

GWAITH YR ATHRO MYRON WYN EVANS

- 1) Cemegwr a Ffisegwr
- 2) Ganwyd yng Nghraigcefnparc 1950.
- 3) Addysg yn Ysgol Rhamadeg Pontardawe a Choleg Prifysgol Cymru Aberystwyth.
- 4) B. Sc. (1971), Ph. D. (1974), D. Sc. (1977).
- 5) Arolygwr Ph. D. : Yr Athro Mansel Davies.
- 6) Ieuencaf i dderbyn gradd D. Sc ym Mrydain a'r Dalaith Brydeining, yn saith ar hugain mlwydd oed.

Brawdoliaethau mewn Cystadliaethau Agored

- 1) Brawdoliaeth Cyngor Ymchwil Gwyddoniaethol Prydain Fawr, 1974
- 2) Brawdoliaeth Cyngor Ymchwil Gwyddoniaethol Canada, 1974.
- 3) Brawdoliaeth Ewropeaidd ICI, 1974.
- 4) Brawdoliaeth Ymchwil Isradd, Coleg Wolfson Rhydychen, 1975.
- 5) Brawdoliaeth er Cof am Ramsay, 1976.
- 6) Brawdoliaeth Uwchradd Cyngor Gwyddoniaethol a Pheirianyddiaethol Prydain Fawr, 1978.
- 7) Brawdoliaeth Prifysgol Cymru ym Mangor ac Abertawe, 1983.
- 8) Brawdoliaeth Uwchradd Pilcher yn Abertawe, 1985.
- 9) Brawdoliaeth IBM ym Mrydain Fawr, 1985.
- 10) Brawdoliaeth Humboldt, 1985.
- 11) Dau Frawdoliaeth Leverhulme.

Penodiadau

- 1) Cyfryngwr Ewropeaidd y Grwp Hylifau Moleciwlar, 1980.
- 2) Athro Ymweledig IBM, Kingston, Efrog Newydd, 1986
- 3) Brawdoliaeth Anrhydeddus, Coleg Frenhinol Holloway a Choleg Newydd Prifysgol Llundain, 1987.
- 5) Brawdoliaeth Anrhydeddus, Coleg Caerhircfryn, 1987.
- 6) Prif Awdur MOTECC, IBM, 1988.
- 7) Gwyddonwr Ymweledig, Canolfan Theori Prifysgol Cornell, 1989 - 1992.
- 8) Gwyddonwr Ymweledig, Prifysgol Zurich, 1990 - 1991.
- 9) Gwyddonwr Ymweledig, Prifysgol Talaith Pennsylvania, 1991.
- 10) Athro Ffiseg, Prifysgol Gogledd Carolina 1992.
- 11) Gwyddonwr Ymweledig, Athrofa Statisteg Calcutta, 1995.
- 12) Gwyddonwr Ymweledig, Prifysgol Gogledd Efrog, Toronto, 1995.
- 13) Cyfarwyddwr yr Athrofa Alffa am Astudiaeth Uwchraddol, 1998.
- 14) Penodwyd i'r Restr Sifil gan y Frenhines Elizabeth yr Ail a'r Ty Cyffredyn, 2005.
- 15) Awdur neu Golygydd 716 o erthyglau a llyfrau gwyddoniaethol.

Cyfraniadau

- 1) Eglurhad y ddangoch hir gan ddefnyddio y ddinameg moleciwlau
- 2) Datblygiad yr efelychiad gyfrifiadol a'r efelychiad gyfrifiadol gyda rymedd allanol.
- 3) Datblygiad yr opteg gor-linellol, gan ddefnydd arbennig o effaith gwrthdroedig Faraday.
- 4) Darganfod y rymedd droedig sylfaenol yn electrodinameg.
- 5) Datbygiad y pwnc electrodinameg gan gynnwys y rymedd droedig sylfaenol.
- 6) Datbygiad theori y rymedd unedig gan gynnwys y gymaroldeb gyffredinol.

