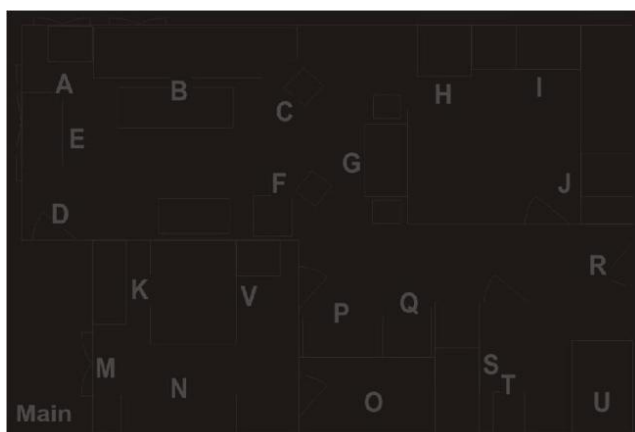


**Brain-Computer Interface (BCI) ...
... can be used to write letters by your thoughts,
to control a robot or to navigate through a house by the
power of your minds**

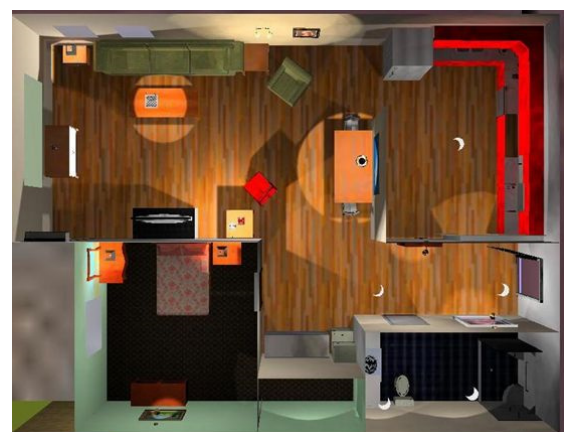
The Austrian company g.tec will use a virtual reality demonstrator to show you how to move objects, write letters, open doors, change TV channels and other everyday household activities, using a powerful new communication channel – the mind. This is possible thanks to the brain-computer interface (BCI). BCIs can be used for people with limited mobility to increase their independency. g.tec is now active for more than 10 years and is a leading supplier of BCI technology and contributor to the EU-funded project PRESENCCIA (Smart Homes). The company won several innovation and technology awards (Fast Forward, Econovius, -European ICT Price).

One application of BCIs is a robot-control via steady state visual evoked potentials (SSVEP). The subject looks at a small box with 4 lights flickering with different frequencies. The frequency of the light the test person is looking at can also be seen in the brainwaves (EEG – Electroencephalography) and can be used as a control parameter. Different lights are associated with different commands like: “Move the robot forward” or “move the robot left”.

All kinds of BCI, including Smart Home, Speller and the SSVEP–robot control are shown in Hall 9, Booth: 89/3. Furthermore visitors can test the technologies on their own. The g.tec-team would be pleased to see you there!



Brain-Computer Interface



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Information about BCI:

<http://www.gtec.at/products/g.BCIsys/bci.htm>

CeBIT, Hannover, Germany, <http://www.cebit.de/>

3.03.2009 – 7.03.2009: 9:00 – 18:00 Uhr,

8.03.2009: 09:00 – 16:00 Uhr, **Hall 9, Booth: C89/3**

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<http://www.gtec.at/Press>