr/html/general/oced-hotels.html).

## **Tentative Agenda**

The following agenda is proposed for this CFD Special Group Meeting:

*Monday, 10 May 2010*

### **1. Opening of meeting**

10:00 Opening and Welcome	Chair Brian Smith (PSI)
10:05 Adoption of the agenda	Secretariat
10:10 Approval of the summary record of the previous meeting	Secretariat
10:20 Review of the tasks adopted in the previous meeting	Brian Smith/Secretariat

### **2. CFD webpages**

10:30 Current Status	NEA Webmaster/Secretariat
10:50 Strategy for Maintenance and Development	NEA Webmaster/All

### **3. T-Junction benchmark exercise**

11:10 Report of the progress of the T-Junction benchmark exercise	Brian Smith
11:30 Vattenfall test data	Kristian Angele
12:10 Preliminary synthesis	John Mahaffy/Brian Smith
12:30 Report of the benchmark activity to be submitted to WGAMA meeting	Brian Smith/Secretariat
<i>12:45 Lunch break</i>	

### **4. New OECD/NEA benchmark activities**

14:00 Introduction to the KAERI MATIS-H test facility	Chul Hwa Song
14:20 Discussion on launching the next OECD/NEA benchmark exercise	Brian Smith
<i>14:45 Break</i>	

### **5. CFD4NRS-3 workshop**

15:00 Current progress of paper collection for CFD4NRS-3 Workshop	Ghani Zigh/Secretariat
15:20 Results of decision on paper acceptance: oral/poster	Ghani Zigh
15:40 Organisation of sessions and assignment of session chairs	Ghani Zigh/All
16:00 Status of invitation of keynotes speakers	G. Zigh/B. Smith/D. Bestion
16:10 Other matters	Ghani Zigh

### **6. Concluding business**

16:20 Summary of action items	Brian Smith
16:40 Other matters	
17:00 Closure of the meeting	

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\*[Note] The previous meeting indicates the CFD Special Group Meeting held on May 18-19, 2009 at the NEA Headquarters.

## **Participants (expectation: 6-10 persons):**

- Organizers of the T-Junction benchmark exercise
- Organizers of the CFD Workshop CFD4NRS-3
- Potential organizer(s) of the new CFD benchmark and CFD4NRS-4
- NEA Secretariat

## **List of the Participants' email addresses**

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-end-

**Notification of  
the CSNI WGAMA CFD Special Group Meeting on  
Improvement of NEA CFD Documents and Webpage**

**OECD Headquarters, 2, Rue André Pascal, Paris 75016, France  
May 11, 2010**

The CFD special group meeting for CFD webpage management will be held on May 11, 2010, at the Conference Centre (Room # CC10) of the OECD Headquarters, 2, Rue André Pascal, Paris 75016, France. The meeting will start at 09:00 AM on Tuesday May 11, 2010 and is expected to finish by 6:00 PM on the same day.

Delegates who are invited to or wish to make presentations, proposals, etc. are kindly requested to send a file of each presentation material to the contacts listed below by email before **May 4, 2010**, at the latest, so that the Secretariat can prepare hard copies for distribution prior to the presentation. Otherwise, delegates are asked to bring 60 copies of documents with them.

Delegates participating are advised that the security arrangements in force at the OECD include the obligation to present an identity document bearing a photograph. This document may be requested at the time of issuing delegates' cards for the meeting. It should also be presented subsequently together with the card every time OECD premises are entered from the outside. It is desirable that the delegates are aware of this requirement in order to avoid any difficulty in obtaining entry. It is beneficial if the names and addresses of designated participants can be communicated to the NEA Secretariat as soon as possible, but not later than May 4, 2010.

**Contact**

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## **Invitation to the CSNI/WGAMA CFD Special Group Meeting on Improvement of NEA CFD Documents and Webpage**

CFD and CMFD (Computational Multi-Fluid Dynamics) become more and more important for Nuclear Reactor Safety (NRS) investigations. In this respect, the WGAMA (*Working Group on Analysis and Management of Accidents*) under the OECD/NEA CSNI (*Committee on the Safety of Nuclear Installations*) decided to give some guidance to possible CFD users and also to nuclear safety authorities and their TSOs (technical support organizations) for evaluation of the validity and reliability of CFD simulation. For this purpose, three CFD WGs (Writing Groups) organized within the WGAMA have prepared the following three NEA/CSNI documents. At present, two documents have been published and the other is under publication.

- Best Practice Guidelines for the use of CFD in Nuclear Reactor Safety Applications:  
<http://www.nea.fr/html/nsd/docs/2007/csni-r2007-5.pdf>
- Assessment of CFD for Nuclear Reactor Safety Problems:  
<http://www.nea.fr/html/nsd/docs/2007/csni-r2007-13.pdf>
- Extension of CFD Use to Two-phase NRS Issues:  
(will be available soon.)

The second document is posted on the OECD/NEA CFD webpage at  
<http://www.nea.fr/html/nsd/csni/cfd/index.html>.  
The others will be also posted as early as possible.

Each of the three CFD WGs consists of rather small numbers of experts in the area. Their activities are a first step to build a common culture on CFD application to NRS and to establish some international standards in CFD application to NRS.

Now, the WGAMA CFD WGs would like to involve a larger community of CFD developers and users in order to improve the documents and OECD/NEA CFD webpage as well as to propose new CFD V&V (verification & validation) tests and benchmarks, including the definition of new CFD-grade experiments. To initiate this second step (2010-2012) of the activities, it is planned to hold the first CSNI/WGAMA CFD Special Group Meeting on Improvement of NEA CFD Documents and Webpage at the OECD Headquarters Conference Centre in Paris on 11 May 2010.