Rhagflaenyddion are y Restr Sifil yn ffiseg a chemeg: Herschel, Dalton, Faraday, Joule, Fairfax-Somerville, Heaviside, Denning ac Airy. Rhagflaenydd o Gymru oedd y bardd Vernon Watkins. Ar y pryd yr unig wyddonwr as y Restr Sifil a'r unig Cymro. Mae penodaeth i'r Restr Sifil yn Fraent Uchel yn debyg i'r Urdd Deilwng (Order of Merit) neu i'r Urdd y Fraent (Companion of Honour). Y mae tuag at phump ar hugain ar y Restr yn bresenol, a phump ar hugain o ran fwyaf yn yr Urdd Deilwng; pump a thrugain o ran fwyaf yn Urdd y Fraent.

Mabwysiadau

- 1) Y Llywodriaeth Brydeinig.
- 2) Yr Athrofa Alffa am Astudiaeth Uwchraddol.

Diddordebau gan gynnwys barddoniaeth (llyfr bardol 2005), ffotograffiaeth (arddangosfa sefydlol yng Ngholeg y Brifysgol Abertawe), cerddoriaeth, llên a chelfyddid. Rhagflaenyddion bardol ar y Restr Sifil gan gynnwys Byron, Wordsworth, Tennyson a W. S. Graham.

(From Marquis' Who's Who)

Myron Wyn Evans

- Chemist and Physicist.
- Born Craigcefnparc Wales 1950.
- Educated Pontardawe Grammar School and University of Wales Aberystwyth.
B. Sc. (1971)
Ph. D. (1974)
D. Sc. (1977)
- Ph. D. Supervisor Prof. Mansel Davies.
- Youngest recipient of the D. Sc. degree in Britain and the Commonwealth at the age of 27.

Fellowships in open competition:

- Science Research Council Fellowship 1974
- National Research Council of Canada Fellowship 1974
- ICI European Fellowship 1974
- Junior Research Fellowship of Wolfson College Oxford 1975
- Ramsay Memorial Fellowship 1976
- Science and Engineering Research Council Advanced Fellowship 1978
- Scientific Coordinator European Molecular Liquids Group 1980
- Two University of Wales Fellowships 1983
- University of Wales Pilcher Senior Fellowship 1985
- IBM UK Fellowship 1985
- Humboldt Fellowship 1985
- Two Leverhulme Trust Fellowships

Appointments:

- IBM Visiting Professor Kingston New York 1986
- Honorary Fellow Royal Holloway and New College University of London 1987
- Honorary Fellow University of Lancaster 1987
- IBM MOTECC lead writer 1988
- Visiting Scientist Cornell Theory Center (1989 - 1992)
- Visiting Scientist University of Zurich 1990 - 1991
- Visiting Scientist Pennsylvania State University 1991
- Professor of Physics University of North Carolina at Charlotte 1992
- Visiting Scientist Indian Statistical Institute 1995
- Visiting Scientist York University Canada 1995
- Director Alpha Institute for Advanced Study 1998
- Appointed by Queen Elizabeth II and Parliament to the British Civil List 2005 for distinguished service to Britain and the Commonwealth in science
- Author or editor of 716 articles and 50 books in chemistry and physics

Main contributions:

- explanation of the far infra red with molecular dynamics
- development of computer simulation and field applied computer simulation
- development of non-linear optics, notably the inverse Faraday effect

- discovery of the fundamental spin field of electrodynamics
- development of electrodynamics to include the spin field
- development of generally covariant unified field theory

Predecessors in physics and chemistry on the Civil List are Herschel, Dalton, Faraday, Joule, Fairfax-Sommerville, Heaviside, Denning and Airy. Predecessor from Wales on the Civil List is the poet Vernon Watkins. Currently the only scientist on the Civil List and the only person from Wales. Appointment to the Civil List is a High Honour commensurate with Order of Merit or Companion of Honour, there being about twenty five persons on the List at present.

Affiliations:

- British Government, Treasury
- Alpha Institute for Advanced Study.

Avocations include poetry (book of poetry 2005), photography (permanent exhibition in University of Wales Swansea), music, literature and art. Poetic predecessors on the Civil List include Byron, Wordsworth, Tennyson and W. S. Graham.