Imperial College

170 Queen's Gate

Building information and artwork

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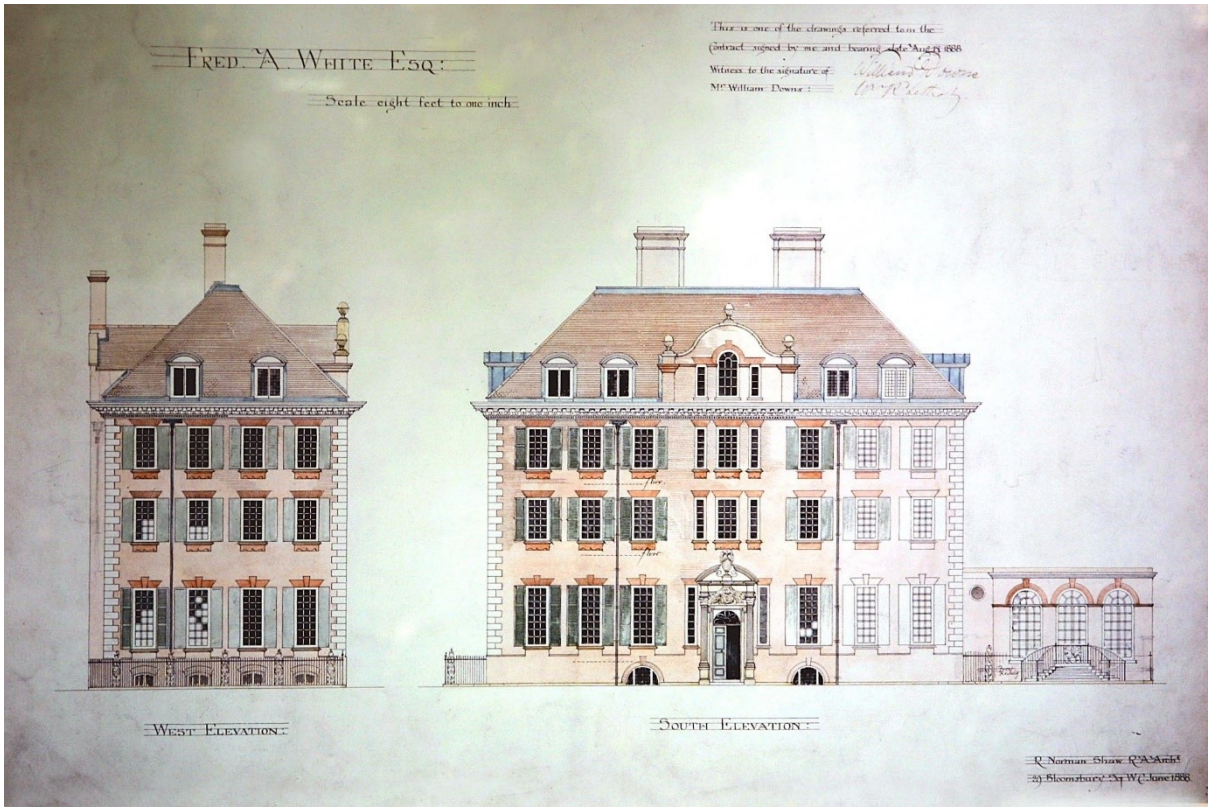
Introduction to 170 Queen's Gate

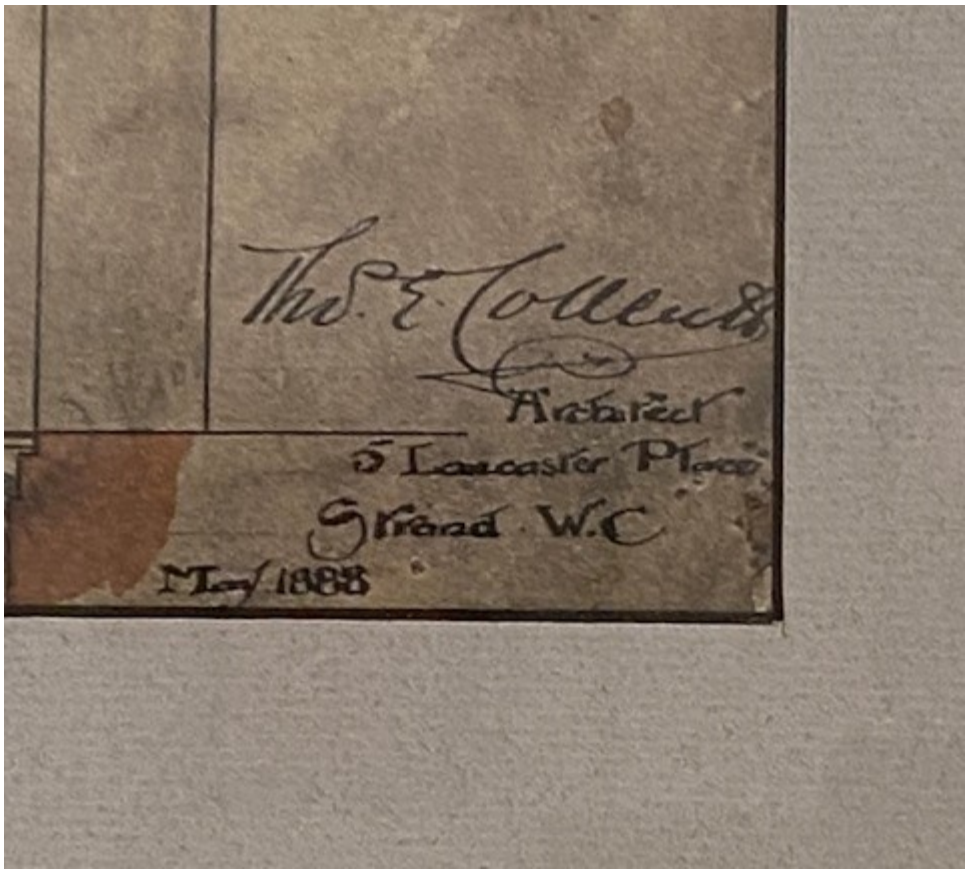
Richard Norman Shaw was the architect for 170 Queen's Gate, although the owner, cement manufacturer Frederick Anthony White, designed much of the interior detail. Completed in 1889, external details include the initials of F.A. White and his wife on the rainwater heads on the south façade, and armorial bearings, possibly related to F.A. White, or another member of the White family are above the door. The house sale document from 1925 shows the interior was sumptuously decorated and used as a family home.

The house has had only 4 owners: F.A. White leased 170 from the 1851 Royal Commission (ground landlords) 1899-1905; F.A. White owned 170 1905-1925; 6th Marquess of Anglesey: owner 1923-1947 and Imperial College London 1947 -, which leased 170 to the Secretarial Appointments Bureau 1938-1960. On Imperial taking possession, the ground floor was designated for use by the Governing Body (Council) and lodgings for the Rector (President). In 2024, 170 was adapted for staff and event use.

Entrance Lobby



170 Queen's Gate: 2 Elevation drawings



Detail of Queens Tower architectural drawing, Thomas E Collcutt’s signature

On Staircase

Emeritus Professor of Cardiac Pharmacology Sian Harding
Fellow American Heart Association; Fellow European Council of the International Society for Heart Research
BSc 1977; PhD 1981 King's College London; Chair Cardiac Pharmacology 2007 Imperial College
Professor of Cardiac Pharmacology at the National Heart and Lung Institute Imperial College, and Director of the Imperial Cardiac Regenerative Medicine Centre
Interim Head NHLI 2018
Specialisms cardiomyocyte function in the failing heart. This has extended to gene therapy to modulate cardiomyocyte function.

