



Archives & Research Collections

REVIEW OF THE YEAR 2020-2021

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The Library aims to build, maintain and make accessible unique and distinctive collections in support of institutional research and teaching activities, and to preserve a lasting historical record of the University.

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Supporting our community

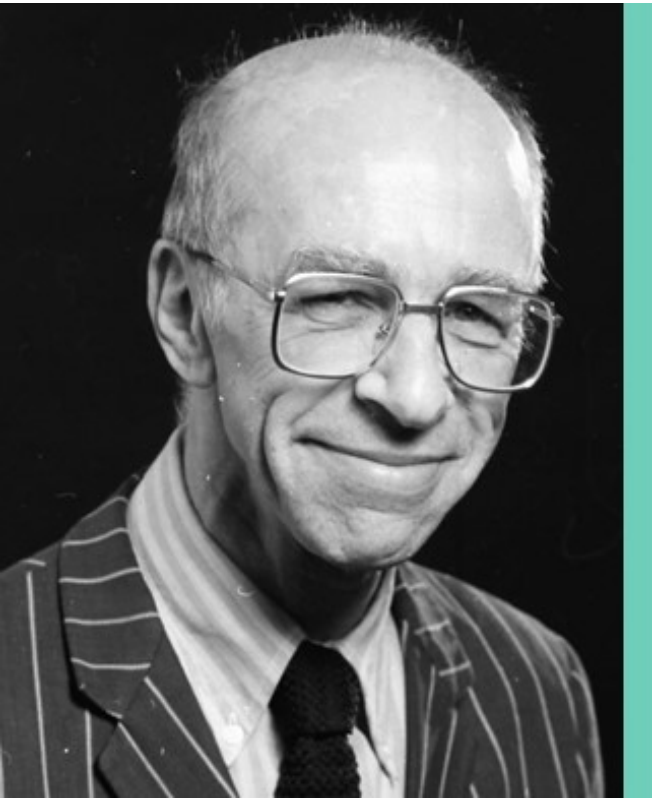
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Find out more at:

<https://www.bath.ac.uk/topics/library-archives-and-research-collections/>

Edward Fraenkel Collection



Edward Fraenkel was born Ludwig Eduard Fraenkel in Kiel, Germany, on 28 May 1927, the youngest of the five children of Eduard David Mortier Fraenkel, a prominent classical philologist, and Ruth Fraenkel (née von Velsen).

When anti-Semitic laws in Germany severely affected Eduard Fraenkel's career and threatened his family, he took advantage of a scheme organised by the Royal Society to assist persecuted foreign academics. Through the scheme he was able to secure a post at the University of Oxford in 1934.

Fraenkel began attending the Dragon School in Oxford but was evacuated to Canada, in 1940. His host family had misgivings about his German name and sought his parents' permission to address him instead as Edward.

Fraenkel attended the University of Toronto graduating with a Bachelor of Applied Science in Aeronautical Engineering in 1947. He moved back to the UK in the following year and worked at the Royal Aircraft Establishment, Farnborough, Hampshire, before taking up an appointment at the University of Glasgow in 1952. Between 1958 and 1964, while based at Imperial College London, his academic focus changed, and he began a transition towards studies in pure mathematics.

Later appointments included posts at the University of Cambridge (1964-1974), the Courant Institute of Mathematical Sciences, New York (1966), California Institute of Technology (1968), and the University of Sussex, Brighton, first as visiting Professorial Research Fellow (1971, 1973-1974) and then as Professor in the Mathematics Division (1975-1988). Fraenkel retired early in 1982 with the objective of devoting more time to research. He stayed on at Sussex before moving to the University of Bath School of Mathematics in 1988 where he continued working until 2005.

