

Professor Peter Styring

Curriculum Vitae The University of Sheffield

**1 PERSONAL DETAILS****SURNAME:** Styring**FORENAMES:** Peter**ADDRESS:** Chemical & Biological Engineering, The University of Sheffield, Sheffield S1 3JD, UK**EDUCATION AFTER SCHOOL:** Newcastle University: Dentistry (1981)  
University of Sheffield: Chemistry BSc (1982-1985)  
University of Sheffield: Chemistry PhD (1982-1985)**QUALIFICATIONS:** **Academic –**  

- Special Honours Chemistry, First Class, The University of Sheffield: 1985
- PhD Chemistry, University of Sheffield: 1989

**Professional –**  

- Royal Society of Chemistry, CChem, FRSC
- IChemE, CEng, FIChemE
- Associate Fellow in the Understanding of Politics

**AWARDS:** IChemE Hanson Medal: 2007**CURRENT AND PREVIOUS APPOINTMENTS**

2007-present Professor of Chemical Engineering & Chemistry, The University of Sheffield

2017-2018 Professor and **Head of Department**, Chemistry, The University of Sheffield (Leadership responsibility)

2000-2007 **Senior Lecturer** in Chemical Engineering, The University of Sheffield

1998-2000 **Lecturer** in Organic Chemistry, University of Hull

1994-1998 Defence and Evaluation Research Agency (MoD) **Lecturer** in Computational Chemistry, University of Hull

1993-1994 **Lecturer** in Organic Chemistry, University of Hull

1990-1993 **Thorn EMI Lecturer** in Organic Chemistry, University of Hull

1989-1990 ESPRIT EU Research Associate, University of Hull

1988-1989 Research Consultant, The University of Sheffield

1988 Postdoctoral Researcher, State University of New York at Stony Brook

**2 RESEARCH****2.1 RESEARCH AREAS**

- **Carbon Capture & Utilisation**
  - Initially focussing on carbon dioxide capture and conversion into valuable products, this has evolved to include all forms of sustainable carbon.
  - A long-term strategic partnership with Unilever has consolidated work here with funding for a PDRA and two fully funded postgraduate students.
  - Policy work has been essential to the development of the research, including board membership of the Global CO2 Initiative, representing UK Government (BEIS) in the US (Mission Innovation/G20), India (Ministerial Summit) and Canada (Communities of Interest).
- **Circular Chemical Economy**
  - Policy Lead for the UKRI Interdisciplinary Centre for the Circular Chemical Economy (NIC3E), working with DEFRA. Looking at reusing waste carbon in the manufacture of olefins in a strategic plan to de-fossilise the petrochemicals sector.
- **Waste Management**
  - Costa Paper Coffee Cup Recycling
  - Waste recycling: links in to the NIC3E circular economy hub.

**2.2 HIGH QUALITY OUTPUTS**

18 peer reviewed publications in 2021. Current h-Index 33.

4 Books published as joint editor

**2.3 RESEARCH INCOME**

A sustained track record of funding from multiple sources including UKRI (EPSRC, BBSRC), EU (FPs and Horizons) and industry (Unilever, GSK, Pfizer, AZ, Costa Coffee). Full details available on request.

**2.4 RESEARCH IMPACT**

- Strategic Partnership with Unilever began in 2019 has established of Unilever's Carbon Rainbow, part of the Green Future Programme. Collaboration on supply chain identification has resulted in fossil-free laundry capsules being introduced onto the Chinese market,
- Member of the Global CO<sub>2</sub> Initiative Advisory Board. High level membership including Tony Blair and Barrack Obama's Chief Scientific Advisors (<https://www.globalco2initiative.org/about-us/board/>).
- Faculty Affiliate, The Global CO<sub>2</sub> Initiative, University of Michigan (<https://www.globalco2initiative.org/about-us/faculty-affiliates/>).
- UK Government representative (BEIS) at Mission Innovation CCUS (G20 nations). Chaired a Panel co-authored a section of the resulting report covering carbon dioxide utilisation ([https://www.energy.gov/sites/default/files/2018/05/f51/Accelerating%20Breakthrough%20Innovation%20in%20Carbon%20Capture%2C%20Utilization%2C%20and%20Storage%20\\_0.pdf](https://www.energy.gov/sites/default/files/2018/05/f51/Accelerating%20Breakthrough%20Innovation%20in%20Carbon%20Capture%2C%20Utilization%2C%20and%20Storage%20_0.pdf)).
- Member of the Royal Society Working Party that compiled the 2019 policy Briefing Document on Synthetic Transport Fuels. <https://royalsociety.org/topics-policy/projects/low-carbon-energy-programme/sustainable-synthetic-carbon-based-fuels-for-transport/>
- Research featured on TV and Radio including BBC News, BBC World Service, Sky News, Radio 5 Live and local radio. Regular contributor to LBC Radio.
- Awarded a Royal Society Westminster Pairing Placement in the Foreign and Commonwealth Office in November 2015. Shadowing Dr Emma Hennessey, then Deputy Director of SIN.

**4 LEADERSHIP**

- Head of Department, Chemistry, The University of Sheffield: 2017-2018
- Director and Chair of CO<sub>2</sub>Chem: 2010-present
- Co-Director and Chair of Sheffield Air: 2020-present
- Head of Department, Chemistry: 2017-18
- Policy Lead, UKRI Interdisciplinary Centre for Circular Chemical Economy (NIC3E)

**5 PROFESSIONAL STANDING AND WIDER ENGAGEMENT**

- Represented UK Government/BEIS as a Panel Chair at Mission Innovation CCUS , Houston TX and co-author of report in 2017
- Advisory Board of Global CO<sub>2</sub> Initiative (including Sir David King and John Holdren (Obama's Chief Scientific Advisor) since 2016
- Developed an on-going Strategic Partnership with Unilever Clean Future/Carbon Rainbow with long-term funding for research
- Member of All Party Parliamentary Group (APPG) on Energy Studies
- Member of APPG on Fairer Business Banking and Member of Bankers for Net Zero
- Royal Society of Chemistry Faraday Discussion Chair (2025 and 2021) and panel member on Climate Exp0. Invited to Chair another Faraday Discussion in 2026).
- Policy Group National Circular Economy Hub (working with DEFRA, BEIS, RSC, Environment Agency)
- Work highlighted in Advanced Science News (<https://www.advancedsciencenews.com/waste-not-want-not-with-sustainable-fertilizer/> )