

Curriculum Vitae

Date: April 21, 2015

Name: Patrick William Daly

Date of Birth: May 22, 1947

Place of Birth: Toronto, Canada

Degrees: B.Sc., 1968, Physics Honours
Bishop's University
Lennoxville, Quebec, Canada

Ph.D., 1973, University of British Columbia
Vancouver, B.C., Canada

Thesis title: Nuclear Orientation Studies at Low
Temperatures

Supervisor: Dr. P. W. Martin

Awards: 1964-68: Union Carbide Undergraduate Scholarship
1968: Governor-General's Gold Medal
1968-72: National Research Council of Canada Post-
Graduate Scholarship
1973-75: National Research Council of Canada Post-
Doctoral Fellowship

Positions Held:

1968 Summer job at National Research Council of Canada, Division of Pure Physics.
Research project in molecular spectroscopy, supervisor: Dr. T. Oka.

1968-73 University of British Columbia, Physics Dept., course of study towards Ph.D.
Research project in nuclear orientation, supervisor: Dr. P. W. Martin.

1975-78 Post-Doctoral Fellow at the Clarendon Laboratory, Oxford, England. Re-
search projects in nuclear orientation (under Dr. N. J. Stone) and nuclear cooling
(under Prof. N. Kurti).

1975-78 Research Associate at the Herzberg Institute of Astrophysics, National Re-
search Council of Canada, Ottawa, Canada. Research projects in ionospheric
and magnetospheric physics with Dr. B. A. Whalen, under direction of Dr. I. B.
McDiarmid. The projects entailed preparation and reduction by computer of
data from auroral sounding rockets (electrons and protons, up to 70 keV, and
thermalized ions, up to 5 eV), and the interpretation of these data. Particular ex-
periments included Periquito (Barium injection into the magnetospheric cusp),
Buaro and Lagopedo (artificial creation of ionospheric holes), plus numerous
launches into the nightside auroral zone.

1978-83 Stipendium at the Max-Planck-Institut für Aeronomie, Katlenburg-Lindau,

Germany, with Dr. E. Keppler under direction of Prof. W. I. Axford. The research project involved the computer analysis and interpretation of particle data (electrons and ions from 20 keV to 2 MeV) from the ISEE-B satellite. Of special interest is the particle behaviour at the dayside, low-latitude magnetopause, and within the magnetotail.

Important contributions to the understanding of the process of magnetic field line reconnection have come out of this work, in particular with regard to the phenomenon of flux transfer events.

1983–84 Visiting scientist with the Space Science Dept. of ESTEC, ESA, Noordwijk, Netherlands, under the direction of Dr. K. P. Wenzel. The project involved interpretation of proton data (>35 keV) from the particle spectrometer on board ISEE-3 during its passes through the Earth's magnetotail.

1984–2004 Scientific Staff Member at Max-Planck-Institut für Aeronomie, Katlenburg-Lindau, Germany, under the direction of Prof. Sir W. I. Axford and later Dr. V. M. Vasyliūnas.

Data analysis of the energetic ion spectrometer EPONA on board the Giotto spacecraft to comet Halley.

Preparation for the energetic ion and electron spectrometer RAPID on board the Cluster Mission to the Earth's magnetosphere, primarily in software preparation and establishment of the Cluster Science Data System.

Since Feb. 2001, the principal investigator of the RAPID instrument on Cluster.

2004–2012 Scientific Staff Member in the Planetary Department of the renamed and restructured Max-Planck-Institut für Sonnensystemforschung (MPS) under the direction of Prof. Dr. Ulrich Christensen.

Continue the work as principal investigator of the RAPID instrument on Cluster. Lead a group of three coworkers on the analysis and archiving of RAPID and other datasets at the European Space Agency's Cluster Archive.

2012–present Retire as permanent staff member at MPS; start new contract as part-time staff member to continue the RAPID/Cluster activities. Lead a group of five coworkers.

2014– The MPS moves to its new location in Göttingen.