

CSEM will turn Neuchâtel into the world capital of EIT for the space of a few days

World's electrical impedance tomography scientists meet in Neuchâtel

Neuchâtel, 2 June 2015—From 2 to 5 June, Neuchâtel will be the world's electrical impedance tomography capital as it hosts the 16th International Conference on Biomedical Applications of Electrical Impedance Tomography (EIT). This conference brings together leading researchers and other experts from the medical and clinical communities with their peers from the domains of science and technology, in order to facilitate the exchange of experiences and the sharing of new ideas, and to encourage communication between members of the worldwide EIT community.

Organized by CSEM, this four-day conference and its associated workshops will run in parallel with an exhibition highlighting the work of those companies and organizations that have pooled their efforts to make the conference a success—[Bioalps](#), [Dräger](#), [Scio Spec](#), [SICHH](#), [Swisstom](#), [IOP Publishing](#), and [Nano-Tera](#), a Swiss federal program. CSEM's positioning in the EIT community is that of a cutting-edge research center that develops innovative methods of measuring cardiovascular parameters—non-invasively, using EIT—at the bedside.

Electrical impedance tomography is a clinical tool—a non-invasive medical imaging technique that uses electrical currents to probe the conductivity distribution within a body inferred from surface voltage measurements. Although this technology was developed more than 40 years ago, clinical implementations and CE-marked products have only been launched very recently. Applications of this powerful and innovative technology range from detection of breast cancer to continuous measurement of arterial blood pressure, via the continuous monitoring of ventilation in anesthetized patients.

EIT technology is now moving faster

With contributions from leading international researchers from a broad range of disciplines (medical staff and other hospital professionals, scientists, researchers, and engineers), the 2015 EIT conference will provide an up-to-the-minute review of the progress of EIT and the present state of knowledge, and a look at future advances and applications. Sharing knowledge and building collaboration is vitally important in fostering technological, industrial, and societal innovation.

More information about EIT 2015: www.eit2015.org

Additional information

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About CSEM

CSEM—technologies that make the difference

CSEM, founded in 1984, is a research and development center (a public-private partnership) specializing in microtechnology, nanotechnology, microelectronics, system engineering, photovoltaics, and communications technologies. Around 450 highly qualified and specialized individuals from various scientific and technical disciplines work for CSEM at sites in Neuchâtel, Zurich, Muttenz, Alpnach, and Landquart.

Further information is available at www.csem.ch

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