

# CCP-NTH MCM-1 MEETING MINUTES

CCP-NTH MCM-1 MEETING	
<b>Date</b>	5 <sup>th</sup> May, 2020
<b>Location</b>	Zoom Online Meeting
<b>Participants</b>	<b>Present:</b> Mike Bluck (MB), David Emerson (DE), Michael Fairweather (MF), Shuisheng He (SH), Hector Iacovides (HI), Charles Moulinec (CM), Elia Merzari (EM), Eugene Shwageraus (ES), Juan Uribe (JU), Wei Wang (WW) <b>Absent:</b> None
<b>Minutes produced by</b>	Wei Wang
<b>Approved by</b>	
<b>Version No.</b>	1.1

## 1. Meeting Objectives

- Kickoff meeting of the CCP-NTH project
- To update/refresh the project objectives
- To discuss and approve tasks and work plan

## 2. Minutes of the previous meeting

**Actions Review:** None

**Other Matters arising from the last meeting:** None

## 3. Notes

### Topic 0: Welcome and Introduction

- SH provided an update on the PI and CI meeting in February.
- SH talked about the plans for this MCM meeting, which will be detailed in this meeting minutes.
- SH mentioned potential delays of some planned tasks due to the COVID-19.

### Topic 1: Period of the Project

- SH updated to all the MC members that the formal starting date was 1st April 2020. WP2 started from 1st April 2020 and some plans in the WP1 may have to be delayed and a new format will be discussed.
- SH mentioned there will be opportunity to apply for no cost extension for this project as mentioned on the EPSRC website.

### Topic 2: Management and roles

- Management committee – membership and Terms of Reference
  - SH shared the drafted ToR for the MC members and the MC members agreed on this ToR.
  - SH talked about a ‘contract version’ about the MC members (currently drafted by the University of Sheffield contract team), which is controversial about the definition of ‘non-voting’ MC members. MF suggested that *it is better to clarify the rights and obligations for the ‘non-voting’ MC members. SH promised to ask the contract team to revise this part (ACTION MC1-1).*
- Working group – membership and ToR
  - SH shared the drafted ToR for the working group and the MC members have no objections.
  - The topic ‘how to reach a wider group’ was discussed. This group should not only include those in the working group but should include the whole community and anyone interested in the nuclear thermal hydraulics. HI mentioned it could use the SIG-NTH contacts as a start. SH suggested to create a CCP Distribution List (via the website for example), to which anyone from the wider community can subscribe and therefore be included in all CCP communications.
- Day-to-day running, point of contact, central location for documents
  - Storage of the documents was discussed. WW mentioned it could be stored in the MS one drive. SH mentioned it could be saved in the CCP-NTH website. DE suggested WW to *double check with Damian Jones about the private storage and private login in the website (ACTION MC1-2).*
- Relationship with SIG-NTH
  - SH mentioned that in 2020 the CCP-NTH community building and the SIG-NTH will be running simultaneously (but organising events jointly when appropriate). After the funding for SIG-NTH comes to an end in 2021, the CCP-NTH will continue most of the activities of SIG-NTH; it will however be useful, for a number of reasons, to maintain the SIG identity, even though it is likely that most of the events/workshops will be joint (that is, merged or sequential on the same day for example). HI mentioned that the SIG-NTH involves people from the experimental study as well and it is a wider community. Thus, it is better to keep the identity. This topic will be reviewed in future as things evolve.
  - EM asked relationship between the BEIS Digital Reactor Design and the CCP, and the role of the Frazer-Nash Consultancy in all these projects and SH gave a brief explanation.

### **Topic 3. Finance and logistics**

- Financial department in USFD will accept regular invoicing (for example, every 3 or 6 months) rather than frequent claiming for each spent. No individual receipt is required for this claiming.
- Investigators’ budget and benchmarking budget are planned as stated in the proposal.

### **Topic 4. WP 1 tasks**

- General questions
  - Delays and/or alternative format for each task.
  - New (not covered by the proposal) activities/tasks
- WP1-0 Management Committee Meeting (Q1, 10)
  - The next MCM meetings are going to carry on as planned either face-to-face or via Zoom meeting. There are no delays for MCM meetings.
- WP1-1 Annual technical meetings (Q3, 5)
  - HI, MB and MF all mentioned it’s not necessary to delay it. WW suggested to shorten it

to a one-day meeting rather than two days if it is online Zoom meeting. MF suggested it could be a flash-presentation in Zoom.

