

**CURRENTLY**

Editor and publisher of *Science, People & Politics* (ISSN 1751598x) and of *In Our World* (ISSN 26341794) located at <https://www.sciencepeopleandpolitics.com> and <https://www.gavaghancommunications.com/iow.html>. Executive director of non-trading company Science, People and Politics Ltd. Co.No. 0590-1911. I create science or technology-based illustrations and infographics and code and manage two websites, working with HTML/CSS, with some basic knowledge of XML, and awareness of PHP, htaccess, SQL and javascript, meta tags and SEO. When not engaged on behalf of *Science, People & Politics* I am a **freelance journalist, editor, and science writer**. I also have work which is published in the history of science and technology. I have lived in and worked from London, Eindhoven, Washington DC and the Calder Valley in the north of England.

**AWARDS**

Award, which is largely unspent, from the Association of British Science Writers to attend the 2021 European Investigative Journalists' conference, Dataharvest. I have a particular interest in the intersection between the UK criminal justice system and the MHAct, an interest I developed during ongoing reporting as a jobbing journalist from Crown Court. In 2020 from the middle of March I voluntarily and temporarily interrupted my Court reporting because of my contact with a vulnerable adult. As a journalist my professional status is that of key worker. Court reporting in person, or remotely, is central to the existence of effective democracy, because accurate reports enable people to hold power to account. The reporting can need local knowledge gained in situ. Depending on the story covered the *in-situ* knowledge may need to be concurrent with events.

I used time freed in 2020 to keep up to date as a science writer, working as a journalist and editor, on the task of changing website content from one site to another, for news monitoring, code updates, and for assessment of which business models, editorial structure, location, staff levels, and technology platforms might work for *Science, People & Politics*. The publication is a scientifically literate humanities' quarterly, aimed primarily at scientists and politicians internationally, and with the public intended to be a self-selecting secondary audience. I am working on the second draft (restructuring for a sales format different from the original intent) of a book on genetics. The first draft was completed in the summer of 2019. I left the book alone for more than a year, and that time has not overturned the essence of the science content.

**RECENT AWARDS, GRANTS OR GRANT EQUIVALENT:**

2019. Travel award from the Association of British Science Writers.

2019. Grant from the Hungarian Academy of sciences to attend the World Science Forum 2019 in Budapest.

See. <http://www.sciencepeopleandpolitics.com/spppdfs/spp42019.pdf> pp 7-9.

2019. Registration for the World Federation of Science Journalists (2019) in Lausanne.

See. <http://www.sciencepeopleandpolitics.com/spppdfs/spp32019.pdf> Climate change action gap. P 14.

**EARLIER INTERNATIONAL AWARDS, CONTRACTS AND BOOKS.**

Alfred P Sloan Foundation (New York) award of \$125,000.00 (1991). \$100,000 to research and write a book and with \$25,000 expenses. The book "Something New Under the Sun: Satellites and the Beginning of the Space Age" was published in 1997 by Copernicus, a trade imprint in New York of Springer Verlag. I assert PhD equivalence for the work: on the grounds of epistemology quality and because I developed a thesis from original research. My thesis being that each field of *civilian* application satellites (weather, navigation, and communication) in the 1950s and 60s traces its development to one of the 12 science and technology areas of the International Geophysical Year of 1957-58. That analysis does not mean significant defence, political and commercial interests were not at the time powerful players in the field of application satellite development.

My work brought new material to the published literature, as noted in a review in *Nature*. I wrote and sourced from a journalist's perspective undertaking research in US corporate and US government archives; reading at the Library of Congress; collecting anecdotes from those who responded to an advert; interviewing principals in the work; and collecting some personal records, which principals had kept. I still have the tapes of interviews with the TRANSIT team, Verner Suomi, and key people in Communication satellites, mainly on the civilian side. I worked with keen and informed awareness of antitrust and defence issues. These interviews are available to an international history of science archive with expertise in copyright.

I researched and wrote the first official history of EUMETSAT, based on privileged access to documents not then in the public domain. Published 2001. Audience: high-level decision makers in Europe.

#### EDUCATION

##### **M. PHIL STUDIES 2002-2004. CHSTM, UNIVERSITY OF MANCHESTER.**

**Thesis unsubmitted:** The impact of Sydney Chapman and Lloyd Berkner on the International Geophysical Year of 1957-1958. I was exploring how the IGY sciences might have helped to reduce global tension by giving scientific insight into natural phenomena, which could not then be confused with furthering or the consequences of nuclear testing, warfare, military, and missile deployment or use in the Arctic and Antarctic. I hypothesised that the nature and life and interests and professional work of Chapman and Berkner kept the IGY with a civilian focus, and that that was hard to do given the military significance of every branch of the IGY. My research was additionally uncovering the commercial and territorial pressures on the IGY, and I had discussed with my research supervisor exploring whether there might be informal links between the IGY and Pugwash. I was writing a transfer report from M.Phil. to Ph.D. when a dispute arose in March 2004 with my head of department (Prof M. Worboys, then director of CHSTM) about an administrative, non-financial, non-academic matter. I had tremendous respect for my research supervisor, the late Dr Jeff Hughes.

