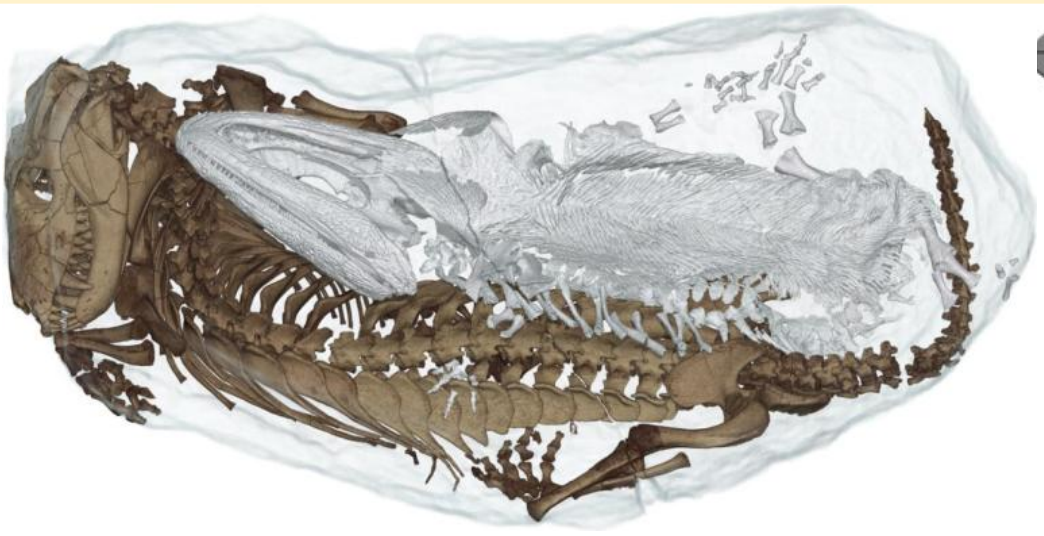
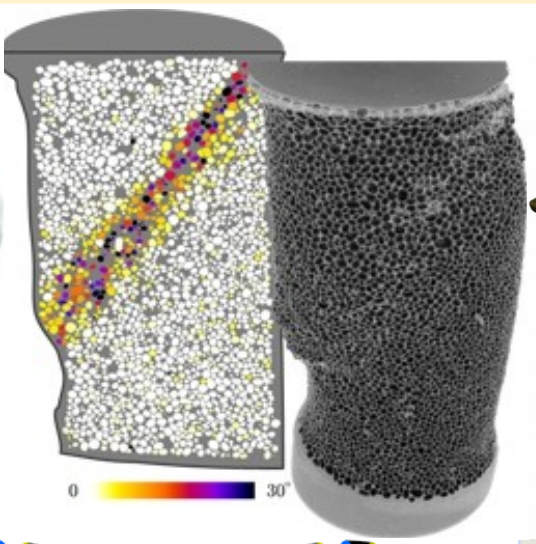
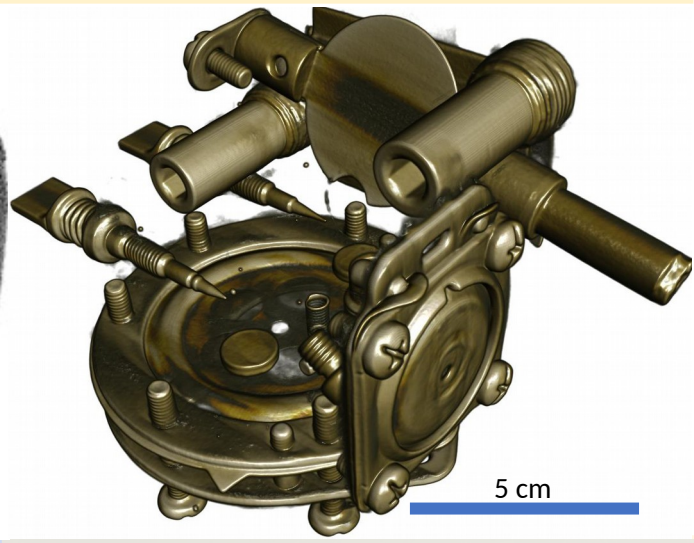
19th HERCULES Specialized Course

Quantitative Imaging using X-rays and Neutrons

15-19 May 2017, Grenoble, France

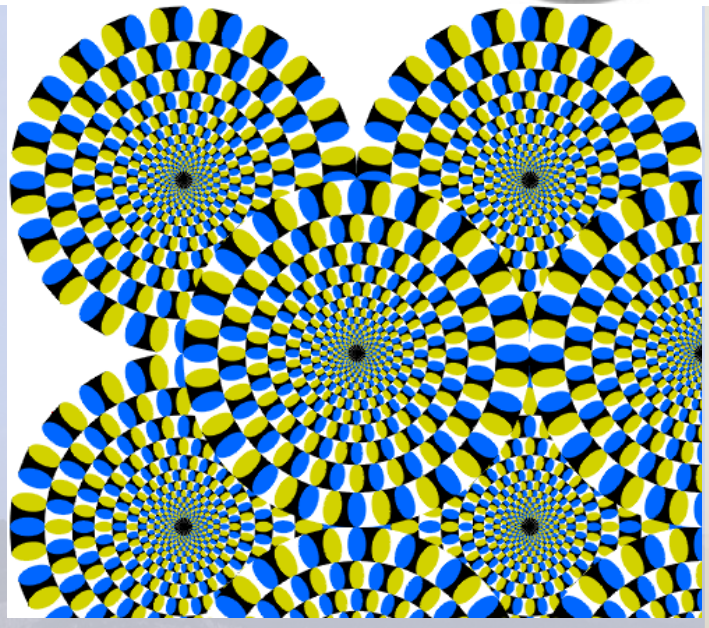






Scope of the course:

Imaging techniques have seen an intense development using neutron and synchrotron radiation over the past 20 years, with brighter sources and more efficient detectors.



Beyond experimental aspects, the data analysis workflow is essential for an efficient and objective interpretation of experimental data. This school will discuss the creation and use of images, with the help of "best practice" and "bad practice" examples, from the definition of experimental parameters, the reconstruction algorithms, to data visualization.

Techniques: two and three-dimensional imaging, time-resolved experiments, absorption, phase-contrast, scanning microscopy, coherent diffraction imaging, ptychography…

The school will include one **poster session**, one day of **practicals** and one day of **tutorials** focusing on data analysis.

Important dates:

- **Application deadline:** **19 March 2017**
- Notification of Acceptance: 27 March 2017
- Final Registration: 24 April 2017

Contact: hsc19@esrf.fr

http://www.esrf.eu/events/conferences/HSC/

Invited Speakers

Edward Andò
Georges-Pierre Bonneau
Emmanuel Brun
Peter Cloetens
Marine Cotte
François Curnier
Barbara Fayard
Stefan Eisebitt
Manuel Guizar-Sicairos
Andrew King
Eberhard Lehmann
Federica Marone
Rajmund Mokso
Markus Osterhoff
Paul Tafforeau
Alessandro Tengattini
Simon Zabler

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