**You are invited to attend this meeting.**

If you are interested in these CFD special group activities, you may first have a look at the documents and then you may propose corrections, additions, and amendments. You may also propose new experiments and benchmarks. In case you have proposals, discussions will be more efficient if you send your input (presentation or short note) in advance.

**Please have a look at the attached tentative agenda and inform the NEA secretariat if you intend to participate to the first meeting.**

## Tentative Agenda

The following agenda is proposed for the **CFD Special Group Meeting on Improvement of CFD Documents and Webpage**.

*Tuesday, 11 May 2010*

- |   |                                      |
|---|--------------------------------------|
| <b>09:00 Opening and Welcome</b>  | <b>Chair Dominique Bestion (CEA)</b> |
| 09:10 Adoption of the agenda  | Dominique Bestion/Secretariat        |
| 09:15 Status of the WG1 document and proposals for improvements   | John Mahaffy/Brian Smith             |
| 09:45 Discussion on WG1 document and strategy for maintenance and development,  |                                      |
| <i>11:00 Break</i>  |                                      |
| 11:30 Status of the WG2 document and proposals for improvements   | B. Smith                             |
| 12:00 Discussion on WG2 document and strategy for maintenance and development   |                                      |
| <i>12:30 Lunch break</i>  |                                      |
| 14:00 Status of the WG3 document and proposals for improvements<br>(including some possible input from ERCOFTAC BPGs) | Dominique Bestion                    |
| 14:30 Discussion on WG3 document and strategy for maintenance and development   |                                      |
| 15:00 Proposals of benchmarks for single phase and two-phase CFD  |                                      |
| <i>15:30 Break</i>  |                                      |
| 16:00 First discussions on the scaling issue associated to the use of single-phase CFD                                |                                      |
| 16:30 Organisation of future work of the CFD group  |                                      |
| 17:00 Reporting of the status of CFD Webpage to the next CSNI June meeting  | Dominique Bestion/ Secretariat       |
| 17:10 Summary of action items   | Dominique Bestion                    |
| - Preparation of a presentation on the status of CFD Webpage development at the CSNI meeting (June 2010)              |                                      |
| - Others  |                                      |
| <b>17:30 Future Meetings and Closure of the meeting</b>   | <b>Dominique Bestion</b>             |

## Participants (expectation: 50-70 persons):

- Participants in the CFD special group meeting (Day 1)
- NEA web managers
- Members of the three Writing Groups
- WGAMA members
- Participants in the open T-junction benchmark
- Other CFD experts in the nuclear area

## List of the Participants' email addresses

- Participants in the CFD special group meeting (Day 1)  
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- WGAMA members entered in the NEA ADD System  
[add-wgama-cet@nea.fr](mailto:add-wgama-cet@nea.fr)



- Participants in the open T-junction benchmark (see the attachment 1)
- Other CFD experts in the nuclear area (including possible companions of the invited participants)

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# Notification of the CSNI WGAMA Open CFD T-Junction Benchmark Meeting

OECD Headquarters, 2, Rue André Pascal, Paris 75016, France  
May 12, 2010

The CFD Special Group Meeting will be held on May 12, 2010, at the Conference Centre (Room # CC10) of the OECD Headquarters, 2, Rue André Pascal, Paris 75016, France.  
The meeting will start at 09:30 AM on Wednesday May 12, 2010 and is expected to finish by 05:00 PM on the same day.

Delegates who are invited to or wish to make presentations, proposals, etc. are kindly requested to send a file of each presentation material to the contacts listed below by email before **May 4, 2010**, at the latest, so that the Secretariat can prepare hard copies for distribution prior to the presentation. Otherwise, delegates are asked to bring 50 copies of documents with them.

Delegates participating are advised that the security arrangements in force at the OECD include the obligation to present an identity document bearing a photograph. This document may be requested at the time of issuing delegates' cards for the meeting. It should also be presented subsequently together with the card every time OECD premises are entered from the outside. It is desirable that the delegates are aware of this requirement in order to avoid any difficulty in obtaining entry. It is beneficial if the names and addresses of designated participants can be communicated to the NEA Secretariat as soon as possible, but not later than May 4, 2010.

## Contact

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## **Tentative Agenda**

The following agenda is proposed for this **CSNI WGAMA Open CFD T-junction Benchmark Meeting**.

*Wednesday, 12 May 2010*

<b>09:30</b>	<b>Opening and Welcome</b>	<b>Chair Brian Smith, PSI</b>
09:40	Adoption of the agenda	Secretariat
09:50	Summary and status of the benchmark activity	Brian Smith
10:10	Preparations for reporting benchmark results at CFD4NRS-3	Ghani Zigh
10:20	Release of test data	Kristian Angele, Vattenfall
<i>11:00</i>	<i>Break</i>	
11:20	First synthesis results	John Mahaffy/Brian Smith
<i>12:30</i>	<i>Lunch break</i>	
14:00	CSNI report on benchmark activity	Brian Smith/Secretariat
14:10	Open Discussion	All
	–Participants’ experiences	
	–Specific problems encountered	
	–Criticisms and suggestions for improvement	
	–Options for reporting	
16:00	Other Business	Brian Smith/Secretariat
	– Formal submission procedures for CSNI report	
	– Anything else?	
<b>16:30</b>	<b>Closure of meeting</b>	<b>Brian Smith</b>

## Participants in the OECD/NEA-VATTENFALL T-Junction Benchmark Exercise

### (7 Organizers including NEA Secretariat)

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