

Curriculum Vitae

Personal information

First name / Surname

Addresses

Telephones

Fax

E-mail

Nationality

Date of birth

Employment / Occupational field

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

Dates

Occupation or position held

Main activities and responsibilities

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Dates

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Main activities and responsibilities

Cesare Mario Rizzo

Scuola Politecnica – Università di Genova

DITEN – Polo Navale

Via Montallegro, 1, 16145 Genova (Italy)

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Private contacts:

Via O. de Gaspari 1/5, 16146

Genova (Italy)

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Italian

24th October 1973

Naval architecture and marine engineering in general, ship and offshore structures including pleasure crafts, shipping rules and regulations, condition assessment and maintenance of ships and marine structures with focus on fatigue and fracture of welded structures, structural analysis, experimental testing and sea trials

From January 2004 / from August 2014 / from September 2021 - now

Researcher / Associate Professor / Full Professor

Research activities related mainly to ship structures, shipbuilding and marine technology, documented by several publications as well as research reports in the framework of national and international projects funded by: Liguria region, Italian Government, European Union, private bodies, shipyards, engineering companies, etc. Focus is on analytical, numerical and experimental analysis of ship structures, condition assessment of ageing structures and maintenance, ship management, development of rules and regulations. Large efforts are devoted to the management of experimental testing and sea trials at the Marine Structures Testing Lab of the University of Genova.

Teaching activities in the framework of BSc, MSc and PhD courses in 'Naval Architecture and Marine Engineering' and in 'Yacht Design' of the University of Genova, supervision of BSc, MSc and PhD candidates (>200 educated students under direct supervision). Appointed professor for the shipbuilding courses at the Italian Naval Academy, Livorno, since academic year 2010/11. Erasmus contact point for the Universities of Hamburg (DE), Cranfield, Southampton (UK), Zagreb (HR), Les Illes Balears (ES). Contact point for academic cooperation with Flinders University, Adelaide (Australia) and promoter of Double Degree agreement with Cranfield University and academic cooperation with Osaka University (Japan). Department delegated person for International activities (2015-2019). Member of the Naval Architecture and Marine Engineering PhD steering committee since 2004. In addition, professional courses for graduated people organized by companies and other universities. Visiting professor of Cranfield (till 2019) and Strathclyde (from 2020) universities.

Università di Genova – Scuola Politecnica

Via Montallegro, 1, I-16145 Genova (Italy)

Research & education (university)

July - August 2017 (45 days)

Visiting researcher (Japan Society for the Promotion of Science fellowship)

Research project dealing with collapse and fatigue analysis of ship structures with emphasis on containership reliability and fatigue of drilling pipes, also aiming to strengthen the academic cooperation and to establish exchange opportunities for young researchers, PhD and MSc students.

Osaka University, Graduate School of Engineering, 2-1 Yamadaoka, Suita 565-0871, Japan

Host: Prof. Masahiko Fujikubo (with visits to several Japanese scientific institutions)

Research (university)

2010-2014 (every Winter semester)

Visiting researcher (Alexander Von Humboldt Foundation fellowship)

Research project dealing with the application of advanced approaches to assess fatigue strength of ship structural details. The research exchange implies a few months' period spent in the host's institute every year (winter semester) in the period 2010-2014 (18 months in total).

Hamburg University of Technology (TUHH) - Institute for Ship Structural Design and analysis

Schwarzenbergstrasse 95 c, 21073 Hamburg (Germany)

Host: Prof. Wolfgang Fricke

Research (university)

March - May 2004

Visiting researcher (EU Marie Curie Actions fellowship)

Research activities about reliability of ship and off-shore structures with emphasis on fatigue issues.

