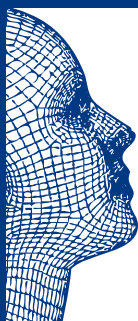




# 3D



# BO<sup>2</sup>

## Second 3D Bologna International Symposium and Workshop

Updates on New Technologies in Maxillofacial Area

S. Orsola-Malpighi University Hospital · Bologna, Italy

March 30th - 31st, 2012

3DBO<sup>2</sup> is supported by



3D BO LAB · Alma Mater Foundation



PhD in Medical and Surgical Sciences University of Bologna, Italy

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*Dear Colleagues,*

after two years from the first edition of 3DBO Symposium and Workshop in Bologna (Italy), we have felt the need to meet and perform together, in an international scientific framework, the maxillofacial and plastic surgeons, ENTs, radiologists, orthodontists, implantologists and basic science experts, such as engineers and mathematicians. Our aim is to value the development of the new technologies and their impact on our profession. The world of 3D, Virtual reality and Augmented reality requires a reassessment of the standards of our activities. This is particularly true for the young generations, both in their clinical and research future.

Prof. Claudio Marchetti

S.Orsola-Malpighi University Hospital - Bologna

**Friday, 30th March 2012**

8.30-12.30  
Aula Labò

**Friday, 30th March 2012**

14.00-19.00  
Operative Room- Aula delle  
Chirurgie

**Saturday, 31st March 2012**

13.00-14.00  
Aula D'Addato

### WORKSHOP 1

#### 3D IN ORTHOGNATHIC SURGERY Chairman: G. Iannetti

The workshop offers a comprehensive study of 3D planning and treatment in Orthognathic Surgery. It will be described the interactive 3DBO workflow, using the software SynthesProPlan CMF and Materialise SimPlant OMS

- Case presentation
- 3DBO workflow
- CBCT data acquisition
- 3dMD image acquisition
- 3D cephalometry
- 3D visualization of orthodontic treatment planning
- Skeletal and soft tissues planning and simulation
- Simulation-Guided Navigation
- Reliability and Reproducibility

### WORKSHOP 2

#### NAVIGATION IN ORTHOGNATHIC SURGERY Chairman: G. Iannetti

The workshop offers the possibility to understand and learn the Simulation-Guided Navigation Method in Orthognathic Surgery. The workshop consists of two parts: live surgery (Orthognathic surgery) and hands-on with navigation tools and stereo-lithographic models

- Basic concepts of navigation
- Simulation-Guided Navigation Workflow
- The Stryker eNlite Navigation System with the iNtellect Cranial Navigation Software
- Hands-on workshop:
  - Planning the Simulation-Guided Navigation Procedure
  - Setting the Navigation System
  - Tracker Positioning
  - Registration of the Patient
  - Simulation-Guided Navigation of the Maxillary Movements
  - Postoperative Management
- Validation

### WORKSHOP 3

#### PIEZOSURGERY IN ORTHODONTIC, ORTHOGNATHIC AND PRE-PROSTHETIC SURGERY Chairman: F.S. De Ponte

The workshop offers the possibility to learn about Navigation applied to Piezosurgery. It will be divided in:

- Fundamental basis
- Hands-on with navigation tools and Mectron Piezosurgical instruments in animal models.

**Saturday, 31st March 2012**  
**Symposium**  
**New Technologies for Diagnosis, Planning & Treatments in Maxillofacial Surgery**  
 S.Orsola-Malpighi University Hospital - Bologna  
 Aula Magna

8.00 **Registration**

8.30 **Opening Ceremony**

Welcoming and greetings from Authorities:

- S. Stefoni - Dean of Faculty of Medicine and Surgery, University of Bologna
- A. Stella - Coordinator of PhD School in Surgical Sciences, University of Bologna
- F. Vella - President of Alma Mater Foundation
- J. Acero - Education and Training Officer EACMFS
- G. Ferronato - President of Italian Society of Maxillo Facial Surgery: Predictive model of non-uniform recovery of facial soft tissues following surgery

9.00 **Engineering and Imaging**

Chairmen: L. Ciocca - C. Lamberti

- S. Zachow: The Engineering viewpoint regarding soft tissue simulation in CMF surgery
- A.G. Farman: State of the Art and Future of Cone-Beam CT Imaging
- Discussion

