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)
12:00-13:00 Hands-on 2: Ceramic bend-bars (all)

13:00-14:30 LUNCH BREAK

14:30-15:00 Introduction to Fracture Mechanics, Part 2 (RB)
15:00-15:30 Mechanical properties and microstructure of dental ceramics (UL)
15:30-15:45 COFFEE BREAK

15:45-16:15 Fracture surface features, origins & flaw types, Part 2 (SS)
16:15-17:00 Interactive: Clinical case presentations 1 (SS)
Day 2: In vivo Fractography

08:30-08:50 Data collection, systematic approach, cleaning procedure (SS)
08:50-09:20 Interactive: Clinical case presentation 2 (SS)
09:20-10:00 Hands-on 3: Clinical cases (all)

10:00-10:15 COFFEE BREAK

10:15-10:50 The replica technique (Hands-on) (UL)
10:50-11:30 Hands-on 4: Replica glass rods & replica crown chippings (RB)
11:30-12:00 How to organize a fractography paper (RB)
12:00-13:00 Mechanical properties and microstructure of dental composites (UL)

13:00-14:30 LUNCH BREAK

14:30-15:00 Interactive: Composite clinical fractures (all)
15:00-15:30 Hands-on 5: Composite bend bars & composite clinical cases (all)

15:30-15:50 COFFEE BREAK

15:50-16:15 ADM-Guidance paper on fractography (SS)
16:15-17:00 Live Demo/Hands-on 6: Clinical cases (all)

20:00-23:00 SOCIAL DINNER
Day 3: Research and Fractography

08:30- 09:30  Invited talk:
   “Tooth-colored materials in clinical practice: Selection, use and error prevention”
   Prof. Martin Rosentritt (University of Regensburg, Germany)

09:30-11:30  Invited Workshop:
   “Testing restorative materials in the lab – what can we learn from clinical studies?”
   Dr. Siegward Heintze (Ivoclar AG, Liechtenstein)

11:30-12:00  COFFEE BREAK

12:00-13:30  Interactive cases, Hands-on, individual Q&A
13:30-14:00  Closing remarks

14:00-15:00  LUNCH BREAK