

Personal Data

Nationality: Italian

Date of birth: November 30th, 1968

Brief Description

More than of thirteen years of experience in corrosion engineering, consultancy and inspections with strong technical background and good practical experience in applying anticorrosion systems in oil & gas industry, on & off-shore and structures, ships & marine. Detailed knowledge and expertise in corrosion monitoring, laboratory testing and protective coatings.

Former with many courses behind on corrosion issues, anticorrosion and inspection.

Advanced skills in technical report writing and corrosion/coating failure. Certified NACE Coating Inspector and registered (chartered) professional Master Degree Engineer in Italy.

Strong experience in coating inspection on massive and relevant structures (ships, pipeline, bridges, offshore platform, petrochemical plants, water supply system, cofferdams, etc.).

Spokesman lecturer on anti-corrosion issues with various anti-corrosion paint schools, both in universities and companies.

Developer, organizer and technical manager of anti-corrosion testing labs.

Working Experience

Consulting

- Consultant, courses lecturer and inspector at Fincantieri Spa – Shipyards, warship dept.. The main activities are related to detection, find causes and their remedies of coating failures and corrosion failures on stainless steels, Copper Nickels and other alloys; sacrificial anodes and impressed current cathodic protection, hot dip galvanizing, documental organization and streamlining, training courses. Member of Fincantieri Oxidation Working Group (05/2015 – up to date)
- Consultant at VALE – STET S.p.a. natural gas, electricity and water distribution company. The activity is related to CUI (Corrosion Under Insulation) failure of vessels in a trigeneration plant (combined production of electricity, heat and cooling) combined with a district heating network (05/2015 – 03/2016)
- Consultant for Orizzonte Sistemi Navali (Italian Prime Contractor and Whole Warship Design Authority). The main consultant activities are related to inspection, documentation review and then consultancy for improvements on anti-corrosion systems (coatings and materials design) for FREMM (European multipurpose frigate - Italian Navy). (12/2014 – 05/2015)
- Consultant for coating issues for the construction of steel gates for the new Panama Canal under the request of final client ACP (Autoridad del Canal de Panamá / CH2M Hill / NDE) at Panama Canal Field (Panama) (02/2015 – 02/2015)
- Consultant, key anti-corrosion expert, specifier at Mostprojekt a.d. (Beograd – Serbia) for Railway Infrastructure of Montenegro. The main consultant activities are related to inspection and drawing up of paint specification for reconstruction/rehabilitation of railway steel bridges Vërmicë – Bar. (07/2014 – 12/2014)
- Consultant, courses lecturer and tester at Fincantieri Spa - Shipyards. The main consultant activities are related to coating failure, including restoration of underwater application coatings, potable water tanks issues and laboratory activities (Trieste - Italy) (10/2010 – 11/2014)
- Consulting Engineer for corrosion testing on pipeline/valve coating for OMR (Officina Meccanica Rivoltana) (Arzago d'Adda - Bergamo-Italy). (02/2010 – 12/2014)
- Consultant for CB Trafilati Spa for the testing of stays covered bridges wire and cable anticorrosion coating (Tezze sul Brenta – Vicenza - Italy) (09/2004 – 03/2005 and 09/2011 – 08/2012)
- Technical and Master Consultant Associate Owner at Mated S.r.l. (Trento - Italy). Mated consists of a group of materials engineers specialized in anti-corrosion systems and certified NACE International. Mated deals about consulting (writing quality documents, paint coating specification, tender, materials testing, coating and corrosion failure) on field inspections for painting, design (for testing and surface cleaning machines, cathodic protection systems and painting) and laboratory testing of corrosion and coatings (testing and research projects). (02/2010 – 10/2012)
- Responsible for Certification's Lab tests on anticorrosion paint products and application for SNAMRETEGAS (Italian natural gas infrastructure company) for Mated S.r.l. (Italy) (09/2011 – 10/2012)
- Laboratory tests Responsible for anticorrosion paint products for ENI S.p.a. certification (Italian multinational oil and gas company) by Mated S.r.l. (Italy) (09/2011 – 10/2012)
- Supplier's painting procedures Verifier on Petrobras Engenharia- Leabast project for Inspection & Consulting S.r.l. (Trieste – Italy) (01/2012 – 10/2012)
- Consultant for Danieli SpA (Buttrio – UD - Italy) for the determination of the causes of early corrosion on the roof of the USCO plant (Bahrain) and coating failure on Steel Making Plant Dnepropetrovsk (Ukraine) (07/2011 – 04/2012)
- Consultant for Brescia-Padova S.p.a. Highway Company for new bridge stay cable anticorrosion testing (Italy) (01/2009 – 01/2011)