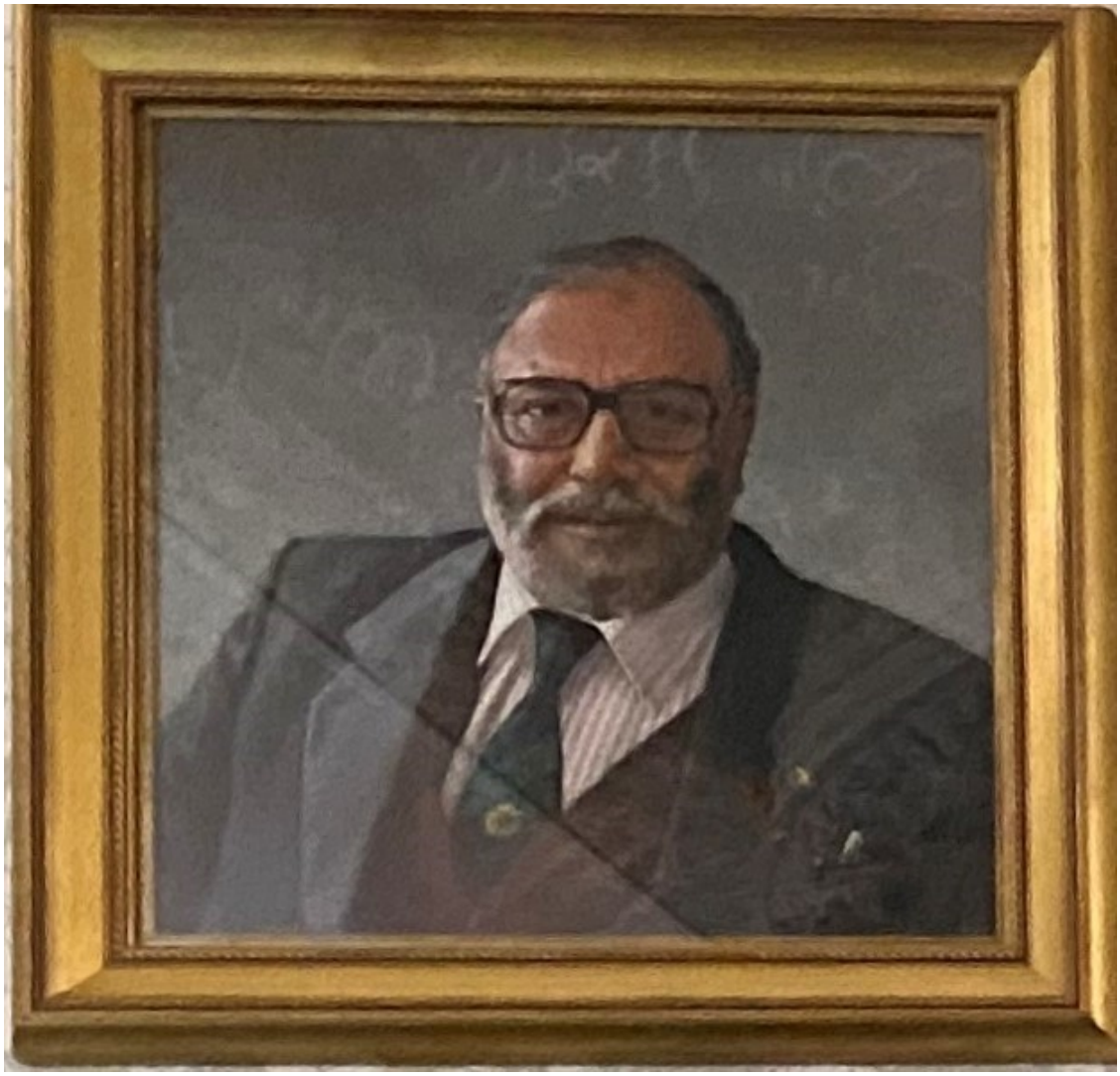
Past-President of the European Section of the International Society for Heart Research; Board member British Society for Gene and Cell Therapy; Fellow to the AHA, ESC and ISHR. Special Advisor to the House of Commons Science and Technology Select Committee on Regenerative Medicine CGT Catapult: Pluripotent stem cells programme Advisory Panel member

BSc 1977; PhD 1981 King's College London; Chair Imperial College 2007

Artist: Keith Holmes is a conservator and an artist who has run his own printing press, but now concentrates on scientific portraiture, bringing out the character of the scientists and the tools of their trade in his work. He meticulously researches each sitter and their work. Keith's artworks can be found in the Science Museum, the British Library, Victoria & Albert Museum and Trinity College Dublin.

