

CCPi Exec Meeting – Wednesday 20 July 2022

Via 'zoom' video-conference 3pm-5pm

Minutes

Attendees [10]

Apologies ([2] Evelina Ametova; Bill Lionheart)

- Martin Turner (Manchester, MT)
- Philip Withers (Manchester, PW)
- Llion Evans (Swansea, LE)
- Jay Warnett (Warwick, JW)
- Jakob Sauer Jørgensen (DTU JJ)
- Gemma Fardell (STFC, GF)
- Evangelos (Vaggelis) Papoutsellis (STFC, EVP)
- Rebecca Cross (Manchester, RC)?
- Laura Murgatroyd (STFC, LM)
- Nikola Wadeson (Manchester, NW)

Minute	Item	Action
08.20.01	<p>Spending schedule for Phase 2 extension until 31 Dec 2021</p> <ol style="list-style-type: none"> 1. ARTisT simulation software 3-user license - Amin Garbout has an installation schedule at NXCT.ac.uk PAID 2. PostReality 2.0 studio: AR (Augmented Reality Presentations Platform) for posters - 5 seat license: Llion Evans put together a Working Group PAID 3. Website development: approx £7k inc VAT PAID Request for logo design both CCPi and CIL Approved 4. Funds for IBSIM 2022 - £1,000 Request and Done 2022 Request five student places Approved 5. Funds for ToScA 2022 - £500+ £350 Silver sponsorship plus workshop Request and Done 2022 Request five student places Approved 6. Summer training session £10k EXTRA on top of current £10k funds for continual training courses this year requested PAID <p>For Phase 3</p> <ol style="list-style-type: none"> 1. Sponsorship deal for NPL linked dimensional-XCT 2022 Request £~2,800 for registration plus some student fees and possible international visits. <p>Action: All requests approved and further funding projects / activities for Phase 3 2022-2025 requested</p> <p>Action: further training – one-day; DVC course; autumn training session; training at IBSim 2022; LINK courses to NXCT</p> <p>Action: take forward the new users (30 users from Summer; 15 from December session) to become CIL software users.</p> <p>Aside: dXCT registration users to be reminded about CCPi network (Approved)</p> <p>Action Each sponsor of dXCT can be a member in the network – to check.</p>	<p>TALK Q2 2022</p> <p>Ongoing access request LL/MT</p> <p>April 2022 Start</p> <p>Approved</p> <p>ALL</p> <p>DevTeam: EP</p> <p>MT/JW</p> <p>MT</p>

	<p>Action Lunch and Learn from sponsors etc...</p> <p>Small extra accommodation requested between ToScA and CCP SyneRBI event for EP (one or two nights) Approved</p>	MT
08.20.02	Logo funds through STFC. Both CCPi and CIL logos etc. Approved	
08.20.03	<p>Visiting Scientists: Funded Evalina for visit in August Approved Carsten Brillon; later in 2022 Approved</p> <p>Aside: use equipment (core-equipment) grant from NXCT for 3D printing. CCPi to support if needed.</p>	
08.20.03	<p>Submission, allocations and LoS for grant; Bangor (Franke Vidal) application for a new XCT facility focussed on nuclear/radioactive material. Possible use of NXCT equipment access – contact PW or Tim Burnett</p>	
08.20.04	<p>Links to NXCT with CIL Need workstation (to be installed) need champion at Lab.</p>	Meetings ongoing (suggested monthly)
08.20.05	<p>Update on RICH tomography and SAR (Synthetic Aperture Radar) projects from BL Completed and extension has now been approved (BL).</p> <p>Use some of GF time in a parallel effort porting by Francis Watson (using CCPi-CIL routines).</p>	Need staffing BL
08.20.06	Update for Diamond via Kazantsev, Daniil; links and needs	EP/MT ongoing action
08.20.07	<p>Ongoing training courses planned at Albania, ToScA and IBSim-4i Need to request in advance but no fixed quota.</p> <p>NW to contact EP: regarding connection with DAaaS service at STFC</p>	GF to confirm process.
08.20.08	<p>Talk by GF and E(Vaggelis)P Three releases since last meeting (to 21.4.1) including: -CIL with complex data -Extended reconstruction class to use ASTRA or TIGRE for FBP -Improved centre of rotation correction</p> <p>New release will have: -ISTA/ TGV/ strongly convex TV/ improved memory. -Improved Zeiss data reader</p> <p>Using -STFC Cloud -Demo: CIL on binder or colab now with jupyter notebook</p> <p>NumFOCUS project (501c/3 public charity in US) – CIL to become</p>	<p>Next release v22.0.0</p> <p>Binder links are on website with demos.</p> <p>Next round 15</p>