- Consultant for Gruppo Dondi (RO) & Petrollavori (TS) for the design of lining refurbishment of the steel 54 Km DN 2000 mm potable water pipeline of “New under pressure aqueduct of Serino” (Italy) (02/2009 – 04/2009)
- Consultant for Navalmare S.r.l. for identifying the causes of coating failure on off-shore platforms risers on IVANA B, C and K InAgip d.o.o. (Croatia) (07/2011 – 08/2011)
- Consultant for the preliminary design calculation of the corrosion protection solutions for the Great dock on Port of Piombino. TSA duplex coatings / Coatings associated with cathodic protection - Cidonio Spa (Italia) (07/2011)
- Consultant for FAID Ltd. "Preliminary report on anti-corrosion solutions for docks the port of Salerno (Italy). TSA duplex coatings / Coatings associated with cathodic protection "FAID Ltd. (Portogruaro – Venezia – Italy) (09/2009)
- Failure analysis on stainless steel tank and piping corrosion used for the storage of polyvinylalcohol for the production of paper – Garda paper mills – (Riva del Garda – Trento – Italy) (8/2009 – 2/2010)
- Consulting Engineer for high performance ball valves corrosion protection for Dafram S.p.a. (Urbisaglia – Macerata – Italy) (10/2008)
- Consulting Engineer for the pipeline water supply system of the remote heating plant of Anterselva – Waermewerk Antholz Gen. M.b.H (Anterselva – Bolzano – Italy) (05/2005 – 11/2006)
- Consulting engineer for road section Self-Governing Province of Bolzano for the determination of corrosion's causes on inner panels of the road tunnel Km. 31 Brunico's tangential and its restoring methodologies (Brunico – BZ – Italy) (01/2005 – 02/2005)
- Collaboration with FAID Anticorrosion S.r.l. for technical advice on thermal spray coating on steel structures in marine-industrial environment (Portogruaro – Venezia - Italy) (during year 2002)
- Various consulting and inspection jobs

Inspection

- NACE Coating Inspector, pump off shore structures on behalf of Saipem, - Jangkrik Complex Project – Peroni Pompe S.p.a. (Gaeta – Latina - Italy) (04/2015)
- Coating Inspection/Supervision on the construction of steel gates for the new Panama Canal under the request of final client ACP (Autoridad del Canal de Panamá / CH2M Hill / NDE) at Cimolai S.p.a. (Pordenone – Italy) (05/2012 – 10/2014)
- Inspector, consultant and paint system specifier for A22 Brennero Highway S.p.a. anticorrosion coatings for bridges and viaducts (Trento - Italy) (10/2010 – 10/2012)
- Inspector and Consultant for anticorrosion coatings and cathodic protection - Larsen & Toubro Limited (Mumbai - INDIA) (04/2009 – 10/2012)
- State of decay / corrosion of the NATO Air base hangars (dated 1950's) SOINCI S.r.l. (Aviano – Pordenone – Italy) (03/2011 – 07/2011)
- Coating Inspector at the offshore platform PCWC ENI-AGIP for Donelli S.p.a. (Ravenna – Italy) (06/2010 – 09/2010)
- ACAI (Association between Italian Steel Constructor) consultant for drawing up of steel structure coating specification (Italy) (10/2010 – 11/2010)
- Advisor/Inspector for “Oil & Gas” pipeline coatings quality control, third party, Tenaris-Dalmine at Socotherm S.p.a. (Adria – Rovigo - Italy) (Various during year 2009);
- NACE Level 2 Coating Inspector, pipeline coatings on/off shore structures, third party, - Mboundi ENI Congo Project - Socotherm S.p.a. (Adria – Rovigo - Italy) (09/2009)
- NACE Level 2 Coating Inspector quality control, pipeline coatings on/off shore structures at Socotherm S.p.a. – AWA Palouku Project (Adria – Rovigo - Italy) (09/2006 – 10/2006)
- NACE Coating Inspector at offshore platform ENI Garibaldi C (Ravenna) - VER.SA.BIN S.r.l. (Ravenna – Italy) (10/2005 – 11/2005);
- NACE Coating Inspector on polyurethanic coatings applications for AGIP products qualification (Stoppani coating manufacturer) - University of Trento (Trento – Italy) (09/2005);
- Coating Inspector on metallizing (TSA) and coating application process on sheet piling (cofferdams) for the restoration of West Industrial Channel of Porto Marghera for Consorzio Venezia Nuova (Venezia – Italia) (06/2004 – 03/2005)
- Inspector on sacrificial anodes production – Impregilo S.p.a. (Venezia – Italy) (02/2004)
- Coating inspector on Mincio river Bridge – Verona-Brescia Highways (Verona – Italy) (08/2003 – 10/2003)
- Various consulting and inspection jobs