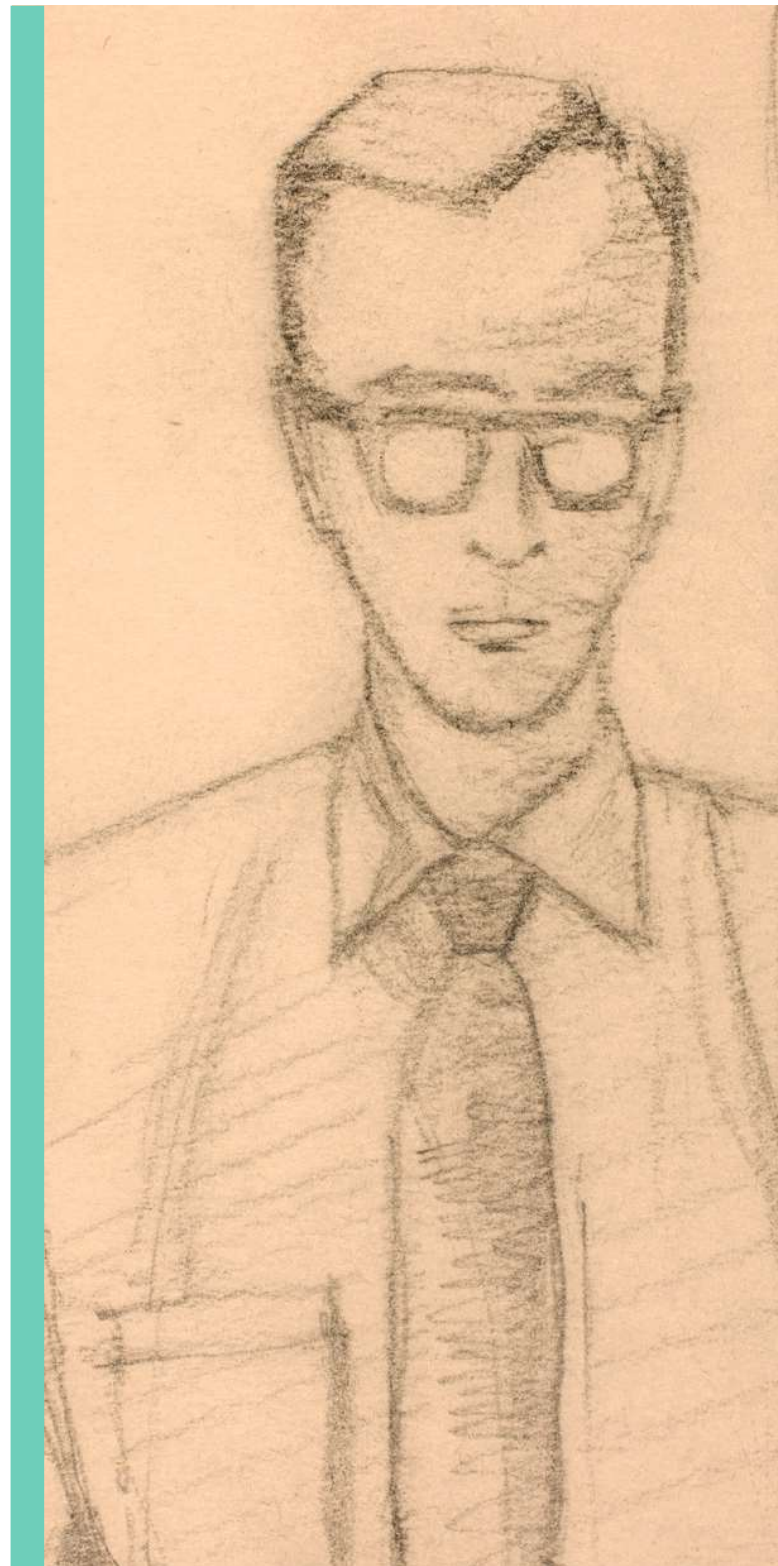
Fraenkel was a leading authority in the field of hydrodynamics. In the 1960s he worked in the field of viscous flows, interested in finding a mathematical description of viscous flow separation from a curved boundary. During this time, he collaborated with Milton Van Dyke on identifying conditions for correct matching of asymptotic expansions.

Fraenkel also worked with Melvyn S. Berger on the problem of describing the shape of steady vortex rings. He undertook further studies of fluid separation, applying functional analytic methodologies, and acted as co-organizer of an important conference on Partial Differential Equations in 1976.

Another of Fraenkel's interests was the study of the electrostatic capacity of bodies and how capacity is affected by asymmetry. He carried out notable work with his gifted student Charles Amick (1952-1991) on problems of Hill's Spherical Vortex.

Over a long and successful career Fraenkel was perhaps best known for his work on a resolution of the long-standing Stokes conjecture for the wave of greatest height first proposed in 1880.

Fraenkel received the prestigious Senior Whitehead Prize of the London Mathematical Society in 1989. He was made a Fellow of the Royal Society in 1993.



The Collection contains an extensive range of material documenting Fraenkel's research and teaching activities at Imperial College London, the University of Cambridge, the University of Sussex, and the University of Bath. It comprises notebooks, lectures, correspondence, drafts and publications, papers relating to visits and conferences, and biographical material. Fraenkel was systematic in his working and in his filing arrangements, so as well as providing a lasting record of his academic achievements, the Collection affords a fascinating insight into the working life and habits of a busy and highly respected professional mathematician.

We are very grateful for the help and support of Mrs Fraenkel, and Professor Toland and Professor Burton of the Department of Mathematical Sciences in making this material available.

A3. Theorem. Let $\theta_\rho \in C_0^\infty(\mathbb{R}^n, \mathbb{R})$ be a smoothing kernel: $\text{supp } \theta_\rho = \overline{B(0, \rho)}$ and $\int_{\mathbb{R}^n} \theta_\rho = 1$.

