

BIOMECHANICS SUMMER SCHOOL 2018 EDITION

Giorgio Fiorelli and Birte Melsen

Lido di Camaiore Italy, June 25th - July 27th

Main course for the BiomeDe Group

Wollerau, December 19, 2017

Presentation

The deep knowledge of biomechanics is an invaluable asset for any orthodontist, since any kind of orthodontic therapy using all kinds of technique or approach, can deeply benefit from it.



The knowledge of biomechanics allows for a real understanding of the therapy we perform every day, making our appliance effects predictable and letting us understand the reasons of our possible mistakes. Finally a deep knowledge of biomechanics allows the orthodontist for the design of specific, tailor made appliances, that may be needed to solve problems with a special degree of difficulty.

Unfortunately, the learning of this subject is quite demanding and many orthodontists prefer to avoid to face its difficulties and delegate most of their work to “smart” or “intelligent” wires or brackets, with sometimes questionable results.

After having lectured for so many years about biomechanics, and after we have been working together for more than 20 years on the “Biomechanics in Orthodontics” software, we have decided to undertake this new challenge of teaching the “real” biomechanics in five weeks of hard work.

Giorgio Fiorelli and Birte Melsen

Course Venue

The Course takes place in Lido di Camaiore / Viareggio in Tuscany (Italy)



The Course Venue: Hotel Dune

Viale Cristoforo Colombo 259

55041 Lido di Camaiore LU • Lat. 43°90'26.28N/Lon.10°22'02.11E

• Telefono: +39 05841716346 • Fax: +39 05841711175

• Mail: dune@boschettoholiday.it

Lodging

Viareggio and Lido di Camaiore are summer vacation areas and have plenty of hotels and apartments on rental.

We advise to rent an apartment for the month of July, the cost is in the average 2,500€ and can be shared between two or three participants.

We will give contacts with a local real estate agent to assist you in case you decide to rent an apartment.

BIOMECHANICS SUMMER SCHOOL PROGRAM

2018 June 25th - July 27th

Lecture time: 8:30/12.30 14:00/17:00

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1 Giorgio Fiorelli	Statics concepts – Forces, Moments, Center of Resistance, Trigonometry and Vectorial Calculation	Movements. Center of rotation. Equivalent Force Systems. How to calculate the needed force system for a specific dental movement	Force Systems: Active/Passive Units - Frictional/ Non-Frictional – Static Determination – Consistency - Equilibrium - Anchorage Needs Estimation, Anchorage Management.	T3do Occlusogram, Digital Models and Orthodontic Calculators - The basis for Treatment Planning and Mechanics Design With practical part. Day One	T3do Occlusogram, Digital Models and Orthodontic Calculators - The basis for Treatment Planning and Mechanics Design With practical part. Day Two
Week 2 Giorgio Fiorelli	Statically Determinate Mechanics Cantilevers Two Vector Mechanics	Design of Statically Mechanics in the treatment plan. Metallurgy	Typodont: Passive wire bending Passive TPA and LA <hr/> Cantilevers Welding exercises	Typodont: Cantilevers <hr/> Statically Indeterminate Mechanics Six Geometries – Rationale for Dental Alignment and Leveling	Alfa Beta Spring – Minor Bends Typodont Alignment and Alpha Beta Springs
Week 3 Giorgio Fiorelli	Alignment Loops Transpalatal Bar and Lingual Arches mechanics.	Torque and Uprighting	Typodont Alignment Loops Typodont TPA and LA activations	Treatment plannings with T3do and DMA Assignment Treatment Planning and Case Presentations	Space Closure
Week 4 Birte Melsen	Biology of dental movement Growth and development	Transversal Problems Arch Expansion Use of tads - Biomechanics related to TADs	Treatment of Vertical Problems: Deep bite/Open bite Typodont Vertical Problems and Arch Expansions	Typodont Torque and Uprighting Space Closure Treatment Planning and Case Presentations	Treatment Planning and Case Presentations
Week 5 Birte Melsen	Asymmetry etiology/ localization treatment Correction/camouflage	Interdisciplinary Orthodontics Preprosthetics Orthodontics Ortho treatment of Periodontics cases	Mandibular repositioning Treatment Planning and Case Presentations	Biomechanics final proficiency test Treatment Planning and Case Presentations	Typodont Asymmetries Treatment Planning and Case Presentations

