

## CCPi Exec Meeting – Wednesday 5 May 2021

Via 'zoom' video-conference main meeting 9:30am-11:30am

### Minutes

Attendees [11]

Apologies ():

- Martin Turner (Manchester, MT)
- Laura Murgatroyd (STFC, LM)
- Philip Withers (Manchester, PW)
- Bill Lionheart (Manchester, BL)
- Llion Evans (Swansea, LE)
- Jay Warnett (Warwick, JW)
- Jakob Sauer Jørgensen (DTU, JJ)
- Edoardo Pasca (STFC, EP)
- Gemma Fardell (STFC, GF)
- Evangelos (Vaggelis) Papoutsellis (STFC, EVP)
- Rebecca Cross (Manchester, RC)

Minute	Item	Action
21.5.01	Management Structure explained and went through list of previous actions from 2021 – list below in app A.	
21.5.02	<p><b>Funds are available on the three EPSRC grants:</b> CCPi Phase 2; CCPi Phase 3 and Flagship. <b>Action:</b> word document listing options for spending to be created and distributed so can agree items within next four weeks</p> <p>Two grants; a new EPSRC Rich Tomography grant (BL) started 2021 and a ROKE project is in preparation and still to be agreed upon. BL gave a brief summary and issues regarding staffing.</p>	MT/RC
21.5.03	<p><b>STFC CoSeC update on CCPi code delivery (EP)</b></p> <p>EP gave a short presentation listing: the multiple papers in preparation, a possible Royal Soc cover image and CIL training courses <b>Action:</b> list to be collated and placed on website</p> <p>CIL software release 2021 schedule with training sessions at: <b>Action:</b> Advertise training in Fully3D and set limit on number of places – we believe we can handle around 100. <b>Action:</b> Advertise event and fix date for future (circa September 2021) for DVC workshop: one for open source code; one for commercial code Currently working on developing jupyter notebooks for the fully3D training.</p> <p>CIL plugin has been integrated with MantidImaging (IMAT's interface for CT), so they can use the TV reconstruction presented in the CIL1 paper.</p> <p>EPAC (GUI) described – this will be an interface for pre-processing and reconstruction.</p>	<p>EP/MT</p> <p>EP/MT</p> <p>EP/MT</p>



21.5.04	<p><b>Network activities in period (MT)</b></p> <ul style="list-style-type: none"> <li>- <b>Action:</b> Zoom seminar series: <a href="http://www.ccp.ac.uk/node/885">http://www.ccp.ac.uk/node/885</a> to continue after Summer conference schedule with</li> <li>- CLS (Compact Light Source) workshop for EPSRC call was successful and CCPi willing to assist if required.</li> <li>- Advances in XCT conference at Harwell was well received and 6<sup>th</sup> annual event being planned for 2022</li> </ul>	MT
21.5.05	<p>Final progress was presented on <b>Flagship and Royal Society Phil Trans A papers</b></p> <p>Papers and code being polished and presented – results to be linked from website.</p> <p>Future travel grants for Flagship staff are available on network grant.</p>	ALL
21.5.06	<p><b>Brief review of CCPi links (EP/MT/ JW)</b></p> <ul style="list-style-type: none"> <li>- ISIS IMAT updates:</li> <li>- EPAC updates:</li> <li>- DLS integration (inc. Laminography ...):</li> <li>- NXCT (National Xray Computed Tomography) <a href="https://nxct.ac.uk/">https://nxct.ac.uk/</a></li> <li>- Labs (QMUL/ Swansea, ...):</li> </ul> <p>Strategy connections will continue to evolve and be presented in future meetings.</p>	JW/EP/MT
21.6.07	<p><b>Industrial links</b> (just starting on grant) (LE)</p> <p>IBSim-4i 2021: <i>LE gave summary of activities and benchmark data sets</i></p> <p><b>Action:</b> Request invoice for IOP meeting – London – and see when can be paid.</p> <p><b>Extra funds requested</b></p> <p><b>Action:</b> LE to manage a possible eCSE Archer2 project proposal (CIL to mesh to ParaFEM <a href="https://parafem.org.uk/">https://parafem.org.uk/</a>) with Lee Margetts (UoM). GF is working on streamlining the current CIL to make it usable at Industrial size resolutions (\$2k<sup>3</sup>\$).</p>	MT/LE  LE
21.6.08	<p>Future networking activities: Summer schedule and CCPi involvements re being advertised and will link to future CCPi management meetings.</p>	MT
21.6.09	<p>Request for funds complete:</p> <ul style="list-style-type: none"> <li>- ARTisT-BAM license paid for at UoM</li> <li>- Registered for Fully3D attendance, paper submission</li> <li>- Sponsorship deal for NPL dimensional-XCT 2021: virtual booth, presentation etc...</li> </ul> <p><b>Action:</b> Further funds and proposals welcome</p>	ALL
21.6.10	<p>Dates for next meetings:</p> <p><b>-Working Group 21 June 2021</b></p> <p><b>-Exec Meetings planned prior to conferences during the Summer Season</b></p>	MT

