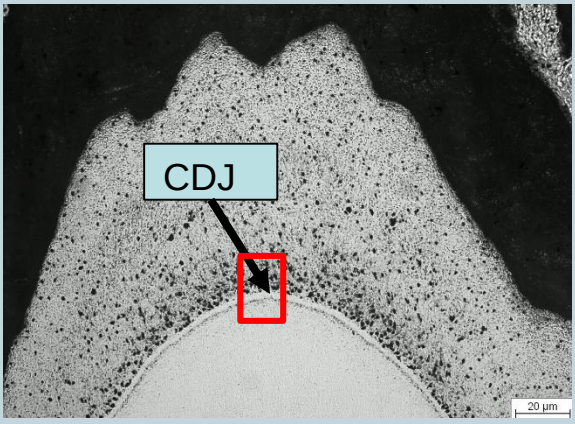
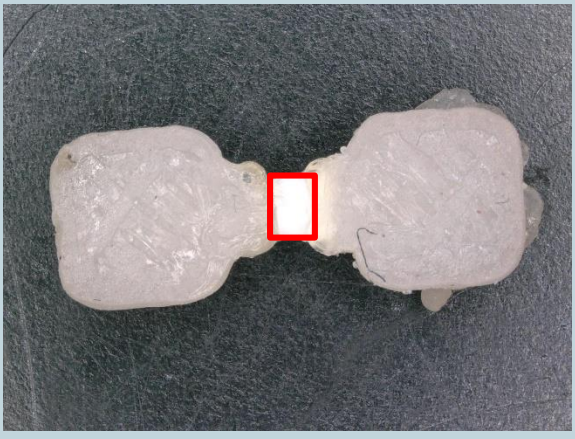
Bachelor- oder Masterarbeit

WiSe 2021/22

Prof. Dr.-Ing. Claudia Fleck

Static mechanical testing of Cementum Dentine Junction





The Cemento-dentinal junction (CDJ) is an interzone connecting two stiffer tissues dentine and cementum. The constituents of these tissues are mineralized collagen fibers and proteins. The CDJ is very thin – several microns thick - and it has a poorly defined.

A CDJ is never broken by routine histological processing. To achieve better understanding of such bio-inspired interzone, the goal of the current study is to investigate whether there is an adaptation of the CDJ composition to different loading conditions along the root surface.

The work package of the project includes Samples preparation, Static tensile testing, compression and bending of the samples prepared from different regions along the root surface.

This project can be adapted to a bachelor or master thesis and the focus can also be modified to fit the candidate's interest.

Contact: Ahmed Ali
030 231 35
a.ali@tu-berlin.de