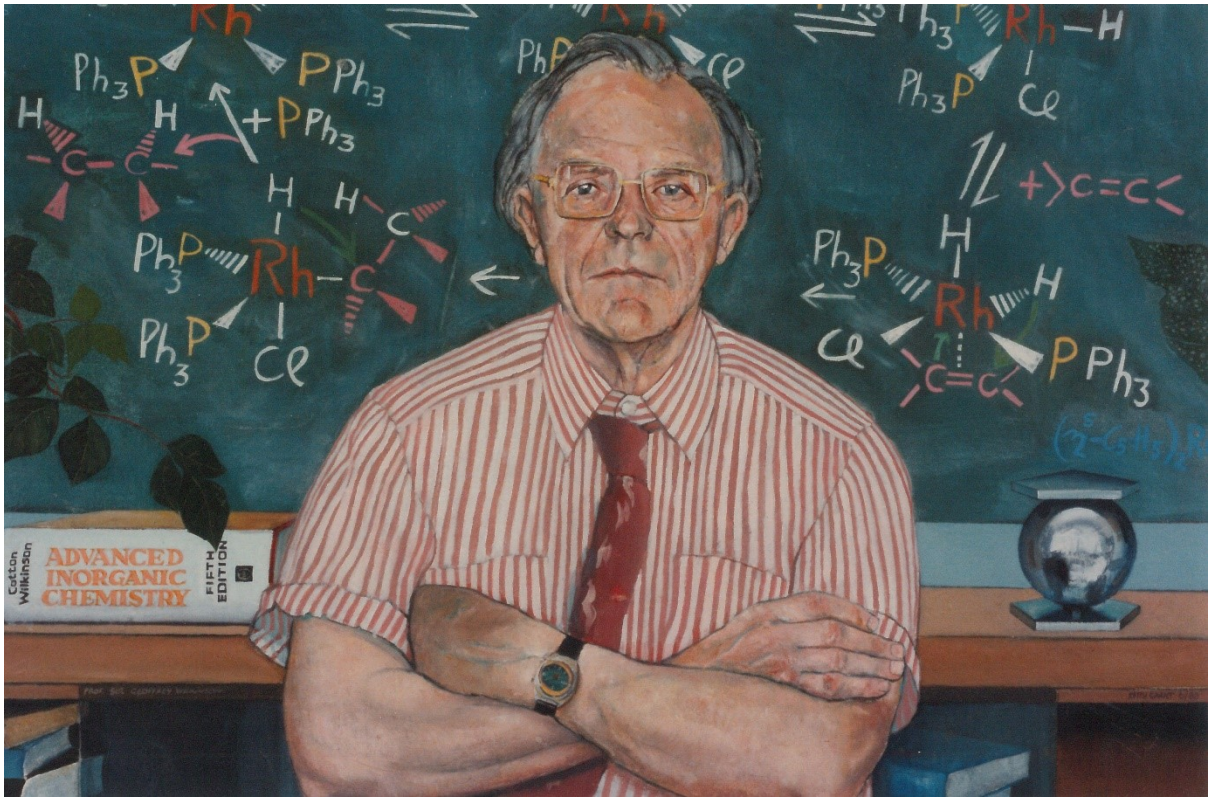
Council Room

North Wall



Professor Sir Abdus Salam 1926-1996

Born 1926 in what is now Pakistan, student Cambridge University 1946- his PhD. appointed Professor of Applied Mathematics at Imperial 1957. His work concerned quantum electrodynamics and quantum field theory, and he contributed to the formulation of the 'Standard Model' of particle physics. Nobel Prize for Physics (jointly) 1979, for his contribution to the electroweak unification theory. A champion of science in developing countries, he founded the International Centre for Theoretical Physics in Trieste in 1964, providing the opportunity for scientists from developing countries to attend and interact with leaders in the field.
Scientific advisor to the Ministry of Science and Technology in Pakistan 1960 to 1974, and founding director of the Space and Upper Atmosphere Research Commission (SUPARCO), responsible for the establishment of the Theoretical Physics Group (TPG) in the Pakistan Atomic Energy Commission (PAEC)
Artist: Unknown



Professor Sir Geoffrey Wilkinson (1921-1996)
FRS

Imperial College UG 1941; PhD 1946**;** Chair of Inorganic Chemistry 1955-1988
Nuclear Energy Project Canada 1943-1944; Nuclear Chemistry Berkely 1946-1950, MIT 1950-1951 and Harvard 1951-1955; University of Copenhagen 1955-1956. Continued into Nobel Prize for Chemistry 1973 jointly for the discovery of the structure of ferrocene. Work on Organometallic compounds. Wilkinson's catalyst used industrially in catalytic hydrogenation. Knighted 1976

Wrote the standard textbook on Inorganic Chemistry with Albert F. Cotton *Basic Inorganic Chemistry 1955*, *Advanced Inorganic Chemistry* 1962 continued into many editions. Wilkinson Hall of Residence Eastside named after him in 2009.

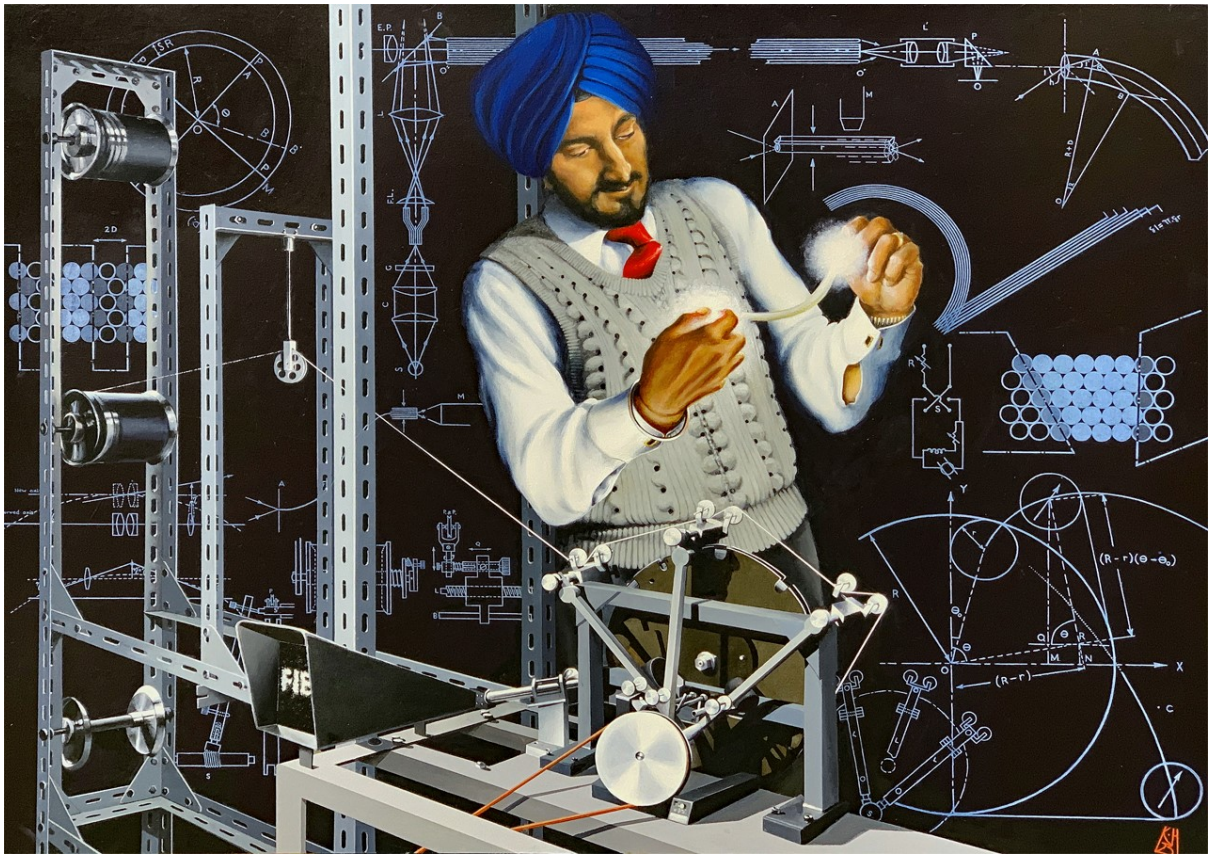
Professor Dame Julia Stretton Higgins DBE FRS FREng
Emeritus Professor Polymer Science and Senior Research Investigator.

Julia believes there is a payback for enjoying research; in her case, it is the joy of teaching and finding innovative ways to encourage students to develop in engineering.

Joined the Department of Chemical Engineering as Lecturer in 1976. Appointed only the 3rd woman professor at Imperial College in 1989. College Tutor 1990-1993. Dean City and Guilds College 1993-1997. Principal Faculty of Engineering 2003-2007. Director Graduate School Engineering and Physical Sciences 2022-2006. 1st Chair the UK Athena Project 199; championed the Athena Swan Awards at Imperial and women's equality. 1st woman to be awarded Fellowship of both the Royal Society and the Royal Academy of Engineering. Vice President Foreign Secretary of The Royal Society 2001-2006. President Institute of Physics 2017-2019.

Portrait background: Julia's Thames view, her scarf represents involvement in the High Polymer Research Group, the pattern is of a polyethylene module, reflecting her work as a polymer scientist. Her lapel badge represents the Royal Academy of Engineering; 3 books represent institutions central to her career – 1. Somerville College, Oxford, 2. *The History of Imperial College London 1907-2007*, by Hannah Gay, 3. The Royal Society

Artist: Tess Barnes states:
'I am passionate about portraiture, and for me the art is to capture the 'essence' of the individual, not just their physical features but also the unique way that they express themselves.' 2014Women's portraiture 2014-2018 championed by the 1st Provost Professor James Stirling, and his Envoy for Gender Equality,Professor Dot Griffiths OBE assisted by Anne Barrett University Archivist & Corporate Records Manager.



Narinder Singh Kapany (1926-2020)

Narinder Singh Kapany (1926 to December 2020) born in Moga, Punjab. Graduated from Agra University; joined Imperial College in 1952 as a PhD student of Harold Hopkins (1918-1994). In collaboration with Hopkins, he researched transmission of images via fibre optics and devised an unclad optical fibre assembly which allowed high quality image transmission over short distances, for which his PhD Was awarded in 1955.

