

60. AK Verstärkung keramischer Werkstoffe

des DKG/DGM GA Hochleistungskeramik und des Ceramic Composite



09:00 **Welcome, coffee and snacks, networking**

09:15 **Welcome and introduction** Dietmar Koch (Universität Augsburg), Denny Schüppel (Ceramic Composites)

09:30 **doMiGat Dense oxide ceramic CMC components for micro gas turbine applications**

Coating of O-CMC-parts with complex shape G.Barroso, R.Wagner, M.Müller (all Rauschert), A.Rüdinger (Fraunhofer ISC-HTL)

Machining of O-CMC-parts for micro gas turbines

T.Neuwald (Fraunhofer IPK), J.Mundstock ((Euro-K), R.Wagner, G.Barroso (all Rauschert), M.Bohlender (Gustav Gerster)

Developments for high density O-CMC A. Rüdinger (Fraunhofer ISC-HTL), J.Mundstock (Euro-K), M.Müller, (Rauschert), M.Bohlender (Gustav Gerster)

11:00 **Coffee break**

11:15 **CMC TraTurb CMC support structures in the hot gas section of gas turbines**

A continuum damage model for CMC materials Claudio Findeisen, Jörg Hohe (Fraunhofer IWM)

SiC/SiC materials for turbine application (prepreg route) Johanna Schmidt (Schunk)

Increasing the SiC matrix content of melt-infiltrated SiC/SiC CMCs & Design of attachment concepts for SiC/SiC turbine components

Fabia Süß, Sandrine Höning, Martin Frieß, Linda Klopsch (all DLR BT Stuttgart)

12:45 **Lunch break**

13:30 **CMC TurbAn CMC optimization for turbine applications**

Title to be defined Kay Jäger (BJS Ceramics)

Development of oxidic CMC materials and feature patterns based on pressing technique and low cost fabrics Arne Rüdinger, Liviu Toma, Peter Vierhaus, Sabine Olbrich (Fraunhofer ISC-HTL)

SiC/SiC materials for turbine application (preform route) Johanna Schmidt (Schunk)

Development of OFC material suitable for application in turbine engines Lukas Zulauf (Schunk)

Optimisation of CVI fibre coating thickness in melt-infiltrated SiC/SiC CMCs & Development of environmental barrier coatings (EBC) for turbine applications Fabia Süß, Linda

Klopsch (all DLR-BT Stuttgart), Ronja Anton, Vito Leisner, Uwe Schulz (all DLR-WF Cologne)

15:00 **Discussion and Others**

15:30 **End of meeting**

Preliminary program