CamJam!

Cambridge Raspberry Jam
Saturday, 6th June 2015

Show & Tell

Learn to Solder
(weather permitting)

Lecture Theatre for Talks

Marketplace

Meeting Room for Workshops

Quiet Area

Up

Up

Alternative entrance to Lecture Theatre

Registration Desk

Entrance
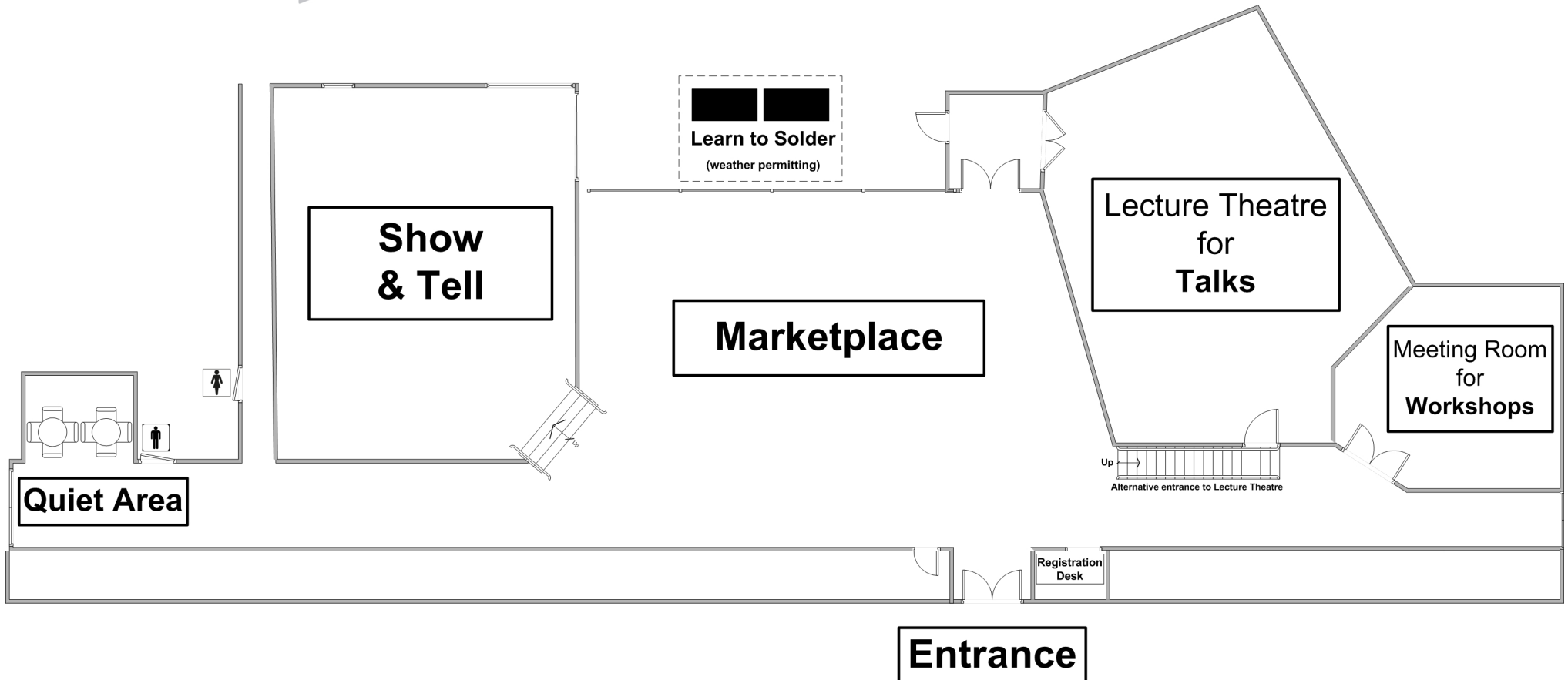
TALKS, WORKSHOPS & MEETINGS TIMETABLE

10.15-10.35am - Steve Foster - Uncoded: 200 teenagers, 12 Pi and 6 weeks of terror? At the start of 2015, we launched 'Operation Pi' in our secondary school. Our challenge was to try to show our students why the Pi can be better than PCs and then convince our students that coding is cool using Sonic Pi, Minecraft Pi and Physical Computing. Just one snag… only 22 of them knew what coding was and I hadn't coded for 20 years! Find out how we got on, the practical issues encountered, where we are going next and how the Pi community might help schools like us. *Suitable for all*