Kapany first used the term fibre optics, (spelt fiber) in a *Scientific American* article in November 1960, summarising that, *"If light is directed into one end of a glass fiber, it will emerge at the other end. Bundles of such fibers can be used to conduct images over a tortuous path and to transform them in various ways."*
His work laid the foundation for endoscopy, pollution and medical monitoring, diagnoses, imaging, computing and high-speed internet technology.
On moving to the America, he held posts at prestigious academic institutions and also founded electronics companies. In 1962, he co-founded the Sikh Foundation International in California, with the mission to preserve and promote Sikh heritage.
Awards: 1998: The Excellence 2000 award Royal Academy of Engineering;1999: *Fortune* one of seven 'Unsung Heroes of the 20th century issue;1999 Time Magazine's one of top ten scientists of the 20th century
2008 Pravasi Bharati Award by the Indian Government, an Honorary Doctorate by the Guru Nanak Dev University, the Fiat Lux Award by the University of California
2019 Asia Game Changer West Award
2021 Posthumously awarded India's second-highest civilian award, the Padma Vibhushan
Named one of the seven "Unsung Heroes" of the 20th century by Fortune magazine, he is a role model for many in the Imperial community.
Artist: Keith Holmes 2023 Three quarter standing pose with equipment from a 1950s photograph background creation of his equations.

Sir Keith O'Nions (1944-) President and Rector 2010-2014
FRS, Hon.FREng
Rector 2010 – 2012 President Rector 2012 – 2014
Geology/Earth Sciences

Knighted for services to Earth Sciences 1999
Chief Scientific Advisor to the Ministry of Defence 2000-2004
Director General, Science and Innovation, and Chief Scientific Advisor
Department of Trade and Industry late, Department for Innovation Universities and Skills to 2008; Board of A* Star and the Board of Trustees of Nanyang University Singapore; First Chair British Geological Survey Board 2017-

In changes to the management structure of Imperial College, developed the roles of President Rector and the post of Provost; Continues to support Imperial College Music.

Artist: Paul Brason (b.1952)
Oil on canvas

Sir Richard Sykes (1942 -)
DSc, FRS, FMedSci, HonFREng
Rector 2001-2008
Biochemistry, biotechnology

Chief Executive and Chairman of GlaxoWellcome 1995-2000, then Chairman of GlaxoSmithKline until 2002. Knighted 1994 for services to the pharmaceutical industry. As Rector, introduced: the Faculty System; developed campuses architecturally, including Norman Foster designed main Entrance and Faculty Building for College Administration, South Kensington Campus; development of the UK's first Academic Health Science Centre in partnership with Imperial College Health Care Trust; Presided over the Imperial College Centenary 2007 and the celebration of Imperial being constituted a University in its own right, with degree awarding powers; 2004 awarded Honorary Citizenship of Singapore for services to development of their biomedical services industry. Chairman Royal Institution of Great Britain 2010-; Chancellor Brunel University 2013-; Chairman UK Stem Cell Foundation.

Three quarter length, standing, in shirt and tie with the Queen's Tower reflected in the windows of the Sir Alexander Fleming Building South Kensington Campus

Artist: Paul Brason (b.1952) 2007
Oil on canvas

East Wall

There are no portraits for the first Rector, Sir Henry Taylor Bovey (1850 – 1912) Rector 1908 – 1910; nor for Professor Sir Owen Saunders (1903 – 1993) Rector 1966 – 1967; nor for Professor Sir Roy Anderson (1947 -) Rector 2008 – 2009.

Sir Alfred Keogh (1857–1936)
GCB, GCVO, CH, LLD
Rector 1910-1922
Medicine
Deputy director-general, Army Medical Services 1902; Director General
Army Medical Services 1905 -1910.Recalled WWI 1914-1918
Founded Imperial College Women's Association 1912

Modernised the Army Medical service and liaised with civilian authorities to improve their services and prepare the nation's health care for war time emergencies. (Collaborated on this with the then Secretary of State for War 1905-1912, Richard Burdon Haldane 1st Viscount Cloan, influential in the creation of Imperial College London 1907.)
Keogh was recalled to the Army Medical Corps WWI 1914-1918, retaining close communication with Imperial, and returned to a warm welcome. Implemented modernising pastoral care for staff and students. Initiated Imperial College Women's Association 1912 and supported the professional role of women in academia.

Artist: Copy of portrait by Arthur Hacker RA (Original with RAMC)
Oil on canvas 91.5 x 71cms.

Sir Thomas H. Holland (1868–1947)
KCSI, KCIE, DSC, LLD, FRS
Rector 1922-1929
Geology

Indian Geological Service 1890-1910; Professor of Geology and Mineralogy Manchester University 1910-1916; President Indian Munitions Board 1916-1922.
Negotiated equality of Imperial's Associateships as internal degrees with University of London BSc. 1926. Influential in the establishment of the College Hostel, the first student hall of residence, 1926

Artist: Stanley Cursiter (1887-1976), Portrait 1954
Oil on canvas

Sir Henry Tizard (1885 – 1959)
GCB, AFC, MA, LLD
Rector 1929 – 1942
Chemistry and Mathematics
WWII Tizard Committee, Development of Radar

Influential in national scientific institutions, worked in aeronautics and began working on radar before WWII. Led the Tizard Mission to America in 1940, an important technical information sharing mission, that included information about radar and the jet engine. Continued working for Imperial during WWII, seeing Imperial's expansion as a necessity, retained the central campus 'island site' solely for Imperial's use, oversaw purchase of Harlington athletic grounds and Silwood Park Field Station.

Half length, seated, robes of Doctor of Civil Law, University of Durham
Presented to College by Civil Engineering Department 1955
Formerly hung in Tizard Hall

Artist: Cuthbert Orde (1888-1968)
Oil on canvas

Sir Richard Vynne Southwell (1888 – 1970)
MA, LLD, FRS
Rector 1942 – 1948
Mechanical Sciences

WWI Royal Naval Air Service post war Head of the Aerodynamics and Structures Divisions. Royal Aircraft Establishment Farnborough. The National Physical Laboratory 1920, Trinity College Cambridge as Fellow and Mathematics Lecturer 1925. Professor of Engineering Science and Fellow of Brasenose Oxford 1929, there he developed a school of research. A member of many governmental technical committees, including the Air Ministry in relation to the airships R.100 and R101.

Half length, seated, brown suit
Presented to College by son of Sir Richard (also Sir Richard Southwell)

Artist: Henry Lamb RA (1883-1960), Signed Lamb/54
Oil on canvas

Sir Roderic M. Hill (1894–1954)
KCB, MC, AFC, MA, LLD
Rector 1948-1954
Aeronautics
RAF Air Vice Marshall

During 32 years' service with the Royal Flying Corps and the RAF he was awarded the Military Cross and the Air Force Cross for his work as an experimental pilot.
In WWII he was Director of Technical Services to the British Air Commission in Washington 1941–1942; Commander in Chief of Fighter Command, continued flying on operations. His action in moving the British guns to the coast during WWII saved London from many of the flying bombs.

As Rector he introduced cultural activities under the name *Touchstone* and devised the 1950s-1960s Imperial College Expansion Scheme.
Chancellor of the University of London 1953.

