

Interreg

Italia-Österreich

European Regional Development Fund



InCIMA

PP1- Salzburg University of Applied Sciences

Prof. Dr. Gianluca Tondi

InCIMA Kick-off meeting, 16th-17th March 2017, Trieste, Italy

Salzburg University of Applied Sciences

**Intelligente Caratterizzazione
di Materiali Intelligenti**



**Intelligente Charakterisierung
von Intelligenten Materialien**



Important facts

Study degree courses

Bachelor = 17

Master = 10

No Doctoral school

Student number = 2.766 (48% female; 52% male)

Employed = 302 Research&Teaching 55%; Services 30%; Organization 15%

External Lecturer= 846

Campus= 2 Urstein (75%) and Kuchl (25%)

Funded in 1996 by= Work chamber and Land Salzburg.



<https://www.youtube.com/watch?v=cgwviCDAIgM>

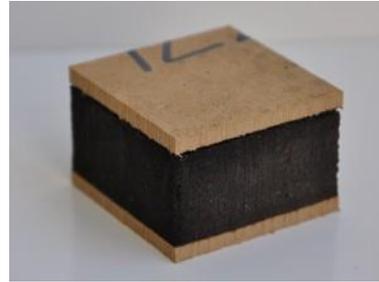
Campus Kuchl: The Wood department

- Around 500 students (3 Bac, 3 Master):
 - Forest product technology & Timber construction
 - Design and Product Management
 - Smart Building
- Research as support for the companies
- Team Austria was selected as World champion in „Green building“ – Solar Decathlon 2013.



Project and ideas

- Tannin & Lignin foams
- Tannin-based wood preservatives
- Natural adhesives
- Valorization of natural by-products
- Biosourced composite materials



Tannin and Lignin-furanic foams can be produced with different:



InCIa Project

Structures:

- With big cells
- With small cells
- With „round“ cells

Formulations:

- With formaldehyde
- With different blowing agents
- With different catalysts

Heating processes:

- At room temperature
- With conduction heat
- With microwaves and IR be

- **2 Master students** will be involved for 19,2 months 20/h week. (Oct 2017-Apr 2019)



- 1 will deal with the production of the foams for 2 purposes: Synthesis of foam for buildings and filters (WP4)

- 1 will deal with the functionalization and optimization of the material (WP5)



Thanks



Thanks for your attention!

