



TUTORIAL – November, 15 2003

Clinically-focused Need for Robotics Heart Surgery

Chair: Dr Ève Coste-Manière, ChIR-Inria Sophia Medical Robotics

Scope of this tutorial

This tutorial gathers clinical experiences from leading heart surgeons familiar with the use of robotics and advanced technologies. It will provide case presentations together with surgeon's feedback. Advantages and drawbacks of existing robots will be put forward. Ongoing validations and certification trials will be exposed when possible. A tentative synthesis from the different clinical presentations will be provided at the end of the tutorial in an attempt to draw trends for future investigation in the medical robotics and imaging community. The feedback of the audience will be of utmost importance.

Scientific and Surgical Program

8:00-8:45

**Dr. Gerhard Wimmer-Greinecker
J.W. Goethe University Frankfurt**

"Robotically Assisted TECAB: Finally for Everyone? The Frankfurt Experience : MDCT Scan and Angiography Prior to Robotics Surgery"

8:45-9:15

**Dr. Didier Loulmet
Lenox Hill Hospital New York**

"Atrial Fibrillation & Robots"

9:15-10:00

**Dr. Volkmar Falk
Herzzentrum Leipzig**

"Planning and Augmented Reality in Robotics Surgery: Human Validation of a Joint Chir-Inria/Herzzentrum Project"

10:00-10:30

Coffee Break

10:30-11:00

**Dr. Gérard Guiraudon
C-star & University of Western Ontario**

"Image Guided Robotic Assisted Intra-Cardiac Beating Heart Surgery"

11:00-11:30

**Dr. Volkmar Falk
Herzzentrum Leipzig**

"Perspective on Robot Limitations: Experience on Existing Robots"

11:30-12:00

**Round Table
participants and contributions from the floor**

"Towards a Tentative Synthesis of Clinical Needs and Requests for the Future"