	Workshop for training Gianluca to give September training course in DVC.		
AOB	<b>Website Options</b> Transfer from the current Drupal will be completed by end March 2022; The Twiki closed down last month (March 2021).		MT/EP
<b>Minute</b>	<b>Action</b>	<b>Person Responsible</b>	<b>Completion date</b>
	SEE ABOVE		

**Presentation by EP, on CoSeC activity involved the following members of staff:**

Edoardo Pasca Email: [edoardo.pasca@stfc.ac.uk](mailto:edoardo.pasca@stfc.ac.uk)

Gemma Fardell Email: [gemma.fardell@stfc.ac.uk](mailto:gemma.fardell@stfc.ac.uk)

Evangelos Papoutsellis [evangelos.papoutsellis@stfc.ac.uk](mailto:evangelos.papoutsellis@stfc.ac.uk)

Evgueni Ovtchinnikov [evgueni.ovtchinnikov@stfc.ac.uk](mailto:evgueni.ovtchinnikov@stfc.ac.uk)

Laura Murgatroyd [laura.murgatroyd@stfc.ac.uk](mailto:laura.murgatroyd@stfc.ac.uk)

**Extra items discussed:**

- Covid-19 vis work updates (SARScov2 tomography) with Alan Roseman ([alan.roseman@manchester.ac.uk](mailto:alan.roseman@manchester.ac.uk)), **Action vRSE Meeting Friday 21 May 2021**
- Links to BiolamgingPro network – sharing announcements: [ruikang.xue@ucl.ac.uk](mailto:ruikang.xue@ucl.ac.uk)
- Production drupal server (ccpi website) is being switched off– thanks to Phil Pavelin (STFC) for past work [philip.pavelin@stfc.ac.uk](mailto:philip.pavelin@stfc.ac.uk)
- Request for funds – website development for the dimensional-XCT conference [wenjuan.sun@npl.co.uk](mailto:wenjuan.sun@npl.co.uk)
- BL presenting on 6-7 May 2021 at Excalibur Workshop on "Inverse Problems and Optimisation" <https://excalibur-sle.github.io/workshop4.html>
- Turing network / training funds already applied for are potentially available – check with MT.

**Appendix A: Items for 2020-2021**

1. Software to be developed in year one

- Major CIL release in Oct (up to RoySoc paper deadline)
- Ryan to continue working on hyperspectral data
- ... and Covid19 work is ongoing.
- Continued integration and case studies on application of CIL to SynerBI data - Edo and [Vaggelis@STFC](mailto:Vaggelis@STFC) will lead.
- ... in particular, Motion-compensation will continue
- Gemma support Fernando at Diamond on laminography.
- Beta testing by Llion Evans with new geometry including centering correction for cone-beam data released.
- IMAT reconstruction continuation
- EPAC, ongoing discussion
- Start discussions with all National Facility/Tim-Jay on use of CIL.

2. Network Activities

- Community Engagement: meetings from (postponed) September iBSIM, dXCT and ...
- Exchange visits proposals – review the call process.
- Software development: hackathons/ training / ...
- EPSRC Roadmap review (for 2021-2023)
- Annual training course – Turing Institute funds available