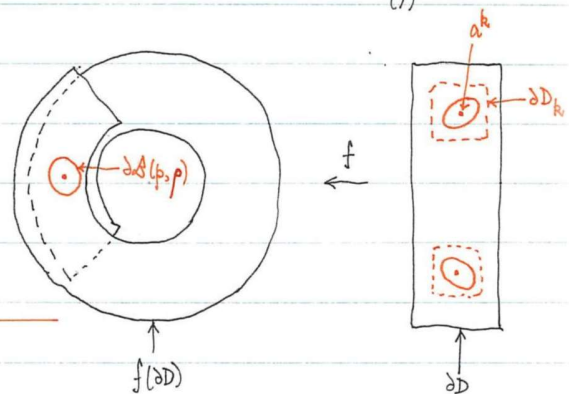
If $p \notin f(\partial D) \cup f(Z)$ and ρ is suff'y small, then

$$\deg(f, p, D) = \int_D \theta_\rho(f(x) - p) J_f(x) dx \quad (7)$$

Proof. Again let $f^{-1}\{p\} =: \{a^1, \dots, a^m\}$.

Since $a^k \notin Z$, \exists a neighbourhood[†] D_k of a^k (for each k) such that the restr'n $f|_{D_k}$ is a diffeo-morphism (a bijection that is C^1 and has a C^1

[†] Here we use the inverse-function theorem.



View contents of the Edward Fraenkel Collection at:

<https://www.bath.ac.uk/corporate-information/edward-fraenkel-collection/>

Watch an interview with Edward Fraenkel at:

<https://www.bath.ac.uk/case-studies/in-conversation-with-edward-fraenkel/>

Old friends reunited: Buchanan and Rolt

Have you ever wondered what an archival collection looks like before it becomes an archival collection?



Over the last 18 months we've been lucky enough to receive two large donations. The first comprises the correspondence and papers of Professor Angus Buchanan (1930-2020) and his wife, Dr Brenda Buchanan (1930-2020). The collection is of great local importance as Professor Buchanan was one of the University's 'founding fathers', joining Bristol College of Science & Technology in 1960 and staying until his retirement in 1995. His pioneering work in the field of industrial archaeology is of national and international significance.

The second collection was donated by Mr. Peter Roberts who over many years has built a comprehensive library of the works of L. T. C. Rolt (1910-1974), an engineer, writer, and campaigner perhaps best known for his involvement with the Inland Waterways Association, the Talylyn Railway Preservation Society, and the Newcomen Society. He was a regular collaborator with Professor Buchanan leading to the establishment of the University of Bath Rolt Fellowship. Rolt was awarded an honorary degree by the University in 1973.

We are delighted and honoured to be able to give these groundbreaking companion collections a home (six large van loads of material in total!). Sorting, cataloguing and repackaging is now underway.

Judo: A Cultural History of Martial Art

The 2020 Olympic Games provided the perfect opportunity to raise the visibility of the Richard Bowen (Judo) Collection. At a time when most of the world was looking towards Tokyo and thinking about sport, in partnership with the Museum of East Asian Art, we designed an exhibition telling the story behind UK judo and the role it has played in shaping our understanding of and attitude towards physical activity, sporting competition and Japan.

Judo became an Olympic sport in 1964 and has been a Paralympic sport since 1988. As the world's best-loved martial art, it has a strong international profile, with participation at all levels and ages on a global scale. Beyond this, judo's inventor Jigoro Kano (1860-1938), regarded it as a way of life, a route to personal wellbeing and the betterment of society.

Judo: A Cultural History of Martial Art, supported by grants from the Great Britain Sasakwa Foundation, the British Society of Sports History, and the Budokwai, opened in July. It features items from the collection assembled by Richard 'Dicky' Bowen (1926-2005), a pioneering judoka who represented Great Britain at the first World Judo Championships in 1956, and set out to document the people, places, techniques, and ideas connected with judo as it had first been imported to the UK from Japan.

The exhibition includes:

- Personal artefacts of Gunji Koizumi (1885-1965), founding father of UK judo,
- Letters written from Japan by Sarah Mayer (1896-1957), the first European woman to train at the Kodokan,
- Records of the foundation of the Budokwai, the UK's oldest judo club,
- Posters and programmes relating to national and international judo events,
- The first judo instruction manuals published in English,
- The judogi of Professor Yasuhiro Yamashita, judo gold medallist at the 1984 Olympic Games and President of the All Japan Judo Federation.

