

Dr. John Bennett
FDS D.Orth



Dr. Daniele Cantarella
DDS, MS, PhD



1-year International Program in Orthodontics

**Straight Wire
Technique:
the McLaughlin -
Bennett
treatment philosophy**



1-year International Program in Orthodontics, intended for orthodontists committed to an advanced approach to patient care using diagnostics, treatment and case management.

Course in 3 modules with theory and hands-on sessions

- 2 Modules with Dr Cantarella (3 days each) in Skopje, Macedonia
- 1 Module with Dr Cantarella and Dr Bennett (2 days) in Pforzheim, Forestadent headquarter, Germany

Language

- Course in English

Abstract of the course

The aim of the course is to provide the elements to formulate the diagnosis and planning of orthodontic treatment according to the philosophy of doctors Richard McLaughlin and John Bennett.

The McLaughlin-Bennett MB 5.0 system represents the most advanced version of the MBT orthodontic system, conceived by doctors McLaughlin, Bennett and Trevisi in the 1990s, which today has become one of the most widely used treatment philosophies in the world.

The goal is to teach a method of diagnosis, treatment planning and orthodontic therapy that is standardized and easily reproducible in daily clinical practice.

The course has an extremely practical approach; several hours will be dedicated to the hands-on sessions (with typodont) so that the participant can immediately apply the notions learned during the course in daily clinical practice. For this purpose, the modules to be used for diagnosis, clinical examination and treatment planning will be given to the course participants.

Furthermore, the students will have the Demo version of the cephalometric software installed on their laptop PC free of charge throughout the course duration, in order to carry out the cephalometric analysis and treatment planning.

“I only want
the very best.”

Cèsar Ritz 1850-1918

Speaker at Modules 1, 2, and 3

Dr. Daniele Cantarella, DDS, MS, PhD

- Adjunct Professor, University of Milan, Italy
- Visiting Professor, Department of Orthodontics, Arizona University, Phoenix, USA
- PhD in Clinical Research, University of Milan, Italy
- Regular Member, E.H. Angle Society of Orthodontists, Component of Southern California
- Advanced Clinical Training in Orthodontics and Master of Science in Oral Biology, University of California, Los Angeles, USA
- Two year Orthodontic Program at Dr. Richard McLaughlin Orthodontic Center in San Diego, USA

Dr. Daniele Cantarella is an international speaker in the field of Orthodontics. He received the Award of the European Federation of Orthodontics (FEO) for the best research publication in 2019. His areas of expertise are digital orthodontics, biomechanics, MARPE, skeletal anchorage. He maintains a private practice in Orthodontics in Treviso, Venice area, Italy.



