



3000 BCE The Indus civilisation builds 50-mile irrigation tunnels and develops the first sanitation systems such as the communal great baths at Mohenjo Daro.



7 AD China's Sui dynasty builds the world's longest artificial waterway. The Grand Canal covers a distance equivalent to New York to Florida.



1864-1943 GEORGE WASHINGTON CARVER, US
Worked, through the Tuskegee Institute,
to develop depleted soils; a pioneer
environmentalist who worked to improve farmers' lives.





WARREN MORTON WASHINGTON, US Tyler Prize-winning atmospheric scientist, former chair of the National Science Board and senior scientist at the National Centre for Atmospheric Research.



KEN SARO-WIWA, NIGERIA Activist and journalist who campaigned against pollution from dumped petroleum waste. Tried and hanged by the military regime of General Sani Abacha. His family agreed

a posthumous financial settlement with oil giant Shell.

Rivers created our greatest civilisations: the Nile, Egypt. The Tigris and Euphrates.
Mesopotamia. The Indus River, the Indus
civilization. The Yangtze river, ancient China. The Amazon, pre-Columbian growers



4500 BC-1900 BCE The Sumerians master irrigation to grow crops.



2700 BCE Ancient Egyptians build the 46-ft Sadd el-Kafara, believed to be the world's first dam.



1829-1906

Son of emancipated parents; poet, scientist, community educator and the first African-American to work for the Smithsonian Institution.





"The impatient idealist says: 'Give me a place to stand and I shall move the earth.' But such a place does not exist. We all have to stand on the earth itself and go with her at her pace" Chinua Achebe, No Longer at Ease



YOU can change the world, working in water and environmen management. Do YOU want to become a water engineer? Could YOU help our planet to slow or adapt to climate change? Could you provide clean, safe water to millions of people? YOU can inspire a generation and reshape the future. YOUR ideas matter. Make joining CIWEM your first step.



1996-

**KELVIN DOE, SIERRA LEONE** Self-taught engineer, entrepreneur and president of the Kelvin Doe Foundation that empowers young people in Africa to innovate and engage with new technologies and ideas.



Founder and inventor of Majik Water, which harvests water from air for waterscarce communities.



ROGER ARLINER YOUNG, US Scientist of zoology, biology and marine biology and the first Black woman to earn a PhD in zoology.



1940-2011

Environmental and political activist: the first African woman to win the Nobel Peace Prize, creating the Green Belt Movement to plant trees and promote conservation and women's rights.



SIR PARTHA DASGUPTA. UK Economist and author of the 2021

landmark report on the economics of biodiversity, The Dasgupta Review, which urges us to change how we think, act, and measure economic success to protect the natural world.



LILIA A ABRON, US Chief executive of environme engineering firm PEER Consultants. First Black woman awarded a chemical engineering PhD in the US.



1944-1988

Xapuri-based rubber tapper, trade unionist and campaigner for rainforests and Indigenous people's land rights. Helped to form the Forest Peoples Alliance. The 90th land-rights campaigner killed in Brazil that year.





1976-MICHAEL REGAN, US In 2021 becomes the first Black person to lead the **Environmental Protection** 



1949-JUDY LING WONG, HONG KONG/UK

Artist, HonFCIWEM and campaigner, the Black Environment Network.



1950-

A leader in addressing energy, environment and sustainable development in Africa. IPCC vice-chair since 2015.



1957-2013

Campaigner for water and housing rights for Karachi's poor. Murdered in 2013, after criticising the city's landowning cartels.



**AUTUMN PELTIER, CANADA** 

Teenage Indigenous water warrior and campaigner, named chief water protector for the Anishinabek nation.



1996-

"Africa's Greta Thunberg" started a solo strike for climate outside Uganda's parliament in 2019, campaigns to protect the Congo Rainforest and runs renewable-energy intiative the Green Schools Project.



1982-DWAYNE FIELDS, UK

TV presenter, adventurer, explorer, naturalist and the first Black Briton to reach the North Pole.





LIZ BONNIN, FRANCE/UK/IRELAND

TV broadcaster covering science, wildlife and natural history. Presenter of wildlife and science programmes including How the Earth Works and Blue Planet Live.



FARHANA YAMIN, UK

Climate lawyer, Intergovernmental Panel on Climate Change (IPCC) author, advocate for small island states and founding member of Extinction Rebellion



1961-ARUNDHATI ROY, INDIA

Booker Prize-winning author of The God of Small Things turned environmental and social-justice campaigner.

**AUTHOR:** Gaverne Bennett gaverne @gaverne **DESIGN:** Becca Macdonald

THE ENVIRONMENT, FEBRUARY 2022 **⋙** @CIWEM

@environmentmag