10.40-11am - Andy Proctor - It's not just for kids - How the Raspberry Pi can be used for entrepreneurial outcomes for practical uses. A real inspirational talk that will open up some new uses for the Pi and confirm that it's OK to explore. A great talk for young adults! *Suitable for all*

11.05-11.35am - Barry Byford - Bluetooth Beacons - While Apple's iBeacons might be the most well-known of the Bluetooth beacons, the many licensing restrictions and iOS focus of their eco-system don't make them great for projects on the Raspberry Pi. This talk will explore open standard beacons that have open source libraries to support them and some of the projects done with them. *Intermediate level*

11.40am-12pm - Sway Humphries - Computing: Excitement! Adventure! And really wild things! An educator's viewpoint of the challenges of showing children how amazing computing is with the Raspberry Pi. *Suitable for all*

12.05-12.35pm - Jim Darby - Java programming on the Pi - We can use Java for real-time tasks like a 7-segment display clock! This talk will look at controlling the Pi hardware using Pi4J. *Intermediate level*

1.05-1.20pm - Michael Horne & Tim Richardson - Pi Wars 2015 - Exciting news about this year's challenge-based robotics competition. *Suitable for all*

1.25-1.45pm - Wayne Keenan - 3D Printing, Cannybots and Pi - Cannybots are open source 3D printable toys that you can build, customise and program yourself. This is an introduction to Cannybots and how to program and control them from a Pi using Scratch & Python and other interesting ways for play and fun educational scenarios. *Suitable for all*

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6TH JUNE 2015

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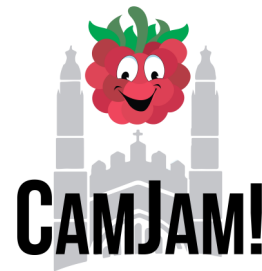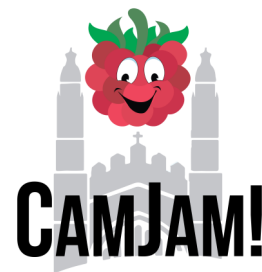
1.50-2.10pm - Maciej Korzeniowski - Simple Fractals with Iterated Function Systems - What are fractals, and what are some of the methods of generating them? We walk through an example of generating simple symmetrical graphics using The Chaos Game. *Intermediate level*

2.15-2.30pm - Graham Hastings - Raspberry Pi as a control workstation for the teaching of physical computing in KS2 and KS3 *Suitable for all*

2.35-3pm - Joseph Birks - The Crumble Controller - The Crumble is an easy-to-use programmable controller. It has a built-in dual motor driver and 4 inputs/outputs. Connections can be made using crocodile clips - perfect for tinkering! Joseph, the designer, will demonstrate how the Crumble works and give a behind the scenes look at how it's made. *Suitable for all*

3.05-3.25pm - Mark Calleja - Hacker is not a dirty word - Hackers are derided in today's media as being powerful internet villains whose only goal is to destroy society as we know it. 'Hacker' used to mean someone who went above and beyond the capabilities of the technology we possess, for the greater good. Where did it all go wrong? HackLab are taking it back – with a growing group of techie 8-12 year olds. *Suitable for all*

3.30-3.50pm - Mathew Keegan - Edu Hacking: Why Open is Better - Computing in schools is on the increase, and the open source tools available are better than ever. So why is it so many educators still feel unprepared for this exciting new world? This talk looks at taking the best open source and integrating it deeply with education. *Suitable for all*

Please note: If you would like to enter the Lecture Theatre part way through a talk, feel free to use the alternative upstairs entrance marked on the map.

WORKSHOPS IN THE MEETING ROOM

10.30am-12pm - Rocket Rumble with Scratch
12.15-1.45pm - GPS Tape Measure
2.00-3.30pm - Build & Program a Robot

MEETING IN THE QUIET AREA

12.30-1pm - Raspberry Pi Certified Educators meeting

CERTIFIED EDUCATOR