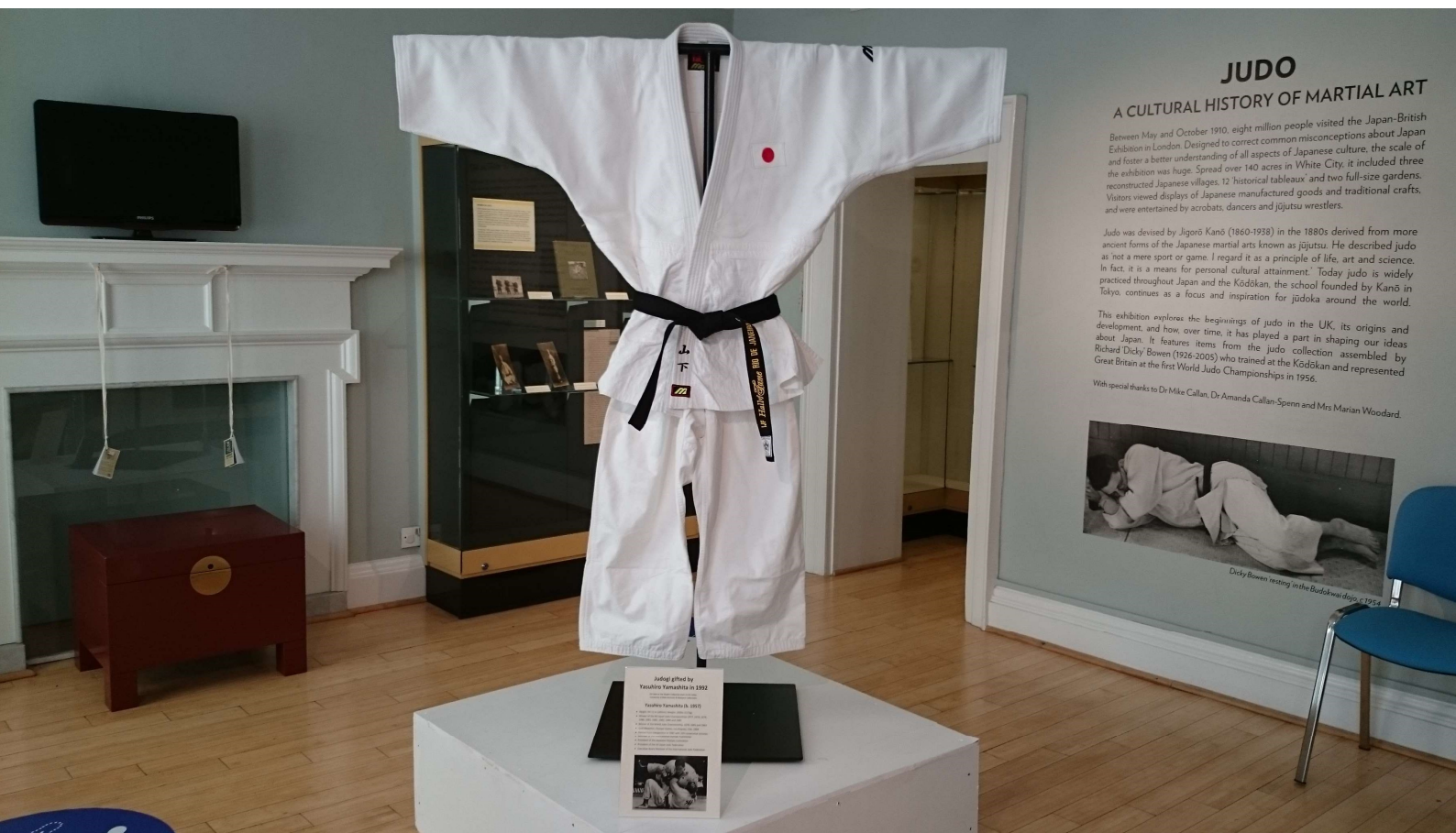
Through the exhibition we hope to promote and share judo's history - in material form - with as many people as possible. By placing items from the Bowen Collection in a new, non-academic setting, and opening it up to wider audiences, we aim to raise awareness of the history of judo in the UK, and stimulate interest in sports heritage generally. Inviting visitors to view judo in a different way, the exhibition challenges perceptions and, we hope, may also inspire further learning.