**Biophysics BSc (hons). University of Leeds 1976-1980.** [4yr degree. Head of Dept. Prof ACT North.]  
Subsidiaries at degree level: Chemistry (physical, organic, inorganic), Math (pure and applied), Physics, Physiology. Fourth year project. Electron microscopy and plant tissue. Supervisor Dr Brenda Nelmes. I was secretary and then president of the University of Leeds student biophysics society. Our focus was the structure and function of biological macromolecules *in situ* and biological context.

##### **School. St Joseph's College, Bradford.**

**A-levels (4):** Physics, chemistry, biology, general studies (language option French). One year of maths A Level (pure and applied), with non-public exams passed.

**O-levels (1973) (10):** Math, Physics, Chemistry, Biology, English lang., English lit., French, Latin, History (top grade), Scripture. One year of Spanish, with internal exams passed, no public exam. Grades 1-8 Speech and drama. Distinction grade 6.

##### **School non-academic achievements.**

Chess captain, Bradford Girls Chess Champion. I stopped playing chess when I went to University. Elected deputy head girl. Public performances at drama festivals and as part of "The Troubadors" in Bradford. Hobbies have been playing bridge/chess. Walking. I still like to walk. I am diagnosed with MS (DVLA notified, no additional restriction on type of vehicle driven). So far the condition seems mild. Reading. Theatre. Music.

#### VOCATIONAL AND CPD TRAINING

Journalism training on the job and on release at The London College of Printing (1981).

News & Current affairs 1995 or 96, sponsored by the BBC after contributing news and despatches to the BBC World Service from Washington DC.

HMRC and Business link courses on becoming a director, sole trader accounts, VAT reporting and other modules – about 100 hours plus.

Calderdale College for Clait Level 1 - about 90 hours.

Basic html coding. Calderdale College. I did not enter an exam, simply applied knowledge in my own business.

Finance for non-financial managers delivered by Bradford University (a week), taught by Iain Ward-Campbell.

SAGE entry for non-accountants – two (?) days [check with University of Bradford].

##### **I HOLD A FULL UK MANUAL DRIVING LICENCE.**

#### WORK AND VOLUNTARY EXPERIENCE BEFORE (END OF CV) AND AFTER GRADUATION (1980)

**On staff 1980-1983.** *Building Services and Environmental Engineer, Electrical Times, Electrical Review, Electrical Review International.* Roles: assistant editor, columnist, news reporter, feature writer and *de facto* acting deputy editor of a new launch. Audience: industry and corporate. Technical writer in The Netherlands.

On staff *New Scientist*. 1984 to 1991. Roles: Technology News editor 3.5 years (including the patents page).

Tasks as a section editor: commissioning, editing, news writing, liaising with other sections, the subs desk, the

art department, layout, and picture research, passing section for press prior to the editor. Then promoted to technology free-roving correspondent with two spells as Washington DC correspondent, for a combined 3.5 years. 7 years in total at *New Scientist*. I reported nationally and internationally, including hard news. Audience: the public.

**1991 to 1996: Freelance, based in Washington DC.** Audience:- the public and/or international scientific community. Main outlets: *Nature*, *Nature Medicine*, BBC World Service and *New Scientist*. *Le Journal International de Medecin* (audience: French GPs). I was also researching my first book.

**1996-1997.** Editor of *Clinica*, a weekly newsletter, with daily database output. My staff covered regulatory affairs, company news, science, and policy news. We worked internationally. I updated production from cut and paste, restructured the editorial workflow to provide clearer division between newsletter's sections, with the intent of making it easier to prevent libel or content manipulation by imputation deriving from inadvertent juxtaposition. In addition to passing the publication for press I liaised with advertising and marketing, training and recruitment and recruited staff, introducing a new role of chief sub for the newsletter, recruiting from Fleet Street. Audience: Pharmaceutical and clinical devices and diagnostics industries.

**1997 to date 2004** freelance journalist and editor, writing and editing for the public and/or international scientific community. Travelled internationally to conferences and for reporting purposes.

**2002-2004** part time freelance, while a part time M.Phil. postgrad. Repeat clients between 1997 and 2004: BMC, *The Scientist*, *Nature*, *Science*, *New Scientist*, *WHO News Bulletin*, *Biofutur* and others.

**2005 to date** freelance and founding editor of *Science, People & Politics* ISSN 1751-598X.

Founder and executive director of Science, People and Politics Ltd. Co No 1751-598X.

Over the years I have contributed occasional items to UK national newspapers.

