**Girls in Technology -Internet of Things Workshop**

**Presenters:**

Ericka Collado, Jay Markey, Deborah Nagler, Angelica Safanova

**Materials:** 2 computers with speakers if possible, 5 bananas for each group, 5 carrots for each group, 3 Makey-Makey’s for each group (one to show to the group and two already hooked-up to the computers. Hand sanitizer and paper towels.

**Agenda: Each pair will assign roles**

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| # | Timing | Activity | Presenter |
| 1 | 3 min | Welcome & Introductions | Ericka |
| 2 | 7 min | What is the Internet of Things? | Ericka |
| 3 | 5 min | Makey-Makey intro & Banana Piano Demo | Director:DebTech: Ericka |
| 4 | 10 min | People Piano and Drums | Director:DebTech: Ericka |
| 5 | 5 min | Conclusion | Ericka |

Detail:

1. Welcome & Introductions – Say the name of the workshop and introduce the presenters, work & doctoral program

2. The name of the workshop is the Internet of Things.

Does anyone know what that means?

If yes – ask them to explain & build on the explanation.

If no: “You all know what the Internet is, right?

How do connect with the Internet? computers, tablets, phones, ipods – all of these things are what is called an interface – a connection – with the Web.

Today there are even smaller interfaces that connect with the Internet. Does anyone know what those might be? Smart watch, fitbit, Googleglass, SMART rings. (these are called wearable technologies). Technology is shrinking and now it can even be woven into clothing.

Eventually we will find sensors and transmitters incorporated into many products. When a shirt is purchased at the Mall, the store automatically adjusts its inventory. Eventually everything everywhere will be “wired” to transmit information.

1. Today we want to give you the opportunity to play with an example

of a micro transmitter – a somewhat larger one – called a Makey-Makey. As my colleague passes by you, to show you what a Makey-Makey looks like. I would like two volunteers.

These two computers are connected to a Makey Makey and each one has a program on screen that was created with scratch. The one on the right is a piano and the one on the left is a drum set. My volunteers are going to attach the clips on the ends of the wires to either the bananas or the carrots.

Now we are going to use the Makey-Makey to play the piano. (Ask one volunteer to hold the ground and see what happens when she touches the bananas. Likewise the carrots attached to the other computer.

You are now part of the Internet of Things.

1. Let’s go bigger! We are going to attach a second Makey Makey to onr computer and lets see if we can make a human band. Bring up 18 volunteers and either one -three “players” to hold the grounds. Using high fives, see what music results.
2. Conclusion: What did that happen? What made it work? How could it be used?

Thank you and keep up your tech exploration.