Artist: John Robert Swan (1888 – 1980), portrait 1955
Oil on canvas

Sir Patrick Linstead (1902–1966)
CBE, DSC, HONDSC, DIC, HONFCGI, HONMIMM, FRS
Rector 1954-1966
Organic Chemistry

Chemistry Imperial College BSc and PhD. 1920-1926; Demonstrator, then Lecturer 1929-1938; Harvard 1938-1945, but involved in UK WWII explosives research; Deputy Director Ministry of Supply; Chemical Research Laboratory Teddington 1945-1949; Professor of Organic Chemistry Imperial College 1949-1954; Head of Department 1954; Dean of Royal College of Science 1953. His external work included board membership of many committees including the London School of Economics and the National Gallery. He took on the work of the College Expansion Scheme and is depicted with the plans in his hands.

Linstead Hall of Residence, Eastside, Couth Kensington Campus is named after him.

Artist: Edward Irvine Halliday (1902-1984)
Oil on canvas

Rt Hon. Lord William Penney (1909-1991)
OM, KBE, MA, PHD, DSC, HONFCGI, FIC, FRS
Rector 1967-1973
Mathematics

Student at Imperial: BSc and PhD in mathematics. Assistant Professor of Mathematics 1936-1945, also working for the Admiralty, studying underwater blast waves and assisting design of the mulberry harbours used during the 1944 Normandy landings. Released from Imperial, Penney worked on the development of the combined Allied and British atomic bombs. Post war he worked in the nuclear industry becoming a board member of the newly formed United Kingdom Atomic Energy Authority, then its Chairman 1964–1967. He did not leave any personal papers, destroying them shortly before he died. The Department of Computing's William Penney Laboratories opened on the South Kensington Campus in 1988, currently housing the Data Institute, and a hall of residence is named after Penney at Silwood Park.

Artist: Sir Robin Darwin (1910 – 194), portrait 1972
Oil on canvas

Albert, Prince Consort (1819 – 1861)

Prince Albert was closely associated with the Royal College of Chemistry (founded 1845) and the Royal School of Mines (founded 1851), and also the development of South Kensington as a site for education in science and the arts.

Artist: Franz Xavier Winterhalter. Copy presented to Imperial College by Queen Elizabeth II in 1957; hung in Imperial Institute; Balmoral 1933 – 1950; Original at Windsor Castle.

Oil on canvas. Royal Collection.
Three quarter length, standing, military undress uniform; Order of the Golden Fleece

South Wall

Rt Hon. Lord Brian Flowers (1924-2010)
MA, MSC, DSC, HONDSC, FINSTP, HONFIEE, HONFCGI, FIC, FRS
Rector 1973-1985
Physics

Undertook work on atomic energy in Canada and the UK 1944- 1950, then Department of Mathematical Physics University of Birmingham; appointed Professor of Theoretical Physics University of Manchester 1958. He was knighted in 1966. Created a life peer: Lord Flowers of Queen's Gate in the City of Westminster 1966. He and his wife Mary played an active role in College, with staff and students, being famous for the bangers and beer parties on the Queen's lawn and for entertaining groups of students in the Rector's apartment at 170 Queen's Gate. 2 student halls of residence are named after Brian Flowers and Mary Flowers at Silwood Park, and the multidisciplinary life sciences research facility named the Flowers Building on the South Kensington Campus in 2000. Chairman of the Committee of Vice Chancellors and Principals 1983–1985; Vice Chancellor of the University of London, 1985–1990. He was a founder member of the Social Democratic Party.

Artist: Kyffin Williams RA ,1985
Oil on canvas

Sir Eric A. Ash (1928-)
CBE, FRS, FRENG
Rector 1985-1993
Electrical and Electronic Engineering

Sir Ash was Rector of Imperial College between 1985 and 1993. In his time as Rector, he expanded the College's educational remit to include Medicine, through the merger with St Mary's Hospital Medical School.

Artist: Sue Ryder (b.1944), 1993
Oil on canvas

Lord Ernest Ronald Oxburgh (1934-)
KBE, FRS
Rector 1993-2000
Earth Sciences

Lord Oxburgh was appointed the Rector of Imperial College in 1993. Amongst other achievements, he formed the Imperial College School of Medicine through amalgamating with the National Heart and Lung Institute (1995), the Charing Cross and Westminster Medical School and the Royal Postgraduate Medical School (1997) and the Kennedy Institute of Rheumatology (2000).

Artist: David Poole (b.1931), 2001
Oil on canvas

West Wall

Professor Alice Petry Gast (1958-)
FAAS;FRAE;FCGI; Fellow Académie des Technologies France; US National Academy of Sciences member
Chemical Engineer: interests in surface and interfacial phenomena, particularly the behaviour of complex fluids

President of Imperial College London 2014-July 2022. Professor Emeritus of Chemical Engineering at Imperial and advises venture capitalists and venture philanthropists. President of Lehigh University, Pennsylvania USA 2006 -2014. Vice-President for Research and Associate Provost and Robert T. Haslam Chair in Chemical Engineering Massachusetts Institute of Technology 2001 – 2006. Professor of chemical engineering and affiliated faculty at Stanford Synchrotron Radiation Laboratory Stanford University 1985 – 2001; US Science Envoy to Central Asia 2010 Independent Board Director Chevron Corporation 2012-

Three quarter length standing. Depicts public speaking role and Imperial's stance as an international community. It portrays the role of the president as an advocate for their university and policies supporting its mission.

Artist: Nicholas J Smith (1973-) 2022

Oil on canvas

Above Fireplace

Sir Ernst Boris Chain (1906 -1979) FRS; **FRSA**
Biochemistry 1964-1979

Refugee from Nazi Germany in 1933; Naturalised British Citizen 1939.

Graduated in chemistry and physiology Friedrich Wilhelm University Berlin 1930. Pathology Institute at Charité Hospital Chemistry PhD 1933; Department of Chemical Pathology at University College Hospital Medical School, London, under Charles Harington 1933; Cambridge University with Sir Frederick Gowland Hopkins 1933-1935, PhD 1935; Demonstrator: Sir William Dunn School of Pathology Oxford University 1935, Demonstrator and Lecturer 1941. There Collaborated with Howard Florey investigating micro-organisms properties, which led to their study of penicillin. Nobel Prize for Physiology or Medicine in 1945 “for the discovery of penicillin and its curative effect in various infectious diseases”, shared equally with Sir Alexander Fleming (St Mary’s Paddington Bacteriology discoverer of penicillin) and Sir Howard Florey. Chain and Flory devised methods of synthesising penicillin for therapeutic use. Istituto Superiore di Sanità in Rome worked on semi-synthetic penicillins and fermentation technology 1948-1961.Appointed in 1961, Chain founded and opened the the Department of Biochemistry Imperial College in 1964. He created it as a leading international centre for physiological biochemistry, focussed on fermentation technologies building a fermentation pilot plant of semi-industrial dimensions, a forerunner of industrial biotechnology. Retired 1973; Senior Research Fellowship 1973-1976.

