

## Curriculum Vita: Quentin Ingram



- Born: 1<sup>st</sup> March 1946, Northampton, England
- 1967: BA (Oxford) 1967
- 1970: DPhil (Oxford). Thesis experiment at the CERN SC
- 1971: Post-doctoral fellow University of British Columbia, Canada
- 1972 - 1974: Research Associate University of British Columbia, Canada
- 1974 - 1979: Research Scientist University of Karlsruhe
- Since 1979: Staff physicist SIN/PSI. Experiments at PSI, Saclay, LAMPF, CERN (NA37).  
Group Leader of experimental group with four postdocs and a technician (until 2002)  
Responsible for overseeing computing support; chair of the SIN/PSI computing committee, 1980 – 1995
- 1986 - 1990: Member of CERN PSSC Committee
- 1988 – 1991: Member of LAMPF Programme Advisory Committee
- 1993 – 1995: Member of TRIUMF Experiment Evaluation Committee
- 1991 – 2000: Member of PSI Research Committee; member of Experimental Evaluation Committees for the PSI ring cyclotron and for the injector cyclotron
- 1999 – 2006: Member of ECFA
- Aug - Dec 2006: CERN Corresponding Associate

Most of my research has been at 600 – 800 MeV accelerators, starting at the CERN SC in 1967, and later at Berkeley, SIN/PSI, Saclay and LAMPF. Apart from studying pion nuclear reactions, experiments included a search for forbidden muon decays, a test of charge independence of the strong interaction, a measurement of the  $\Delta(1232)$  magnetic moment, pion-nucleon and pion-deuteron measurements contributing to evaluations of the sigma-term (test of chiral perturbation theory) and dibaryon searches. In addition I was an active member of the muon deep inelastic scattering collaboration NMC (NA37) at the CERN SPS from its inception in 1984 to the end of paper-writing in 1997; this included measurements of nucleon and nuclear structure functions, and showed that the Gottfried Sum was not in agreement with prediction. I have participated in some twenty experiments, usually from the proposal, through design and construction, to the end, and as spokesman a number of times. The last major experiment at PSI of which I was spokesman was a collaboration between some 10 institutes from Switzerland, Germany, the USA and Croatia.

## Contributions to CMS

- 1990: Aachen LHC workshop
- 1991: Evian LHC meeting
- 1994: Joined CMS
- Since 1994: Member of CMS Collaboration and Finance Boards  
Responsible for CMS finances at PSI
- Since 1995: Attended (all) RRB meetings.
- Since 1996: Member of ECAL Institution Board
- Since 1998: Member of ECAL Finance Board
- 2000 - 2008: Secretary of the CMS Collaboration Board; member CB Advisory Group
- Since 2000: Member of the CMS Management Board
- Since 2004: Secretary of the Management Board
- Since 2005: Member of the CMS Authorship Board; Chair 2005-2006
- Since 2005: Member of ECAL Editorial Board
- Since 2007: Chair of ECAL Institution Board, including its Finance Board  
and Conference Committee.  
Re-elected for second term from January 2009
- 2008 - 2009: Member of ARCs
- Since January 2009: Member CB Advisory Group

From 1997 to 2004 I was heavily involved in the final stages of R&D for the APDs for ECAL. I negotiated and followed the purchase contract with Hamamatsu. I also developed the acceptance screening tests for all 140,000 diodes and oversaw the quality assurance. I chaired the APD Steering Committee.

In 2005 I proposed and experimentally demonstrated the feasibility of intercalibrating the ECAL Supermodules with cosmic ray muons. This was subsequently done for all Supermodules to an accuracy of better than 2%.

Presently I share supervision of a PhD student working on SM physics analysis.