

# Raffaella Geometrante

## Curriculum Vitae et Studiorum – March 2019

### Personal information

Name: Raffaella  
Surname: Geometrante  
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Email: raffaella.geometrante@kyma-undulators.eu  
Nationality: Italian  
Date of birth: October 18<sup>th</sup>, 1971  
Place of birth: Trieste, Italy

### Education

2014 SDA Bocconi – School of Management, Milano, Italy  
Executive Program: Project Management

1997-2000 Università degli Studi di Trieste, Italy  
Dottorato di Ricerca (Ph.D.) in Materials Science and Engineering  
Advisors: Prof. S. Meriani

1997 Pennsylvania State University, USA  
Visiting researcher, Materials Research Laboratory (MRL)  
Advisors: Prof. D. M. Roy and Dr. M. R. Silsbee

1990-1995 Università degli Studi di Trieste, Italy  
Laurea degree in Mechanical Engineering (110/110)  
Advisors: Prof. S. Tommasi and Prof. S. Meriani

1985-1990 Liceo Scientifico G. Galilei, Trieste, Italy (60/60)

### Work and Consulting Experiences

2018 Dec - Kyma Tehnologija d.o.o., Sežana, Slovenia

- Direktor

2016 Set - Kyma S.r.l., Italy

- General Manager

2012 - Kyma S.r.l., Italy

2016 Aug

- As Project Manager of Kyma S.r.l., directs of all running projects. She is responsible for design, development and manufacturing of insertion devices for particle accelerators, with the aim of constantly improving organization's performances.
- As Risk Manager, she coordinates all activities regarding risk assessment of Quality, Environment, Safety and Health, Information Security, Administrative Responsibility and Social Accountability (D.lgs. 231/01).
- She bolsters sales and marketing activities, by networking and liaising with clients at every level.
- She supervises both technical and commercial offers to be submitted to



- Call for tenders, etc.
- ISO 9001 Audit Team Leader.

**2008-2011                    Elettra - Sincrotrone Trieste S.C.p.A., Trieste, Italy**

- Deputy for Installation, FERMI@Elettra. Responsible for short/long term installation scheduling, she supervises all the installation phases.
- She planes quality control inspections and coordinated specific test programs to ensure the compliance of incoming goods to be installed in FERMI@Elettra with standards and specifications.
- Expert in materials selection, failure analysis, mechanical properties testing, macro and microstructure characterization using EDX, SEM, XRD, FTIR, she works in strict collaboration with the technical office to minimize failures and/or materials degradation processes of the mechanical components to be installed.
- She collaborates to the design and realization of a quadrupole with no residual magnetic field, with innovative application of specific metals.

**2002-2007                    Università degli Studi di Trieste, Italy  
Facoltà di Architettura**

- Adjunct professor, Faculty of Architecture, University of Trieste, Materials Science and Technology.

**2005-2007                    Consorzio per l'AREA di ricerca scientifica e tecnologica di Trieste, Italy**

- Lecturer in the following specialized trainings:
  - "Risorse naturali per la costruzione sostenibile".
  - "Principi e Tecniche dell'edilizia sostenibile".
  - "Materiali e risorse per la costruzione sostenibile: disponibilità, sfruttamento e costi ambientali".

**2007                            Università degli Studi di Trieste, Italy  
Dipartimento di Ingegneria Civile e Ambientale**

- As consulting Engineer, she realized a protocol for plasters restoration.

**2003-2006                    Fondazione Cassa di Risparmio di Trieste  
Università degli Studi di Trieste, Italy**

- As consulting Engineer, she studies and characterizes the building materials of complex "Ex Ospedale Militare", Trieste, Italy

**2005                            Università degli Studi di Trieste, Italy  
Dipartimento di Progettazione Architettonica e Urbana**

- As consulting Engineer, she studies and characterizes all the paints used for the realization of an original project of Carlo Scarpa – Canova's House, Plaster cast Gallery, Possagno, Italy.

**2004-2005                    Fondazione Cassa di Risparmio di Trieste  
Università degli Studi di Trieste, Italy**

- As consulting Engineer, she studies and characterizes the building materials of complex "Ex Ospedale Militare", Trieste, Italy

**2003                            Università degli Studi di Trieste, Italy  
Dipartimento di Progettazione Architettonica e Urbana**

- Coordinator of the specialized training "Sustainable project and building".

**2002-2003                    Università degli Studi di Udine, Italy  
Dipartimento di Storia e Tutela dei Beni Culturali**

- Together with Prof. Antonio Zappalà, she investigates new techniques for the stabilization of cellulosic materials, as part of a project regarding book preservation.

**1999-2007                    SER.CO.TEC. S.r.l., Trieste, Italy**



- As Scientific and Technological consultant, she is involved in projects regarding non-destructive testing, monitoring and diagnosis of materials and structure.

## **Educational Activities**

### ***US Particle Accelerator School Courses Winter session – January 25-29, 2016***

#### **Instructor**

#### ***Managing Science in Research Labs, Part I: Strategic Management***

The US Particle Accelerator School is a national graduate program that provides graduate-level educational programs in the science of particle beams and their associated accelerator technologies that are not otherwise available to the scientific and engineering communities.

They conduct graduate and undergraduate level courses at U.S. universities, holding two such programs per year, one in June and one in January. These courses, running 2 weeks in duration, take place at leading universities across the United States.