Digital Copy of the portrait in the National Portrait Gallery Purchased, 1988 NPG 5989 © estate of Lotte Laserstein Licensed © DACS 2022 for use for 10 years to 2032
Artist Lotte Laserstein
Oil on canvas, 1945
25 3/4 in. x 31 5/8 in. (654 mm x 803 mm)

Drawing Room

North Wall

Professor Dorothy (Dot) Griffiths OBE FCGI FRSA

Emeritus Professor of Human Resource Management and Head of Programmes
Joined Imperial as Lecturer in Industrial Sociology 1969 and was at the forefront of radical thinking about social responsibility in scientific work and women in society; Founding Editor of the journal *Feminist Review* 1979, currently Chair of Trustees Feminist Review Trust.
1970s set up the 1st ever Women in Science Group and was the only Imperial College member. Developed national and local initiatives for women in STEM, including Imperial's Academic Opportunities Committee, establishing the Faculty Women Ambassador's Scheme and the annual Athena Lecture. Chaired the Imperial College Athena Swan Committee. In 2018, Imperial held institutional Silver, with 9 Bronze, 7 Silver, and 1 Gold departmental awards.
Instituted the Julia Higgins Medal and Prize in 2013 and awarded to Dot in 2016
Provost's Envoy for Gender Equality 2014-2016.
Created Women@Imperial Week annual event coinciding with International Women's Day
2002 Professor and Deputy Dean and Head of Programmes Imperial College Business School
Dean Imperial College Business School
2014-Chair Central and Northwest London NHS Foundation Trust

Portrait background: Dot's study with her beloved cats, books important to her including *Women At Imperial College Past, Present and Future* by the University Archivist Anne Barrett; commissioned by Dot Griffiths and Julia Higgins, *The Feminist Review*

Artist: Tess Barnes. Oil on Canvas

East Wall

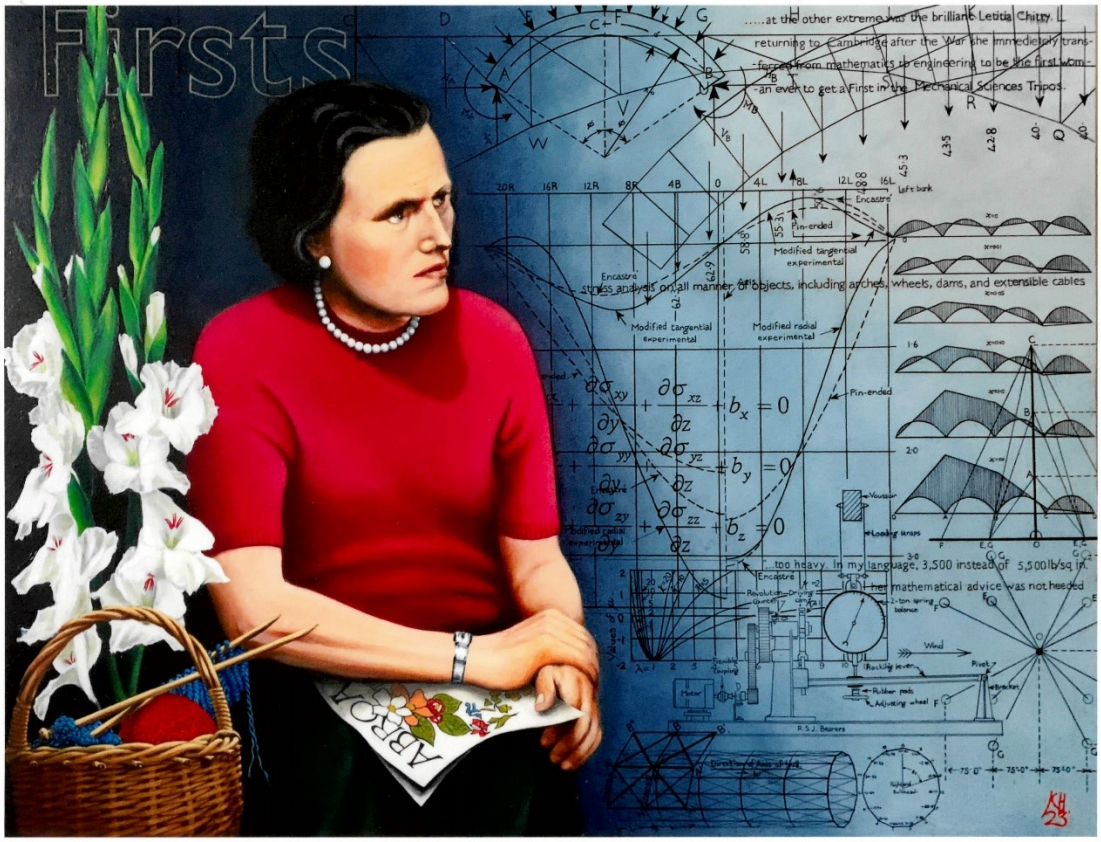
Professor Sir Tejinder Virdee FRS

Standing in front of the opening CMS experiment, Large Hadron Collider CERN, Geneva

Tejinder (Jim) Virdee, is Professor of Physics at Imperial College London, who originated the concept and oversaw the construction of the Compact Muon Solenoid (CMS) experiment at CERN's Large Hadron Collider (LHC). In July 2012 CMS, along with the ATLAS experiment, announced the discovery of the Higgs boson This discovery led to the award of the 2013 Physics Nobel Prize to the theorists who proposed the associated mechanism that explains the origin of mass of fundamental particles. Sadly not to Professor Tom Kibble also of the Physics Department, a close colleague of Tejinder's, but both were knighted for their contributions to the particle work. CMS, started in 1991, is now a world-wide collaboration that has over 3500 scientists and engineers from 45 countries.

Artist: Keith Holmes Oil on board 2024. Commissioned by Imperial College Artwork Group

South Wall



Letitia Chitty (1897-1982) BA, MA; MICE, FRAeS, Fellow of Imperial College London
Pioneering Civil Engineering Department member 1934-1962. She applied mathematics to structural stress analysis in a highly creative way, winning ICE Telford Premiums and the Telford Gold Medal. She was the first woman to gain a 1st in the Cambridge Mechanical Engineering Tripos, be awarded the ICE Telford Medal and become a Fellow of the Royal Aeronautical Society. She was fluent in 7 languages and had wide interests in travel, history, arts, crafts and botany, including publishing *Abroad An Alphabet of Flowers*, illustrated by her own drawings. From *Women at Imperial College Past Present and Future* by Anne Barrett, College Archivist.

Artist: Keith Holmes
Imperial College London Artwork Group 2023

Professor Chris Jackson (1977-)

Earth scientist, specialism: geodynamic, structural, and stratigraphic evolution of sedimentary basins.

Joined Imperial in 2004 as a lecturer, Statoil Professor of Basin Analysis 2015; Equinor Professor of Basin Analysis 1918. Professor of Sustainable Geoscience Manchester University 2020-2022; Jacobs Engineering Group 2022- and Visiting Professor in Imperial's Department of Earth Science Engineering. Chris has made outstanding contributions to outreach: and is the first black scientist to deliver the Royal Institution Christmas Lectures in 2020, he has appeared in television documentaries, radio programmes and podcasts.

West Wall

Black People at Imperial

Jada-Nicole Korsah
By Gianna Forrester
Dimensions: 12x16 inches

I grew up in North London, I've lived there all my life, but my family is Ghanaian and parents both grew up in Ghana… So I've had my influence being very Ghanaian but I would call myself a Londoner in terms of my identity.'
'There 5 black girls in my year, out of 100, but then I moved, and I was the only Black girl in the entire sixth form and it was made up of 400 people…. Even in my junior school I was also the only Black girl from year 3 to year 6. You know how kids can be mean, you have to sometimes take things with a pinch of salt... it wasn't really malicious it was just because they've never experienced someone who was Black, but you can internalise it.'
'It was hard, but it forced me to find friends who were more like me, I was lucky to have friends outside of school who were able to ground me – it has been a learning experience I think'.

'I was so excited to leave my house, I finally got that freedom … Finally, I get to do want I want, I can go out without asking permission a week before, and then none of that happened… but I've still tried to make the most of it even with the restrictions.'

'In terms of representation it's so important because it can make someone feels so grounded and understand who they are. Without representation you can start to question yourself like: Am I the abnormal one, am I the one that doesn't fit in, am I weird. Especially when you're growing up, you're going through all these awkward changes and new experiences so having all of that as well as representation can be really difficult. And to see someone in the shoes you want to be in, just one role model can give you hope.'