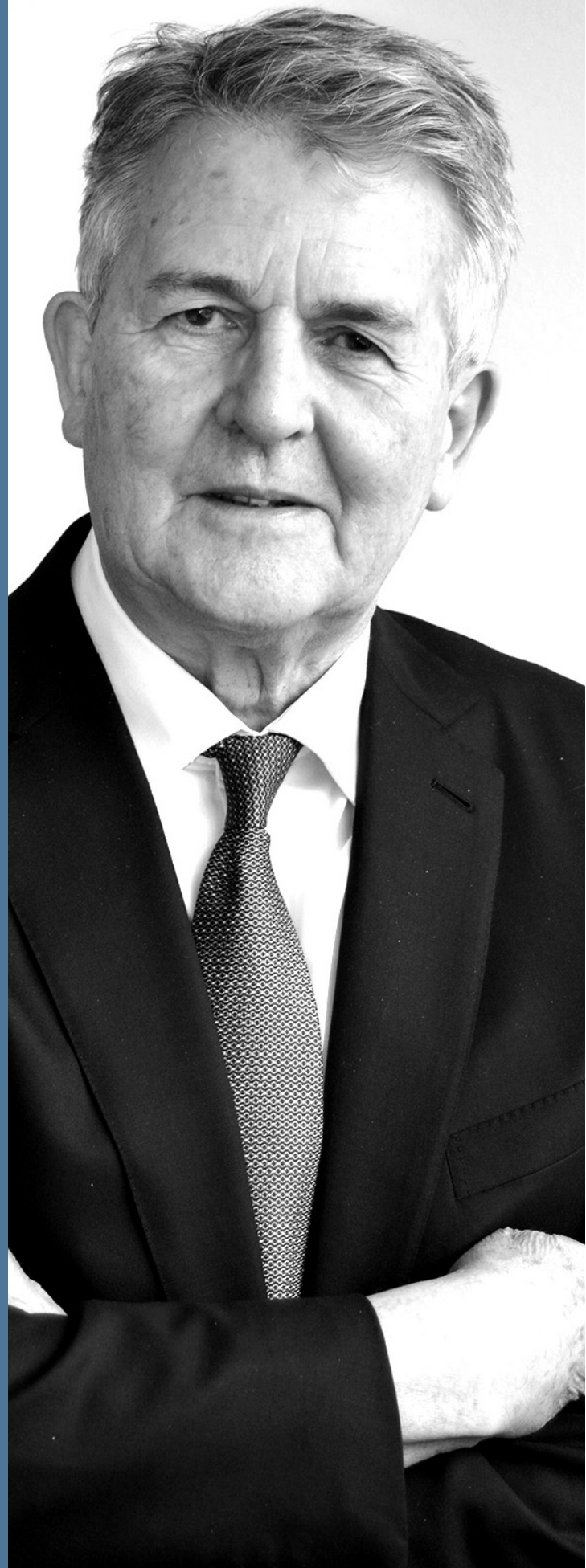
Speaker at Module 3

Dr. John Bennett, FDS D.Orth

Dr. John Bennett completed his specialist orthodontic training at the Eastman Post-graduate Institute in London.

He is a well-known authority on treatment mechanics and has authored or co-authored seven orthodontic textbooks in multiple languages. Working with Dr. Richard McLaughlin and Dr. Hugo Trevisi he developed a widely-accepted system of orthodontic treatment, released in 1997.

Dr. Bennett continues to be at the forefront in the development of effective and dependable orthodontic treatment mechanics, with a special interest in the treatment of children and adolescents. He is currently working with Dr. Daniele Cantarella to further improve the philosophy.



MODULE 1

Orthodontic diagnosis and treatment planning; the Straight Wire MB 5.0 orthodontic appliance.

The patient first visit

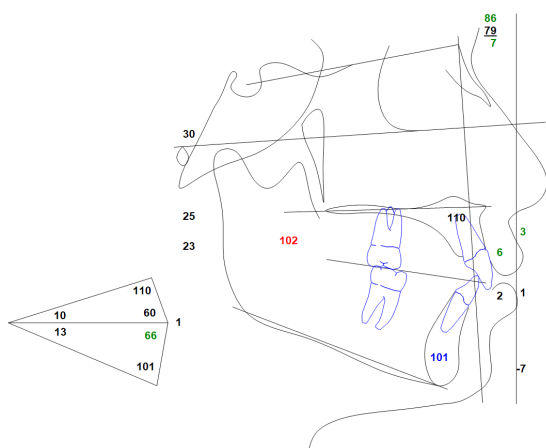
- Medical history, dental and orthodontic history, physical examination
- Analysis of the temporomandibular joint (TMJ) and respiratory function; diagnosis and treatment of sleep apnea syndrome (OSAS)
- Facial and intra-oral photographs; the aesthetic analysis of the face according to Arnett
- The models of the dental arches

The radiological examination

- Orthopantomography, latero-lateral and posterior-anterior headfilm, 3D CBCT radiology
- Cephalometric analysis of hard tissues according to McLaughlin
- Cephalometric analysis of soft tissues according to Arnett-McLaughlin; getting a repeatable natural head position (NHP)

Orthodontic treatment planning

- The problem list and treatment goals
- The dental Visual Treatment Objective (VTO) according to McLaughlin



The normal occlusion

- The Andrews 6 occlusal keys
- Tooth-to-tooth or fossa-cusp occlusion according to P.K. Thomas

The evolution of the Straight-Wire technique from its origins until today

- Historical review: the thoughts of Andrews, Roth, McLaughlin and Bennett
- The MBT pre-adjusted appliance
- The MB 5.0 pre-adjusted appliance, latest evolution of the MBT system

Bracket placement in orthodontics and the bracket positioning chart according to McLaughlin and Bennett

- Direct bonding (clinical sequence)
- Indirect bonding (laboratory and clinical sequence)
- The new indirect bonding systems with digital technology and 3D printer

Hands-on session

- Execution of cephalometric analysis of hard and soft tissues on lateral headfilm brought by the course participants: a free demo of the cephalometric software valid for 9 months will be installed on PC laptop
- The dental VTO on a clinical case brought by the course participants

MODULE 2

Class I malocclusion and intra-arch treatment mechanics; Class II malocclusion, inter-arch treatment mechanics Part I; therapy of impacted canines.