Find out more about the exhibition at:

<https://meaa.org.uk/>

Find out more about the Richard Bowen Collection at:

<https://www.bath.ac.uk/corporate-information/richard-bowen-judo-collection/>



Cabinet of Curiosities at 50

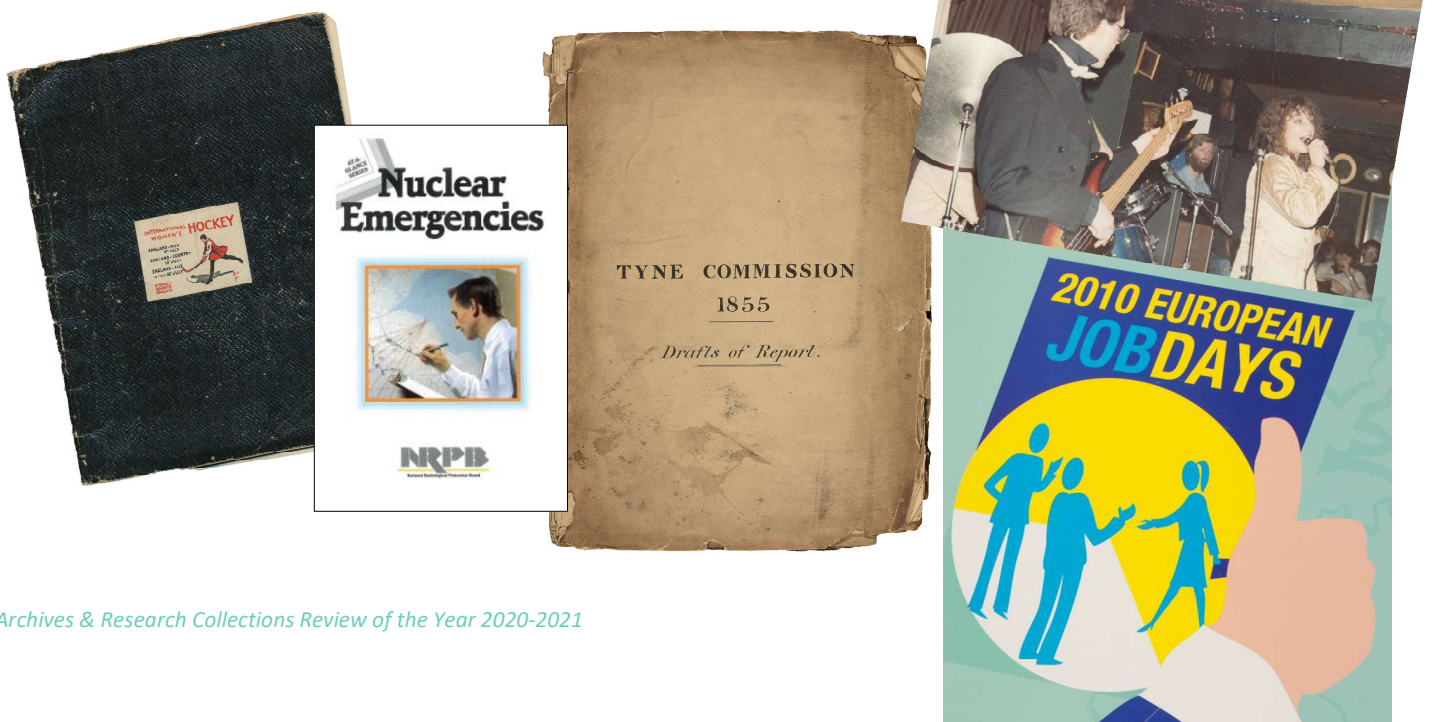
The ever-expanding Archives & Research Collections digital Cabinet of Curiosities is bursting with interesting, amusing and slightly peculiar things. It now contains more than fifty fascinating items chosen by University of Bath students, staff, and alumni, and visiting researchers from the UK and further afield.

Recent additions include European Union posters, a student 'work-in' protest, and what do in a nuclear emergency. Together the Cabinet's contents demonstrate how archives have the capacity to generate new ideas, spark connections, and inspire and support research.

A huge thank you to everyone who has helped build the Cabinet and fill it with wonderful things!

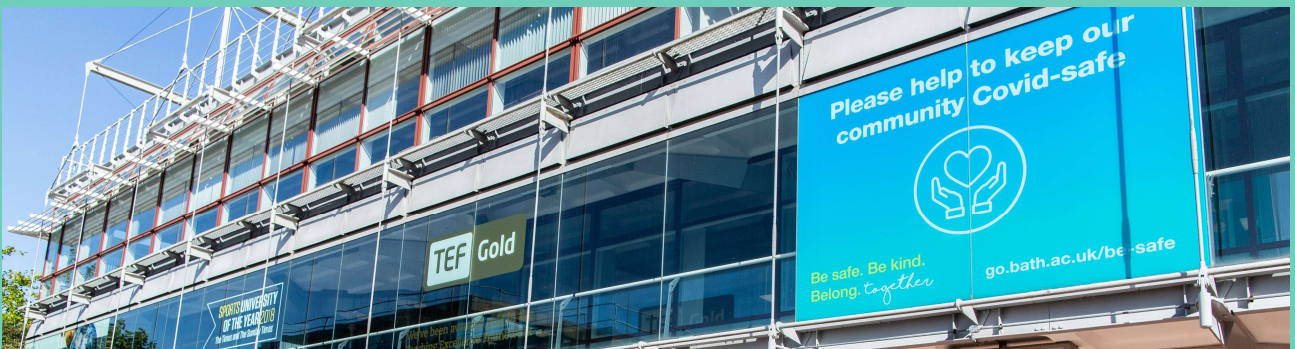
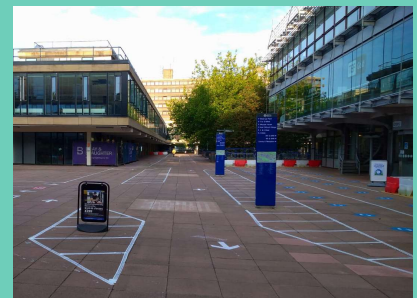
View the contents of the Cabinet of Curiosities at:

