



8th DENTAL FRACTOGRAPHY COURSE 2026

15. September – 17. September

P R O G R A M

Hands-on Instructors: Scherrer SS, Lohbauer U, Belli R

Day 1: In-vitro Fractography

08:30-08:45	Welcome, general information	(SS, UL)
08:45-09:15	History, relevant standards and NIST Guide	(SS, UL)
09:15-09:45	Introduction of fracture mechanics, Part 1	(RB)
09:45-10:15	Live Demo: Fractographic equipment and viewing techniques, Part 1	(UL)
10:15- 10:30	COFFEE BREAK	
10:30-10:50	Hands-on 1: Hand loupes, stereomicroscopes	(all)
10:50-11:35	Live Demo: Fractographic equipment and viewing techniques, Part 2	(UL)
11:35-12:00	Fracture surface features, origins & flaw types, Part 1	(UL)
12:00-13:30	LUNCH BREAK	
13:30-14:00	Live-Demo: in vitro fracture surfaces (uniaxial vs. biaxial)	(UL)
14:00-14:30	Introduction to Fracture Mechanics, Part 2	(RB)
14:30-15:00	Mechanical properties and microstructure of dental ceramics	(UL)
15:00-15:15	COFFEE BREAK	
15:15-16:00	Hands-on 2: Ceramic bend-bars	(all)
16:00-16:30	Practical aspects in strength testing, statistics and fractography	(UL)
16:30-17:00	Fracture surface features, origins & flaw types, Part 2	(SS)



Day 2: In vivo Fractography

08:30-09:30	Interactive: Clinical case presentation	(SS)
09:30-10:00	Hands-on 3: Clinical cases	(all)
10:00-10:15	COFFEE BREAK	
10:15-10:45	Data collection, systematic approach, cleaning procedure	(SS)
10:45-11:00	How to organize a fractography paper	(RB)
11:00-11:50	Hands-on 4: The replica technique	(UL)
11:50-13:30	LUNCH BREAK	
13:30-14:00	Hands-on 5: Replica glass rods & replica crown chippings	(RB)
14:00-15:30	Case presentations and interactive: Zirconia, alumina, Li2Si	(all)
15:30-15:45	COFFEE BREAK	
15:45-17:00	Live Demo/Hands-on 6: Clinical cases	(all)
19:30-23:00	SOCIAL DINNER: Restaurant Sebold, Weinmarkt 14, 90403 Nürnberg (https://sebold-speiselokal.com/)	



Day 3: Research and Fractography

08:30- 09:15	Fractography of pre-cracks in SEPB and SCF Test specimens	(RB)
09:15-10:00	Hands-on 6: Fractography of SCF pre-cracks	(RB)
10:00-10:15	COFFEE BREAK	
10:15-11:30	Fractography in vivo on composite failed restorations	(SS)
11:30-12:00	Fractography of ceramic implants	(UL)
12:00- 12:30	Dos and Don'ts in fractographic publishing	(SS)
12:30-13:30	LUNCH BREAK	
13:30-14:30	Interactive cases, Hands-on, individual Q&A	(all)
14:30-15:00	Closing remarks	