Name and address of employer	Norwegian University of Science and Technology (NTNU) - Dept. of Marine Technology, Otto Nielsens v 10, NO-7491 Trondheim (Norway)
Type of business or sector	Supervisor: Prof. Torgeir Moan Research (university)
Dates	January - February 2002
Occupation or position held	Traineeship
Main activities and responsibilities	Finite element methods and software in ship structural analysis
Name and address of employer	Cetena S.p.A. (Italian Ship Research Centre), Via Ippolito D'Aste, 5, 16121, Genova, Italy
Type of business or sector	Research
Dates	February 2001 - December 2003
Occupation or position held	Consultant
Main activities and responsibilities	Consultant to engineering firms working for ship owners and classification societies, appointed for inspections and certification of ships and pleasure crafts according to EU Directive 94/25/CE.
Name and address of employer	Self-employed
Type of business or sector	Naval Architect and Marine Engineer
Dates	May 2000 - February 2001
Occupation or position held	Field Surveyor
Main activities and responsibilities	Supervision of new buildings, surveys of ships in service and in dry-dock, surveys of pleasure crafts, fishing vessels, etc., testing of machineries and components intended for onboard installation, etc.
Name and address of employer	Registro Italiano Navale Group (RINA S.p.A.), Via Corsica, 12, 16121 Genova (Italy) – Venice Office
Type of business or sector	Classification society
Dates	October 1999 - May 2000
Occupation or position held	Surveyor
Main activities and responsibilities	Technical support to field surveyors, failure analyses, assessment of ships joining RINA class, verification and filing of survey reports, in the "Fleet in service" department of RINA
Name and address of employer	Registro Italiano Navale (RINA), Via Corsica, 12, 16121 Genova (Italy) - Head Office
Type of business or sector	Classification Society
Dates	September 1998 - October 1999
Occupation or position held	Surveyor
Main activities and responsibilities	Follow up of Port State Control on RINA classed ships and relations with Flag Administrations (delegation agreements according to national and international conventions and regulations, change of flag procedures, etc.).
Name and address of employer	Registro Italiano Navale (RINA), Via Corsica, 12, 16121 Genova (Italy) - Head Office
Type of business or sector	Classification society
Education and training	
Dates	February 2001 - December 2003
Title of qualification awarded	Doctor of Philosophy in Naval Architecture and Marine Engineering
Principal subjects/Occupational skills covered	Dissertation: "A critical comparison of the scantling rules for shipbuilding issued by classification societies". Analysis of developments in Classification Societies rules, collapse and fatigue testing of ship structures; participation in national and international research programmes and support of teaching activities in shipbuilding courses. Main courses undertaken during Ph.D: Continuum mechanics, Probability and stochastic process, Ship structural design (advanced), Structural dynamics, F.E.M. structural analysis (advanced), Fracture mechanics, Fatigue strength of welded structures, Structural risk and reliability analysis
Name and type of organisation providing organisation and training	University of Genova
Level in national or international classification	Tutor: Prof. Rodolfo Tedeschi Ph.D.
Dates	September 1993 - July 1998
Title of qualification awarded	Master of Science in Naval Architecture and Marine Engineering
Principal subjects/Occupational skills covered	Final project: "Design of high speed water-jet ro-ro / passenger vessel in route between Italy and Greece" completed with the optimization study of technical / economical / financial data.
Name and type of organisation providing organisation and training	Tutor: Prof. Dario Boote University of Genova (Italy)
Level in national or international classification	M.Sc.

Seminars and courses

Dates
Title of qualification awarded
Principal subjects/Occupational skills covered
Name and type of organisation providing organisation and training

June 2002
Attestation
Nauticus Hull course (ships structures modelling and scantling, 40 hours)

Det Norske Veritas (DNV)

Dates
Title of qualification awarded
Principal subjects/Occupational skills covered
Name and type of organisation providing organisation and training
Level in national or international classification

February - July 1999
Welding Engineer
"Welding Engineering" special course for M.Sc. engineers (186 hours)

Istituto Italiano della Saldatura (Italian Welding Institute)

Specialization course certified by the Italian Ministry of Industry.

Dates
Title of qualification awarded
Principal subjects/Occupational skills covered
Name and type of organisation providing organisation and training

December 1998 - May 1999
Surveyor (Class Societies)
Training courses for field surveyors of Registro Italiano Navale (RINA) (40 + 40 hours) (Scheme of skills of International Association of Classification Societies - IACS)
Registro Italiano Navale (RINA)

Dates
Title of qualification awarded
Principal subjects/Occupational skills covered
Name and type of organisation providing organisation and training

May 1998
Attestation
Seminar on Full Scale Measurement of the Performances of Ships and Platforms (40 hours)

WEGEMT 23rd school (European Association of the Marine Technology Universities)

Dates
Title of qualification awarded
Principal subjects/Occupational skills covered

