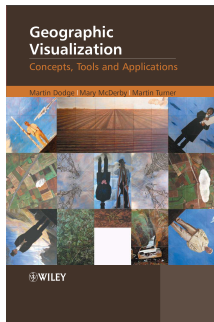


vizNET Activities at the University of Manchester 2007/2008

<http://www.manchester.ac.uk/researchcomputing/>
Martin Turner and Mary McDerby

Manchester has been exploring ways to aid the UK community with their visualization needs. Key areas of work that have been carried out:

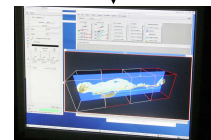


This first volume *Geographic Visualization* published through Wiley April 2008; editors Martin Dodge, Mary McDerby and Martin Turner.

Recorded Seminars and Training Sessions
The Insight Book Series
Surgery and Workshop Sessions
Visualization Loan Equipment Programme
Recorded Seminars and Training Sessions

Insight Book
Wiley Publishing

Surgery Sessions
and Workshops



Surgery sessions: opportunity for new and established users in the region to submit unusual data sets for visualization.

Material Sciences Workshops: New projects associated with combining Inverse Imaging processes with near real imaging.

Cluster machines are currently being tested.

Training Workshops: opportunity to focus and highlight new techniques.

Two Computational Steering sessions combined with *RealityGrid* and *gViz* software APIs. Two day sessions held at RAL (2007) and Manchester (2008).

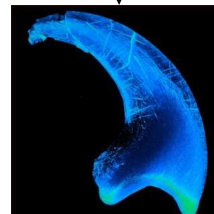
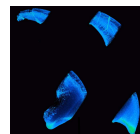


Visualization
Loan Equipment

Visualization Dissemination is facilitated by the loan of various stereoscopic equipment; PCs, projection displays as well as capturing systems.

A myriad of users have included:

- Geologists and Social Scientists demonstrating Spatial Geographies.
- Theatrical Performance Space.
- Specialist user group days: last two focused on Molecular Visualization and Material Sciences.



Viz. on the Cheap

New "Cheap" Workstation Facilities have been built and tested

Systems all include multiple cores and multiple graphics cards with a shared memory architecture:

- Desktop – component self-build system
- Laptop – allowing high-end portable visualization



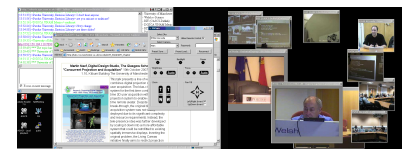
Demonstration session occurred throughout a five day Team Tumbleweed final presentation in a MOD Grand Challenge.

Recorded Seminars and Training Sessions

Training and Education are paramount and a series of activities are helping to disseminate best practice to a wider community.

These include:

- 14 Seminars for the 2007-2008 Series
- Total of 32 Seminars over the last three year: **ACM SIGGRAPH Manchester Professional Chapter.**
- All recordings are available to courses and researchers at any time of the day – currently being incorporated within the CREW VRE recording system.



Martin Naef Digital Design Studio, The Glasgow School of Art *Concurrent Projection and Acquisition* 19th October 2007

Thanks to all the teams within Research Computing Services at the University of Manchester, for the data with specific help from Access Grid Support Centre, National Grid Service, Advanced Interface Group at Manchester, research councils and JISC.

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