

Big Data in X-ray Microscopy Workshop Program

SATURDAY

8.30	REGISTRATON		
Morning session			
9.00	Organisers & sponsors	Welcome	
9.25	Anton Barty†	DESY, Germany	Taming the Deluge of Data from X-Ray Free Electron Lasers
9.55	Bjoern Enders	TUM, Germany	Ptypy - A Python Package for Ptychography
10.15	Coffee break - Extended with software demos and posters		
11.10	Chris Jacobsen*	APS, USA	"Big Data" at USA Light Source facilities
11.40	Kadda Medjoubi*	Soleil, France	Scanning Multi-Technique 3D/2D Imaging at Soleil: Flyscan Architecture, Data Processing and Storage Strategy
12.10	Darren Thompson	CSIRO, Australia	Rapid Large-Scale X-Ray Computed Tomography with X-TRACT and MASSIVE at the Australian Synchrotron
12.30	Extended lunchbreak - with software demos and posters		
Afternoon session			
2.30	Kevin Vinsen*	ICRAR, Australia	The Big Data Challenges facing the Square Kilometre Array (SKA) Science Data Processor (SDP)
3.00	Sam Yang	CSIRO, Australia	Multi-Energy X-Ray CT Based Data-Constrained Modelling of Material Microstructure and Properties
3.20	Markus Osterhof	Göttingen, Germany	A Web-Based Collaborative X-Ray Images Visualisation and Analysis Tool
3.40	Coffee break		
4.20	Paul Quinn	Diamond, UK	Data Handling and Processing at Diamond: Current and Future Directions for Microscopy
4.40	Dula Parkinson	LBNL, USA	Spot Suite: Towards an End-to-End Solution for Light Source Big Data
5.00	Chris Ryan	CSIRO, Australia	X-Ray Event Processing in Maia: Event Filtering and Real-Time Analysis in XFM Element Imaging

SUNDAY

Morning session			
9.00	Kevin Mader*	SLS, Switzerland	Scaling Up: Image Processing and Analytics using Spark
9.30	Yijin Liu	SLAC, USA	The complexity of FIVE-dimensional visualization of materials at the nanoscale
9.50	Florian Meirer	U. Utrecht, Netherlands	Finding the Needle in the Haystack – Multivariate Analysis of Large Full-Field XANES Data Sets
10.10	Mirna Lerotic	2 nd Look Croatia	MANTIS: A Guide Through Spectromicroscopy Data
10.30	Coffee break		
11.00	Dadong Wang†	CSIRO, Australia	
11.30	Stefan Vogt	APS, USA	Next Generation Data Exploration for X-ray Microscopy: Intelligence in Data Analysis
11.50	Yudan Wang	SSRF, China	Big Data for X-Ray Imaging at SSRF
12.20	Zhonghou Cai	APS	Development of Differential Analysis Techniques for Discovery within Large Imaging Data Sets
12.30	Deng Biao	SSRF, China	X-Ray Fluorescence Computed Tomography at SSRF
12.50	Organisers & sponsors	Closing remarks	

*Invited, †Extended

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