

CLEAPSS
Design and
Technology

Future minds

Tomorrow's world explored today

Special



Special Edition
Summer 2019

Futureminds LIVE

Introduction to our 2019 Special

This is a special, short, edition of *Futureminds* to update you on the cancellation of the recent Live event and to seek your help in discovering why it was not more popular.

The planning for the *Futureminds Live* event started last autumn.

We approached all of the Futureminds contributors and other contacts in the D&T world to seek their help and support. Everyone we spoke to was positive about the idea of a live summer event, which would reflect the diversity of the newsletter, and include lots of innovative and exciting presentations and displays.

We quickly achieved over 20 workshop presenters, and more than 20 exhibition stands.

So where do you think we went wrong? And how can we put it right?

The aim of the event was to inspire teachers with some new thinking and new ideas, as well as build a stronger relationship between our readers and the contributors. In the end, though, we had to cancel due to lack of ticket sales.

From our daily dealings with schools, we understand the difficulties which prevent both teachers and technicians from being able to get out of school for training or support. This is, in part, why we decided to try to run the event on a Saturday.

We did not intend to make a profit from the event, and set the ticket price at £80 in order to cover the costs of the venue and refreshments, if sufficient were sold. We charged £200 for exhibition spaces and were pleased at the level of interest. It was pointed out to us, by several exhibitors, that this was a rare occasion where

companies that supply the D&T departments with equipment and resources, could actually get to meet potential purchasers.

Since cancellation, we have spoken to many of the presenters and exhibitors. In general, it seems that the planned event met their needs, so they were also disappointed that they did not get the opportunity to perform on the day. Our two keynote speakers had put together fantastic talks. We would certainly want to work with them again.

Over the coming summer, we will be looking at other venues and possible dates, to see if there are more suitable times for teachers and technicians, whether a more central venue would be more suitable, and if we can alter the event size and scope to increase its appeal.

What have you and your students missed?



Futureminds LIVE

To help us with this planning, we have put together a short survey, which I would ask you to complete. It should only take a couple of minutes. Please feel free to pass the link to others in your networks, as the information we get back will help us to make sure we get it right next time.

TAKE THE SURVEY AT

<https://www.surveymonkey.com/r/2TMKNMP>

AND MAKE A DIFFERENCE

The spring 2019 Futureminds is still available on the website, which gives a detailed breakdown of the programme for the event, so please take a look and let us know if you think anything was missing.

If you are interested in providing articles for Futureminds, please let me know. Articles take the form of around 500 words with some high-quality images. We would like to see more articles from schools and colleges about the exciting and innovative practice that is happening every day.

The topic or theme is yours.

Take a look at the previous editions on the website:
<http://dt.cleapss.org.uk/Resources/FutureMinds/>

With your help we can make the impossible, possible.

What else have you and your students missed?



End of Summer Term CHECKLIST

Here you will find information about things that you may need to get done in your D&T and Food rooms before the end of term, as well as things that you need to ensure are kept in appropriate conditions so that they are safe to use in September.

Consider the working temperatures in your practical spaces. As the summer starts to heat up, your rooms will too. Try to make sure you have good ventilation, without disturbing others.

Remember, as the temperature rises, staff and pupils can dehydrate, so make sure you and your pupils have access to fresh drinking water. There is a lot of research that shows concentration drops as you get dehydrated, in a workshop or food room, this can be particularly important.

Some of the equipment and materials used in practical areas will need to be put away or decommissioned for the summer. Make sure that items are stored safely. Don't place heavy items on high shelves. Remember to take care of flexes and plugs. When storing electrical items cables should not be tightly wound around equipment as this can damage the cable insulation.

Workshops/Art studios:

In the last week of term, it would be a good idea to lightly oil bare metal surfaces of machines and hand tools. This can be done with thin lubrication oil, such as 3 in 1, and wiped onto the surface using a piece of rag. Prior to oiling machines, ensure that the machine is off and the power is isolated. The person doing this should wear disposable chemical-resistant gloves or barrier cream. The rag should be disposed of in a plastic bag, which can then be sealed and placed in the bin as normal waste.

3D printers and other equipment that heat plastic should have any filament or material removed from the heated components. For 3D printers, this will mean heating the hot end and then removing the filament. Laser cutter beds should be cleaned and any small bits of material vacuumed out of the cutting area.



Food rooms:

Ovens and grills should be cleaned and fridges emptied and wiped clean. Freezers may still have food in them, but ideally these should also be emptied and defrosted, and then cleaned.

All food storage areas should be cleared and cleaned, to help to keep pests at bay.

Bear in mind that gas cookers are on flexible pipes. Cookers should have safety chains fitted to stop them being moved when in use, but, for



End of Summer Term CHECKLIST

cleaning purposes, the chains can be removed. Food room sinks can have remnants of food waste in the traps, so it's a good idea to run the taps for a few minutes after the last lesson. If possible, make arrangements for someone to run the taps every few days over the summer break, to make sure the traps always contain water. They can dry out in hot weather, which can allow smells and pests to rise through the drainage system.



