

# CURRICULUM VITAE

## Personal Details

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**Date of birth:** 2nd July, 1941

**Marital Status:** Widowed

**Nationality:** British

## Education and Employment

1954-59: Secondary school; Dollar Academy, Dollar, Scotland.

1959-63: Undergraduate, Dept. of Physics, Edinburgh University, Scotland.  
B. Sc. (1st class Honours) in Physics.

1963-67: Graduate, Dept. of Nuclear Physics, Oxford University, England.  
D. Phil. in Nuclear Physics

1967-68: Postgraduate Fellow, Dept. of Nuclear Physics, Oxford University.

1968-2006: CERN Senior Physicist and staff member.

2006-present: Contract professor at the University of Ferrara, Italy, affiliated to INFN

## CERN Activities and Experiments

### *Heavy Liquid Bubble Chamber Physics with Gargamelle (1968-73)*

Main developer of an Interactive System for Measurement/Reconstruction of neutrino events

(RAMSES), used in Neutral Current discovery.

Worked on large geometrical reconstruction packages, LBCG and HYDRA.

### *High Pt Physics at the ISR with the Split Field Magnet (1973-77)*

SFM detector group: designed new software for reconstruction/analysis.

CCHK collaboration: innovated an on-line software trigger for high Pt events.

Studied particle correlations and possible evidence for jet-like structures.

### ***UA1 Experiment (1977-94)***

Responsible for overall software design and analysis planning leading to W/Z discoveries.  
Developed calibration procedures for the Central Detector.  
Contributed to development of ZEBRA.

Ran and completed a project to use 3081 Emulator farms for on-line and off-line analysis.  
( in collaboration with Paul Kunz /SLAC and Adolfo Fucci /CERN ).  
Conceived and managed the UA1 "Express Line" for fast analysis and interactive scanning,

From 1984, coordinated UA1 physics analysis and preparation of publications.  
( initially in collaboration with M. Della Negra ).

UA1 Spokesman from 1989. Publications continued till 1995.

### ***NA48 CP Violation Experiment (1993-2006)***

Coordinator for offline software, processing and central computing resources till end 1999.

As a member of the GPMIMD2 European project, initiated and promoted use of the CS2 for NA48 data processing and analysis from 1994 till 1999.  
Managed transition to off-line PC farms in 1999, processing 100 Tbytes of data per year on and offline.

Developed continuous calibration techniques for the Liquid Krypton calorimeter.  
Contributed to analysis and publication of  $\epsilon\pi^0/\epsilon\pi$  and rare kaon decays.

### ***NA48/NA62 CP Violation Experiments (2006-present)***

Participated in data taking and analysis as a member of the group from INFN/Ferrara University. Continued responsibility for Liquid Krypton calorimeter calibration.

Lecture series given in Ferrara on:  
Mass measurements in NA48 K and  $\eta$  decays  
 $K^0$  rare decay measurements with NA48.  
Ke2/ $K\mu^2$  analysis with NA48.  
NA48/NA62 present and future.

### ***Other Responsibilities***

CERN Computer co-ordinator in 1973.  
Member/Secretary of CUAC (Computer Users Advisory Committee) in the 1970s.  
Member of COCOTIME in the 1980s.

Alternate to the Division Leader in the SPSC from 1995 till 2000 (ECP then PPE).  
Member of FOCUS from inception till 2003.

1995-1997: Leader of the CERN ECP/FEX group (25 staff)..

2001-2004: Chairman of the CERN PH Space Task Force.  
2004-2006: Chairman of the CERN PH Space Policy Board (SPOB).

Date: October 22<sup>nd</sup>, 2018

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