<https://www.bath.ac.uk/library/cabinet-of-curiosities/>



Covid collecting

The full impact of the global Covid-19 pandemic has yet to be realised but for most of us 2019/2020 and 2020/2021 were characterized by uncertainty and change. At the University teaching, study, research, Students' Union and extra-curricular activities, well-being and support services, healthcare provision, the maintenance and security of campus buildings and grounds, committee meetings, formal special occasions, working patterns and daily routines all changed dramatically in a matter of weeks. Such change is unprecedented in the University's 55-year history. The long-lasting effects of the pandemic will become clearer in the months ahead, but it was important to try to capture in some way such a sudden, profound and unexpected shift in the shape and operation of the University as it happened. With this in mind, we've assembled a small collection of Covid-related material in the University Archives.



Putting digital archives on the map

We've been moving forward with our digital content. There's still a long way to go, but we have at least put ourselves on the map; the ICA (International Council on Archives) *Archives Are Accessible* world map.

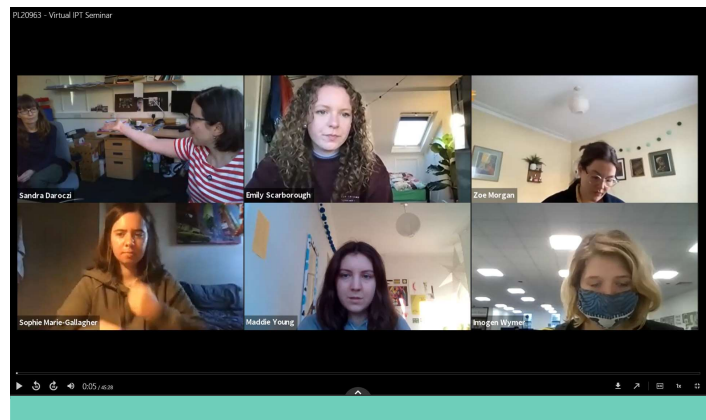
Our first online offerings include women in sport, forgotten buildings of Bath, the SS Great Eastern, EU posters, and a modern pentathlon poster quiz.

See more digital archives at:
<https://archives.bath.ac.uk/>



Online teaching with PoLIS

We were very happy to continue collaborating with Dr Sandra Daroczi and her colleagues in the Department of Politics, Languages & International Studies (PoLIS). This year's teaching looked a bit different - our 'Archives up close and personal: A hands-on session' became 'Archives up close and personal: A hands-off hands-on session' - but as usual it was great to interact with second year and final year undergraduates and hear their thoughts on and reactions to some of the archival material we look after.



The Remembering Tree

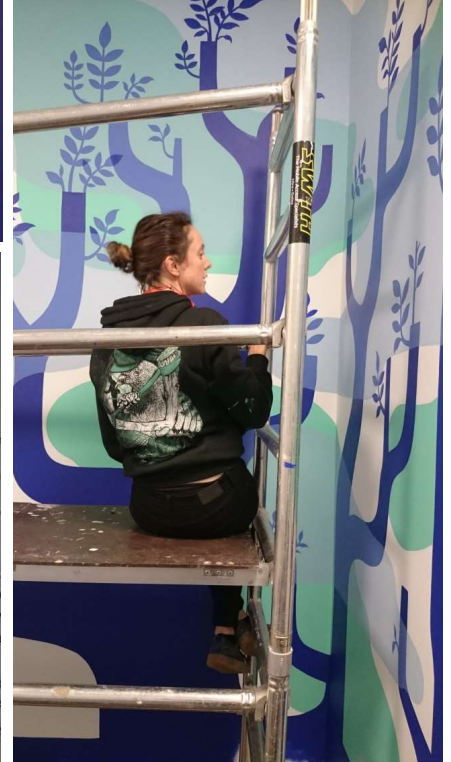
After two years of preparation - lots of patience, persistence, surveying, and piecing together of information by the Memorial Trees Working Group - Bristol-based artist, the amazing Zoë Power visited the Library to paint a specially commissioned Remembering Tree mural.

