

AVVISO DI SEMINARIO

Lunedì 20 ottobre 2014, ore 11:00 Istituto Motori - CNR, Aula Barsanti e Matteucci

Prof. Gaetano Continillo

Università del Sannio, Benevento

Droplet and spray combustion modelling

Droplet and spray combustion is fundamental to many practical applications. Physics and chemistry involved are among the most complex for multiphase reacting systems, and this is reflected in the complexity of modelling approaches introduced and employed since the early Fifties of last century.

The lecture will introduce the essential aspects of the phenomenon, then illustrate models of intermediate complexity, show some application to ideal configurations, discuss relevant results by comparing them to experimental evidence, and indicate areas of current and future development.



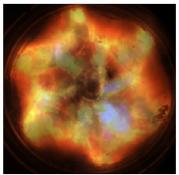
Gaetano CONTINILLO is Professor of Chemical Engineering at Università del Sannio, Benevento, Italy. Former Head of the Bachelor and of the Master Program in Energy Engineering from year 2000 throughout year 2012, Continillo has been teaching several courses in the Master of Automation Engineering, in the Master of Civil Engineering, in the Bachelor and in the Master in Energy Engineering. From 1985 to 1998 at Istituto Ricerche sulla Combustione CNR, he is also Associate Researcher at Istituto Motori, CNR of Naples.

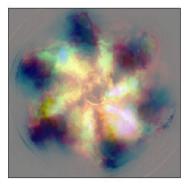
The research activities of G. Continillo span from recent studies on Renewable Energy Systems, such as Combined Heat and Power, to the development of methods and application of the nonlinear

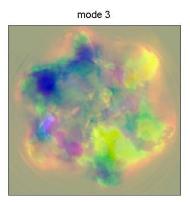
analysis and numerical simulation to the study of the dynamic behaviour of complex reactive systems. He has been President of the Board of Directors of ICDERS (International Conference on the Dynamics of Explosions and Reactive Systems), 2010-2013. Among other appointments, he is Member of the Editorial Board of Combustion Theory and Modelling.

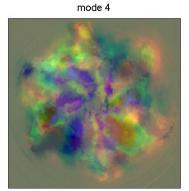


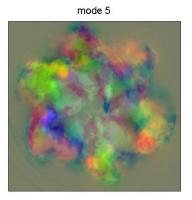


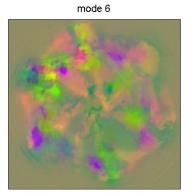












Ce ne sont pas des fleurs.

Leading six POD basis functions, from RGB luminosity images of a Direct Injection Diesel Engine combustion chamber.

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