By successfully completing the 2-week course requirements, which include forty-five contact hours as well as daily problems and examinations, students earn 3 semester hours of university credit.

Qualified teachers are chosen from national laboratories, universities and private industry. The result is a large pool of prospective instructors with a rich variety of forefront knowledge and methods.

To carry out its educational mission, the USPAS develops programs of courses suitable for universities. Major universities, in partnership with the national laboratories, underwrite the offerings and provide the necessary quality control.

#### **Letter of Commendation, by the US Particle Accelerator School Director, William A. Barletta, March 2016. Citation:**

I would like to extend my sincere thanks for helping me teach the "Managing Science in Research Labs" classes at our recent winter 2016 session hosted by the University of Texas. I realize that in addition to time spent at the session, the preparation of your lecture materials took a considerable effort which was made over and above your regular job duties. Thank you.

Enclosed are our course evaluations. As you can see, the student enjoyed our class. It is your dedication that makes the USPAS such a valuable program for the entire accelerator community.

#### **Graduate co-advising – Laurea**

**2010-2011                      Università degli Studi di Trieste  
Facoltà di Ingegneria**

- F. Romanin, "Analysis of materials structural integrity in RF systems at FERMI@elettra", (Laurea Trieste 2011)

#### **Graduate co-advising - Laurea**

**2002-2007                      Università degli Studi di Trieste**

**Subject areas of dissertation:**

- Restoration of stony materials;
- Recycling of plastic materials for the sustainable architecture;
- First applications of concrete in public housing: materials and methods;



- Fibre-reinforced materials;
- Light-weight concrete;
- Non-destructive testing on metallic materials;
- Building renovations;

### **Invitations to conferences**

- Invited speaker: "Experience of a light source's spin-off company", EUCALL Workshop: Innovation Potential of Advanced Laser Light Sources", 14-15 November 2017, Sitges, Spain
- Invited speaker: "Review of the industry session at the Advanced Low Emittance Rings Technology (ALERT) workshop", 4<sup>th</sup> Annual Meeting of EuCARD-2, 28-20 March 2017, Glasgow, Scotland (UK).
- R. Geometrante, "Technology Transfer Success from a National Laboratory to Industry", 6th International Particle Accelerator Conference - Session for Industry, May 3-8 2015, Richmond, VA, USA.
- Session Chair of SPIE's 2015 Advances in X-ray Free-Electron Lasers Instrumentation Conference, "Magnet and Light Source Applications", A.B. Temnykh, A. Lyndaker (Cornell University), M. Kokole, J. Počkar, R. Geometrante, "Construction of CHESS Compact Undulator magnets at Kyma", SPIE's 2015 Advances in X-ray Free-Electron Lasers Instrumentation Conference, April 13-16 2015, Prague, Czech Republic.

### **Technically- Related Education**

MAIN TOPICS: Accelerator Physics, Vacuum Technology, Project Management, ISO 9001 Quality Management System (QMS), metallic materials, materials for electronic and electro-technical applications, concrete technology, concrete mix-design, ready mix concrete, pre cast concrete, European norms and concrete quality control, industrial pavements, restoration of concrete works, advanced ceramic materials, materials micro-structural characterization.

CERN Accelerator School, "Introduction to Accelerator Physics"  
Varna, Bulgaria, September-October, 2010

Vacuum Technology – Advanced level  
Elettra Sincrotrone Trieste, Italy, 2010

Project Management  
AREA Science Park, Italy, July 2010

ISO9001:2008 QMS Lead Auditor  
AICQ, Mestre (VE), Italy, March 2010

ISO9001:2008 QMS Internal Auditor  
AICQ, Mestre (VE), Italy, October 2009

ISO9000 and the Quality Management System (QMS)  
AICQ, Mestre (VE), Italy, September -October 2009

III Scuola Paolo Giordano Orsini: "Giornate di studio sulla caratterizzazione microstrutturale dei materiali per l'ingegneria"  
Dip. di Ingegneria dei Materiali, Università di Trento, Italy, February 15-18 2000





IV Scuola AIMAT, Associazione Italiana d'Ingegneria dei Materiali  
"Materiali per l'ingegneria - Materiali ceramici avanzati"  
Castione della Presolana, Bratto, Bergamo, Italy, September 13-17, 1999

Corso avanzato: "Restauro delle opere in c.a. e c.a.p."  
ENCO, Spresiano, Treviso, Italy, February 1999

Corso avanzato: "Pavimentazioni industriali in calcestruzzo"  
ENCO, Spresiano, Treviso, Italy, February 1999

Corso avanzato: "Introduzione alla certificazione della qualità"  
ENCO, Spresiano, Treviso, Italy, July 1998

Corso avanzato: "Mix-design del calcestruzzo per preconfezionatori prefabbricatori"  
ENCO, Spresiano, Treviso, Italy, June-July 1998

Corso avanzato: "Tecnologia del calcestruzzo: materie prime e produzione"  
ENCO, Spresiano, Treviso, Italy, June 1998

III Scuola AIMAT, Associazione Italiana d'Ingegneria dei Materiali  
"Materiali per l'ingegneria - Materiali metallici, per l'elettronica e l'elettrotecnica"  
Portonovo, Ancona, Italy, May 3-8, 1998

In compliance with the GDPR no.679/16 and the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document".

Trieste, 28/03/2019

