



Dr. Fabrizio GAGLIARDI's profile:

Current position and address:

Europe, Middle East, Africa and Latin America, Director Scientific and Technical Computing, Microsoft Research, One Microsoft Way Redmond, WA USA

Geneva Office:

Avenue des Morgines 12  
1213 Petit-Lancy (Geneva)  
Switzerland

Phone: +41 78 844 6476  
Assistant: +41 78 844 6552 (Luisa Küppers)

Fabrizio Gagliardi graduated in 1974 at the University of Pisa with a Doctoral thesis on distributed computing applied to particle physics experiments. In the same year he joined CERN where he worked for many years designing real-time data acquisition systems for several CERN experiments.

During this time he had the privilege to work with Nobel Prize winners Carlo Rubbia, Georges Charpak, Samuel Ting and Jack Steinberger.

After a period in the US at the Stanford Linear Accelerator centre, where he contributed to the design of the control system for the being built, at that time, linear collider particle accelerator, he came back to CERN in the early 80' and pioneered AI and knowledge based systems in his role as head of the CERN Expert Systems group.

He then took responsibility for a series of joint projects with industry, mainly with Digital Equipment Corporation, where he pioneered computing farms which predated and anticipated what is today Grid computing.

In the early 90's he became responsible for the data management services of the CERN central computer centre. In this position he conceived and directed a plan to fully automate the storage operations of the centre and deploy a sophisticated Hierarchical Storage Management system. This system, still in operation today, allowed remote data recording from the experiments directly onto secondary and tertiary storage at the CERN computer centre.

In the mid 90' he promoted the move towards parallel computing and led a major EU funded project, GPMIMD2, which designed one of the most advanced supercomputers of that time. The system interconnect of that system (Elan/Elite) is still today one of the most performing systems in the market and used in several of the TOP500 supercomputers.

This supercomputer system was used for the data collection and on-line monitoring of one of the most demanding experiments at CERN (NA48) allowing for the first time complex analysis programs, normally reserved for off-line use, to run in real-time.

At the end of the 90' his interests moved towards Grid computing and he started early collaboration with Ian Foster and Carl Kesselman in the US, which led to projects like EU-DataGrid and EGEE, of which he was Principal Investigator and Director from 2000 till 2005.

In 2004-2005 while still Director of EGEE ([www.eu-egee.org](http://www.eu-egee.org)) he contributed to the incubation and launch of more than 10 other Grid EU projects all inspired and supported by the EU EGEE flagship project which obtained a total funding of more than 70 millions € from the EU.

He also contributed as expert in several EU committees and task forces to the design and shaping of the present EU FP7 programme.

In November 2005, after the last EGEE conference in his home town of Pisa, Fabrizio Gagliardi joined Microsoft Corporation in Redmond, USA, to take responsibility for the company Technical Computing Initiative in Europe, Middle East, Africa and Latin America.

Fabrizio Gagliardi has authored and co-authored many publications in HPC applied to science. He is an expert in computing at the Commission of the EU and member of several scientific advisory committees, conference and journal editorial boards.

He has presented his work at many scientific conferences around the world often winning prizes for the best speaker.

Some more detailed information on his life before joining Microsoft can be found in a article published on IEEE Spectrum magazine of July 2006 (<http://www.spectrum.ieee.org/jul06/4117>) "Old world, new Grid" which describes well his latest accomplishments before joining Microsoft.

A full list of publications is available on demand.

Fabrizio Gagliardi is married with two daughters and when he is not busy traveling around the world, he coaches his daughters in horse jumping competition.