

Abstract Brescia

## **Clinical Neuromusicology and Neurorehabilitation –**

What we learned in the past for the future.

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A prestigious international group of neuroscientists, musicians, educators, and therapists has taken an important initiative to form a new society that will be dedicated to advancing the study of music and the brain with an applied emphasis. Brain research in music has taken off in the past 15 years and has produced very exciting and at times stunning new insights and understandings of how the brain works in music.

This work is based on our clinical experience when applying music therapy to patients after brain damage during neurosurgical and neurological early and long term rehabilitation and social re-entry. Experimental studies have demonstrated the impact of rhythm and melody on both the physical motoric performance and the mental – cognitive, emotional recovery and social competence.

So we are establishing a new society worldwide – named **International Society for Clinical Neuromusicology (CNM)** - and at the same time a **special Committee for Neurologic Music Therapy** under the umbrella of the World Federation for Neurorehabilitation (WFNR). This will support and help advance such research efforts with a special emphasis: the society has a particular interest in advancing applied brain research in music that is focused on medicine and rehabilitation, all forms of music education and music learning, and the benefits of music in childhood development. To support that end, the society will also support basic research efforts to understand the neurobiological foundations of music in the brain.

‘We want to help advance any understanding how music educates and re-educates the brain, in musicians, patients, young children, students, in all of society’, states Michael Thaut, new president of the society and chairman of the WFNR committee, Dean of the School of the Arts, and professor of music and professor of neuroscience at Colorado State University. The society does not compete with other research initiatives or units in music and brain research rather than sees its role to help support all existing efforts and provide a forum for the exchange and development of new ideas. The society membership is open to all professionals and students in the fields of music and neuroscience who want to support these aims. A broad interdisciplinary membership and participation is highly encouraged and welcomed.

A video will show how to regain social competence by the influence and of music on CNS.

