

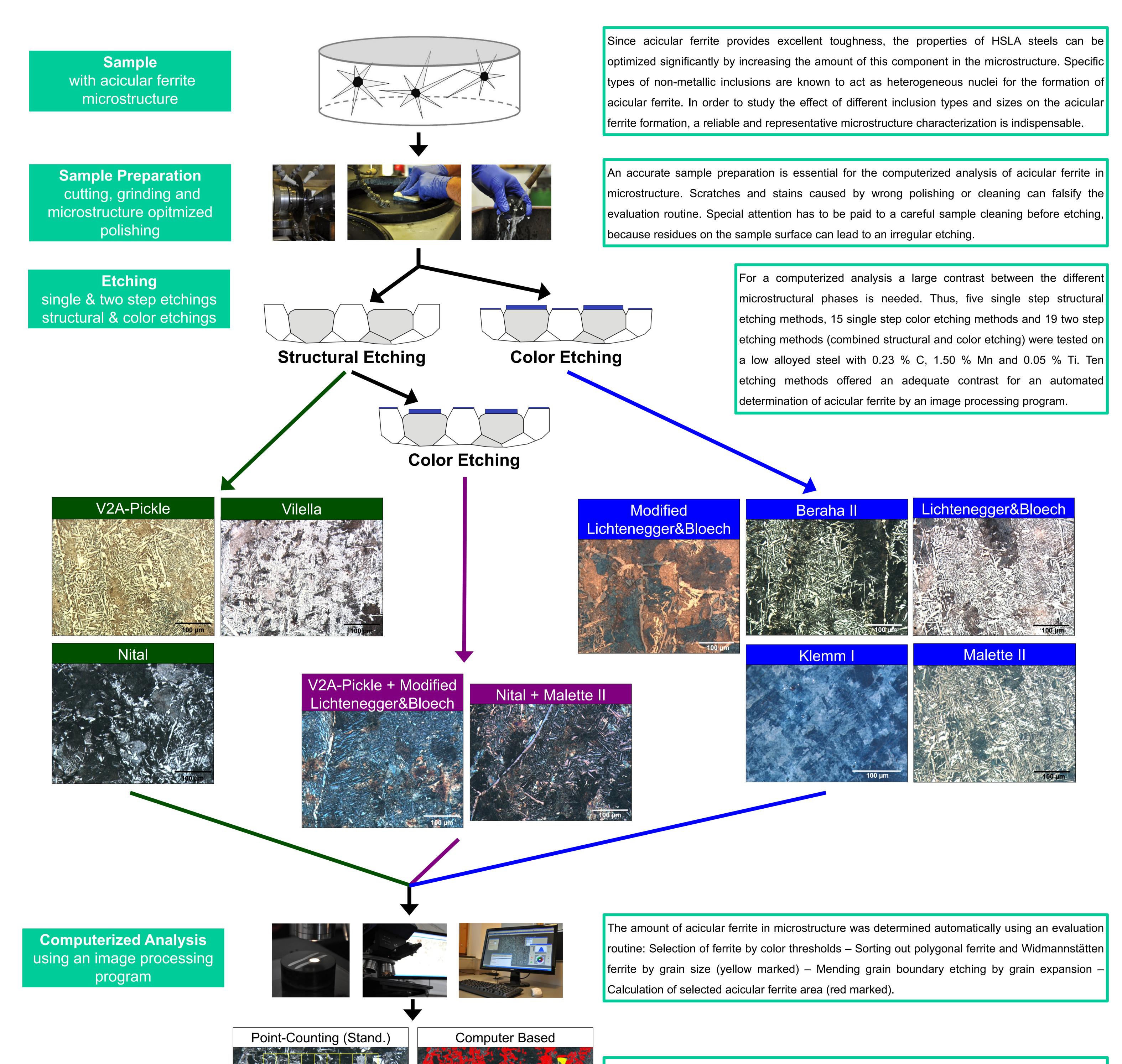


## **Denise Loder**

PhD Student Mail: denise.loder@unileoben.ac.at



## Etching Methods for the Computerized Analysis of Acicular Ferrite in Steel Microstructures





Comparison

with standardized

point-counting method

(Nital etchings)



43.5 % AF

Der Wissenschaftsfonds.

nnology (bmvit)

44.3 % AF



methods show an acicular ferrite amount of about 44 % in the tested sample.

For the evaluation of the tested etching methods concerning their practicability for a computer

based acicular ferrite investigation the etched microstructures are analysed by the developed

routine (right picture) as well as by the manual standardized method according to ASTM 562-11

(left picture). The results of these two analysing methods are in very good agreement, both



