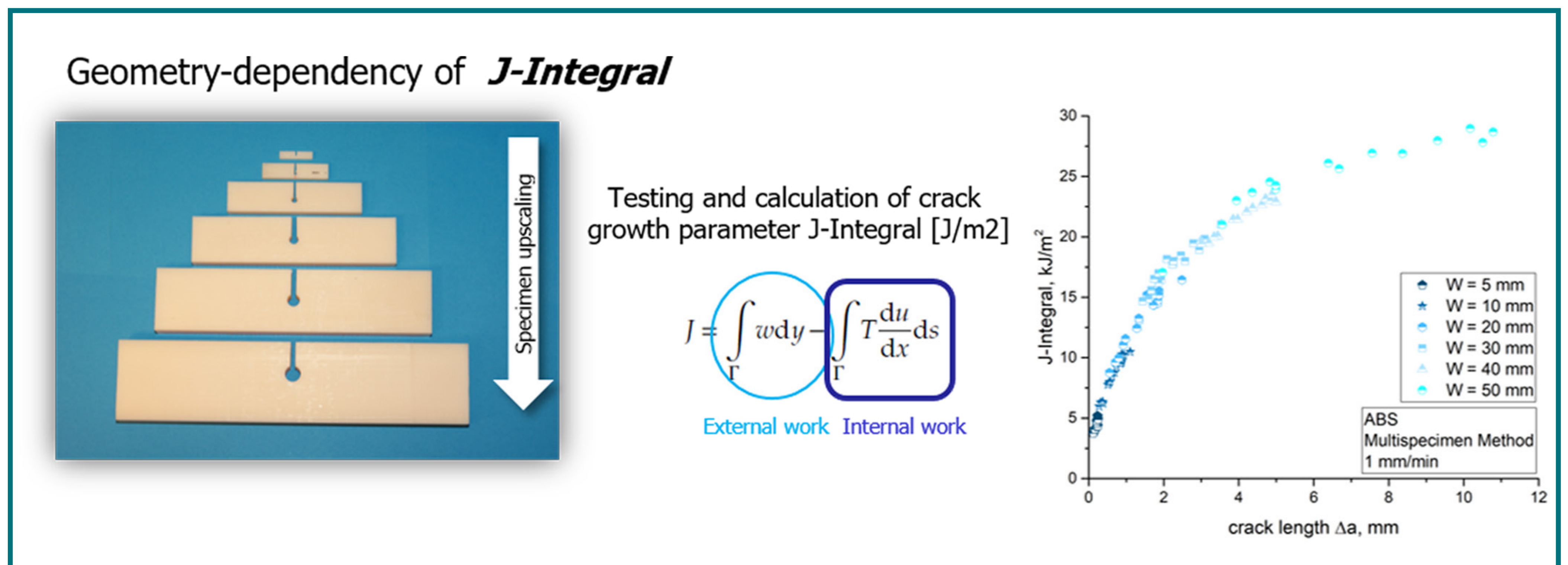
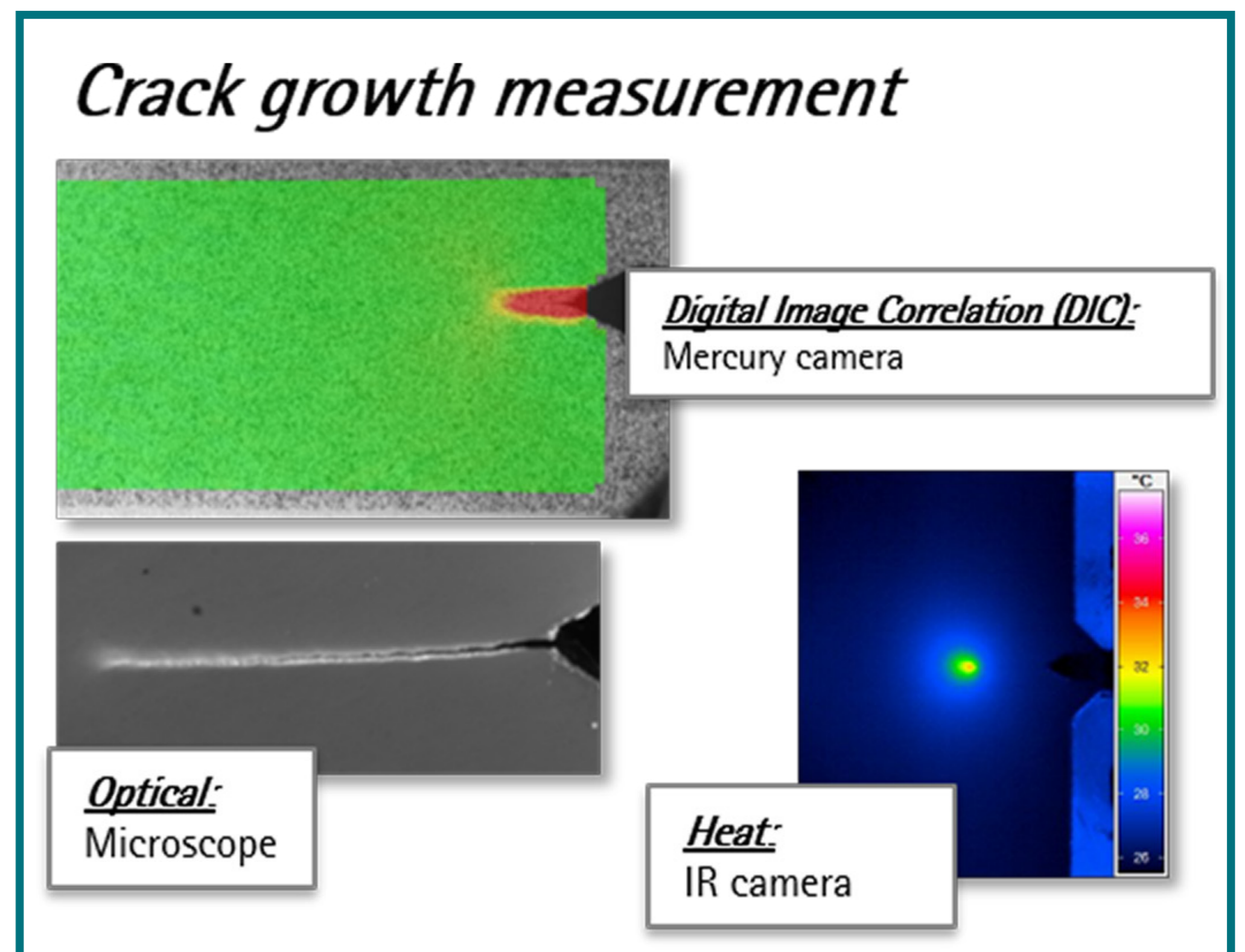
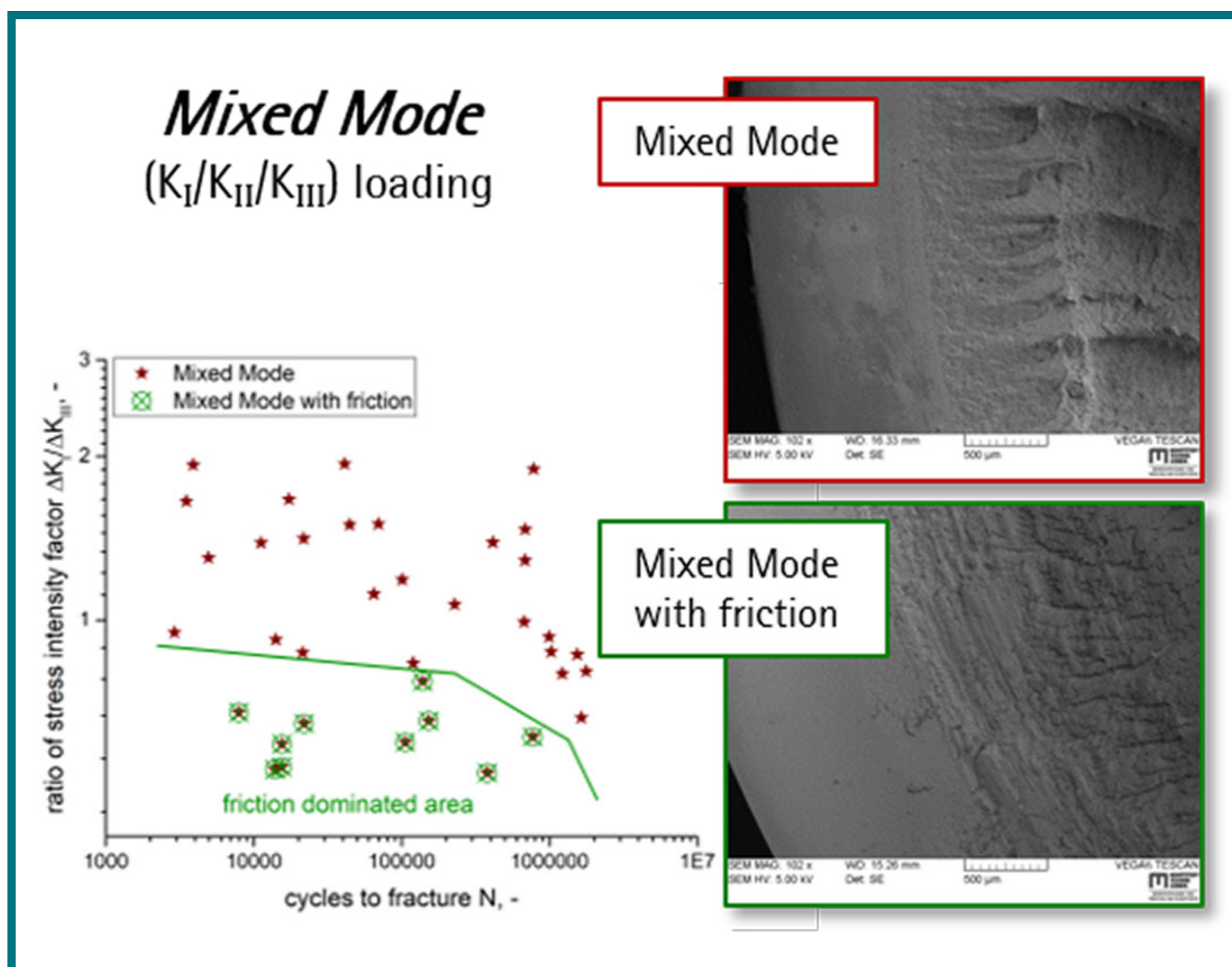


Reliable component design via advanced fracture mechanics

Anja Gosch

Why do we need parameters like J-Integral, K_{II}/K_{III} and crack growth detection?



ANJA GOSCH

Materials Science and Testing of Polymers

anja.gosch@unileoben.ac.at

RESEARCH FOCUS: elastic plastic fracture mechanics, fracture mechanics for soft polymers, cyclic mode II and mode III testing

PROJECT: Fracture mechanics concepts extended to shear dominated crack growth and soft materials

PROJECT PARTNERS: Materials Science and Testing of Polymers (MUL), Polymer Competence Center Leoben GmbH (PCCL), Institute of Physics of Materials (IPM)/Academy of science of the Czech Republic

FUNDING: The research work was performed at Materials Science and Testing of Polymers (MUL) within the framework of the COMET-program of the Federal Ministries for Transport, Innovation and Technology (bmvit) and Science, Research and Economy (BMDW) with contributions by the PCCL and the IPM/ Academy of science of the Czech Republic.