Curriculum vitae

Alessandro Fabris

Birthplace:	Basiliano (Udine), Italy
Date of birth:	February 07, 1961
Gender:	Male
Nationality:	Italian

Education

November 1980 - July 1986

Master Degree in Physics, University of Trieste.

Mark: summa cum laude

Thesis: “Un modello di cavità per R.F.Q” (A model of a cavity for a R.F.Q).

September 1976 - July 1980

Secondary school diploma, Liceo scientifico G. Marinelli, UD.

Professional experience

Activities performed over the years amount to more than 30 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. Large experience in project management and in the coordination of human resources.

Sept 1, 1988-present
Elettra - Sincrotrone Trieste S.C.p.A., S.S.14 km 163,5 in Area Science Park, 34149 Trieste

Present position(s): Executive Officer, Elettra 2.0 Project
Coordinator of the Accelerators Group
General Coordinator of Elettra in-kind activities for the European Spallation Source

August 1 to August 31,1988
Fellowship at Area di Ricerca Scientifica e Tecnologica di Trieste for research on synchrotron light research.

April 2, 1987 to July 21, 1988
Military Service as officer in the Italian Air Force

December 1, 1986 to March 31, 1987
Fellowship at Area di Ricerca Scientifica e Tecnologica di Trieste for research on synchrotron light research.

September 1 1986 to November 30, 1986
Work experience at ZELTRON- Istituto Zanussi per la Ricerca S.p.A.

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

- From March 1, 2022 to present

  Executive Officer, Elettra 2.0 Project
- From July 25, 2015 to present
  General Coordinator of Elettra in-kind activities for the European Spallation Source
- From April 1, 2008 to present
  Coordinator of the Accelerators Group

- From July 6, 2020 to present
  Elettra representative in the EuPRAXIA Collaboration Board
- From October 23, 2008 to December 31. 2016
  Project leader of the S-band linac Project Area of the FERMI Project
- From January 1,1 994 to March 31,2008
  Head of the Radio Frequency Operative Unit
- From September 1, 1988 to December 31, 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.
From1993	Participation in all the commissioning and operation phases of Elettra, in particular for what concerns the theoretical and experimental aspects related to RF systems, longitudinal dynamics, measure and control of beam instabilities.
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, FZK, 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 Swiss Light Source (SLS), PSI, 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 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 a 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 Technical Board and in the ESS Accelerator Collaboration Board.
2020-present	Represents Elettra in the EuPRAXIA Collaboration Board.
2021-present	Chair of the Transverse Deflecting Cavities system panel
2022-present	Executive Officer, Elettra 2.0 Project

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 at the 29° International Nathiagali Summer College on Physics and Contemporary Needs, Islamabad (Pakistan)
2014	Chair of the 8th CW and High Average Power RF Workshop, Trieste (Italy), May 2014.
2015-2016	Associate Guest Editor for the special edition of IEEE-Transactions on Nuclear Science for the 50th anniversary of the Particle Accelerator Conference.
2016	Co-Chair of International Organizing Committee of the 9th CW and High Average Power RF Workshop, Grenoble (France), June 2016.
2018	Co-Chair of International Organizing Committee of the 10th CW and High Average Power RF Workshop, Hsinchu (Taiwan), June 2018.
2020	Co-Chair of International Organizing Committee of the 11th CW and High Average Power RF Workshop planned at LBNL (USA).
2020-2022	Member of the Organizing Committee of the 13th International Particle Accelerator Conference, Bangkok (Thailand) in June 2022.
2022	Co-Chair of International Organizing Committee of the 12th CW and High Average Power RF Workshop, to be held in Geneva (CH) in September 2022.
From 2014	Member of the Department of Energy Review Committee of the LCLS-II Project (USA).
From 2018	Member of the Department of Energy Review Committee of the LCLS-II-HE Project (USA).
From 2020	Elected member of the board of the European Physical Society – Accelerator Group
From 2021	Member of the Organizing Committee and of the Scientific Program Committee, co0-chai of the Local Organizing Committee of the 14th International Particle Accelerator Conference to be held in Venice (Italy) in May 2023
From 2021	Member of the Accelerator and Target Advisory Committee (ATAC) of the Spallation Neutron Source (SNS) - ORNL
Other	Reviewer for different scientific journals, as NIM-A, IEEE-TNS.

Publications:

More than 120 paper presented in international conferences and/or in technical and scientific international journals. List available upon request.

Education and Training (detailed)

1986	Degree in Physics, University of Trieste.
	Mark: summa cum laude

Thesis: “Un modello di cavità per R.F.Q”.

1980 Secondary school diploma, Liceo scientifico G. Marinelli, UD.

Other Courses or Training (selected)

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).

2018 “Microsoft Office Project 2016 – Misurare l’avanzamento del Progetto” S.E.D. (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

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Alessandro Fabris