10.00 **New Tools in Diagnosis**

Chairmen: L. Checchi - G. Farronato

- S. Bergè: 3D stereophotogrammetry
- G. Pellegrino: Advanced Intraoral Scanner in Orthognathic Surgery
- Discussion

10.40 **3D in Orthodontic**

Chairmen: S. Berrone - M. Manuelli

- P. Santiago: Comparison between different simulation acquisition systems
- M. Pironi: 3D cephalometry: the Bologna experience
- Discussion

11.20 **Coffee Break**

11.40 **3D in Orthognathic Surgery Planning: comparison of different software**

Chairmen: A.B. Gianni - L. Gentile - L. Califano

- P. Jurgens: my experience with different software packages
- L. Lancellotti: my experience with Materialise software packages
- A. Busato: my experience with Surgiplanner method
- Discussion

13.00 - 14.00 **Lunch**

14.00 Chairmen: E.Sesenna - L. Clauser - U. Consolo

- F.H. Alfaro: 3D Diagnosis and Planning in Orthognathic Surgery: State of the art
- N. Nadjmi: The evolution of the 3D maxillofacial planning concepts in Orthognathic Surgery
- A. Bianchi: Simulation-Guided Navigation
- Discussion

15.00 **Navigation**

Chairmen: P. F. Nocini - A. Campobassi - A. Pirodda

- G. Badiali: Navigation in Pediatric Distraction Osteogenesis
- A. Bozzetti - G. Novelli: Navigation in Traumatology
- L. Piersanti: Navigation Guided Piezosurgery in Orthodontic Treatment
- Discussion

16.00 **Coffee Break**

16.20 **3D in Oncology**

Chairmen: R. Cocchi - L. Chiarini - R. Cipriani

- J. Acero: 3D reconstruction planning in Cranio-Maxillofacial oncologic surgery
- S. Mazzoni: 3D custom-made reconstructive plates
- D. Donati : 3D and Biomaterials

• Discussion

17.20 The **"Arturo Beretta Lecture"**

Chairman: R. Brusati

H. F. Zeilhofer: The Impact of Innovative Technologies on Cranio-Maxillofacial Surgery

18.00 **Closure**

20.30 **Informal Dinner**

**Language**  
**The official language is English**

**Credits Official**  
**(European credits for CME)**

**Workshop 1 = 3 CME**  
**Workshop 2 = 3 CME**  
**Symposium = 6 CME**

**REGISTRATION FEES**

30th. 03. 2012

<b>Workshop 1</b>	<b>Delegates</b>	<b>200,00 €</b>
	<b>3D in Orthognathic Surgery</b>	<b>Trainees 150,00 €</b>
<b>Workshop 2</b>	<b>Delegates</b>	<b>200,00 €</b>
	<b>Navigation in Orthognathic Surgery</b>	<b>Trainees 150,00 €</b>

31st. 03. 2012

<b>Workshop 3</b>	<b>Delegates</b>	<b>50,00 €</b>
	<b>Piezosurgery in Orthodontic, Orthognathic and Pre-Prosthetic Surgery</b>	<b>Trainees 50,00 €</b>
<b>Symposium and e-Poster Session</b>	<b>Delegates</b>	<b>300,00 €</b>
		<b>Trainees 150,00 €</b>

**e-POSTER SESSION**  
**"Arturo Beretta" Award and Prize**

An e-poster session is planned facing the theme of the Symposium. E-posters accepted will be presented all day long in Aula Labò. The format will be a power-point presentation (slides show) of 3' minutes each of running time. There will be Authors presentation and discussion during breaks. Dead-line submission: march 20th, 2012. The best e-poster will receive the "Arturo Beretta" Award and Prize

**THE "BOOK CORNER": meeting with the Author**

Prof. Francesco Saverio De Ponte  
 Department of Maxillo Facial Surgery - University of Messina, Italy  
 presents the book:

"Bisphosphonates and Osteonecrosis of the Jaw:  
 A multidisciplinary Approach"  
 Ed. Springer Verlag 2012