



Universitäres Zentrum  
für Zahnmedizin  
Basel



# Department of Orthodontics

## Wire bending in the age of aligners?!

### Registration

Please use the QR-Code or write an email with the correct course number to: [uzb@kongressadministration.ch](mailto:uzb@kongressadministration.ch)

## POH1

# Charlie meets Charlie – Fixed appliances in aligners time – Part 1

## Hand-on course on edgewise standard and segmented arch techniques

Studies on the predictability of aligner treatment have shown that various tooth movements remain best performed only with fixed orthodontic therapy. Wire bending is still needed. This is the first of 3 hands-on meetings, 3 days long, that will provide the basic theoretical and practical knowledge according to Charles Tweed's and Charlie Burstone's segmented arch approaches through the use of typodonts.

### Day 1

An Introduction to Tweed Philosophy and Biomechanics; Wire bending: omega loop stop, closing loop, helical boulder loop, step in, step out, coordinated archwires; The orders, 1st order. Diagnosis and treatment plan, part 1; Case reports.

### Day 2

The orders, 2nd and 3rd order. Wire bending: standard torque, passive torque, single torque, step up, step down, anchorage preparation, artistic bends, uprighting bends. Case reports.

### Day 3

Treatment of a class I malocclusion with extraction of the first four premolars. Set#1: denture preparation. Set#2: denture correction. Set#3: finishing. Wire bending: set#1, 2 and 3 of wires on 3D typodonts and related case reports.

## Head of course

Prof. Dr. Carlalberta Verna

Department of Orthodontics

## Lecturers

Dr. Giovanni Biondi

Instructor Tweed Foundation, former member of the board of directors

Dr. Carlo Mantoan

Instructor Tweed Foundation

Dr. Gabriele di Carlo

Member Tweed Foundation, assistant Professor,

unit of pediatric dentistry, University of Rome Sapienza, Italy

## Date / time

Thursday, 11.04.24 / 09am to 17pm

Friday, 12.04.24 / 09am to 17pm

Saturday, 13.04.24 / 09am to 17pm

## Location:

UZB, Mattenstrasse 40, 4058 Basel, room 02.402

## Costs:

CHF 1'800 (including coffee break and light lunch)

Attention: Limited number of participants!

## Information / Application

Informations via [poh@uzb.ch](mailto:poh@uzb.ch)

Registration via L&H Kongressadministration

## Credits: 20 points

## POH2

# Charlie meets Charlie – Fixed appliances in aligners time – Part 2

## Hands-on course on edgewise standard and segmented arch techniques

Studies on the predictability of aligner treatment have shown that various tooth movements remain best performed only with fixed orthodontic therapy. Wire bending is still needed. This is the second of 3 hands-on meetings, 3 days long, that will provide the basic theoretical and practical knowledge according to Charles Tweed's and Charlie Burstone's segmented arch approaches through the use of typodonts.

### Day 1

Diagnosis and treatment plan, part 2. Wire bending: recap coordinated archwires with 1st, 3rd and 2nd order. Treatment protocol of a class II malocclusion with extraction of the first upper premolars and second lower premolars. Set#1: denture preparation. Wire bending: set#1 of wires on wax typodonts. Case reports.

### Day 2

Set#2: denture correction. Wire bending: set#2 and set#2a. Case reports.

### Day 3

Set#3: finition. Wire bending: set#3. The class II sequential mechanics of distalization with and without the use of TADs. Case reports. Tweed Philosophy and Biomechanics in adult orthodontic treatments.

### Head of course

Prof. Dr. Carlalberta Verna

Department of Orthodontics

### Lecturers

Dr. Giovanni Biondi

Instructor Tweed Foundation, former member of the board of directors

Dr. Carlo Mantoan

Instructor Tweed Foundation

Dr. Gabriele di Carlo

Member Tweed Foundation, assistant Professor,  
unit of pediatric dentistry, University of Rome Sapienza, Italy

### Date / time

Thursday, 23.05.24 / 09am to 5pm

Friday, 24.05.24 / 09am to 5pm

Saturday, 25.05.24 / 09am to 5pm

### Location:

UZB, Mattenstrasse 40, 4058 Basel, room 02.402

### Costs:

CHF 1'800 (including coffee break and light lunch)

Attention: Limited number of participants!

### Information / Application

Informations via [poh@uzb.ch](mailto:poh@uzb.ch)

Registration via L&H Kongressadministration

Credits: 20 points

## POH3

# Charlie meets Charlie – Fixed appliances in aligners time – Part 3

## Hand-on course on edgewise standard and segmented arch techniques

Studies on the predictability of aligner treatment have shown that various tooth movements remain best performed only with fixed orthodontic therapy. Wire bending is still needed.

This is the third of 3 hands-on meetings, 3 days long, that will provide the basic theoretical and practical knowledge according to Charles Tweed's and Charlie Burstone's segmented arch approaches through the use of typodonts.

Aim: Learn how to simplify complex cases by knowing the basics of orthodontic biomechanics. Properly construct and activate auxiliary devices for difficult orthodontic movements.

Contents: Every singular segmented treatment strategy will be theoretically presented and demonstrated hands-on. The student will learn how to plan and realize hands on the cantilevers and intrusion arches as well as torque arches. Particular attention will be paid on the mechanics able to enhance the predictability of aligners: molar uprighting, closing space using t-loops as well as root mesialization and box loops. Moreover, an innovative spring to fix transposition will be presented.

### Head of course

Prof. Dr. Carlalberta Verna

Department of Orthodontics

### Lecturers

Dr. Roberto Ciarlantini

SIBOS member

(Italian Society of Biomechanics and Segmented Orthodontics)

Dr. Gabriele di Carlo

Member Tweed Foundation, assistant Professor,

unit of pediatric dentistry, University of Rome Sapienza, Italy

### Date / time

Thursday, 27.06.24 / 09am to 5pm

Friday, 28.06.24 / 09am to 5pm

Saturday, 29.06.24 / 09am to 5pm

### Location:

UZB, Mattenstrasse 40, 4058 Basel, room 02.402

### Costs:

CHF 1'800 (including coffee break and light lunch)

Attention: Limited number of participants!

### Information / Application

Informations via [poh@uzb.ch](mailto:poh@uzb.ch)

Registration via L&H Kongressadministration

Credits: 20 points