In black theoretical sessions, in red practical sessions

Course Fee for 2018 Biomechanics Summer Course

Before 1/1/2018 CHF 9000

After 1/1/2018 CHF 9400

Limited places

Payments

CHF 1200 at registration, to be done online at
<http://www.iooss-ortho.com/index.php/courses/biomechanics-summer-school/2016-registration>

1st Installment to be paid within 15 days by registration: 50% of remaining fee

2nd Installment to be paid by February 28th 2018 Final settlement

By paying this fee you are entitled to have access to the "Biomechanics in Orthodontics" ver. 4 online textbook (base contract).

In the course fee are included: Welcome drink and Goodbye final dinner, daily coffee breaks, Software "Biomechanics in Orthodontics", "T3do Occlusogram" and "DMA" for a value of about 1,500 chf.

Registration fee can be paid online by PayPal or by Bank Wire Transfer.

Following Payments can be done only by Bank Wire Transfer

IOSS GmbH Studenbühlstrasse 20, 8832 Wollerau - Switzerland
Bank accounts with Credit Suisse Parade Platz 8 - 8070 Zurich - Switzerland
IBAN CH19 0483 5157 5989 8100 0 BIC SWIFT CRESCHZZ80A

Registration will be finalized and confirmed only when we receive proof of payment of the registration fee

TESTIMONIALS

Wislei Oliveira

wdortho@yahoo.com.br

2017-08-11, 21:10

Summer School is the ultimate experience when it comes to learn biomechanics in orthodontics. The great team of Professors composed by Prof. Giorgio Fiorelli and Prof Birte Melsen are willing to lecture on comprehensive topics, including accurate diagnosis, treatment plan and sound mechanics needed to solve the most challenging cases.

Dorina Sula Thelen

2017-08-10, 19:40

I have attended the 5 weeks summer course on 2017. It was a great experience and can definitely say that has moved my clinical knowledges on a higher level. I must say that because of this school you became more effective and rational in your treatment. The teachers Giorgio and Birte and Wislei have a high level and they covered different orthodontic topics that make the course very broad and interesting as well. In overall this course is a must for every orthodontist. Regards Dorina Thelen

Gazwan Basha

2017-08-10, 18:34

An experiment which you will never forget.

5 weeks of biomechanics knowledge and science, meeting with new orthodontists from all over the world, discussing methods of treatment, exploring new ways of thinking and judgment.

5 weeks are over!!!! Maybe, but learning is still on, after more than one year of this course we still discussing cases, knowledge and help each other in every problem or to solve any question which we face in our clinic.

Thank you Giorgio for the great course, and thank to Birte as well for the great lectures.

katarzyna Bindek-Sypien

www.sypien.pl

2017-08-05, 20:24

This biomechanical course Lido di Camoaire2017 has been a perfect experience at this point in my orthodontic career. I have got the opportunity to learn from the best. Both Giorgio and Prof. Birte are skilful, passionate, humble and excited to show you the way of the biomechanics in orthodontic. The way they showed us the different techniques of treatment will for sure influence my future clinic work and add lots of common sense thinking to my practice. Although the beginning it was more like roller-coaster ride exploring totally new side of orthodontic with the time I realised that this is the path I would like to follow. Except anything else in this course the special price was to meet wonderful people-friends_ from all over the world, who will stay deep in my heart. I have to admit that this five weeks class added immense value to my life. Kasia BIndek-Sypien. POLAND

Hoai Phan

2017-08-05, 12:36

Get the base knowledge in 5 weeks (actually the most difficult one) and receive the shortest way to your orthodontic practice. I really enjoy it, the course, tutors, friend and other social services. This will open another door to fulfil your career for sure.

RAFAEL CASTRO ALONSO

www.ortodonciapontevedra.es

2017-08-03, 19:21

Just an amazing five weeks with Giorgio, Birte, Wislei, Asta and 20 colleagues from all around the world. After that, I have all that I need to treat my patients, and friends for life. Rafa Castro SPAIN

Gidalti Bueno Linhares

<http://www.iooss-ortho.com/index.php/cb-profile/gidaltihinhares>

2017-08-03, 12:44

I was a sad DENTIST and an unhappy orthodontist until 2015 summer. I was feeling like a robot always doing the same thing, at September of 2014 I was on a Lecture from a Famous Brazilian Orthodontist who made a lot of references to Birte and Giorgio. I've searched them on web, found the IOSS website and subscribe to the 2016 Summer School.