**Summary of topics I have covered as a journalist:** trade, company news, appointments, product launches, production updates, marketing strategies, company sell-offs (eg Rolls Royce), defence, arms control, science, technology, biomedicine/biotechnology and its policy, space, aerospace, energy, environment, UK criminal cases in Crown Court, patents and patent cases.

**Summary of my roles as a journalist and editor.** Journalism roles. Routine reporting, hard news journalism, investigative journalism, subject correspondent (technology, biomedical research policy), foreign correspondent (in US for a UK publication, in US for a French publication, in UK for a French publication), book reviews, columnist (in the giddy world of electromagnetic induction, a topic described here by MIT <https://web.mit.edu/kirtley/binlustuff/literature/electric%20machine/InductionMachineHandbook.pdf>), and writing informed opinion as editorials. Editor roles. The editor, assistant editor, deputy editor, section editor, commissioning editor, working with quarterly, monthly, weekly, and daily output - in print and online.

#### **OTHER PUBLICATIONS/CONSULTANCY.**

Contributed the rockets and satellites section to a childrens' encyclopaedia of space. Consultant in 1980s to an electronics dictionary. Contributed to a book on energy which arose from articles in *New Scientist*. Consultant to Science Museum London on one of its galleries. Advice to a BBC 4 documentary on satellites. Grant reviewer twice. Each grant exceeded £100,000. I have undertaken science writing for public relations for ESA and others.

#### **TRADE UNION AND PROFESSIONAL MEMBERSHIPS**

Currently a member of the Chartered Institute of Journalists and of the Associations of British Science Writers. Resigned from the NUJ on a matter of policy disagreement. In the NUJ I have been mother-of-chapel, asst branch sec. responsible for minutes and correspondence, and I ran to be deputy general secretary of the NUJ. I lost, and subsequently I resigned as per mentioned above, but not because I lost the election. I retain respect and friendship for the NUJ. That last comment is not window dressing hiding a dispute of any kind.

**IGOs I've worked under contract for or on repeat/freelance basis include: WHO, UNESCO, ESA, EUMETSAT.**

**Publications I have in the past written for occasionally:** WHO news bulletin. *Telecommunications Development Asia Pacific*, UK national newspapers.

#### **VOLUNTEER WORK**

**A)** Voluntary work via various Roman Catholic institutions. Visiting elderly to do shopping [Leeds, while at University]. Teaching science element of GED [Washington DC].

**B)** Voluntary work not via an RC institution: Teenage mentor at Todmorden High School, Samaritan (long since stopped being a Samaritan). Volunteer at Square Chapel Centre for the Arts and at Orange Box, with youths.

**Current volunteer work with eDBS.** The original eDBS certificate must be kept safe (mine is).

#### **IT EXPERIENCE AND REMOTE WORKING.**

Working with remote access to Biomedcentral servers as news editor (maternity cover). I have HTML AND CSS coding expertise and coded and now manage [www.sciencepeopleandpolitics.com](http://www.sciencepeopleandpolitics.com) and [www.gavaghancommunications.com](http://www.gavaghancommunications.com)

#### **CORPORATE AND ENTREPRENEURIAL**

I founded the magazine *Science, People & Politics* ISSN: 1751-598X (online) and its owning company Science, People and Politics Ltd. I am the company's majority shareholder, its executive director and editor of the magazine. On April 8<sup>th</sup> I founded the title *In Our World*, ISSN: 2634-1794 (online).

Temporarily I created a limited partnership (Applebough LP) and was the General Partner. I was seeking a structure compatible with GDPR legislation and ICO registration for separate entities, but I dissolved the LP after submitting a couple of returns to HMRC. I am the data controller for my unincorporated sole tradership, Gavaghan Communications, through which I work as a journalist and writer, as well as publisher. Hence my exploration of an LP as a mechanism for two ICO registrations reflecting the different sales tasks of copy production (selling my services) and copy publishing (selling product).

#### **PROFESSIONAL STANCE**

My stance as an editor is that journalists undertake lawful, accurate reporting. I do not think it is the job of journalism to hold power to account. That task is, I think, the peoples' job. As a science writer my job is to write the science for different audiences, without spin.

#### **ARMY**

In my first terms at The University of Leeds I was a member of the Officer's Training Corps, and I wore my army uniform, including combat gear, with pride. I was not good on the parade ground, and left, but I was not running away, and I meant it when I joined.

#### **WORK BEFORE GRADUATION (1980) WHILE AT SCHOOL AND DURING MY UNDERGRADUATE YEARS**

Cleaned up after piece workers in a factory, packing eggs, shop work, bar work, playgroup work for Calderdale Metropolitan Borough Council, waitress and chambermaid in Wales, housekeeper in a hotel, filing for HMRC.

**OTHER NON-GRADUATE WORK.** Data-entry for a barrister and occasional jurist, cleaning for a different barrister (both in civil law),