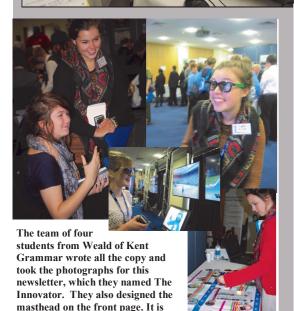
The Innovator



Olivia Brodie Stuart I have enjoyed working alongside a journalist. I've had the experience of creating something tangible. My favourite part of the exhibition was the 3D TV and the 3D Nintendo and phone. My favourite app was the I Spy Species.



Flo Simpson

My favourite part of the day was looking at the exhibition and talking to the man from Google. He showed me how to use available technology in a way I didn't know was possible. The day has also helped me hone my writing and design abilities. I also enjoyed the free lunch. Cheese and onion is a wonderful combination!

Hannah Davies

My favourite part was the BBC stand. I liked seeing the new TVs—they were amazing. I would invent a hover scooter to get to school—it would avoid the traffic and the insurance would be chean!

Ruby Forbes

I liked watching the App Challenge because the enthusiasm of the students was really uplifting. It was fun to see them being so creative and enjoying themselves. My favourite App was the glasses App, which makes things clear. It would help my mum!

The Innuvatur

27.09.11

Designing Tomorrow, Today



Future scientists get their lightbulb moment

By Flo Simpson, Olivia Brodie Stuart, Hannah Davies and **Ruby Forbes**



purposes. Today is the age of 'we media' and never people fascinated by science and engineering. more so than on the internet.

of the students to consider the scientists and engi-science. neers, of which there are 140 here today, behind the gadgets that make this interconnectivity possible.

into the assembly hall at the River Centre in Tonbridge. As the 297 students present at the event sit tered from table to table, 'What exactly is happen-scientists. ing today?' No one seems to be that sure what the immediately quelled as soon as each child is handed people's ideas to the forefront of the event.

old, that before 1969 the internet did not exist, use during the coming talk. Instantly there is audiwhen today we are always connected, whether for ble chatter and a real sense of excitement and ultiwork, entertainment, security, knowledge and social mately this is what the day is about – getting young

Co-founder of TeenTech Maggie Philbin is wel-However, the purpose of today's TeenTech sci- comed on stage and conducts a survey to find out ence and technology fair is to broaden the horizons the 300 students' opinions on certain aspects of

Her stage presence is both noticeable and very impressive; by getting each child to draw their idea There is an ambiance of anticipation as we all file of what a 'scientist' should look like she abolishes stereotypes in an instant, throwing the idea of a mad -haired, antisocial-genius out the window and aldown in the hall, one question can be heard mut- lowing each child to believe they themselves can be

With a focus on creativity and independence whole day is about. This atmosphere of confusion is the TeenTech day has the potential to bring young



their personal view of the event.



John reveals the story of TeenTech

We caught up with event co-ordinator John Tranter for a quickfire interview about the TeenTech event:

Who organised this event? It was a combination of TeenTech and EBP Kent.

Who is EBP Kent?

EBP (Education Business Partnership) Kent is an educationbased company that do things such as bespoke workshops and careers fairs for students, but we also act as a broker between businesses and schools, helping connect them.

Why was this event organised? The UK has had generations of inventors and scientists, but we've begun to notice a definite decline in this trend. The East is now producing a large number of these scientists and inventors, and obviously the economic climate will be having a negative effect. We've brought these Year 8 and 9's together to influence them – we hope to create a new generation of scientists, technicians, and engineers. Why did you choose the River

Centre in Tonbridge?

The River Centre seemed to meet all our needs with rooms for the different events. In relation to all the schools, it's also a pretty central location.



How many schools are there? We've got 30 schools here today. How many business' are here? How did they get involved? In the Inside Zone [where the Exhibition takes place] we have 20 companies, there are 10 doing the Challenges, and we have an App team here too – so that makes 31! Some of the companies, like Google and the BBC, are partners of the TeenTech brand, and others, such here.

as Leicester University, offered their services for free.

What do you hope the students will take from this event?

I really hope they will take away some idea as to what they want to pursue in the future. Obviously we really don't want to pressure them but it is a very competitive world after school. We hope they will be inspired by the fantastic stands and exhibitions we have

The Innovator

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A waterfall of ideas

After being given a Post-It note at the beginning of the day, these same Post-It notes later transformed the water feature in the main entrance of the River Centre.

These were bursting with notions for interesting, albeit ambitious, ideas for future inventions, reflecting the integral innovation of the pupils.

We caught up with them later to discover some eve-opening creativity.

Kairra Padorari's notion of a collar allowing your pet to talk or show its feelings was alongside other ideas such as xray glasses and a pill which alters your appearance. Alisha Durand had the idea of a radio that starts a conversation with you in the morning.

Students were clearly enthralled by the variety and sheer innovation of the technologies displayed.

> A radio that starts a conversation with you in the morning!

Year 9 student Adam found the fun and inspiring particularly making the wood grid, which demonstrated the strength of the material. His contribution to the Invention Waterfall was the much-desired teleporter.

Meanwhile, the opportunity to do a weather report was favoured by pupils of Queen Elizabeth School, whose invention of choice was a remote students clearly acted as an -controlled vacuum

The diversity of ideas and experiences on offer for the

A see-through toaster so that you can see when vour toast is ready!

inspiration, allowing pupils to recognise the excitement new technology has to offer.

There was a tangible sense of excitement in the main assembly hall as the App inventors Dave Addey, Justin Spooner and Alyson Fielding spoke of their recent endeavours; a train app that works out the next train home from wherever you are, alongside their number one selling QI app.

