



GUEST SPEAKER
Professor Tom CHAU



Institute of Biomaterials & Biomedical Engineering
University of Toronto

- Vice-President, Research, Senior Scientist and Theme Leader, Innovation & Development, Bloorview Research Institute, Bloorview Kids Rehab
 - Adjunct Scientist, Toronto Rehabilitation Institute
 - Canada Research Chair in Pediatric Rehab Engineering
- Research themes: Engineering in a Clinical Setting and Neural, Sensory Systems & Rehabilitation

2f-NIRS

French community for Functional - NIRS

The 2f-NIRS is a national non-profit scientific and professional *network* created in 2014 dedicated to disseminating and promoting knowledge about scientific, technological and clinical information regarding the latest advances in the field of functional NIRS in humans and structure the fNIRS research network in France and French-speaking countries.

To promote the network's primary goal to endorse the exchange of information among researchers, industrials, engineers and end-users it wants to hold some events that attract attendees from France, offering a wide range of learning- networking- and professional development opportunities: learn about current topics in your field of interest, meet with your French peers whether from basic, translational or clinical research, and share best practices with colleagues.

To launch the 2f-NIRS network, a one-day meeting is organised this year on April 15th in Toulouse.

NEUROCOGNITIVE

APPLICATIONS

NEUROPHYSIOLOGY

DATA ANALYSIS

ENGINEERING

CONFERENCE SPEAKERS



1. Nadège ROCHE-LABARBE

Lecturer of Caen University

PhD in Neurosciences and expertise in non-invasive optical brain imaging to investigate development and function in newborns.



2. Vincent GREMEAUX

Professor, Hospital practitioner in Dijon

MD and PhD in Rehabilitation Medicine and expertise in the monitoring of cerebral oxygenation in patients to investigate motor and cognitive function after training program.



3. Andrea MALAGOLI

Engineer in information technology University of Modena and Reggio Emilia

PhD in "multiscale modelling, computational simulations and characterization in material and life sciences" discussing the thesis in "Studies for a low-cost instrumental setup for recording and processing the fast optical response of cortical neurons in visual stimulation".



4. Gérard DRAY

Assistant professor of engineer school Mines Alés

PhD in "Automatics and computer systems" from University Montpellier-2 and expertise in Data Mining methods for biomedical data and signals classification and clustering.



5. Gautier DURANTIN

PhD Student (ISAE-CERCO) in Toulouse

Engineer in aeronautics, with a focus on real-time signal processing and analysis for use in human machine interfaces.



“Dear Partners, Colleagues and Friends,

We are pleased to invite you at our first one-day meeting on 15th April 2014. This event aims to present you the 2f-NIRS, a new French network gathered around fNIRS methods in order to improve knowledge and innovative applications in several multidisciplinary topics from Engineering to Neuroscience. This event is a good opportunity for researchers, clinicians and engineers using fNIRS device to get to know each other better and to strengthen the cooperation.

Jointly organized by the "Institut Supérieur de l'Aéronautique et de l'Espace" (ISAE) from Toulouse and the Movement to Health (M2H) Laboratory from Montpellier-I University, this first conference will feature some topics of 2f-NIRS. This year we are excited to host our guest speaker, Professor Tom CHAU from the University of Toronto, a researcher leader in investigating intelligent system technologies and analytical methods and their exploitation in understanding the physiological underpinnings of functional rehabilitation.

For the day's programme we welcome your short presentations (poster – see schedule below) and we will offer you an opportunity to exchange by networking with all attendees.

We're looking forward to meeting you in Toulouse on 15th April, 2014. ”

Frédéric DEHAIS, Professor ISAE
& Stéphane PERREY, Professor UM1

SCHEDULE OF EVENTS

9h - 9h20

WELCOME

Introduction of Sponsors
Welcome coffee

10h30 - 11h30

POSTERS SESSION

Come with yours
Coffee break

12h30 - 14h

LUNCH

Break

15h - 16h

POSTERS SESSION

Come with yours
Coffee break

9h20 - 9h30

INTRODUCTION

Introduction of the meeting and the 2f-NIRS network

11h30 - 12h

NEURODEVELOPMENTAL

Nadège ROCHE-LABARBE

14h - 14h30

DATA ANALYSIS

Gérard DRAY

Gautier DURANTIN

16h - 16h45

FINAL DISCUSSION

Meeting summary and planning

9h30 - 10h30

INAUGURAL
CONFERENCE
Tom CHAU

12h00 - 12h30

CLINICAL APPLICATION

Vincent GREMEAUX

14h30 - 15h00

ENGINEERING

Andrea MALAGOLI

16h45 - 17h

DRINK

Small drink



NEUROCOGNITIVE

APPLICATIONS

NEUROPHYSIOLOGY

DATA ANALYSIS

ENGINEERING



10, avenue Édouard-Belin
BP 54032 - 31055 Toulouse CEDEX 4
tel: +33 (0) 561 338 080
web: www.isae.fr