

PERSONAL INFORMATION: **Giuseppe Mazzone**

WORK EXPERIENCE

- From Jan 2013 - to Jan 2016 **Senior Mechanical engineer**
 ENEA Fusion Department – via E. Fermi 00044 - Frascati - Italy

 - Structural design of tokamak components (e.g. Vacuum Vessel, Divertor, Blanket, Plasma Diagnostics etc.);

- From Oct 2007 to Dec 2012 **Analyst for Seismic and Global Dynamic Analyses**
 ITER Organization - Route de Vinon sur Verdon – 13115 St Paul Lez Durance – France

 - Seismic analyses and design of tokamak components and tokamak building;
 - Dynamic analyses of the major tokamak components under transient electromagnetic loads (plasma disruptions, plasma Vertical Displacement Events, magnet fast discharge, etc.);

- From Jul 1994 to Sep 2007 **Structural Engineer**
 ENEA Fusion Department – via E. Fermi 00044 Frascati - Italy

 - Structural analysis (static and dynamic) of shielding blanket for ITER under impulses load due to plasma disruption.
 - Thermo-Structural analysis of the ITER divertor under thermal and Electromagnetic loads.
 - Structural analysis of the JET-EP ICH (Ion Cyclotron Heating) antenna.

- From Dec 1989 to Jun 1994 **Structural Engineer, for Blanket Project**
 ENEA Fusion Department – via E. Fermi 00044 Frascati - Italy

 - Structural analysis and application of structures design criteria to tokamak components (blanket, first wall and divertor).

- From Nov 1986 to Nov 1989 **Vacuum Technical - Laboratory of Vacuum-Technology-Surface**
 ENEA Fusion Department – via E. Fermi 00044 Frascati - Italy

 - Design of components operating under vacuum conditions for FTU machine (e.g. mechanisms, plasma limiter etc.).
 - Assembly Inspector of some plants of FTU: Vacuum, gas entry, limiter movements with test of components, operating procedure and computer control.

EDUCATION AND TRAINING

- 2005 **PhD - Mechanical Engineering**
 Politecnico di Bari, Bari –Italy.

 - Fatigue under Multi-axial Low Cycle Fatigue. Design methods for machines tokamak components built in alloys of nickel-chromium (INCONEL625).

- 1986 **University Degree in Mechanical Engineering**
 Università degli studi di Bari, Bari – Italy

 - Structural/mechanical design, plant design and equipment under pressure etc.

ADDITIONAL INFORMATION

Professional Interests	Structural Design of Tokamak components.
Projects	Lead engineer for EUROfusion – DEMO divertor - Project Area “WP-DIV - 1 Cassette Design and Integration” 2014-2016;
Memberships	Member of the Technical Advisory Panel (TAP) of F4E 2016-2018.
Publications	Publications (about 5) in the field of fusion in the last 5 years. About 20 publications throughout my professional life.
Other Relevant Information	