- It is suggested by HI that the first and the second weeks of September before the autumn semester should be the best time for universities. Others agree.
- Action: WW will carry out a doodle poll about the time for all the MCM ASAP (MC1-3). SH, HI and WW will produce an agenda for this event (MC1-4).
- WP1-2 Special topic workshops (Q5, 3)
  - SH recalled that the purposes of the workshops for a small and flexible event. MF and HI both mentioned it could be organized locally for a few people who have special interest in a particular topic.
- WP1-3 Cross-CCP workshop (Q4, 2)
  - SH refreshed the purposes.
  - CM mentioned it could happen in the next year, as the CCP-Turbulence has also just started.
- WP1-4 Outreach (Q7, 2)
  - SH updated the purposes.
  - MF mentioned a list of science festivals,
    - Big Bang UK Young Scientists and Engineers Fair (March 2021)
    - British Science Festival (September 2021)
    - Blue Dot festival (July 2021)
  - CM mentioned some science activities in the Manchester Museum of Science and Industry and some other activities like <https://www.mosi.org/events-calendar/?pno=2>
  - It's suggested to produce and collect materials (for example, HPC simulation of NTH problems) from all working groups' work related to CCP-NTH. SH suggested to produce a banner for the CCP for use in events/stands.
  - Action for WW: to ask for materials/pics/videos from volunteers in the next annual meeting (MC1-5). (WW mentioned the copyright issues of these materials.)
- WP1-5 Exchange of visitors in the UK (Q3, Annual X3) and WP1-7 In/out international visits (Q3, Annual X (2 incoming + 2 outgoing))
  - To postpone until the COVID-19 situation becomes clear.
  - SH highlights that WP1-7 does not support the international conferences.
  - MF mentioned it is better to double check whether PhD students are eligible to received funding (ACTION MC1-6). Different from the CDT in EPSRC.
  - WW mentioned the application time (currently 6 months rolling) is ambiguous. SH explained and will change it in the document of Visiting Grands (ACTION MC1-7).
  - In the output of the WP1-5/7, a CCP-NTH dissemination should be added (ACTION MC1-8).
  - The MCM agreed that the general Call document was appropriate except for the above suggested changes.
- WP1-6 Training courses (Q5, 4)
  - CM mentioned the training in EPCC in December. SH suggested CM take charge of this activity (ACTION MC1-9).
  - CM mentioned the training course at Juelich (Germany) in December.
  - JU mentioned the last training activities of Code\_Saturne in Manchester co-organised by the SIG NTH and stated that they are interested in co-organised with the CCP similar courses.
- WP1-8 International workshops (Q9, 2) – not urgent, *not discussed*

- WP1-9 Benchmarking exercise (Q6, 3)
  - Potential topics: SCWR, LMR, ...
  - Format and timelines (Preparation of data, Call for participants, simulations, collation of data and presentation, publication) – *not discussed much*
  - First exercise (must start to think now) – topic & host – *not discussed much*;
  - *SH and HI agreed to collect some information about existing/ongoing Benchmarking exercise. All should start to think about suggesting titles etc. (ACTION MC1-10).*
- WP1-10 Website (Q1-Q6) – *not discussed* except the web domain (www.ccpnth.ac.uk).

### **Topic 5. WP 2 tasks and CoSeC support.**

- General
  - A total of 1 FTE awarded.
  - DE introduced the CoSeC in STFC.
    - The Computational Science Centre for Research Communities (CoSeC) supports the advancement of scientific research by developing and strengthening software to analyse and solve increasingly complex problems in multiple disciplines - physics, chemistry, life sciences, engineering, and more. Funded by EPSRC, MRC, and BBSRC, CoSeC also provides a hub for exchanging knowledge and expertise through training and outreach. Long-term partnerships and collaborations with universities and other research establishments are at the heart of what the CoSeC does.
  - WW updated the work plan for the WP2. *The work plan document will be shared in the online storage (ACTION MC1-11).*
- WP2-0 Secretary (0.1 FTE)
  - WW introduced the planned tasks for the project management and reports.
- WP2-1 Robust CFD (0.2 FTE)
  - WW introduced the planned tasks for the robust CFD.
  - EM suggested having a clear objective for the code-to-code comparison study, which should not only generally compare which solver gives a closer estimation, but have a clearly defined purpose.
- WP2-2 DNS/LES code/method (0.6 FTE)
  - WW introduced the planned tasks for the DNS study.
  - EM asked about which HPC system the CHAPSim solver targets and gave a brief introduction of the ECP project in the US. DE mentioned the solver will target at the pre-exascale computing (ARCHER2).
- WP2-3 Technical support (0.1 FTE)
  - WW mentioned technical support will be provided through the whole project by CoSeC.

### **Topic 6: Other Business**

- None.

4. Summary of Actions			
Number	Who	Action	Due date
MC1-1	SH	To revise the draft contract to remove about the reference to 'non-voting' MC members	ASAP
MC1-2	WW	To double check whether there is a private storage and private login for document storage in the CCPNTH website.	ASAP
MC1-3	WW	To carry out a doodle poll about the time for the ATM for all the MCM; also consulting some other key relevant CCP members (e.g., FNC) to consider including a session for SIG NTH update (action on SH, HI).	ASAP
MC1-4	SH, HI and WW	To produce an agenda for the ATM meeting.	ASAP
MC1-5	WW	To ask for/collect materials/pics/videos from volunteers in the next annual meeting.	The next ATM meeting, continuous
MC1-6	SH	To double check whether PhD students are eligible to receive EPSRC funding (for the UK visiting grants).	ASAP
MC1-7	SH, WW	To change/revise the WP1-5/7 application frequency (6 months rolling now) in the document for Visiting Grants.	ASAP
MC1-8	SH, WW	To add the CCP-NTH dissemination in the output of the WP1-5/7 in the document for Visiting Grants.	ASAP
MC1-9	CM	To look into arranging the training (EPCC) in December.	December, 2020
MC1-10	SH, HI, all	To collect some information about existing/ongoing benchmarking exercise. All should start to think about suggesting titles etc	The next MCM
MC1-11	WW	The work plan document will be shared in the online storage.	After Action MC1-2