



Mirko Maraldi

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KEYWORDS

- biomass
- renewable energy systems
- bamboo
- modelling

EDUCATION

Ph.D., Energy Systems Engineering, University of Bologna
M.Sc., Mechanical Engineering, University of Bologna
B.Tech., Mechanical Engineering, University of Bologna

RESEARCH INTERESTS

Mechanical characterization of natural materials

Theoretical modelling and experimental testing of the mechanical properties of bamboo, straw bales and other natural materials for use in construction

Biomass energy systems

Measurement of BMP and heating value of biomass and agricultural byproducts. Determination of the potential of different types of biomass as sources of renewable energy

Theoretical modelling

Development and computational implementation of thermo-chemo-mechanical models

TEACHING

I currently teach the following courses in various Agricultural Science degrees:

- Physics
- Biomass and renewable energy systems