

Workshop - Multilayer

Workshop on
Tape Development

Karlsruhe, Germany
17th March 2010



Seventh Framework Programme
NMP Nanosciences, Nanotechnologies, Materials and new Production Technologies
Large-scale integrating project
MULTILAYER - NMP-2007-214122

Workshop - Multilayer

➤ Topics

Recent development in tapes processes such as tape casting, calendaring: focus on dispersion methods, tapes formulation, drying and plasticity modelling. Advanced tapes with properties suitable for embossing, printing, lamination, debinding and sintering for application to Micro-Electro-Mechanical-Systems (MEMS)

➤ Content

- 6 oral presentations
- Contributions available on internet at <http://multilayer.4m-association.org/>

➤ Acknowledgement

- Prof. A. Roosen and Multilayer's partners (IKTS, IVF, UCAM, Keranor)
- KIT (wbk) for hosting



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➤ Agenda

13.30 – 13.50	Registration (Building 50.36 of KIT, Campus South, room 10.1/10.2)	
13.50 – 14.00	Introduction and Welcome from Organisers	<i>C. Munzinger/KIT S. Bredeau/CEA</i>
14.00 – 14.40	Lecture “The tape casting process and its specific features”	<i>A. Roosen/ University of Erlangen-Nuremberg</i>
14.40 – 15.20	Lecture “Dispersions and rheology in ceramic processing”	<i>J. Stiernstedt/IVF</i>
15.20 – 16.00	Lecture “Binders for ceramic tapes”	<i>E. Carlström/IVF</i>
16.00 – 16.20	Coffee break	
16.20 – 17.00	Lecture “Shape changes and cracking in drying films”	<i>W.J. Clegg/UCAM</i>
17.00 – 17.40	Lecture “UV-curable binders in tape casting”	<i>H.-J. Richter & A. Kucera/IKTS</i>
17.40 – 18.20	Lecture “Calendering of ceramic tapes”	<i>B. Thorstensen/Keranor W.J. Clegg/UCAM</i>
18.20 – 18.30	Conclusion	
18.30	End of the workshop	
19.30	Dinner (organized by KIT, shall be supported by each participant)	

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➤ Conclusion

- Next workshop to be held at 24M meeting
- Topic (proposal): Tape 3D structuring
 - ↳ Tooling
 - ↳ Tape structuring (laser, embossing, punching)
 - ↳ Inmould label technique
- Other suggestions or comments ?