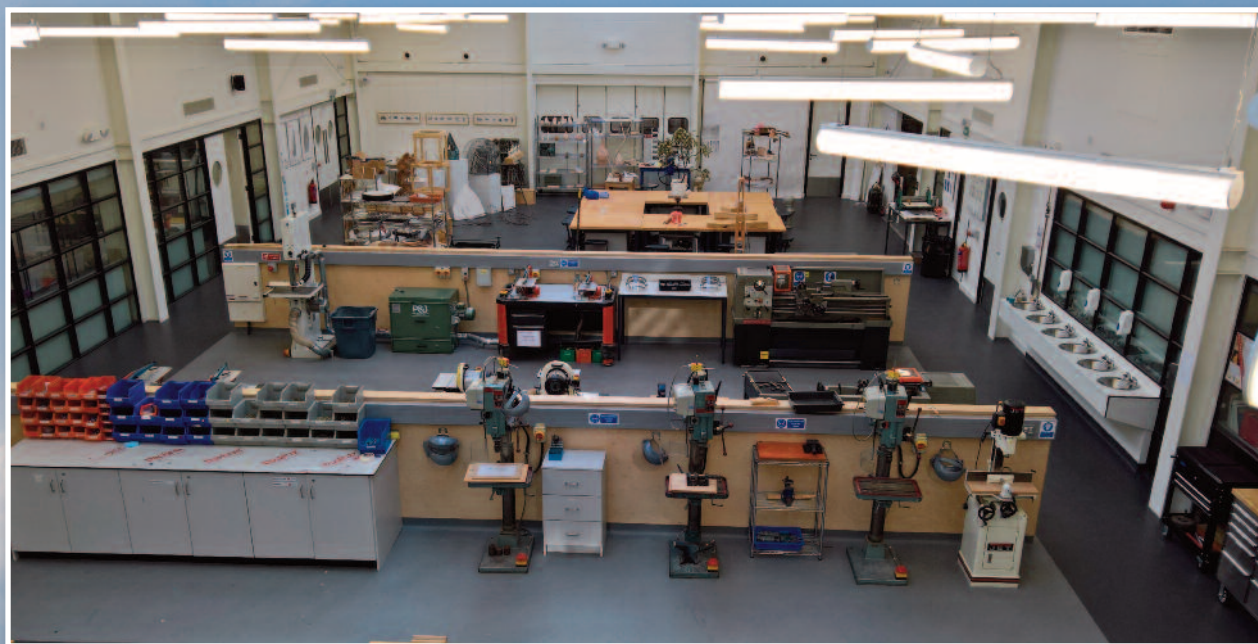
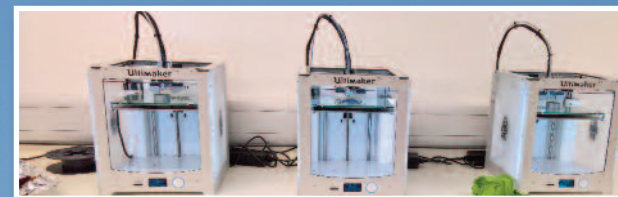
Textiles:

Some textiles equipment will need servicing and lubricating. Check with the manufacturer's instructions, or contact your service engineer for further advice.

All rooms:

At the end of term, make sure all the power is locked off to the rooms, plugs are switched off and isolators are off. Cleaners and site staff will still have access to the rooms, so it is important, for safety purposes, that equipment is stored securely and tool stores are locked.

If you have any queries, contact the CLEAPSS **helpline**: 01895 251 496. CLEAPSS staff do not work to school dates so there will always be an advisor available during the holidays.



New documents

Over the early part of the summer term we have produced a number of new documents:

GL324 Dealing with a blood spill in D&T and Art

This came about following a helpline that asked what procedure should be followed to ensure that small blood spills, such as those from a cut in a food room, should be cleaned effectively and safely. The new guidance takes account of larger blood spills, as well as small ones.

GL325 using a welding facility

GL326 Managing welding fumes in schools and colleges

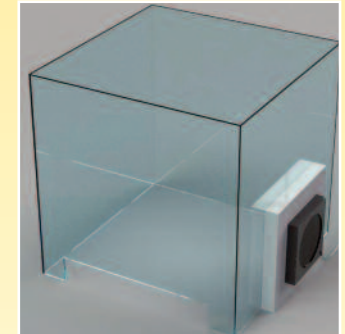
Following the change in HSE guidance on controlling welding fumes we have produced two documents, GL2325 pulls together our advice in all aspects of using welding or plasma cutting equipment in schools, while GL326 concentrates on the control of fumes from the welding process.



GL327 Making a printer fume extraction cabinet

3D emission hood components

As readers will be aware, we have been doing lots of work on the use of 3D printers in schools and colleges over the past couple of years. Our HSE-endorsed guidance on controlling the hazards related to these machines is available on the website (*3D printing in schools and colleges; managing the risks*). This led us to looking at making our own extraction hood, using readily available components. GL327 explains how to make the hood using the components available from the website.