The iPhone has become a hugely popular device, and the number and diversity of apps already available is huge. The challenge to come up with an original idea is more difficult than it initially appears, but the students rose to the task with zeal. So, then came the pupils' chance to rewrite the rules of the technology world, creating an App 'to solve a problem'.

The students brainstormed with a definite buzz of innovation. The groups were alive with ideas as diverse as using the integrated camera on the iPhone as a glasses lens for when you forget your specs, to an I Spy Species app to identify dangerous insects and direct you to the nearest antidote using GPS technology. Another excellent idea from Dover Grammar School pupils was a translation app, but Google had already beaten them to the post.

Walking around the room, it was clear all children were getting fervently being drawn on all involved, with a particular zest shown by thirteen year-old Connor, who found the introductory talk, 'inspiring' more homework app and their teacher so because of his passion for Biology. At another table, team members were encouraging each other to, 'think outside the box,' to develop more original ideas. Creative energy was also channelled through the designing of icons and logos, which were

Pupils enjoy an Appy day







tables.

Northfleet School for Boys were overheard discussing their was seen to be very pleasantly surprised. This included a calculator, protractor, email, a link to your text books and it was to be free for under 16s. Meanwhile, Sackville school opted for an app on your iPhone or iPad that would sync with your

xbox, Playstation or Wii should you forget or not have a controller.

After the pitches by students representing each of the different teams, the professional app designers had praise for every idea. The App Challenge clearly bought out the innovative side of all the pupils, and the app creators were evidently enthused by the energy and excitement displayed by the students.



As students walked around the exhibition they had the opportunity to question professionals from a range of different engineering and scientific careers.

From Denne's school construction, to Samsung's smart 3D TV and IET's Interactive gaming involving a bob skeleton simulator, students from Years 8 and 9 from all over Kent, had practical experience of the diverse range of jobs available.

One of the most popular stands was the BBC's. On display were the TVs of the future. There were dual screen televisions where two viewers could each watch a different channel whilst watching the same screen by wearing polarised glasses, 3D TVs without Imaging Group, where students glasses and a silver-screening TV with connection to the internet.

Other exciting activities were provided by '4x4 in schools' with likenesses of criminals for their remote control obstacle course, Cummins Power and their The groups were split into pairs. mini, kinetic- powered Grand Prix One of the pair were witnesses 'Loop', whose activity involved groups of students rebuilding computers from spare parts, and the Army. Oliver and Max (Year 9) from Skinner's School commented on how much they liked how 'practical' the experience was.

There were two Challenge Zones for groups of students to perform tasks. One fascinating

Produced with support from

'A practical day of fun'



were able to use the police program, invented by the awareness and wanted posters. (and had seen the criminal) the other was the operator. By using the program's various facial features, the teams were able to build surprisingly accurate pictures of Richard Branson's face (today's 'criminal'!).

This complex system highlights the importance of technology within the structure of our community and it's clear the

students connected with this. Meghan (Year 9) from Hillview was 'really excited' about the fair which 'exceeded everything' she has imagined.

The variety of the stalls and their exceptional devices highlighted the main message of the event today: that the race to develop technology is led by the young people of today – there was not a crazy-haired, lab coat wearing professor anywhere to be found.





Tech-savvy Maggie: 'Innovation is about joining the dots...'

Maggie Philbin has worked at the BBC for over 30 years and was the first person to demonstrate a sat-nav. She is a co-founder of the TeenTech programme and an admirable source of knowledge on all things technological! We catch up with her on her views on science...

What is the most useful invention of the last 20 years? The mobile phone, because it started as an object to make calls yet has developed into a 'computer in your pocket'. How has science become

How has science become more accessible for the younger generation?

Students are consumers of technology and this gives them a wider knowledge of technology than their parents had. However the older generation has a better logical knowledge on how objects work, 50 years ago a curious child could take off the back of a watch to learn about the mechanical workings of it - the same cannot be done to an iPad.

Why is science important? If you don't understand science you can't make educated decisions about things, for example the media reportage that the MMR vaccine is not safe, if you don't understand



the science behind it you are just basing your decision about your child's health on a newspaper headline. We all need to be scientifically literate.

Scientists are often considered better role models than actors or pop stars – how do we encourage young people to aspire to more academic futures? You need to help children

make the connection, Children have an image of men in white coats but many scientists never go near a lab. So you must try and connect science with contemporary images.

Do you think technology can ever be a hindrance?

It's all about using technology judiciously and it is important not to be overwhelmed by technology. There is a wicked side to technology in that it is not sustainable as we are constantly pushed to update what we own.

Science is not traditionally a female industry – have you ever experienced gender stereotypes?

Female scientists can feel isolated but it is not something that can be generalised about. Some companies recognise talent before anything else but not all do. But it is starting to change.

If you were to invent
anything, what would it be?
I still think we haven't seen a
truly intuitive computer.
There's so much we can do so
everyone is capable of using
technology instinctively not
just the young or tech-savvy.
There is a stereotype that you

need to be a genius with a sky
high IQ to be a scientist.
What would you say to those
out there who don't feel they
are intelligent enough?
Those students who want to do





The News for Schools reporting team interview TV presenter and cofounder of TeenTech Maggie Philbin

drama or English don't all think they will become Shakespeare, they are happy to do it at a certain level because they enjoy it. This is something we want to show students today, that they can get into science at an entry level. Today's TeenTech event is about saying there are different ways of doing this – you do not need to go to university.

What is the importance of looking into the future?

I've spent my career looking into the future and what I've

learnt is you only get about five per cent of it right! If you look too far into the future you become rooted in today. Innovation is about joining the dots so you have to know what's going on in other industries besides your own.

The Innovator



