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PROF. DI TOMMASO Rocco Mario

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SCIENTIFIC CURRICULUM VITAE:

His scientific activity was initially focused on experimental techniques aimed to the characterizations of the thermodynamics and heat transfer of different systems. The investigations were carried on by means of laser sheets, generated by double pulse Nd:YAG lasers interfaced with two intensified CCD cameras and LDV systems. He is currently involved in applying the above mentioned techniques to the field of contaminant removal and internal fluid dynamics of large enclosures. For this purpose he designed and realized numerous test rooms with temperature control of walls and supply air, the biggest of them has an internal dimension of 6\*6\*3 m, and simulates a "Clean Room" for the amount of delivered air and the typology of ventilation termination adopted. This test room allows one to study the effect of the combination of wall and supply air temperature on the internal flow field and pollutant removal, as well as the effect of different ventilation strategies in order to obtain a minimal air flow requirement. Recently he's attention was focused on two new experimental techniques based on the Stereo PIV, which is able to measure three dimensional flow field, and the Phase Doppler Velocimetry technique, able to measure both velocity and dimension of particles diluted in a flow field.

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PROFESSOR'S OFFICE HOUR:

Tuesday, from 11:30 to 13:30, room 9, 5th floor.

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