

The interinstitutional Centre of Translational Biomechanics (CBT) presents the

# 7<sup>th</sup> Research Day of Translational Orthopedics

June 19th 2009

EPFL

Room CM 05

**10H00 - 10H15**

Welcome..... B. Jolles-Haeberli, Head of CBT

**10H15 - 11H00**

## **LABORATORY OF BIOMECHANICAL ORTHOPEDICS (LBO)**

LBO presentation..... D. Pioletti, Head of LBO

3D micromotion measurement around a loaded hip stem using  $\mu$ ct ..... M. Gortchacow, M. Wettstein

A musculoskeletal knee model in loaded activities of daily living..... S. Ramondetti, A. Terrier

Mechanical stimulation for bone formation inside tissue engineering scaffolds ..... A. Roshan Ghias, P.-Y. Zambelli

**11H00-11H45**

## **LABORATORY OF MOVEMENT ANALYSIS AND MEASUREMENT (LMAM)**

LMAM presentation..... K. Aminian, Head of LMAM

3D knee joint movements during gait by bi-plane fluoroscopy and stereophotogrammetry ..... A. Barré, B. Jolles-Haeberli

Outcome evaluation in shoulder pathology using kinematic and kinetic parameters ..... C. Duc, A. Djahangiri

3D Gait Analysis for self-mobility improvement in the elderly ..... B. Mariani, C. Bula

**12H00-13H15**

## **LUNCH BREAK**

**13H15-14H00**

## **JULIUS WOLFF INSTITUT, BERLIN**

Mechanical loads on orthopaedic implants: towards instrumented implants ..... P. Westerhoff

**14H00-14H20**

## **HOPITAL DU CHABLAIS - HES-SO HEPIA**

Metal ions release measurement: current approaches for metal-on-metal total hip arthroplasty ..... Y. Arlettaz, E. Rosset

**14H20-14H40**

## **CELLULAR THERAPY UNIT, DALO, CHUV**

Fetal cell therapy in regenerative medicine for musculoskeletal tissues ..... L. Laurent-Applegate

**14H40-14H45**

Conclusion ..... A. Farron, Head of the Orthopaedic Department, CHUV