Memorial trees have been planted on Claverton Down campus since the earliest years of the University's existence. In the shape of many different species, from copper beech and walnut to silver birch and crab apple, they remember individuals and groups, students, staff, colleagues, family, and friends across five decades. Some signify happy memories, some sad. Some are visited privately by loved ones, others are the focus of a more formal, ongoing relationship with the University. In many cases they represent a living, deeply valued link to the campus community.

Over the years, as the campus has grown and developed, it's been necessary to move and replace some memorial trees, but they continue as a lasting reminder of the strong connection between people and place. It is to honour this legacy of remembrance that we commissioned an original artwork for the Library.

The Library is home to the University's memory (archives) so it's fitting that our Remembering Tree, offers an opportunity to pause and look back. It stands for more than 80 trees planted around campus between 1966 and 2016 and is dedicated to members of the University of Bath community no longer with us.



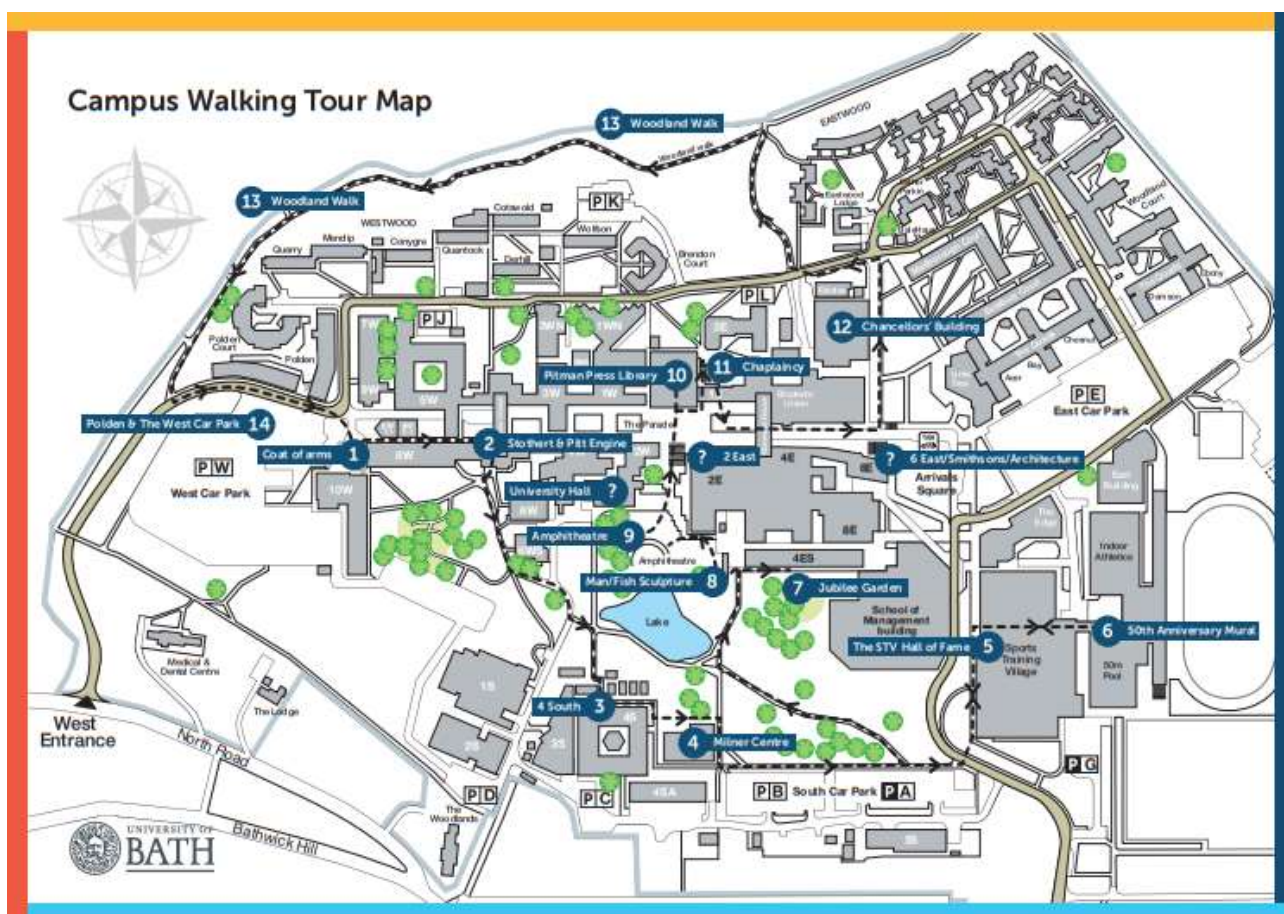


EVLES, Daryl	EASTON-ORR, Robert	NASH, Josh	ROTHERHAM, Leonard
HANCOCK, Roy	BAKOWSKA, Mariola	THOMPSON, Jeff	FOOTE, Enrico
LEWIS, Dudley	RUSSELL FLOYD, Richard	ROSE, Mike	HILL, Patrick
BALL, Maurice	ODDY, Geof	VINCENT, Bill	STANFORTH, John
HINKIN, Paul	DOBSON, Martin	BARNES, Vera	CLEAVES, Jack
POMEROY, John	PERKINS, Maurice	LEWIS, John Owen	SELF, Colin
BLACK, Joseph	GUT, Christian (Chris)	SHAH, Kris	KANGALEE, Edward
MOORE, George Herbert	BALL, Frank	CARTER, Josh	BRYANT, Wendy
BURGESS, Edna	RILEY, Mark	MATTHEWS, Paul Taurton	TZIMAS, Georgios
MACLACHLAN, Lisa	HARDY, Alexander	CLIFFE, Stanley	WRASBITZKI, Patrick
HARTELL, Roland (Harry)	BOWEN, Bill	COLES, G	BROOKS, Clive & Mabel
SOPER, Colin	TURNER, Julie	OGILVIE (MAYSON), Hilary James	ELLISON, Mark
HUNT, Brian	DOWNES, Kevin	KURTENBACH, Klaus	TRUSSELLE, Meloria
MALINOWSKI, Andrew Tadeusz	SALTER, Pat	PATTERSON, Darrell	HICKS, Robert
COBB, Sid	WHETHERLEY, Dy	HARDISTY, Martin Weatherhead	THOMPSON, Geoff
AYERS, Maurice	BEERE, Michelle	PETERS, Mervyn	DOWNS, Simon
SMIE, Ann	HULBERT, Leslie	BROADBENT, Leonard	PARKER, Kathy
WIES, Meurig	QUAYLE, John Rodney	JONES, Jackie	KEARTON, Frank
STER, Margaret	YASIN, Osman	BROOM, Dave	WEBSTER, Mary
CHEM, Claire	INGLETON, Betty	SAUNDERS, Cliff	HUNTER, Gemma
