

Press Release

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IN THE FOCUS

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Kabellose Erfassung lokaler Feldpotentiale und elektrische Stimulation der Großhirnrinde für medizinische Diagnostik und Neuroprothetik*

by Alexander Svojanovsky, General Manager

What a title for a new project that dovetails with the successful completion of the FaSor project! Currently we are searching for an abbreviation which is easy to remember. For the moment let's focus on the tasks:

Partners working alongside Brain Products include the Bremen Institute of Technology (ZKW, IMSAS, ITEM) and the University of Bonn (Epileptology). A system for use in epilepsy diagnostics and neuroprosthetics will be developed within the next 3 years. Implanted electrode grids send EEG data wirelessly to a receiver (outside the head) where the signals can be analyzed in real-time (spike detection as well as BCI algorithms are planned). Based on the categorized data, feedback is transmitted to the electrodes and electrical stimulation occurs. The whole system is intended to be portable and the power for both the electrodes and the stimuli will be induced externally.

Although the aims are ambitious, all of the partners are confident and highly motivated to succeed in a project that is rich in promise. This project is financed by the BMBF (Federal Ministry of Education and Research) via the DLR (German Aerospace Center). The resulting product will have an enormous impact. More information will be available during the course of the project in our Press Releases and on our official project website.

** wireless acquisition of local fieldpotentials and electrical stimulation of cerebral cortex for medical diagnostics and neuroprosthetics*



Products in Practice

Brain Products goes eXtreme EEG - Recording EEGs in the Nepalese Himalayas

by Pierluigi Castellone, International Sales Manager

Some months ago, Brain Products launched a new project called „eXtreme EEG“. The idea is to support research groups which plan to record EEGs and other neurophysiological data under extreme conditions by providing them with a portable 16-channel research amplifier, an active electrode system, a laptop and web cam for the video EEG recording and, of course, our knowledge and expertise.

The ultimate goal of this project is to find out how far the boundaries of what is possible can be pushed forward and identify potential new areas for EEG research. Among the many proposals we received in a period of just a few weeks, the one submitted by a group of world-famous Hungarian mountaineers, which involved recording EEGs, respiration and blood pulse signals while climbing one of the highest mountains in the Himalayas, appealed to us as an “extremely extreme” and challenging task.

A few discussions with Mr. Koljar Lajos (leader of the expedition) and his team allayed any doubts we might have had and convinced us that we should support the project.

The members of the expedition started their adventure on the 14th of April, departing from Budapest in the direction of Katmandu (Nepal) with two clear objectives in mind: To climb Mount ...