CT Scanner

CAF Central Analytical Facilities

STELLENBOSCH UNIVERSITY

I2P NEWS

The Stellenbosch Idea2Product Lab newsletter

"more than just a 3D print"

April 2015

In This Issue

Recent interesting prints (clickable links)

Our first 3D print – DNA spiral
http://blogs.sun.ac.za/idea2product/2015/01/26/stellenbosch-3d-print-lab-first-print/

nanoCT scan microstructure printed
http://blogs.sun.ac.za/idea2product/2015/01/26/3d-print-from-nanoct-data-set/

Sugar pot
http://blogs.sun.ac.za/idea2product/2015/02/12/3d-print-sugar-pot/

Educational DNA Spiral

3D printing can be used to print various types of educational "toys" like this DNA spiral. It shows how we can print two colours in one model and indicates the type of complexity possible with a consumer-level 3D printer. On demand printing of this model would cost you R1500 while a lab user would be able to print it at a cost of R200 + R600 membership fee for one month. This example includes a video to see the printing process.

Lots more images and videos at:

http://blogs.sun.ac.za/idea2product/2015/01/26/stellenbosch-3d-print-lab-first-print/

Welcome

Welcome to the first newsletter of Stellenbosch's very own 3D printing facility – easy access and open to everyone. Our aim is to make 3D printing accessible and open. We offer the following at minimal fees (Prices here http://blogs.sun.ac.za/idea2product/prices/):

- Demonstrations
- Training courses
- Self-use of the facility (DIY)
- Scan-to-print solutions
- On-demand printing
- Custom products like cell phone cases with your name on it.

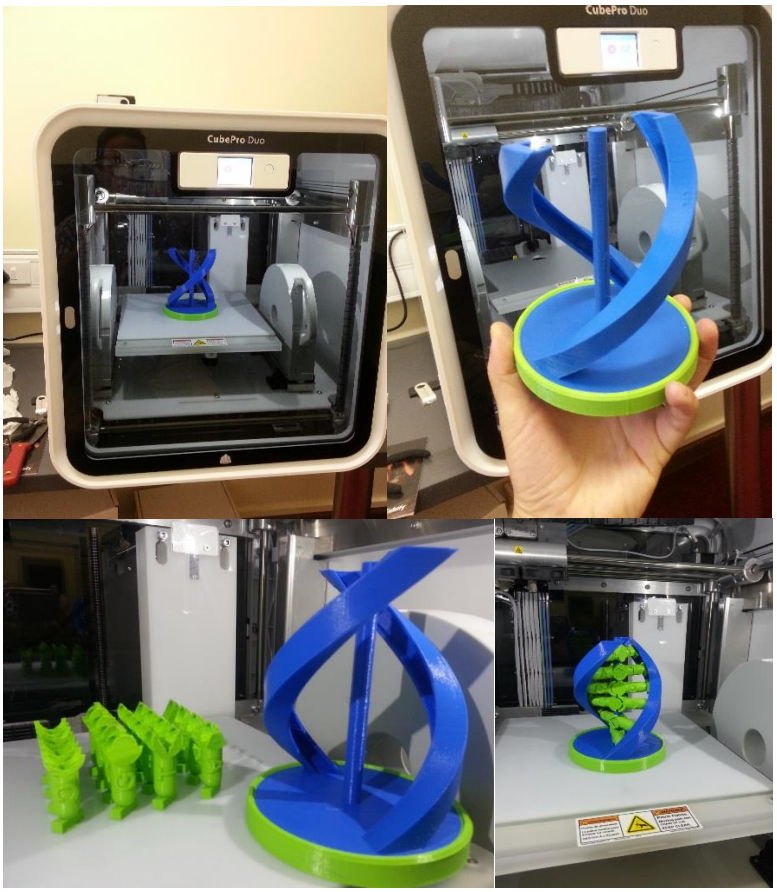

Figure 1: Educational DNA spiral

NanoCT scan data 3D printed

The new nanoCT scanner is great at resolving fine details of materials and microstructures, but taking that data and making a physical print is just taking the technology to the next level. Here is the first successful example of a client's 3D printed nanoCT scan. We cannot say much about the structure as the work is still in progress but the idea is simple: print your data!

http://blogs.sun.ac.za/idea2product/2015/01/26/3d-print-from-nanoct-data-set/

Pricelist

- **Introduction training**

Introduction trainings are done for new lab users, including an overview of the available softwares and a small 3d print from a selection of choices. This introduction session is included in the R600 monthly subscription.

- **Official training courses**

Official training courses are provided regularly, watch the website and newsletter for upcoming courses. Incorporating 3D printing into an existing curriculum is also possible, as are large groups. Costs vary from R1000 pp

- **Self-use of the facility (DIY)**

R600 per month buys you unlimited access to all 5 printers, handheld scanner, 4 workstations and all the software we currently have including Cubify Sculpt, Cubify Invent, AutoCAD123 and Blender. Print costs depend on filament and vary from R200 for enough to print 2 cellphone cases if there are no errors.

- **Scan-to-print solutions**

CT scan data can be modified for reverse engineering and 3D printing. Scan-to-print solutions can be offered, starting from R2000

- **On-demand printing**

We can print anything on demand at prices that vary depending on size of object. All examples so far on our website have prices for on-demand printing. Large batches allow for up to 20% discount.

- **Custom products** like cell phone cases with your name on it, or a logo: R200.

Figure 2: A nanoCT scan of a complex material microstructure was replicated in a blown-up sized 3D print – the happy client is holding the print here

Figure 3: Some examples of cellphone cases – we print any model cellphone case with your name or any text in any font R228 INCL VAT. Colours can be selected from our current stock.

Contact Us

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GOOGLE MAPS LOCATION

Acknowledgements

The 3D print lab is a division of the CT Scanner Facility at the Central Analytical Facilities, Stellenbosch University. The 3D printers were afforded through grants from the NRF and DST. The Department of Science and Technology Internship program is also acknowledged for its support of this facility.

We encourage and welcome any form of sponsorship or support in order to keep delivering the best quality. If you have a 3D printer or related technology underutilized, incorporate it into our facility. We ensure maximum usage and best maintenance of equipment.

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