	<p>an affiliated project then can apply for small grants. Action see if other STFC/SCD groups using this service</p> <p>CIL on Discord – very fast community responses and ~65 members</p> <p>Collaborators: NXCT – ongoing ESRF – some new user requests QMUL – ongoing with GD – installation for iterative version for Oct EPAC – new facility main lead is LM ISIS – 0.3 FTE with Adalovelace centre; integration with MANTIDImaging; next add TV-SPDHG</p> <p>Past training: -21-25 March 2022; SIAM Imaging Sciences (IS22) -11-13 April 2022; PyConDE and PyData in Berlin -27 April 2022; 2-5pm 11 attendees -June 2022; dXCT – focussed talk given</p> <p>Future -25 July 2022 CIMPA Summer School -22-26 August 2022 7th Cinemax Summer School -7-9 September 2022 ToScA 2x ½ day courses -17-21 October 2022 IBSim-4i one full day course -4 Jan-30 June 2023 Sessions at RNT in INI -Rich and Nonlinear Tomography -UoM@H / EPAC and NXCT not yet planned</p> <p>Ongoing hackathon process – plan to finalise Stochastic Techniques for inclusion possibly within CIL. Three hackathons (Nov 2021, 2022; TBC 2022) on stochastic completed and planned.</p>	<p>October 2022</p> <p>Standalone courses available as well</p>
08.20.09	<p>CIL GUI (LM presentation) -DAaaS platform implementation of basic pre-processing/ FBP and FDK.</p>	
08.20.10	<p>CIL DVC app (LM presentation) -Licencing on Apache 2 release -Protocol paper to be released -Training course in Autumn -Add new features; strain etc...</p>	
08.20.11	<p>CILViewer Web version (LM presentation) -including volume renderer</p>	
08.20.12	<p>AOB -New lunch and learn: co-promote with NXCT: request remote. Future move around locations. -WG in three months time Plan for follow on regarding CCPi Phase 4 – planned targets for big objectives.</p>	
	ACTIONS ABOVE	

CoSeC activity involved the following members of staff:

Edoardo Pasca Email: edoardo.pasca@stfc.ac.uk

Gemma Fardell Email: gemma.fardell@stfc.ac.uk

Evangelos Papoutsellis evangelos.papoutsellis@stfc.ac.uk

Evgueni Ovtchinnikov evgueni.ovtchinnikov@stfc.ac.uk

Laura Murgatroyd laura.murgatroyd@stfc.ac.uk

Other Developers – on SAR reconstruction: Synthetic Aperture Radar

Sophia Coburn,

Valerie Titarenko

Francis Watson

Statistics 18/10/2022:

CCPi-MEMBERS@jiscmail.ac.uk 369 members

CCPi-DEVEL@jiscmail.ac.uk 31 members

LinkedIn CCPi group created ../groups/9090791/ 43 members

Zenodo CCPi community data sets/files ../collection/user-ccpi 70 open documents

Discord Channel (general): 94 members

08.20.13 Extra Items:

Future key events: **Newton Institute - Rich and Nonlinear Tomography** - a multidisciplinary approach RNT 4 January 2023 to 30 June 2023 <https://www.newton.ac.uk/event/rnt/>

Action: BL et al to look at being editors for a Royal Society Phil Trans A special Issue in RNT

-20-24 March 2023 CIL sessions before and after.

-27-31 March 2023: INI second workshop "Rich and non-linear tomography in medical imaging, materials and non destructive testing" RNTW02: organiser Marta Betcke University College London

-3-5 April 2023 CIL post update

Other related workshop:

-19-23 June 2023 INI final workshop "Synergistic workshop on Rich and Nonlinear tomography aimed at drawing together all strands of both methods and applications with new insights" RNTW04