

IVANO PETRACCI

CONTACTS

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ACTUAL POSITION

Researcher (SSD ING-IND/10) at Department of Industrial Engineering, University of Rome "Tor Vergata", since December 20, 2004.

In April 2017, he received the National Scientific Qualification (Abilitazione Scientifica Nazionale -ASN) as associate professor.

RESEARCH ACTIVITIES

The experimental activity is focused on the methods of enhancing convective heat transfer with active and passive techniques (extended and treated surfaces, lattice frame materials, fluid vibrations and compound solutions). The research is supported by thermal and fluid dynamics investigations (hot wire anemometry and flow visualization techniques such as Particle Image Velocimetry) and by CFD studies in thermo-fluid dynamics applications.

He is a referee of international scientific journals, such as "Applied and Thermal Eng." and "Int. J. of Thermal Sciences". He was member of the Local Scientific Committee of 12th International Conference on Computational Heat, Mass and Momentum Transfer (ICCHMT 2019).

He has participated in research projects supported by public funds: 2018-2019, Project Mission-Sustainability; 2005-2007 Project PRIN; 2002 graduate research assistantship on "Thermo-fluid dynamics of air jets".

TEACHING ACTIVITIES

He teaches "Thermodynamics and Heat Transfer" and "Energetics" for BE and MS degrees.

In the 2015-2016 academic year, he was Director of II level Master on "Thermo-fluid dynamics".

EDUCATION

- ✓ June 2009, visiting researcher at University of Minnesota, prof. R. J. Goldstein.
- ✓ June 30, 2005, Ph.D. in Energy-Environmental Engineering at the University of Rome "Tor Vergata", Italy. Thesis title: "Thermo-fluid dynamics of submerged jets of air. Hot anemometry measurements and shadowgraph visualizations of free, stationary and pulsed jet. Heat transfer optimization with smooth and finned cylinders"
- ✓ January 2002 - December 2002, Magister on Thermo-fluid dynamics. Thesis title: "Fluid dynamics of submerged jets of air: hot anemometry measurements, shadowgraph visualizations and numerical simulations".
- ✓ July 06, 2001, Degree on Mechanical Engineering (100/100 cum laude) at the University of Rome "Tor Vergata", Italy. Thesis title: "Thermo-fluid dynamics experimental research and numerical simulations on the cooling of electrically heated cylinders, by submerged jets"