



Second BoHNeS Colloquium

Lyon, February 3-5 2016

Venue: (<http://www.centrejeanbosco.com/>)

Program

Wednesday, February 3rd

Arrivals

- 15.30 STAPAG meeting
- 17.30 Executive committee meeting
- 19:00 Dinner

Thursday, February 4th

- 8.45 Introduction A. Cappozzo/S. Duprey

Research vision and future projects in the area of neuromusculoskeletal bioengineering of the university members

(20 min each, including questions)

- 9.00 University of Aix-Marseille G. Rao
- 9.20 University Claude Bernard Lyon 1 L. Chèze
- 9.40 University of Sassari U. Della Croce
- 10.00 University of Rome, Foro Italico G. Vannozzi
- 10.20 **Break**
- 10.40 University of Rome, Roma Tre S. Conforto
- 11.00 University of Padova Z. Sawacha
- 11.20 University of Valencia H. DeRosario
- 11.40 **Discussion:** programming future common activities
- 12.00 **End of the session**
- 12.30 **Lunch**

Workshop on “Anatomy, medical imaging and movement analysis”

(30 min each, including questions)

14.20 Introduction

14.30 Importance of the anatomical calibration (V. Camomilla)

15.00 Internal-external relationship to build a kinematic model (A. Nérot)

15.30 **Break**

16.00 Use of ultrasound to define joint centres (M. Lempereur)

16.30 Fusion of morphological and functional data through palpation (S. Van Sint Jan)

17.00 **End of the session**

19:00 **Dinner**

Friday, February 5th

Tutorial on musculoskeletal modelling

(30 min each, including questions)

8.30 Principles, different methods and models, sensitivity analysis, levels of validation (R. Dumas)

9.00 EMG to force (G. Rao)

9:30 Choice of the objective function in static optimization (F. Moissenet)

10.00 Volumic deformable approaches for muscles in musculoskeletal modelling: issues and perspectives (B. Frechede / Y. Lafon)

10.30 **Break**

11.00 **General Assembly of the Centre**

12.30 **Lunch**

Departures