In the academic years 1996/97 and 1997/1998:
Attestation
1996/97: eleven conferences held by professional shipping managers on the following subjects: pricing and quotations, planning and control of production, types of business organization, quality control and quality assurance, safety at work laws, certification and striking of balances.
1997/98: seven conferences by technical and financial managers of shipping companies about international relations during the ship service, safety conventions by IMO, shipping economy, services and tasks of classification societies, services and tasks of Flag State Administrations.
A.TE.NA. (Italian Association of Naval Architects and Marine Engineers)

Name and type of organisation providing organisation and training

Personal skills and competences

Mother tongue
Other languages
Self-assessment
European level ()*

English
German

Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
A1	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A2	Basic user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

Organisational skills and competences

Tutoring of young researchers, students' education, research group coordination and management.

Surveys and trials organization and management,
Management of experimental testing in laboratory and sea trials (Marine Structures Testing Lab of the University of Genova), management of national/international research programmes.

→ *Certificates and attestations of all the above-mentioned employment and education activities, of seminars and courses, as well as of personal skills and competences, including endorsement letters (e.g. those required for fellowship applications), are available upon request. Participation to conferences and congresses (e.g. ASME conferences, national and international workshops, invited and keynote lectures) are cited within the attached publication list and attestations are available as well.*

Technical skills and affiliations

Registered as Professional Engineer
 Registered as "Technical personnel" for shipbuilding, Ministry of Transports / Coast Guard office in Genova with N. 401, dtd. 26 May 1999
 Italian Member ISO/TC 8/SC 8 WG 3, Ships and marine technology – Ship structures, ended in 2011
 Member of the International Ship and off-shore Structures Congress, ISSC 2006 and ISSC 2009 (Technical Committee: V.6 - Condition Assessment of aged ships)
 Member of the International Ship and off-shore Structures Congress, ISSC 2012 (Technical Committee: III.1 - Ultimate Strength)
 Member of the International Ship and off-shore Structures Congress, ISSC 2015 and ISSC 2018 (Technical Committee: III.2 – Fatigue and Fracture)
 Member of the International Ship and off-shore Structures Congress, ISSC 2021 and ISSC 2025 (Technical Committee: V.2 Experimental Methods)
 Member of the Italian Technical Committee of the Lloyd's Register of Shipping
 Member of the Technical Committee of the Registro Italiano Navale (2016-2019)
 Member of the External Advisory Group for the harmonization of Common Structural Rules (CSR) of the International Association of Classification Societies (IACS), in 2011 - 2012
 Selected as independent expert evaluator and reviewer by the EU Research Executive Agency
 Referee for the Research Council of Norway (RCN)
 Registered as expert evaluator of the Italian Ministry of Education (Albo esperti ricerca industriale) and of the Ministry of Economic Development (Albo esperti innovazione tecnologica)
 Member of the Gruppo di lavoro permanente in materia di sicurezza della navigazione (Permanent Group on navigation safety) of the Italian Coast Guard
 Selected as Auditor for Goal Based ship construction Standards (GBS) by the International Maritime Organization (IMO) according to the Maritime Safety Committee Resolution MSC.287(87) in six audits, being Team Leader in four of them.
 Participant to EU COST Action TU1402: Quantifying the Value of Structural Health Monitoring
 Member of the general board (Consiglio Generale) of the Italian Welding Institute (IIS) and scientific advisor of the joint laboratory for welded structures established in 2016 in partnership by IIS and University of Genova.

Computer skills and competences

Further to basic computer skills of everyday use, knowledge of:
 Various CAD – 3D design programs,
 Technical computing environment (e.g. Matlab, Labview),
 Finite elements and structural software (e.g. Mentat/Marc, Patran/Nastran, Ansys, ADINA, etc.),
 Structural calculation software of various Class Societies (e.g. RINA, GL, ABS, DNV, LR, BV)

Other skills and competences
Driving licence

Sailing instructor
 Car driving licence and boat master licence for motor and sail yachts up to 24m in length

Annexes

List of publications, participation in editorial boards/review team of scientific journals or conferences

Ai sensi della L. 675/96 si autorizza il trattamento dei dati personali.
 According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016,
 I hereby express my consent to process and use my data provided in this CV

Cesare Mario Rizzo