Testing

- Technical Manager, designer, developer and realizer of many laboratory and on-field tests at Mated Laboratory. Author and writer of technical part research project for new type of accelerated ageing for coatings and for new type of cathodic disbonding tests. Projects was co-financed by the Autonomous Province of Trento (Trento – Italy) (02/2010 – 10/2012).
- Design, development, building and management of experimental workshops for the study of active and passive corrosion protection (high thickness organic coatings, cathodic protection by sacrificial bi-anodes) for sheet piling of Porto Marghera – Consorzio Venezia Nuova (Ministry of Infrastructure and Transport Concessionary) (Venezia – Italy) (05/2002 – 11/2006)
- Technical Manager of the Industrial Corrosion Control Laboratory in the Business Innovation Center of Pergine Valsugana – Trento (Trento – Italy) (10/2005 – 11/2006)
- Testing product manager for AGIP qualification of organic coating according to the PIP.COR.FUN. 20550 specification – DMTI (Materials Engineering and Industrial Technologies) – University of Trento (09/2003 – 11/2006)
- Cooperation with Industrial Anticorrosion Laboratory – Dep. Of Material Engineering – University of Trento (Italy) (05/2002 – 11/2006)
- Cooperation with Amel Instruments (MI) on the production of data-logger for the *in situ* control and the measurement of electrochemical data (Milano – Italy) (05/2002 – 11/2006)
- Cooperation with Road and Bridges Research Institute – Warsaw – Poland: “ *In situ* Electrochemical Impedance Spectroscopy measurements on organic coatings combined with cathodic protection for seawater application” (05/ 2002 – 11/2006)
- Consulting engineer for the roofing residual life evaluation of the Bolzano Hospital – Self- Governing Province of Bolzano (Italy) (07/2006)

- Various lab testing and corrosion and coating failure jobs

Other relevant experience

- Design Engineer and Chief site Engineer (it. *Direttore dei Lavori*) for the restoration works of the Marleno freshwater underground reservoir of the potable water supply system of Meran– ASM S.p.a. (Merano - Bolzano – Italy) (During years 2009 – 2010)
- Technical manager for Italy at Jotun Italia SpA, Protective Coatings, technical and inspection service for anticorrosion coatings - Lecturer on anticorrosion methods for Engineering Societies and Customers (Muggia – Trieste – Italy) (08/2007 – 07/2008)
- Employee at Scanduzzi Hydrogen Advanced Technologies, mechanical/materials technical manager, at the Business Innovation Center of Pergine Valsugana (Trento – Italy) (10/2006 – 08/2007)
- Design Engineer and Chief site Engineer (it. *Direttore dei Lavori*) for the restoration of the S. Zeno freshwater underground reservoir of the potable water supply system of the Meran city ASM S.p.a. (Merano - Bolzano – Italy) (06/2004 – 05/2006);

Certification & Affiliations

- Professional Engineering Qualification – Listed on the National Chamber of Qualified Engineers sec. A n° 2678 of the Engineer Association of the Provincia Autonoma di Trento – Civil and Environmental – Industrial and Information Eng. (Italy)
- LEV 2 NACE Coating Inspector # 10943 (National Association of Corrosion Engineers)
- Sea survival and rescue training certificate, CFO (Offshore Forming Centre) for offshore platforms and boats projects (Mezzano – Ravenna – Italia)

Skills

- University background and training in corrosion of engineering materials
- Competent skills in planning, coordinating, consultancies, technical reports writing and coating inspection
- Expert knowledge and use of Windows based programs, Mac based programs, Office, Autocad and Internet

Education

- Master's Degree in Materials Engineering, University of Trento, Class of 2003; Thesis title: “ Active and passive anticorrosion protection design for the sheet piling of Porto Marghera” (Venice Lagoon)
- Technical high school diploma in Electro technics, Class of 1989

Courses and seminar attended

- Course for cathodic protection of buried metallic structures for technician, APCE (Electrolytic Corrosion Protection Association)
- Advanced courses on stainless steel – AIM (Italian Metallurgy Association)
- Attendance of the workshop organized by NACE Italia on the “Corrosion and Corrosion Protection of Metallic Materials”
- Course on Project Risk Management (8 hours)- PMI – Project Management Institute, Master's Degree Ministerial further training at Engineer's Chamber headquarter of the Provincia Autonoma di Trento
- Course of visual communication and graphic design (15 hours), Master's Degree Ministerial further training at Engineer's Chamber headquarter of the Provincia Autonoma di Trento

