

DBE Newsletter

March 2018

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Success



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Kommission für Technologie und Innovation KTI

In a collaboration between research, clinic and industry, Prof. Dr. Philippe Cattin, Dr. Christoph Jud and Dr. Simon Pezold from the CIAN group have successfully acquired funding from the Commission for Technology and Innovation (KTI).

In brain surgeries, preoperative planning is a crucial step to enable successful intraoperative navigation of the surgeon. During surgery, due to motion and deformation, a mismatch between the preoperative and current state of the brain tissue may occur. The goal of the two-year project is to use routinely acquired intraoperative images (1) to measure the occurring mismatch, (2) to correct surgical plans accordingly, and (3) to visualize results in an augmented reality fashion to the surgeons, providing them with intuitive, hands-free guidance and helping them focus on their actual, critical task.

We congratulate the CIAN team members and wish them best success for their project!

By doing this, INSIDER will provide new knowledge about the contribution of axonal damage and repair to MS progression and will allow to develop novel surrogate biomarkers to assess disease evolution and future neuroprotective and regenerative treatments.



applied sciences

Prof. Dr. Bert Müller of the Biomaterials Science Center has been elected as member of the Editorial Board of Applied Sciences in the two sections [Nanotechnology and Applied Nanosciences](#) and [Materials](#).

Congratulations and best success!

Dr. Christoph Jud, member of the Center for medical Image Analysis & Navigation (CIAN) has successfully applied for 161,000 CHF within the SNSF Agora scheme. Agora is SNSF's program for substantial exchange with the public. Christoph's project "Transparent moving bodies on the Agora!" will realize an exhibition about the research of CIAN. It will be designed and organized in cooperation with media artists and designers from the Institute of Experimental Design and Media Cultures, Academy of Art and Design Basel. The exhibition is curated by Dr. Reinhard Wendler and will start in spring 2019 at Pharmazie-Historisches Museum Basel.

Congratulations and best success for the exhibition!



Dr. Lilian Witthauer, leader of the Planning and Navigation group within CIAN and the MIRACLE project has been selected to be part of the career program "Antelope professorship" for highly qualified female postdocs from the University of Basel. Over a 10-month period, participants receive training in leadership and appointment procedures and profit from individual coaching sessions on funding, career planning, presentation skills, and empowerment. Besides the program for postdocs, [antelope](#) offers tracks for PhD students or medical doctors to systematically plan and promote their careers.

We congratulate Lilian to have been admitted to the program!

Staff



Dr. Constanze Pfeiffer will join the DBE as coordinator of the MIRACLE project (60%) on the 1st of March 2018. Constanze is a medical anthropologist and sociologist (University of Freiburg, Germany; University of Melbourne, Australia). In the past ten years she worked as a researcher and project leader at the Swiss Tropical and Public Health Institute including a 4-year secondment at the University of Dar es Salaam, Tanzania. We are looking forward to welcoming her at the department and to benefit from her support in the MIRACLE project!

Media



The Master program of the DBE has been presented in the Basler Zeitung (26 February, page 23). Under the head line "Technische Fortschritte vorantreiben – Die Universität Basel bietet neu einen Master in Biomedical Engineering an" the background of Biomedical Engineering and of the DBE as well as the content of the program is introduced.



Switzerland Innovation reported on the Laboratory for Adaptable MRI Technology (AMT lab), led by Prof. Dr. Najat Salameh and Dr. Mathieu Sarracanie, in its February news.

Please find the report [here](#).

Events



On March 22nd the University of Basel organizes a [Master Info event](#) to show the varieties of master degree programs with info booths and short presentations (17:00 and 20:30 h).

For the first time the DBE participates with a booth and presentation (18:00–18:30, Seminarraum 104) on the new master in Biomedical Engineering. Feel free to share this info, the weblink and to drop by.

The event will take place in the Kollegienhaus at the Petersplatz, is open to all students of all universities and offers a bar & lounge to discuss future career paths.



DBE Summer School 2018 | June 3rd – 8th 2018

This year's [PhD program summer school](#) will be on the topic “More than just surgery: laser, robots, intuitive navigation, and smart implant technologies” and will be held in Engelberg in the beautiful Swiss mountains on a wonderful property of the University of Basel ([Zschokkehaus](#)). To obtain the accreditation of this course please enroll as soon as possible using [MOnA](#). The university registration deadline is the 26th of March 2018.

The Department of Biomedical Engineering bridges the gap between natural science and medicine in order to improve procedures and technologies for medical treatment. It is a joint venture of the University of Basel, the University Hospital Basel and the University Children's Hospital Basel.



University
of Basel



University Hospital
Basel