D, Alison (Lally)	ROBINSON, John (Robbie)	BURTON, Nancy	WHITEWAY, Barbara
TON, Megan	JACKSON, Diane	RICHARDSON, Nigel	IRVING, Iris
NOVA, Tanya	DAVIES, Dai	HAUGL, Dag	WISSON, Lot
AN, Dick	POON, Lyric	JAYANANTHAM, Kharunigam	WALLACE, F
	JONES, Delia	ASH, Walter Bryan	YATES, Mar



Campus walking tour

As part of the 2021 Summer at Bath programme we worked with the Communications team to create a self-guided campus walking tour. It aimed to celebrate the University as place and reintroduce staff and students to a space some of them hadn't visited for many months. Walkers were encouraged to explore the campus with a fresh set of eyes, discover hidden gems and learn a bit about the University's history.



Download a copy of the campus walking tour at:

https://www.bath.ac.uk/publications/campus-walking-tour/attachments/DOWNLOAD_Campus_Walking_Tour_Map.pdf

Facts and figures

Visits to the Archives & Research Collections reading room were restricted during 2020/2021 owing to the Covid-19 pandemic.

New accessions: Professor Angus Buchanan (additional research papers)
 Dr Brenda Buchanan (additional research papers)
 Mr Peter Roberts L. T. C. Rolt library

Total holdings: 1.684km (excluding map chests).

Archives & Research Collections also appearing in...

- 'Ludwig Edward Fraenkel,' G.R. Burton and J.F.Toland, *Biographical Memoirs of Fellows of the Royal Society*, **69**, pp175-201, 2020
 - Know Your Place (Bath): <http://www.kypwest.org.uk/>
 - Library Instagram @unibathlib
 - Lecture entitled 'Late 20th Century English University Landscapes' by Hal Moggridge for the Gardens Trust Series on Post-war Designed Landscape, March 2021
 - Undergraduate research on Tang Soo Do
 - Research for a tv programme on the Enfield Poltergeist and spoon bending experiments carried out in the University's psychology laboratory in 1975
 - A student memoir relating to the early 1980s
 - *Cherishing Our GW4 Treasures*: <https://gw4.ac.uk/opinion/cherishing-our-gw4-treasures/>
 - University Twitter @UniofBath
 - A Strategic Governance audit of amendments to the University's charter and statutes
 - A national governing body database of all England and Great Britain women's hockey caps
 - BA2 Issue 29
 - Undergraduate research on Claverton Pumping Station
 - University of Bath Library @BathUniLibrary
 - MSc student assignments on the buildings of Woodchester
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Library



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