

# Sustainable Materials of Marine Origin: Experimental Investigation on Sound-Absorbing Properties and Possible Applications

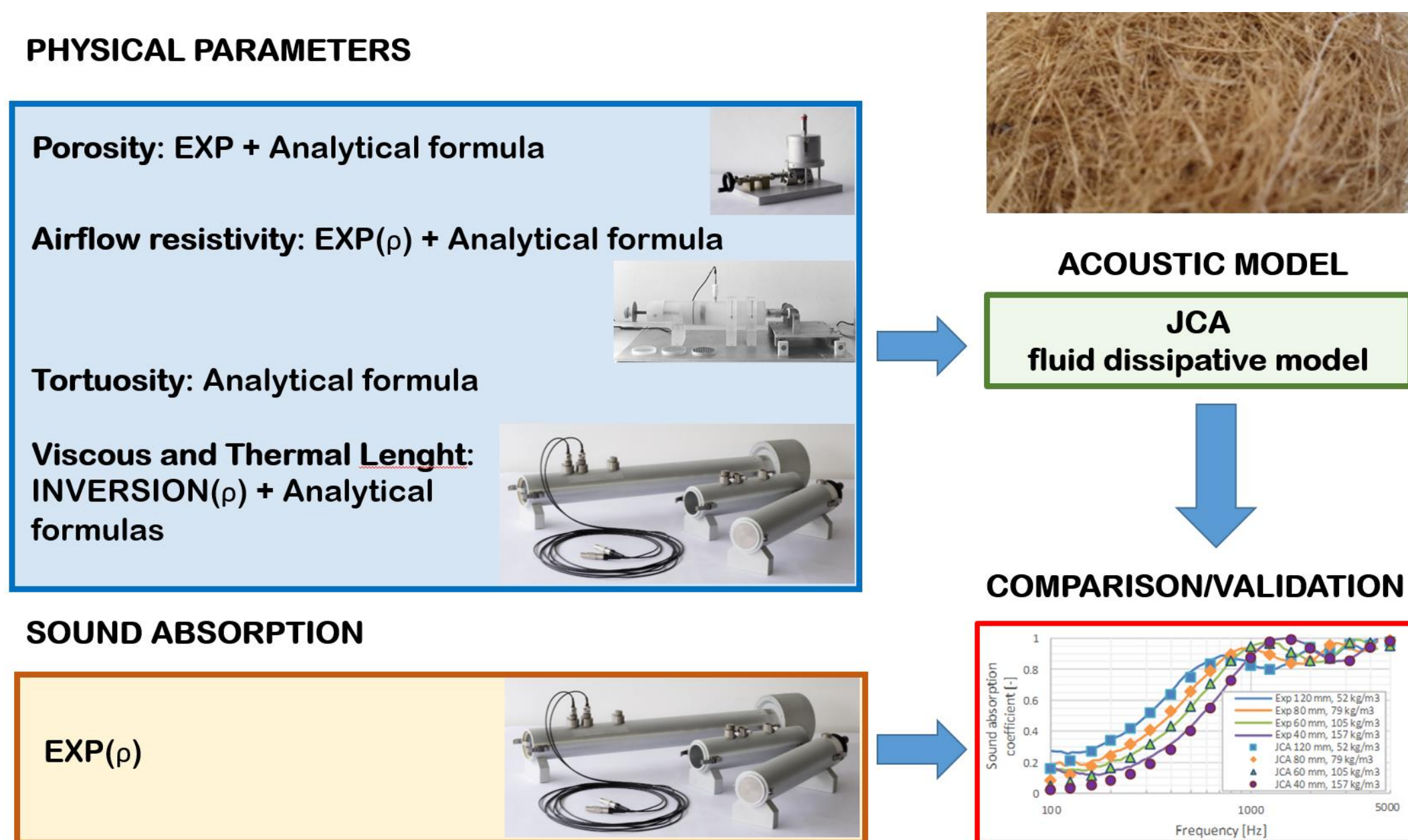
Francesco Pompoli, Cristina Marescotti  
Engineering Department, University of Ferrara, 44122 Italy

Large quantities of marine plants and algae reach the coasts, creating problems for tourism and fishing. The use of these large masses of plant materials represents an opportunity for the development of sustainable materials.

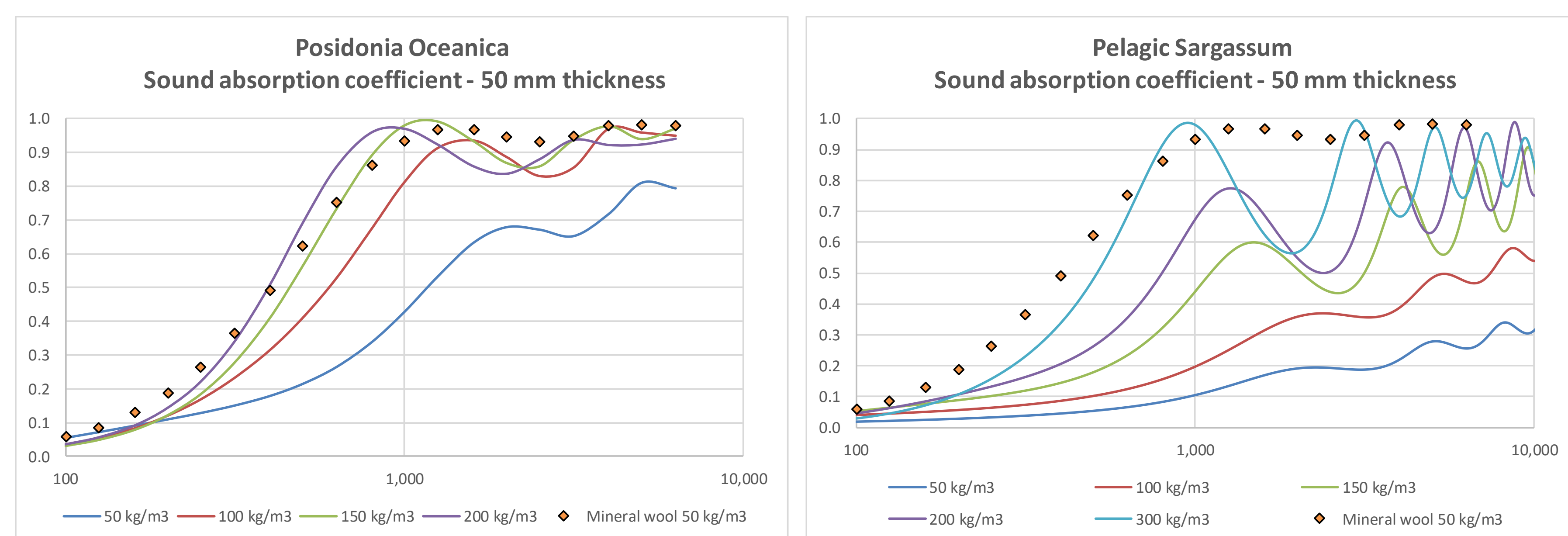
Two materials of marine origin have been characterized to define their potential as sound-absorbing materials.

Posidonia Oceanica		Pelagic Sargassum	
<b>Main areas:</b> Mediterranean coasts		<b>Main areas:</b> Gulf of Mexico, Caribbean, African Atlantic coast	

## Schematic Procedure of the Research:



## Results: Sound Absorption



## Results: Physical Parameters

