

Prof Giovanni Benvenuto Honorary Session

This Conference will include sessions in honour of Prof Giovanni Benvenuto, who has been active in IMAM and has retired recently. Former colleagues and students that want to submit papers to these sessions should indicate in the first page of the abstracts and full papers **Prof Giovanni Benvenuto Honorary Session**, so that they can be processed accordingly.

Giovanni Benvenuto worked at Faculty of Engineering of Genova (Italy) from 1972 to 1984 as assistant professor and professor in charge. In 1984 he became full professor of thermal machines at the University of L'Aquila (Italy). In 1991 he joined again University of Genoa, Polytechnic School, where he taught Marine Propulsion Plants since retirement in 2016. Chairman of the Philosophy Doctorate in "Ship and yacht design" for some years, he was scientific coordinator of many research projects of relevant national interest financed by the Italian Ministry of University and Scientific Research. From 1995 to 2001 he was Chairman of the Bachelor and Master courses in Naval Architecture and Marine Engineering of the University of Genova. From 2004 to 2009 he was Director of the Department of Naval Architecture and Marine Technology. From 2010 to 2013 he was again Chairman of the Bachelor and Master courses in Naval Architecture and Marine Engineering.

Author of more than 160 publications, his research activity was mainly oriented on propulsion plants and thermal machines optimization. In particular he focussed on the following items:

- 1) dynamic simulation of ship propulsion plants,
- 2) performance optimization of propulsors for fast vessels,
- 3) mathematical modelization of internal combustion engines,
- 4) Waste Heat Recovery plants for marine propulsion and power generation systems,
- 5) environmental impact assessment of marine transport systems,
- 6) low emission engines,
- 7) use of LNG as fuel in ship propulsion systems.

Due to his background in mechanical engineering and thermal machines, he actively joined the Marine Engineering field giving a breath of fresh air. He had the ability to create and to grow up the Marine Engineering research group at Genoa University. His group rapidly reached high rank reputation at national as well as international levels. The group actively contributed to the propulsion control design by simulation for the latest Italian navy vessels.