CLEAPSS small print

The HSE has publicised that it is going to be inspecting businesses with a focus on dust control. Although schools will not necessarily be targeted in these inspections, it is worth taking a moment to think about whether dust is being adequately controlled in your school.

Inspectors are visiting businesses to see what measures have been put in place to protect workers' lungs from the likes of asbestos, silica, wood and flour dust. They will be looking for evidence of businesses and their workers knowing the risks, planning their work and using the right controls. Where necessary, the HSE will use enforcement to make sure people are protected.

Are your dust control systems working as they should? When was the last time you had them checked or serviced by a suitably competent person? Do all of your staff, and others who may be affected by the dust controls, fully aware of the risks and their responsibilities?

If you want further advice on dust or fume control use the term 'dust' to search the website and you will see that we have many useful resources to help you control the hazards.



The HSE has a BREXIT update area on its website, one aspect of which describes the changes being made to H&S regulation and guidance. It clearly states that the UK is strongly committed to ensuring that only safe and compliant work equipment and machinery is placed on the market. This will not change after Brexit.

This is good to hear, but schools should also be aware that as the market opens, due diligence will be important when purchasing materials or equipment. If you are in doubt over the suitability of a piece of equipment or materials, please contact CLEAPSS via the *helpline*.

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Some recent tweets



#3Dprinting on the moon - why not? Making bricks from moon dust using 3D printing technology, see the brick at the #sciencemuseum
http://www.esa.int/ESA_in_your_country/United_Kingdom/Moon_brick_on_display_at_the_Science_Museum

There are a couple of technicians jobs on the website, both starting in September, Cambs and West Mids: dt.cleapss.org.uk/Job-Service/jo...

CLEAPSS
Design and Technology

Exciting and safe practical work
in schools and colleges

FutureMinds | Projects | Administration | MRATs | Services | Search

Current Technician Vacancies

The CLEAPSS Technician Job Service is a service provided to CLEAPSS members that allows members to post adverts for technician vacancies at their school or college onto this part of the CLEAPSS website. Anyone may browse the list of vacancies on this page and then apply for the job directly with the particular school or college.

Job seekers: Please browse through the list of vacancies below.

Recruiters: Members can click [here](#) to post a vacancy (you will need your membership details).

If you require any further information then please contact the school directly. Please do not contact CLEAPSS as we cannot give you any more information than already appears on the site.

Please note that we cannot verify the accuracy of the information provided to us and applicants should check the details on the schools website or contact the school.

Teacher prep
You must log in to access this section. Resources for getting ready to run the project and looking at the project and (DfE).

Launch
Resources to help getting into teams, with the brief file and get started on the project.

Research
Understand the setting for your ideas including Design Museum Shop and target audience.

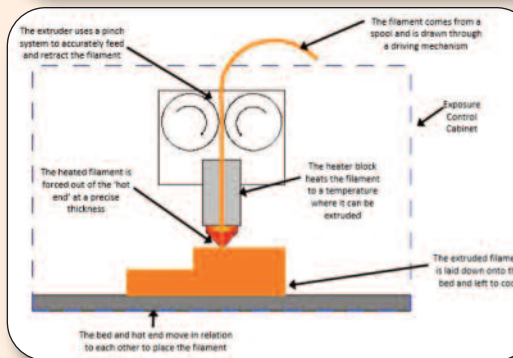
Idea Generation
Get creative and look for ways to come up with new and original responses to the theme.

Refining your design
Reflect on different aspects of the brief to help develop ideas, find flaws and rethink to make them even better.

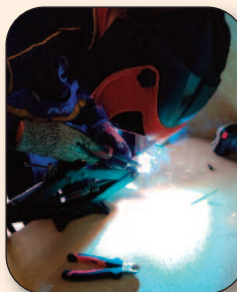
Enterprise
Make decisions on the manufacturing, costing and marketing of product ideas.

Pitching your idea
Communicate product ideas on paper and through a pitch.

Finishing up
A chance to reflect on the lessons learnt through the process and think about what's next.



Off to do a talk at the #mscuk conference tomorrow, #3dprinting safety, 3dprintingconnective.com



We have produced a few new documents, take a look at what's new: dt.cleapss.org.uk/Resources/What...

Great D&T project competition from the [#designmuseumventura.designmuseum.org](http://designmuseumventura.designmuseum.org)

The autumn edition of *Futureminds* will have a summary of the survey mentioned on page 3, so it is essential that you take part and have your say.

It will also carry articles from the Food Teachers Centre and Textiles Skills Academy discussing the latest developments in those areas.

We are hoping to have some updates from DATA and others on the progress with the new GCSE and other changes in the curriculum.

You can also follow us on twitter @CLEAPSS_DT

You can also follow Daves allotment progress on Instagram @parrys_plot it will soon be harvest time!