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# Paul Aveling Redhead

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## Personal

**Name:** Paul Aveling Redhead

**Date of Birth:** May 25<sup>th</sup> 1924

**Birth Place:** Brighton, England

**Married:** Yes

**Children:** Two daughters

**Death:** July 9<sup>th</sup> 2005 in Ottawa, Ontario at the age of 81 years old

## Education

B.A Honors in Physics from Cambridge University in 1944

M.A in Physics from Cambridge University in 1948

P.H.D in Physics from Cambridge University in 1969

## Honors

Fellow, Institute of Electronic and Electrical Engineers, 1958

Fellow, Royal Society of Canada, 1968

Fellow, American Physical Society, 1970

Honorary Member, American Vacuum Society, 1970

Medard W. Welch Medal of the American Vacuum Society, 1975

Jubilee Medal, 1977

Fellow, IEEE (Institute of Electrical and Electronics Engineers)

Canadian Association of Physicists

Royal Society of Chemistry

## Career

1944-45	Department of Naval Ordnance (United Kingdom), Scientific Officer
1945-47	Services Electronics Research Laboratory (United Kingdom), Senior Scientific Officer
1947-	National Research Council of Canada
1947-54	Electron Physics Section, Radio and Electrical Engineering Division, Research Officer
1954-70	Electron Physics Section, Radio and Electrical Engineering Division, Head
1970-71	Program Planning and Analysis Group, Head
1971-72	Program Planning and Analysis Group, Director
1972-73	Planning, Director General
1973-	Division of Physics, Director
1974-83	Physical/Chemical Science Laboratories, Group Director
1975-	Advisory Board on TRIUMF, Chairman
1975-81	Tactical Studies Committee, Chairman
1980-82	Program Selection Committee, Chairman
1981-	Committee of Laboratory Directors, Chairman

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Sparks, B.D. *FTFC Trip Report: Technical Committee Meeting*. July 30<sup>th</sup>, 1993.

Meadus, F.W. *Sludge Fundamentals Consortium: Management Committee Meeting*. AOSTRA. Edmonton, Alberta. June 25<sup>th</sup>, 1993.

Sparks, B.D. *Trip Report: Joint Management and Technical Committee Meetings*. Fine Tails Consortium. AOSTRA. Edmonton. March 2<sup>nd</sup>, 1993.

Meadus, F.W. *Trip Report: Management Committee Meeting*. Syncrude Research. Edmonton, Alberta. October 27<sup>th</sup>, 1993.

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Babchin, A & Chow R. *Electrokinetic, Electroacoustic and Dielectric Properties of Sludge*. February 1990.

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*Electrokinetic, Electroacoustic and Dielectric Properties of Sludge*. ARC.

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Dr. S Hrudey & Dr. P.M Fedorak. *Mass Spectrometric Characterization of Naphthenic Acids from Oil Sands Wastewaters with Regard to their Environmental Significance.*

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## Photograph

A photograph of the members of the Institute of Environmental Chemistry.

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# Volume 3

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Crabbe, R.S. & McCooeye, M. (1983). *Field Measurement of Ground Deposit and Windborne Drift from Herbicide Sprays in New Brunswick*. National Aeronautical Establishment. National Research Council Canada.

Crabbe, R.S. (1976). *Examination of Gradient-Transfer Theory for Vertical Diffusion Over Mesoscale Distances Using Instrumented Aircraft*. National Aeronautical Establishment. National Research Council Canada.

Seman, G., Wilson, D. & Elias, L. (1977). *Detection of Hidden Explosives on Passenger Aircraft*. Committee on Aviation Security. Transport Canada. National Research Council Canada.

Chiu, D. (1995). *Composting and Odour Analysis*. Simon Fraser University. Institute for Chemical Process and Environmental Technology, NRCC.

## 5 Copies of

*Creating Innovation through Technology*. (1998) Institute for Chemical Process and Environmental Technology. National Research Council Canada.

## Photographs

Two packages of photographs, miscellaneous of the Institute of Environmental Chemistry members engaged in various activities including dinners, speeches, lunches and events.

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# Volume 4

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## Collection of Black Bound Notebooks with Hand Written Notes and Calculations

*Coal & Clay\_UF.* 35. Serial No. 3657.

34. Serial No. 3665.

*R.D.C.* 33. Serial No. 3651.

*Germain.*23. Serial No. 3450.

*R.D.C.* 19. Serial No. 3362.

*A.E.M.C.* 19. Serial No. 3353.

*R. Germain.* 20. Serial No. 3376.

*R. Germain.* 21. Serial No. 3423.

*McCurdy & Germain.* 22. Serial No.3444.

*R.D.C.* 24. Compression Tests & Pneumatic Conveying. Serial No. 3396.

*R.D.C.* 31. Serial No. 3621.

32. Serial No.3637.

*A.E.M.* Serial No.3567

*R.D.C.* 29. Serial No. 3543.

*A.E.M.* 28. Canadiota Coal, Nova Scotia Coal. Serial No.3536.

*R.D.C.* 27. Meyer's Process. Serial No.3511.

*R.D.C. Tar Sand.* 26. Serial No. 3490.

*A.E.M.C.* 25. Serial No.3462.

### 3 Envelopes, One Handmade

1. *Size Analysis of Sands Used in this Last Falling Operation. B-33-42 to 47.*

Contains 3 silver paper squares, labeled *Sieve Analysis*

- Sample #C Slip
- Sample #F Slip
- Sample #F Slip

2. *Sample B: Thick Layer of Fines (-250 + 270)*

Contains 3 photographs, the reverse of the photographs reads,

- Thick Layer of Fines Sample B K86K371
- Thick Layer of Fines Sample B K86K371
- Thick Layer of Fines Sample B K86K371

3. Handmade envelope using ruled paper and masking tape

Contains 3 photographs of large systems made from tubing and pipes. Nothing printed or written on the reverse of the photographs.

### 5 Laminated Pieces of Graph Paper

#### Two Individual Sheets

*Calibration of Oil Feed Feeding High Shear Mixer. May 15<sup>th</sup>, 1980. Rotameter Reading.*

*Calibration of Oil Feed Feeding High Shear Mixer. May 14<sup>th</sup>, 1980. Calibration Setting.*

#### Set of 3 Sheets, Held Together Using Two Split Pins

*Water Exit. Rotameter Reading (% of Full Scale)*