Class I malocclusion

- Dento-alveolar discrepancy: crowding and diastemas
- The dental bimaxillary protrusion
- Inter-proximal reduction (IPR) or “stripping” as a useful method to gain space in the arch
- The agenesis of the lateral incisors: when to open and when to close the spaces

The intra-arch treatment mechanics

- Leveling and aligning, overbite correction (OVB), space closure
- Laceback, bendback, passive and active tieback
- The sequence of archwires in extraction and non-extraction cases
- The individualized arch form, in compliance with the basal bone shape and the functional matrix
- The anchorage needs in extraction cases
- Bracket placement in cases of canine substitution (lateral agenesis)

The diagnosis of Class II malocclusion

- Skeletal and dental malocclusion; cephalometric analysis and face analysis
- The McLaughlin-Arnett analysis for the treatment planning (mandibular advancement therapy or distalization of the upper arch)
- The vertical control in the treatment of Class II malocclusions
- Analysis of slide from centric relationship (CR) to centric occlusion (OC)
- The diagnosis of respiratory problems associated with Class II malocclusions

Treatment of the growing patient

- The Twin Block appliance
- Fixed functional appliances



MODULE 2

Extraction treatment in Class II malocclusions

- The selection of teeth to be extracted on the basis of the anchorage emerged from the dental VTO
- Biomechanics in the McLaughlin-Bennett MB 5.0 appliance

Treatment of Class II malocclusions in the adult patients

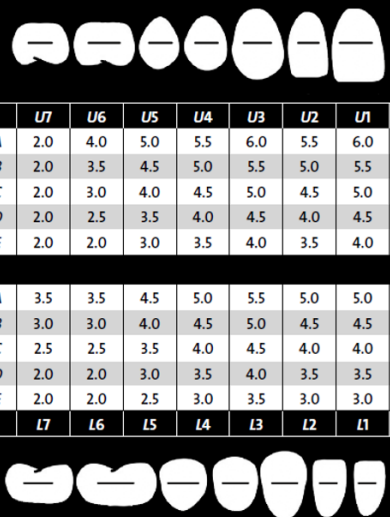
- Orthodontic camouflage in Class II malocclusions: guidelines and mechanics
- Orthognathic surgery according to Arnett in Class II malocclusions

The impacted canines

- Etiology and diagnosis
- Early therapy of ectopic canines in the mixed dentition
- The orthodontic-surgical treatment of the impacted canine in the permanent dentition: the palatal and buccal approach
- The versatility of the MB 5.0 appliance in the therapy of the impacted canines

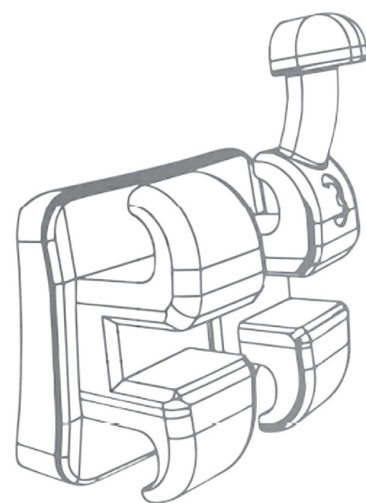
Hands-on session

- Indirect bonding: bracket positioning according to McLaughlin-Bennett
- Indirect bonding with digital technology and bonding trays made with a 3D printer
- Execution of silicone bonding trays on plaster models brought by the course participants, for the transfer of the brackets onto the patient's teeth
- Placing brackets on plaster models of patients who will start treatment



	U7	U6	U5	U4	U3	U2	U1	Arcata Sup.
A	2.0	4.0	5.0	5.5	6.0	5.5	6.0	+1.0 mm
B	2.0	3.5	4.5	5.0	5.5	5.0	5.5	+0.5 mm
C	2.0	3.0	4.0	4.5	5.0	4.5	5.0	Standard
D	2.0	2.5	3.5	4.0	4.5	4.0	4.5	-0.5 mm
E	2.0	2.0	3.0	3.5	4.0	3.5	4.0	-1.0 mm

	L7	L6	L5	L4	L3	L2	L1	Arcata Inf.
A	3.5	3.5	4.5	5.0	5.5	5.0	5.0	+1.0 mm
B	3.0	3.0	4.0	4.5	5.0	4.5	4.5	+0.5 mm
C	2.5	2.5	3.5	4.0	4.5	4.0	4.0	Standard
D	2.0	2.0	3.0	3.5	4.0	3.5	3.5	-0.5 mm
E	2.0	2.0	2.5	3.0	3.5	3.0	3.0	-1.0 mm



MODULE 3

The correction of Class III malocclusion, inter-arch treatment mechanics part II; the vertical and transversal problems.

With the presence of Dr. John Bennett.