Language skills

- Italian - mother tongue
- English – conversation, writing, reading: very good

Additional information

Lessons, Lectures and Conferences

- I. Maconi, “Technical continuing education courses for Warship Headquarter - Corrosion issues – Courses for designers and buyers” lecturer and organizer, more full days study at Fincantieri S.p.a., Warship Dept. Headquarter, (Genova - Italy) (20th, 21st, 22nd/09/2016)
- I. Maconi, S. Orlando, P. Gibelli, A. Castagnola, M. Lerici “Anticorrosion systems production process improvements at Fincantieri Integrated shipyards” lecturer, slideshow reporting at OCCAR headquarter- Organisation Conjointe de Coopération en matière d'Armement - (Muggiano - Italy) (28th/06/2016)
- I. Maconi, “Technical continuing education courses for Integrated shipyards staff - Corrosion issues on FREMM – Base courses for management and technical staff” lecturer and organizer, more full days study at Fincantieri S.p.a. Shipyards (Muggiano and Riva Trigoso - Italy) (19th, 20th, 25th, 26th, 27st, 31nd/05/2016)

- I. Maconi, S. Giaconi "Technical analysis on corrosion issues on FREMM" lecturer, slideshow reporting at NAVARM - Naval Armaments Headquarter - (ROME - Italy) (18th/02/2016)
- I. Maconi, "Technical continuing education courses for Integrated shipyards staff - Corrosion issues on FREMM – Advanced course for field inspectors" lecturer and organizer, full day study at Fincantieri S.p.a. Shipyards (Riva Trigoso - Italy) (23rd/09/2015)
- I. Maconi, "Technical continuing education courses for Integrated shipyards staff - Corrosion issues on FREMM – Base courses for field supervisors" lecturer and organizer, more full days study at Fincantieri S.p.a. Shipyards (Muggiano and Riva Trigoso - Italy) (14th, 15th, 16th, 17th, 21st, 22nd, 24th/07/2015 and 12th/04/2016)
- I. Maconi, "Introduction Course to the products and to coating system for corrosion protection" lecturer and organizer, day study at L3 Calzoni S.r.l. Submarine, valves, visual landings aids and special naval application (Calderara di Reno – BO - Italy) (23rd/10/2014)
- I. Maconi, "Introduction Course to the products and to coating system for corrosion protection" lecturer and organizer, day study at Fincantieri S.p.a. Shipyards (Monfalcone – Trieste - Italy) (13rd- 14th/07/2011)
- I. Maconi, "Laboratory Tests", Lecturer at day study organized by AIM (Italian Association of Metallurgy), "Coatings and corrosion protection of pipes for oil and gas networks" (Dalmine – Bergamo - Italy) (19th/4/2011)
- I. Maconi, "Line Pipe Coating", more full days course on pipeline coatings at Tenaris-Dalmine University (Dalmine - Bergamo – Italy) (03/2011 – 07/2011),
- I. Maconi, "Surface protection and life cycle structures", lecturer at the advanced course "Life Cycle Design of Bridges", Politecnico di Milano, Dep. Of Structural Engineering Milano Polytechnic, (Milano – Italy) (19th/05/2009)
- I. Maconi, Seminar: "Corrosion and Paint School" at Snamprogetti (Milano – Italy) (23rd-24th/06/2008)
- I. Maconi, "Problematics in a freshwater underground reservoir of the potable water supply system improvement works", oral presentation at "New developments of the APCE activity: the guideline for the gas pipe network and the protection methods for the water integrated cycle" organized by APCE (Mestre – Venezia – Italy) (29th/03/2006)
- Lecturer in Engineering Faculty of University of Trento on anticorrosion methods, on field problems, problems on off-shore platform, cathodic protection, steel surface pre-treatment for coatings application (during year 2005)
- Tutor on various University thesis in anticorrosion, coating and cathodic protection – Faculty of Engineering – University of Trento (during years from 2004 to 2006)
- I. Maconi, Seminars: "Corrosion elements and metals protection" at the Board Committee of Industrial Experts of the Provincia Autonoma di Trento (Trento – Italy) (11/2006)
- I. Maconi, P.L. Bonora, J. Bordzilowski, A. Krolikowska P. Lupotto, "Design and monitoring of the active and passive protections for Porto Marghera's the sheet piling", oral presentation at "National days on corrosion and protection" organized by AIM (Italian Association of Metallurgy), APCE, NACE Italy (Senigallia – Ancona – Italy) (29th- 1th/07/ 2005)
- Seminars at Letters and Philosophy Faculty (University of Trento) on "Principles of Materials Deterioration" (05/2004)
- Collaboration contract in research with the Department of Materials Engineering of University of Trento (01/2004 – 06/2004)

Articles

- J. Bordzilowski a, A. Królikowska a, P. L. Bonora b, I. Maconi b, A. Sollich, "Underwater EIS Measurements" , Road and Bridges Research Institute, Jagiellońska 80, 03-301 Warsaw, Poland - Department of Material Engineering, University of Trento, Trento, Italy - Atlas Sollich Electronic Systems Ltd, Lirowa 20, 80-298 Gdańsk , Poland

Interests

- Travel, watersports, ski and history