**Helpful Tips for Uninterrupted Conference sessions - Recommended by BigBlueButton**

What are BigBlueButton's minimum requirements?

**Recommended for all Users:**

1. For computer, you need a **laptop or desktop computer**with (at least) **2G of memory and a 1Ghz processor** (any computer bought in the last five years should be fine).
2. For bandwidth, you must have at **least 0.5 Mbits/second upstream**and **1 Mbits/second downstream.** To check bandwidth use, [https://speedtest.net/ (Links to an external site.)Links to an external site.](https://speedtest.net/).
3. For browsers, **we recommend Google Chrome**(Flash is built-in) **or Mozilla FireFox**.  You can also use Safari on Mac OS X, but you’ll get better audio using Chrome and FireFox.
4. For audio,**we strongly recommend using a headset**.  A headset will ensure that others can hear your voice clearly and you don’t cause echo or background noise for others.  You do not need to buy an expensive one -- any basic headset with a built-in microphone will suffice.
5. If you have a firewall, the BigBlueButton client running with your browser needs to connect to an external server on ports TCP/IP ports 80, 443, 1935 and UDP ports 16384-32768.

A laptop with a built-in webcam and microphone will be sufficient as well if you’re in a quiet area.

**Getting disconnected**

The BigBlueButton client has built-in logic to detect if it has lost connection to the server and, in such cases, it will automatically try to reconnect.

If you are getting frequent disconnects/reconnects, try switching between Fire Fox and Chrome.  We've seen different network scenarios where one browser performs better than the other. Also try restarting your computer (it may clear up some resources if the issue was lack of CPU).

As stated above, a direct (wired) internet connection is best.  If you are connected wireless, try moving closer to the base station.

If disconnects/reconnects persist, try connecting from a different network location if possible.