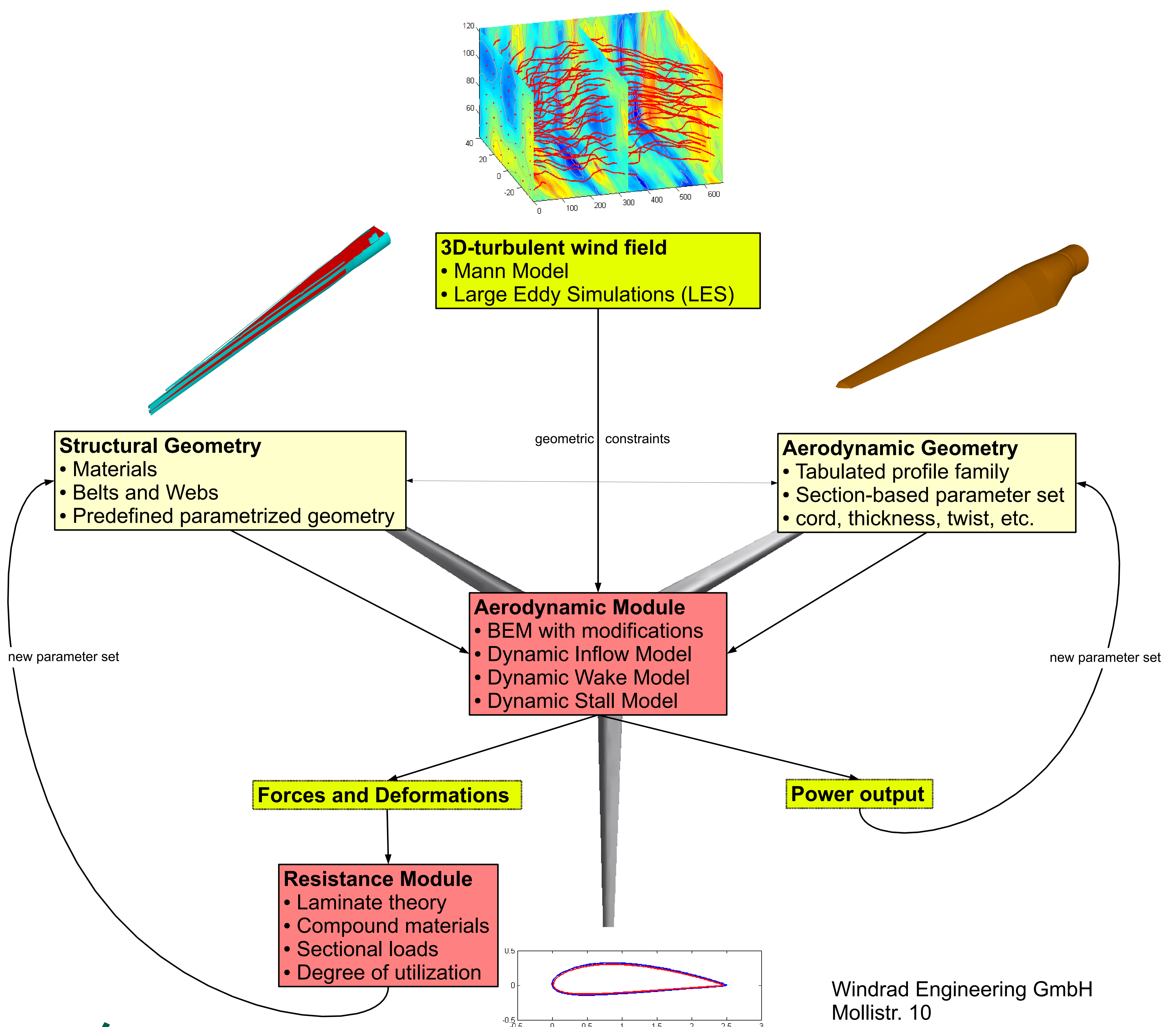


An optimization tool for wind turbine rotors

M. Hänler and U. Ritschel
Windrad Engineering GmbH

- Design optimal blades for a given wind energy converter constellation, i.e. rotor size, rated speed, etc
- Minimize usage of material resp. blade costs presuming an optimal power output for all wind bins
- User defined constraints like material qualities, prepreg width etc. are incorporated in the cost function
- Interactive design optimization, from coarse grid of design parameters to fine resolution near optimum
- State of the art failure criteria for glass fiber reinforced plastics and compound materials are incorporated



Windrad Engineering GmbH
Mollistr. 10
18209 Bad Doberan
Germany
Tel. +49 38 20 3 77 63 0
Fax +49 38 20 3 77 63 20
Email mail@windrad-engineering.de
WWW www.windrad-engineering.de