

Curriculum vitae

Alessandro Fabris

Birthplace: Basiliano (Udine), Italy
Date of birth: February 07, 1961
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Education and Training

Master Degree in Physics, University of Trieste.

Mark: 110/110 cum laude

Thesis: "Un modello di cavita' per R.F.Q".

Professional experience

Activities performed over the years amount to more than 25 years of professional experience in accelerator physics and technology and in particular in the design, construction and commissioning of RF systems for particle accelerators. The experience ranges from low-level control electronics to high power RF systems, in the frequency range from 50 MHz to 3 GHz. Experience in project management and in the coordination of human resources.

Sept. 1988-present

Sincrotrone Trieste, S.S.14 km 163,5 in Area Science Park, 34149 Trieste
Present position: Coordinator of the Accelerators Group

December 1986 to March 1987 and August 1988

Fellowship - Area di Ricerca Scientifica e Tecnologica di Trieste for synchrotron light research.

April 1987 to July 1988

Military Service as officer in the Italian Air Force.

September 1986 to November 1986

Work experience at ZELTRON- Istituto Zanussi per la Ricerca S.p.A.

Positions covered at Elettra Sincrotrone Trieste S. C.p.A.

- From 2008 to present
Coordinator of the Accelerators Group
- From 2015 to present
General Coordinator of Elettra in-kind activities for the European Spallation Source

- From 2008 to 2016
Project leader of the S-band linac Project Area of the FERMI Project
- From 1998 to 2008
Head of the Radio Frequency Operative Unit
- From 1994 to 1997
Head of the Machine Radio Frequency Operative Unit
- From 1988 to 1993
Researcher in the Radiofrequency - Linac Group

Scientific Activities and Results At Elettra Sincrotrone Trieste.

1988-1993	design, construction and set into operation of the Radiofrequency (RF) System of Elettra, and in particular of the high power RF system.
From 1993	participation in all the commissioning and operation phases of Elettra, in particular for what concerns the theoretical and experimental aspects related to RF system, longitudinal dynamics, measure and control of beam instabilities.
In 1986	participation to the feasibility studies of the accelerator of the “Energy Amplifier” project, in particular for the high power RF systems of the accelerator both for the cyclotron and the linear accelerator options.
1996 – 1999	deputy head of construction activities for the RF system components (cavities and low level electronics) supplied by Sincrotrone Trieste to the ANKA light source, Karlsruhe, Germany
1998-2001	deputy head of construction activities for the RF system components (cavities and low level electronics) supplied by Sincrotrone Trieste to the SLS light source, Villigen, Switzerland.
2005-2007	head of the project for for the supply contract of spare parts for ANKA.
2005-2007	head of the project for the supply contract of spare parts for ANKA for the supply contract of spare parts for SLS.
2005-2007	head of the project for the supply contract for the construction of the Low Level RF (LLRF) electronics system for the booster of the Diamond Light Source (UK)
2005- 2007	head of the Elettra RF Upgrade Project. Scope of the project was the increase of the available RF power for Elettra, realised adopting for the first time in light source an IOT (inductive output tube) as the main RF amplification stage
2005 – 2007	head of the RF system workpackage of the Elettra booster project for the construction of the new full energy injector for the storage ring.
2008-2016	project leader of the S-band linac Project Area of the FERMI Project
2008 - present	Coordinator of the Accelerators Group of Elettra and Member of the Coordination Committee of the Laboratory
2013 - present	coordinator of the activities for the Elettra in-kind contribution to the European Spallation Source (ESS) accelerator. From 2014 represents Elettra in the Coordination Committee between CNR, Elettra and INFN for ESS. From 2015 represents Elettra in the ESS Accelerator Collaboration Board and in the ESS Technical Board.

Publications: more than 100 paper presented in international conferences and/or in technical and scientific international journals.

External Collaboration and Consulting activities

1989-1995	Collaborates with the Physics Department of the University of Trieste for laboratory training in Electronics, Electromagnetic Waves and Physics of Electronic Devices.
1989-1994	Associated to INFN for the RFQ project for the design, construction and test of a variable energy Radiofrequency Quadrupole (RFQ) accelerator proof of principle
2005-2006	Consultant to Danfysik A/S (Denmark) for the booster RF System of the Australian Light Source in Melbourne.
2014	Lecturer q729° International Nathiagali Summer College on Physics and Contemporary Needs, Islamabad (Pakistan)
2014	Chair of the 8 th CW and High Average Power RF Workshop held in Trieste (Italy) in May 2014.
2015-2016	Associate Guest Editor for the special edition of IEEE-Transactions on Nuclear Science for the 50 th anniversary of the Particle Accelerator Conference.
2016	Co-Chair of International Organizing Committee of the the 9 th CW and High Average Power RF Workshop held in Grenoble (France) in June 2016.
2014-2018	Member of the Department of Energy Review Committee of the LCLS-II Project (USA)
2018	Member of the Department of Energy Review Committee of the LCLS-II-HE Project (USA)
2018	Co-Chair of International Organizing Committee of the the 10 th CW and High Average Power RF Workshop held in Hsincu (Taiwan) in June 2018.

Education and Training

1986	Degree in Physics, University of Trieste. Mark: 110/110 cum laude Thesis: "Un modello di cavita' per R.F.Q".
1980	Secondary school diploma, Liceo scientifico G. Marinelli, UD
1990	"CERN Accelerator School - Basic Course in General Accelerator Physics", Julich (D)
1991	CERN Accelerator School - Course on RF Engineering for Particle Accelerators", Oxford (GB) 1991
2002	"CERN Accelerator School - Course on Superconductivity and Cryogenics for Accelerators and Detectors"
2010	"Basic Project Management", Area Science Park, Trieste (I)
2011	"Advanced Project Management: economic and financial project management", Area Science Park, Trieste (I)

Languages

Mother Tongue: Italian

Other Languages

	Understanding		Speaking		Writing
	Listening	Reading	Spoken Interaction	Spoken Production	
English	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C2	C1
French	B2	B2	B1	B1	A2
German	A1	A1	A1	A1	A1

Trieste, October 2018