The vertical problems

- Open bite and deep bite: diagnosis and orthodontic treatment mechanics

The transverse problems

- Diagnosis of skeletal or dentoalveolar contraction of the maxilla: according to the University of California of Los Angeles (UCLA)
- The expansion of the maxilla in mixed dentition, in permanent dentition, and in the adult patient
- Maxillary expansion and its relationship with nasal breathing and obstructive sleep apnea syndrome (OSAS)
- Skeletal expansion versus dentoalveolar expansion

Class III malocclusion

- The vertical, horizontal and transversal components in the Class III malocclusions
- The differential diagnosis between true Class III and pseudo-Class III malocclusion (CR-CO discrepancy)
- Orthopedic maxillary advancement with face mask in the growing patient: skeletal and dentoalveolar components
- Extraction and non-extraction treatment of Class III malocclusion in the permanent dentition
- Camouflage treatment in the Class III malocclusions
- Orthognathic surgery in the Class III malocclusion

The asymmetries

- The differential diagnosis and treatment of skeletal asymmetry, dento-alveolar asymmetry, CR-CO lateral sliding

Temporomandibular joint disease (TMJ)

- The causes and treatment of TMJ pathology
- The relationship between occlusion and craniomandibular disorders

The finalization of the orthodontic case

- The American Board of Orthodontics (ABO) standards

The orthodontic retention

- The wraparound retainer
- The Cad-Cam fixed retainer
- The vacuum-formed retainers

Hands-on session

FRIDAY AFTERNOON

The MB 5.0 intra-arch treatment mechanics

- Positioning of lacebacks, passive and active tiebacks, bendbacks on typodonts

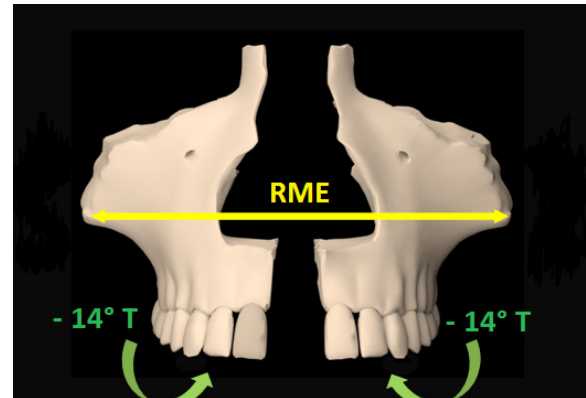
SATURDAY (ALL DAY)

Wire bending

- First, second and third order finishing bends on stainless steel archwires
- Creation of sectionals to be used in cases of second premolar extraction
- The bite-opening curves on stainless steel archwires

Analysis and discussion of clinical cases brought by the participants

- Course participants are encouraged to bring clinical cases at each module, with facial and intra-oral photographs, orthopantomography, latero-lateral headfilm, cephalometric analysis of hard and soft tissues, dental VTO
- A cephalometric software will be installed on participants' PC laptop throughout the course duration for advanced diagnosis and treatment planning



→ **INSTRUMENTS REQUIRED FOR THE COURSE (HANDS-ON SESSION)**

- Personal Computer (laptop) for the execution of cephalometric tracings; the cephalometric software demo will be installed free of charge throughout the duration of the course
- Dental caliper (to measure the size of the teeth, and to mark the position of the black and red reference lines on the plaster model for indirect bonding)
- Bracket positioning pliers
- Bracket gauge
- Scaler – utility instrument
- Mathieu plier
- Tweed pliers (2 pliers)
- Bird-beak plier
- Weingart plier
- Turret plier
- Ligature cutter
- Archwire cutter

The participants will be provided with the modules (pdf) to be used in the office for the anamnesis and orthodontic visit, for the analysis of the TMJ and respiratory function, for the cephalometric analysis, the dental VTO and the planning of the orthodontic treatment.

Each participant will receive the English version of the last book written by Drs. Bennett and McLaughlin.

Straight Wire Technique: the McLaughlin - Bennett treatment philosophy

DATES

- **Module 1:** September 20-22 2024 in Skopje (Macedonia)
- **Module 2:** November 29 – December 1 2024 in Skopje (Macedonia)
- **Module 3:** January 31 – February 1 2025 in Pforzheim, Forestadent headquarter, Germany

Dr. John Bennett will be present during Module 3.

PRICE

- 2.800 Euro (included taxes)
- 2.500 (included taxes) for payments received before July 1st 2023

→ **For information and registration** please contact Dr. Aleksandra Podolesova at OrthoExpert, Skopje:

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- +389 75322966 or +389 25112012

McLaughlin Bennett 5.0

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