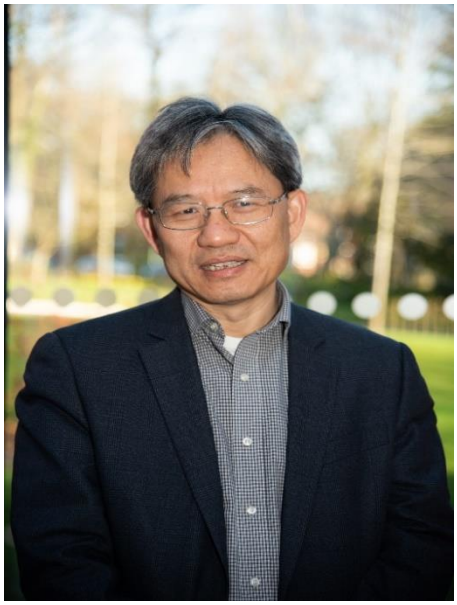
IChemE

Clean Energy
Special Interest Group

Clean Energy Medal Award and Webinar

8 June 2021 – 10:30 – 11:30 BST

The 2021 Clean Energy Medal is awarded to Professor Yulong Ding



Professor Yulong Ding completed an MSC in Thermal Engineering at the University of Science & Technology, Beijing in 1985 before completing a postgraduate in Chemical Engineering at the University of Birmingham in 1997.

Yulong was a Research Associate at the Imperial College London from 1997-1999, before joining the University of Leeds, there Yulong became Founding Director of the Joint Institute for Energy Storage Research, a joint project between the University of Leeds and Institute of Process Engineering of Chinese Academy of Sciences. Yulong was later appointed Director of the Institute of Particle Science and Engineering in Leeds.

In 2013, Yulong became the founding Chamberlain Chair of Chemical Engineering and Director of the Birmingham Centre for Energy Storage at the University of Birmingham.

In 2014, Yulong became the Highview-RAEng Chair of Cryogenic Energy Storage.

Yulong became a Fellow of RSC in 2010, a Fellow of IChemE in 2019 and has been a Fellow of RAEng since 2020.

RAENG

Distinguished for his academic leadership and pioneering work in chemical and process engineering applied to energy materials and thermal systems that has led to important innovations in new thermal energy storage materials, cryogenic energy storage, engine technology and temperature regulation technologies for rail and road vehicles that have widespread societal applications to address future global sustainable energy challenges.

UOB

He has research interests in energy materials and energy processes and currently focusing on developing novel technologies for electrical and thermal energy storage at different scales. He has been a PI or Co-I of research projects with over £20M funding over the past 10 years.

He has 13 patents, 400 papers with 180 in peer reviewed journals (H-Index of ~ 42). He was listed as top 1% highly cited researchers with consistent impact over 2002-2012 in the engineering category by Thomson Reuters. He also invented the liquid air energy storage technology and led the initial stage of development of the technology. His work on liquid air energy storage made a major contribution to the 2011 'The Engineer' Energy & Environmental and Grand Prix awards, and 2012 Rushlight Energy Environmental and Power Generation and Transmission awards.

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Main research areas:

- *energy storage research particularly on thermal (heat and cold) energy storage, compressed air energy storage and cryogenic energy storage, covering composite thermal energy storage materials, components/devices and systems.*
- *structured particles, covering formulation, scale up of manufacturing and dissolution.*
- *suspension of nanoparticles for heat transfer at medium to high temperature applications and lubrication.*
- *energy saving technologies for process industry.*