Kilsi Kobani
By Cayla Barker
Dimensions: 18x14 inches

‘I was born in Glasgow and lived there until I was 7 where I moved to Gloucester until I was 15 and then I was moved to Cheltenham. I would say for the majority of my life living in a predominantly white town, I have not been able to experience my culture to its fullest potential. I lived in a sheltered home and wasn’t in much contact with my external family until recently. Due to the nature of the pandemic, I haven’t been able to take full advantage of all the opportunities London can offer. During the summer if travel is permitted, I will be travelling to Nigeria to experience the culture and to help find myself as a person.’

‘I chose imperial because I wanted a place that I can challenge myself. For the latter part of my teenage years I faced significant challenges. My mother was diagnosed with cancer in 2016 and I was responsible for looking after my household including my autistic brother. Tragically my mother passed away in 2019. That lost has both devasting emotional and practical impacts on me. My mother always believed that I am an extremely smart person and believed in me, so I decided to apply to Imperial and here I am.’

‘As a BAME commissioner for Gloucester city council (dealing with issues of race in the city) I believe that representation is very important as we need more black leaders in industry, politics, medicine etc… to show young black people what can be achieved despite the challenges they might face.’
‘During school, a lot of my time was dealt with my home life and taking care of my family. I experienced bigoted opinions, but I never gave them that much time of day. My main experience with racism was when last year I was wrongly arrested by the police. On July 30th 2020 I was wrongly arrested at my household based on a description vaguely matched me. I ended up spending 10 hours in the cell for a crime I didn’t commit, put on bail for two weeks and had my phone, bike and clothes for work taken away from me. I was extremely devasting to see how the police handled black people, but I have spoken to the police officers and started a conversation with them in order to move on.’
Biomedical sciences student 2020-2023. I chose imperial because I wanted a place that I can challenge myself. For the latter part of my teenage years I faced significant family challenges.

Chelimo Koitaba
by Gianna Forrester
Dimensions: 12x16 inches

‘I’m Chelimo Koitaba, born and raised in Nairobi, Kenya. I’m a 1st year Biomedical Engineering student here at Imperial College.

Yes, I believe I am in touch with my culture. I fluently speak the national language (Kiswahili) and I am also currently learning the local dialect (Kalenjin) of my rural home. Other than the language, I regularly cook and eat local dishes, my favorite dish being ugali, kuku kienyeji (local chicken) and mboga kienyeji (traditional vegetables). I also listen to local Kenyan music, attend cultural events among others. I believe these factors contribute to me being in touch with my culture.’

‘In Kenya, families are really close knit and have values which we strongly uphold, well at least that’s how my family is. This has definitely had a huge impact on my everyday life in the sense that everything I do, big or small, I keep in mind the values and morals that I have learnt from my family and extended family. Also, back home everyone is very respectful, kind and welcoming. And so, by default I find myself having the same characteristics.’

‘I went to high school in Kenya where luckily, I didn’t experience any racism. However, it’s a shame that when I first landed in London for university, my first encounter with someone (the immigration officer at Heathrow) they made a racist comment.’

‘Imperial is a highly ranked, diverse university. I wanted to learn from the best and be in an environment surrounded by highly gifted academics that will stretch my mind, build my character and enhance my resilience.’

‘I’ve been told multiple times by almost everyone that uni is the place where you find your friends for life. So obviously I’m looking forward to meeting new people and forming new friendships. Seeing that Imperial is a multicultural place, I am looking forward to learning a thing or two

Wisdom Okoro MEng Mechanical Engineering 2020-2024; Imperial Business School Business for Professionals of Engineering Science. Business Economics.2022-2023

by Cayla Barker
Dimensions: 18x14 inches

‘My parents are Nigerian. I grew up in Nigeria for six years and I currently live in Slough. A major difference between Nigeria and the UK? Definitely the food because I’d come to school and they’ll be serving pizzas. Back home we’ll have chicken and stew or Egusi soup. I’m still in touch with my culture, I can cook jollof rice, fish stew, vegetable stew…. mostly just different types of stew and jollof rice.
From what I remember it [Nigeria] was really fun. I don’t remember having many of restrictions. My school was next to where I lived, and we got to travel around a bit. We went to Ghana for road trips, sometimes we went to Amsterdam during the holidays. The standard of living was higher because money goes further in Nigeria.

‘My sixth form was predominantly white, I experienced racism at first in primary school. The children hadn’t had been educated by their parents’, so they were ignorant. In my sixth form, support only became available after a long time of incidents happening. One of the stories blew up, and it got out to the public view, that’s when they decided to start caring about it.’

‘I wanted to be down South again, and Imperial is really good for my degree.
I am enjoying it, it’s intense but it’s good. Right now, there’s not much I can say because a lot of it is limited by covid. I wanted in person workshops and to use machines, but there’s not much you can do.’

‘[Representation] I’d say, events that showcase different sides of culture. Obviously Black History Month, but also university events. In music, books… not just white old men, and also particularly staff. What Imperial can do in terms of representation? Basically that.
I did come to London and Imperial because it’s more diverse. I wouldn’t have wanted to go somewhere small and more rural because I think it would have been worse. I am happy to see Imperial do something, like the recent inquest they had, that was good. The representation here is kind of what I expected to be fair, not a high amount. I’ve seen about 5 or 6 black people on my course. My cohort is around 230, at the same time a lot of people haven’t been on campus yet. I grew up in Nigeria for six years [then Leeds] and I currently live in Slough. A major difference between Nigeria and the UK? Definitely the food because I’d come to school and they’ll be serving pizzas. Back home we’ll have chicken and stew or Egusi soup. Imperial is really good for my degree. I am enjoying it, it’s intense but it’s good. Right now, there’s not much I can say because a lot of it is limited by covid. I wanted in person workshops and to use machines, but there’s not much you can do.

Regen Petu-Stiles by
Gianna Forrester
Dimensions: 12x16 inches

‘I grew up in London with Ghanaian parents who always tried to instil their culture in me. From things like jollof rice to Fried yam’.
‘New music, old movie productions,or even the short comedy skits that always end up circulating on WhatsApp ...I try to be in touch, but I am not in touch as I would like to be.’
‘Racism in school. It’s a thing. It really shouldn't be. I have experienced it before, but I try to make sure that racist comments, profiling and overall bad experiences won't change the way I go about my day. If I am the only Black person in the room, I make that my excuse to stand out even more.’

‘I study Physics, and the reason why I picked it is because I am interested in looking at the world from a different perspective… I feel like Physics allows you to look at the world through an analytic lens, in the same way that you read a book or an article on philosophy and have your outlook completely changed. But with physics, it translates the world from maths, and tries to find a reason to analyse the world using a language that everyone can understand. It’s my way of making sense of the world.’

‘To be visible in a positive light but also being active and present. For example, Black representation for me would be to be an active voice or group of voices within society or a community…. consciously doing and representing Black people as a positive force for change and having that positive impact.’
‘I’m a member of this student led organisation, the ‘Black Head Students’ Network’..... where members engage in current affairs and work to create a positive influence through everything they do.’ ‘I’ve been exposed to new and interesting conversations with people,who are driven to leave a positive mark on this world, that I wouldn’t have met otherwise .’