Fortunately some doctor gave up and a place on the 2015 class dropped on my lap!

Orthodontics Summer School saved my life (literally, but this is another history for another testimonial) and saved my career, now two years later I'm a happier doctor and I'm making the difference, trying to spread this good seed!

<http://www.iooss-ortho.com/index.php/cb-profile/gidaltihinhares>

Elsa Arango

2017-08-02, 14:37

What Biomechanics Summer School means to me.....

Incredible lectures given by top notch professionals that teach you how to think intensely and critically forming professional character. This course was full of values and gave me useful tools for my career.

Amazing team of staff and colleagues that always gave me a hand, opened my mind, and touched my heart.

I'll miss you !!!

Elsa Arango/ Colombia

Anastasia Pariskou

2017-08-01, 17:33

Five intense weeks! A steep learning curve.....

20 amazing colleagues!!

Two Gurus in Biomechanics, Prof. Birte Melsen and Dr. Giorgio Fiorelli.

4 great adjunct tutors: Wislei, Asta, Kamilla and Erkan!

An amazing team!! Biomechanics Summer School 2017!

Take home message: Believe in yourself! If you can dream it....you can do it!!

Big hug to everyone of you guys!! Love you!!

Anastasia / Greece

FAQ



1) I want to participate but 5 weeks are too long for me to stay in Italy. Can I attend part of the course?

Sorry we can't allow this.

2) I am a beginner in orthodontics, is this course recommendable for me?

Yes it is. You will be able to understand biomechanics even if you don't have clinical experience. You will benefit from a deep knowledge of biomechanics in all your professional career later on, no matter which will be your future orthodontic approach. I have experienced this fact in the many years I have been teaching.

3) I am an experienced orthodontist, is this course recommendable for me?

If you have some or a lot of clinical experience in orthodontics and you feel you lack some biomechanics knowledge, this is the course for you. It will help you improve your therapies and understand when and why things do not work.

4) Can I make video recording of the lectures?

We can allow some recordings, but not of the whole course.

5) I am coming with my family where do you suggest we should stay?

In Viareggio there is plenty of possibilities to rent an apartment. We will connect you to a real



estate agent.

6) Can you suggest some readings before the course starts?

There is a lot to study in this field. However upon registration you will receive the software "Biomechanics in Orthodontics" this is the textbook for the course. I recommend that you start reading it. Our lectures of course are not just the spoken version of this software, however you will be able to refer to this textbook to read again most of the topics we will discuss. Let's say that the course and the textbook work very well together. "Biomechanics in Orthodontics" contains also lots of references to biomechanics papers.

7) Is there any problem to get the Visa from my country to Italy?

In the first four editions of the course we had students from Syria, Saudi Arabia, Qatar, Dubai, Chile, Brazil, Turkey, Russia, Ukraine, South Korea, Honk Kong, India. For all these nationalities Italy requires a Visa. We never had a problem, until 2016, when a doctor from India had a refusal. This happened even if in the past, the same embassy has released the Visa to other participants. Exceptionally we decided to reimburse the course fee to this person, but this will not happen in the future. We will support in all possible ways doctors in their request of the VISA to the Embassy, but in case of refusal we cannot reimburse the fee they have already paid. Our courses are always sold out about one year before they start, and no reimbursement of the course fee is possible, since we are not responsible for the VISA release to the participants.

8) What am I required to have to participate in the course?

You will have to bring your laptop (Windows-based, T3do does not run on MAC) with the software installed and you will have to bring pliers and wires for the tyodont work.

Which are the needed pliers and wires?

Pliers and Instruments: Angle (Bird peak), Weingart or How, Lingual arch forming plier (image), ligature cutter, hard wire cutter, Mathieu, Scaler/Pusher instrument, Force gauge Correx (0-100g).

Wires and other material:

Tubes of straight cut pieces: Stainless Steel .017"x.025"

and .036". Beta Titanium (TMA, CNA or others) .017x0.25", .036", .018".

Elastic Power chain, metal ligatures (long).

Of course you can bring other instruments you are used to use in your practice.