

CV / RESUME. Helen Gavaghan 2021. Long version.

Contact. Currently based 165 Longfellow Court, Mytholmroyd, Hebden Bridge, W. Yorks. HX7 5LG.

E mail hmt.gavaghan@gmail.com. T. +44 1422 886015. M. +44 7587 189191. UK citizen. Twitter: @HelenGavaghan

I am also on Linked IN, Facebook, and Instagram, and You Tube – just to try to figure out what they are about.

CV HELEN GAVAGAHN.

SUMMARY

Experienced editor and journalist (general), specialty science, technology and their context.

Post grad academic experience (University of Manchester), and PhD and post doc equivalent gained professionally in mid-20th century history of science, technology, and medicine.

Founding 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 the Science, People and Politics Ltd. Co.No. 0590-1911 (dormant and limited by shares). The magazine publishes original journalism, predominantly by its shareholders currently, and expert academic writing, for example IP, BTWC, ideas about society. We do not charge for editing the work by academics when they are writing in their field of expertise. If not writing in their field of expertise, they are producing journalism and should be paid.

I create science or technology-based illustrations and infographics.

I code and manage the two websites above, working with HTML/CSS and metatags, with some basic knowledge of XML, and awareness of PHP, htaccess, SQL, javascript and SEO.

When not engaged on behalf of *Science, People & Politics* I am a **freelance journalist, editor, and science writer and author**. I have lived in and worked from London, Eindhoven, Washington DC, and the Calder Valley in the north of England. I enjoy travel, can move to a new location with ease, or work remotely (which I did first via access to BioMedCentral circa 2000). I have a secure office in my home.

In 2020 from the middle of March I voluntarily and temporarily interrupted my Court reporting because of my contact with a vulnerable adult. I used time freed in 2020 to keep up to date as a science writer and journalist, working as a journalist and editor, on the task of changing website content from one server to another, and on news monitoring and code updates.

When I started *Science, People & Politics* in 2005 I was flying blind, and learning and solving legal, coding, and corporate issues as they emerged.

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 should really be 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, which I monitor.

RECENT AWARDS, GRANTS OR GRANT EQUIVALENT:

2020. Travel award from the Association of British Science Writers. Travel Award from the Association of British Science Writers to attend the 2020 European Investigative Journalists' conference, Dataharvest. Sadly, Covid 19 restrictions meant the conference could not go ahead in person, so I returned nearly all of the grant. My interest is in the intersection between the UK criminal

CV / RESUME. Helen Gavaghan 2021. Long version.

Contact. Currently based 165 Longfellow Court, Mytholmroyd, Hebden Bridge, W. Yorks. HX7 5LG.

E mail hmt.gavaghan@gmail.com. T. +44 1422 886015. M. +44 7587 189191. UK citizen. Twitter: @HelenGavaghan

I am also on Linked IN, Facebook, and Instagram, and You Tube – just to try to figure out what they are about.

justice system and the MHAct, an interest I developed during ongoing reporting as a jobbing journalist from Crown Court (2012-).

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

See. <http://www.sciencepeopleandpolitics.com/spppdfs/spp42019.pdf> pp 5-9.

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

<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 principles in the work; and collecting some personal records, which principles 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. 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, such that the science could not then be confused with furthering or the monitoring 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 also uncovering commercial and territorial pressures on the IGY. 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, Maths, physics, Physiology (a semester).

Year-4 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.

CV / RESUME. Helen Gavaghan 2021. Long version.

Contact. Currently based 165 Longfellow Court, Mytholmroyd, Hebden Bridge, W. Yorks. HX7 5LG.

E mail hmt.gavaghan@gmail.com. T. +44 1422 886015. M. +44 7587 189191. UK citizen. Twitter: @HelenGavaghan

I am also on Linked IN, Facebook, and Instagram, and You Tube – just to try to figure out what they are about.

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 was 18. 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). The condition seems mild. Reading. Theatre. Music.

VOCATIONAL AND CPD TRAINING

Journalism training on the job (on staffs) 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 about: 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 and website design. 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 ended up “creating” supply companies during our practical work to balance the books. Perhaps best not employ me for this role!

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. A couple of spots as acting New Editor. Audience: the public.

1991 to 1996: Freelance, based in Washington DC. Audiences. 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.

CV / RESUME. Helen Gavaghan 2021. Long version.

Contact. Currently based 165 Longfellow Court, Mytholmroyd, Hebden Bridge, W. Yorks. HX7 5LG.

E mail hmt.gavaghan@gmail.com. T. +44 1422 886015. M. +44 7587 189191. UK citizen. Twitter: @HelenGavaghan

I am also on Linked IN, Facebook, and Instagram, and You Tube – just to try to figure out what they are about.

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 (rarely do I write about clinical work) 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, manuscript editor, assistant editor, deputy editor, section editor, commissioning editor, working with quarterly, monthly, weekly, and daily output - in print and online. In other words, I understand the differences between being a manuscript creator, a manuscript commissioner, a manuscript editor, and a grant reviewer. I also understand the difference between journalism and academic writing.

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 (a shop steward), 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:

The WHO, UNESCO, ESA, EUMETSAT.

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

VOLUNTEER WORK

A) Voluntary work via various Roman Catholic institutions. Visiting elderly to do shopping [Leeds, while I was 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 and www.gavaghancommunications.com

CV / RESUME. Helen Gavaghan 2021. Long version.

Contact. Currently based 165 Longfellow Court, Mytholmroyd, Hebden Bridge, W. Yorks. HX7 5LG.

E mail hmt.gavaghan@gmail.com. T. +44 1422 886015. M. +44 7587 189191. UK citizen. Twitter: @HelenGavaghan

I am also on Linked IN, Facebook, and Instagram, and You Tube – just to try to figure out what they are about.

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 8th 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 null returns to HMRC. I am the data controller for my unincorporated sole tradership, Gavaghan Communications, through which I work as journalist and writer, as well as a publisher. Hence my exploration of an LP, as a way to create two ICO registrations reflecting the different tasks of copy production (selling services) and publishing (selling product).

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) FROM UNIVERSITY, WHILE AT SCHOOL, AND AS AN UNDERGRADUATE.

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

OTHER NON-GRADUATE PAID WORK. Data-entry for a barrister and occasional jurist, cleaning for a different barrister (both in civil law). Artists' model (clothed!) at The Square Chapel Centre for the Arts in Halifax. Meet and greet work for an arts festival throughout the Calder Valley for Square Chapel Centre for the Arts. **I HOLD A FULL UK MANUAL DRIVING LICENCE.**