

Prof. Ing. Giovanna BARIGOZZI

CURRICULUM VITAE

Giovanna Barigozzi graduated in Mechanical Engineering with honors at Genova University in 1992. In 1994 she got the Von Karman Institute Diploma Course with honors in the Turbomachinery field. In 1995 she got the PhD in Fluid Machinery at Genova University. In 1996 she got a 1-year long fellowship from Genova University to complete the PhD research activity while in the following year she obtained a post-doc position. She became researcher of Energetic Systems at the Faculty of Engineering of Bergamo University in 1998. In November 2002 she became Associate Professor of Energetic Systems at the Department of Industrial Engineering of Bergamo University. Since March 2017 she is Full Professor of Energetic Systems at the Department of Engineering and Applied Sciences of Bergamo University, where she teaches Fluid Machinery and Experimental techniques and performance test methods for power plants and fluid machinery. She is also in charge of the course of Measurement Techniques at the PhD in Engineering and Applied Sciences at Bergamo University. Since 2012 she is a member of the Board of Professors of fluid machines and systems for energy and the environment as a representative of Associate Professors.

Her research activity is focused on the following areas:

- Film cooling of gas turbine vanes and end walls;
- Flat plate film cooling;
- Combined cycle performance improvement through the application of peaking technologies;
- Solarized Hybrid Gas Turbines.
- Waste to energy Plant analysis;
- Analysis of hydrogen production steam reforming plants;
- Optimization of wet&dry condensing systems;
- Energy saving in Energy Intensive processes
- Experimental analysis of self-vented automotive brake discs.
- Development and application of measurement techniques as LDV, hot wire anemometry, cold wire thermometry, unsteady pressure probes, thermochromic liquid crystals (TLC), infrared thermometry.

Giovanna Barigozzi has been involved in the activities related to several research projects, both funded by the Italian University and Research Ministry (COFIN98, PRIN2003 and PRIN2007) and Italian industries (for example Ansaldo Energia, Alstom, BREMBO, ENEL, SIAD, Tenaris DALMINE, SAME Deutz-Fahr, A2A, Italcementi). She was local coordinator of the PRIN Project 2007 "*Trailing edge cooling concepts of high temperature gas turbine blades*" and of the PRIN2010/11 Project "*INSIDE: aerothermal Investigation of cooled Stage turbine: Design optimization and Experimental analysis*".

Giovanna Barigozzi plays continuously review activities for the ASME and the ETC, as well as for international journals such as International Journal of Hydrogen Energy, Experimental Thermal and Fluid Science, International Journal of Thermal Sciences and Proceedings of the Institution of Mechanical Engineers, Part A, Journal of Power and Energy, J. of Turbomachinery, Applied Energy, Applied Thermal Engineering, Energy, Journal of Heat and Fluid Flow, Journal of Heat and Mass Transfer.

Member of the K-14 - Heat Transfer Committee of ASME since 2011, Review Organizer of the European Conference of Turbomachinery and of ASME Turbo Expo and Session Chair in several

International Congresses (ISAIF, ETC, IGTI). Member of the Editorial Board of the International Journal of Turbomachinery Propulsion and Power (IJTPP) since 2016. In charge of the organization for the University of Bergamo, of a Workshop on Turbomachinery held in Bergamo, the 15th of July, 2016.

Giovanna Barigozzi has published 97 papers both in international Journals and in Proceedings of national and international Conferences. The paper entitled "Application of Unsteady CFD Methods to Trailing Edge Cutback Film Cooling" (*J. Turbomach.* 136 (2014) 121006-1:11), published together with Dr Silvia Ravelli, received the ASME IGTI Heat Transfer 2014 Best Paper Award.