Zac Elliott
by Gianna Forrester
Dimensions: 12x16 inches

‘Ethnicity-wise, I’m half British, half Jamaican. I’ve grown up in the west midlands my whole life, I’ve moved around the area quite a lot but started off in Birmingham.’
‘I think for me personally, during my whole childhood I’ve grown up in a white British household …. I’d say even though I’ve been surrounded by white British culture growing up, it almost felt like there was something missing…. that there’s a certain reason why I’m not fitting perfectly into this situation. I had no issues with my situation as such but felt as if a part of me belonged in a different environment.’
‘My primary school was majority White, and my secondary school was diverse by still with few black students and I didn’t really see the group where you feel like 100% …. where you just feel like this is completely natural. The only place where I felt the perfect balance was on the athletics track.’
‘I remember going to my Jamaican family’s houses when I was younger as well … going to aunties and uncles house and never understanding a word they were saying it was all just like a jumble to me.’
‘As I’ve grown up, I feel that I’ve converged more towards Black culture and I think the main reason for that would be the friends I’ve made playing sports and music taste but I also feel the strong connection to our historical journey .. like Windrush or the different cultures, tribes, and languages in Africa.’

‘Representation. At the core foundation is about proportionality, it’s about saying that if we’ve got a population of x amount of people of which 10% is a certain demographic, then naturally we should aim for a society where that 10% are in each part of society. And I think that for me, what that is like simplified – we are looking for proportional representation by way of opportunity. What that means for me, is having these conversations first. Without the conversations it will not be widely accepted everywhere, then after the conversations, embracing your culture and acknowledging the cultures of others.’

Corridor

Shifting the Lens photographs

Juproop Lalli
Undergraduate, Department of Chemical Engineering

“I like to be my loud, authentic self in front of everyone and I feel like Imperial has given me the opportunity to feel like I can do that and not feel like I have to be quiet, or that I have to behave a certain way. I can definitely bring myself to imperial.”

Juproop was photographed by Jason Alden for the 2023 Shifting the Lens Campaign.

Nandini Bhudia
Recruitment Administrator, Human Resources

“When I am at work, I want people to know that I am Indian - I don’t want to hide that part of my identity. It’s really important to me that my colleagues know about my background and upbringing and that I am accepted"

Nandini was photographed by Thomas Angus for the 2020 Shifting the Lens campaign.

Paula Ordonez Suarez
Teaching Fellow, Faculty of Medicine

“Regardless of where we come from, I think it’s important we realise that even if we meet someone from the other side of the world with a completely different religion, culture or skin colour, we can still find so many things in common. I think that’s wonderful.”

Paula was photographed by Jason Alden for the 2023 Shifting the Lens campaign.

Dr Sunday Popo-Ola
Research and Teaching Fellow, Department of Civil and Environmental Engineering

When I first started out in academia, public engagement was actually discouraged. But I still wanted to inspire young people from disadvantaged communities to go to university and study STEM subjects," he explains. “I felt I had to hide any activities I did around this. I feel my superiors would have called it a waste of time - there was this attitude that we should be spending all our time on research and publishing. But not anymore. This award shows me that academia has broadened its measure of success. So now my engagement work is being celebrated - it's a bright new era."

Sunday was photographed by Brendan Foster in 2021 President’s Medal for Excellence in Societal Engagement.

Dr Brian Wang
Imperial alumnus Brian founded In2MedSchool. He is now practicing Medicine

“We want to create a level playing field and show students that you don’t need to have lots of money to become a doctor. We want to see the numbers change and have the healthcare workforce reflect the diverse communities they serve.”

Brian was photographed by Jo Mieszkowski, 2023 Emerging Alumni Leader Award.

Layla Bolton Saghdaoui
NIHR Doctoral Research Fellow, *Department of Vascular Surgery at Imperial College London and Vascular Clinical Nurse at Imperial College Healthcare NHS Trust*

“Working with my patients in a research capacity has allowed them to feel even more valued because you spend more time with them, build relationships and help in a different sort of way.”

Layla was photographed by Dave Guttridge in 2021.

Solar Room

North Wall

Market scene
Artist: Issacher Ben Ryback

Woman in Yellow Dress
Artist: Sergei Arsenyevich Vindgradov

Peasant playing fiddle
Artist: V. Leibo

East Wall

Snowy Landscape
Artist: V. Bakchelev

Harbour Houses and Boats
Artist: Ohel Emmanuel Mané-Katz

West Wall

Girl in Green Cloak and Hood
Artist: Philip Maliavin

Level 1

Alcoves

Night and Day Statues

Artist: Unknown. White marble

Level 1 Meeting rooms

101/Ante Room

Hushed Hills

Artist: Charlotte Gurran

A Cumbrian artist, Charlotte states '…at the centre of my artwork is a devotion to, and appreciation of, nature…'

Artist: Charlotte Gurran

Ullswater Aqua (100W X 30Hcm)

107/Lounge

Artist: Unknown

“Farm workers in a meadow”

Artist: A. Carlyle Bell

An interior with red roses in a vase on a red tablecloth.

Artist: Leonid Osipovich Pasternak

109/ Lounge Room

Emerald Flight

Artist: Charlotte Gurran

Fresh Starts

Artist: Charlotte Gurran

Level 2
Collaborative Space Rooms
Corridor

3 170 architectural drawings

205

South Wall

Group of three seated women, one in a red shawl.

Artist: Pasternak, Leonid Osipovich (1862 - 1945)

Boy playing concertina.

Artist: Ryback, Issachar Ber (1897 - 1935)

Over fireplace

Coastal Platform

Artist: Kratschovski, J (1854 - 1914)

206

Architectural floor plans of 170 Queen's Gate

Architectural floor plans of 170 Queen's Gate

208
East Wall

Three female FRS': Professors Jo Haigh, Michele Dougherty, Jenny Nelson
Artist Tess Barnes. Oil on Canvas

Professor Joanna (Jo) D. Haigh CBE, FRS, FRMetS
Professor of Atmospheric Physics
Co-Director of the Grantham Institute for Climate Change and the Environment 2014-
Researches radiative transfer in the atmosphere, climate modelling, radiative forcing of climate change and the influence of solar irradiance variability on climate.
Head of the Department of Physics 2009-2014
She has been President of the Royal Meteorological Society, Editor of Quarterly Journal of the Royal Meteorological Society and of the Journal of Atmospheric Sciences, a Lead Author on the Intergovernmental Panel on Climate Change and acted on many UK and international panels
Background: Sun, atmosphere and climate change

Professor Michele Karen Dougherty FRS CBE FRAS
Professor of Space Physics
Researches Planetary magnetospheres, particularly those of Jupiter and Saturn. Solar wind interaction with planetary bodies.
Principal Investigator for the magnetometer instruments for two major outer planetary space missions: to Saturn on the NASA Cassini spacecraft ended 2017, and the European Space Agency JUICE spacecraft due to orbit Ganymede, Jupiter's largest moon, around 2030.The

magnetometer instrument on Cassini, was used to discover plumes of water coming off the moon Enceladus
Head of the Department of Physics 2017-
Portrait background: The planet Saturn and the magnetometer Michele designed for the Cassini-Huygens Mission to Saturn

Professor Jenny Nelson FRS FInstP
Professor of Physics
A member of the Department of Physics since 1989, investigating energy and energy conversion materials, particularly solar energy and photovoltaic technologies to mitigate the production of sources of climate change such as carbon dioxide. Jenny works with many institutions including internally, the Grantham Institute for Climate Change, and externally the Welsh Government initiative to enhance solar research capability in Wales.
Jenny's student teaching in Physics conveys the fundamentals of modern/future energy systems in terms of their technical properties and economic and environmental impacts.
Portrait Background: Solar cells and climate

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Albert Memorial

Artist: Unknown