**CURRICULUM VITAE of EUGENIO GUGLIELMINO**

**CURRENT EMPLOYMENT**

• since 2001

Full Professor at the University of Messina. Scientific field: ING/IND-14 “Mechanical design and machine construction”

**PROFESSIONAL EXPERIENCE**

• since 1998

Associate Professor at the University of Messina. Scientific field: ING/IND-14 “Mechanical design and machine construction”

• since 1987 to 1998

Assistant Professor at the University of Catania. Disciplinary group: I08A “Machine design”.

**INSTITUTIONAL ACTIVITY**

• since October 2021

Head of Department of Engineering of the University of Messina.

• since 21 January 2020

Responsible of the Coordinating Committee of research and service center CERISI (“Research and Innovation Centre of Excellence for Structure and Infrastructure of large dimensions”).

• since May 2014 to 2018

Vice Rector for Student Services for the University of Messina

• since 2016

Coordinator of the degree course in Mechanical Engineering at the Department of Engineering of University of Messina

• since 2011 to 2016

Coordinator of the degree course in Material Engineering at the Engineering Faculty of University of Messina

• since 2001 to 2006

Coordinator of the degree course in Naval Engineering at the Engineering Faculty of University of Messina

• since 2009

Component of the Technical Committee of ATENA (Italian Association of Naval Techniques)

• since December 2013

Member of Scientific Board of the PhD School in "Chemistry and Engineering of Materials and Constructions" of the University of Messina

**SCIENTIFIC RESPONSIBLE OF RESEARCH PROJECTS**

He has been Scientific Responsible on behalf of University of Messina of the following Research Projects:

•2012 - 2015

Research Project funded by the PON (National Operative Programme) 2007-2013

Title: "CERISI" ("Research and Innovation Centre of Excellence for Structure and Infrastructure of large dimensions").

Total cost: 22.100.000 euro

•2012 - 2015

Research Project funded by the PON (National Operative Programme) 2007-2013

Title: New methods for the environmental impact and energy consumption reduction during production and use of pleasure craft.

Cost for the University of Messina: 2.080.000 euro

•2011 - 2015

Research Project funded by the PON (National Operative Programme) 2007-2013

Title: “STEM-STELO” (“Systems and technologies for the realization of machinery in order to develop exceptional Transportation and project logistic”).

Total cost: 11.250.074 euro.

Cost for the University of Messina: 626.100 euro.

• Luglio 2009- Luglio 2012

National Research Project Industria 2015

Title: “LIVE” (“Eco frendly bus optimized for sustainable urban mobility”)

Total cost: 23.445.110 euro

Cost for the University of Messina: 191.000 euro.

• 2009

Research Project “MIMOSA” (“Modular and safe micro car with green propulsion and high versatility”)

Cost for the University of Messina: 100.000 euro.

• 2009

Research Project funded by the PON (National Operative Programme) 2000/2006

Title: “Transport Innovation Center of Competence - C.C.I.T.”, proposed by the Center of Competence MIT (Southern Transport Innovation) for the realization of a "Welding Certification Test Laboratory" at the Faculty of Engineering of the University of Messina

Total cost: 1.008.000 euro.

• 2005-2007

Research Project MIUR (Law 488/92).

Title: “SINAVE” (Innovative intermodal transport system based on the use of fast ships).

Total cost: 22.930.700 euro.

Cost for the University of Messina: 255.000 euro.

• 2003-2004

Research Project PRIN (Announcement 2003 –24 months)

Title: “Correlation between morphological and mechanical properties of sandwich panels made of light alloy for applications in the naval field”

Total cost: 140.000 euro

Cost for the University of Messina: 62.000 euro.

• 2000-2002

Research Project PRIN (Announcement 2000 –24 months)

Cost for the University of Messina: 32.020 euro

**TEACHING**

• Academic year 2020-2021: “Machine Design” (SSD: ING/IND-14; CFU 6)

• Academic year 2020-2021: “Biomechanics” (SSD: ING/IND-14; CFU 6)

• Academic year 2020-2021: “Reliability and safety of mechanical constructions” (SSD: ING/IND-14; CFU 6)

**ADVISOR OF PHD THESES**

Advisor of 10 PhD theses.

**RESPONSIBLE OF LABORATORY**

Responsible of the CERISI laboratories of the University of Messina:

**GUEST EDITOR**

• 8 November 2012

Guest Editor of Special Issue on "Fatigue Analysis and Design in Transportation Engineering", published on the Issue of May 2015 of the Journal of Mechanical Engineering Science.

**AWARDS**

• 2009

The paper “Fatigue assessment of welded joints using critical distance and other methods” has been recognised amongst the most cited articles published in Elsevier's Engineering Failure Analysis between 2005 and 2008.

• 13 September 2013

The paper “Collapse modes in aluminium honeycomb sandwich panels under bending and impact loading” has been recognised amongst the 25 most cited articles published in Elsevier's International Journal of Impact Engineering in the year 2012.

• 28 May 2014

The paper “Low-velocity impact strength of sandwich materials” has been recognised amongst the 10 most cited articles published in Elsevier's Journal of Sandwich Structures and Materials in the years 2010 and 2011.

• 22 December 2016

The paper “Comparison of aluminium sandwiches for lightweight ship structures: Honeycomb vs. foam” has been recognised amongst the 5 most cited articles published in Elsevier's Marine Structures in the years 2014, 2015 and 2016.

**PATENTS**

Development of the patent titled “SCAFO PLANANTE AD INSUFFLAZIONE DEL GAS DEL MOTORE IN ACQUA (SIGMA HULL)”, demand number 102018000006486. Owners: Università degli Studi di Messina; Filippo Cucinotta; Eugenio Guglielmino; Felice Sfravara.

**RESEARCH TOPICS:**

• INNOVATIVE METHODS FOR FATIGUE PREDICTION

• FATIGUE ANALYSIS OF WELDED JOINTS

• MECHANICS OF COMPOSITE AND INNOVATIVE MATERIALS FOR LIGHT-WEIGHT STRUCTURES

• FE ANALYSIS OF STRUCTURAL DETAILS

**PUBLICATIONS**

Author of more than 200 scientific publications in international and national journals and conferences

**EVALUATION OF RESEARCH QUALITY BY ANVUR (ITALIAN NATIONAL AGENCY FOR THE EVALUATION OF UNIVERSITIES AND RESEARCH INSTITUTES)**

RESULTS OF EVALUATION RESEARCH QUALITY VQR 2004 – 2010: 4 EXCELLENT PRODUCTS

RESULTS OF EVALUATION RESEARCH QUALITY VQR 2011 – 2014: 4 EXCELLENT PRODUCTS

**SCIENTIFIC PARAMETERS**

CITATION COUNT (FROM SCOPUS, 07/11/2021): 1975; 1452 (excluded self citations of all authors)

h-INDEX (FROM SCOPUS, 07/11/2021): 29; 23 (excluded self citations of all authors)

**SCIENTIFIC COLLABORATIONS:**

Trinity College Dublin, Ireland; Southern Illinois University, United States; University TUHH di Amburgo, Germany; Hunan University – China; Dalian University of Technology – China; Iran University of Science and Technology, Hitit Universit , Turkey; Qatar University, Doha – Qatar; Russian Academy of Sciences, Perm, Russian Federation; Politehnica University of Timisoara, Romania; University of Trieste, Italy; Politecnico of Turin, Italy; University of Modena and Reggio Emilia, Italy; University of Calabria, Italy; University of Catania, Italy; University of Palermo, Italy; CNR-ITAE Messina; Sicilian District of maritime transport NAVTEC; Shipyards (Fincantieri, Intermarine, Liberty); IVECO S.p.A. Turin; Milazzo Refinery S.p.A. Messina, Italy; Enichem Priolo S.p.A., Italy.