

International Association for Carbon Capture

(IACC)

Trustee Annual Report and Financial Statements

for the year ended 01st May 2025

05 October 2025

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1 About the International Association for Carbon Capture (IACC)

1.1 What is IACC

IACC aims to promote carbon capture research and technology and deployment, thus contributing to reducing CO₂ emissions and mitigating climate change for a better living environment. To achieve this aim, IACC will organise carbon capture conferences, workshops and seminars; promote collaborations between academics, industries and other carbon capture organisations; support early career researchers to carry out cutting-edge research; increase public awareness of the needs of carbon capture and encourage the young generation to consider low-carbon-emissions technologies and behaviour; and contribute to international communication for carbon capture development.

1.2 Our Responsibilities

IACC acts as a data controller when it processes your personal data in connection with the Services, except when the Services relate to the promotion, publishing, and operation of a Hosted Journal. In this case, IACC processes your personal as a data processor acting on behalf and upon instruction of the relevant partner who act(s) as the data controllers.

1.3 Charity Details

Registered Charity No. 109688

Date Registered. 18/07/2023

1.4 Business Address

Unit A
82 James Carter Road
Mildenhall
Suffolk
United Kingdom
IP28 7DE

1.5 Strategy in Action

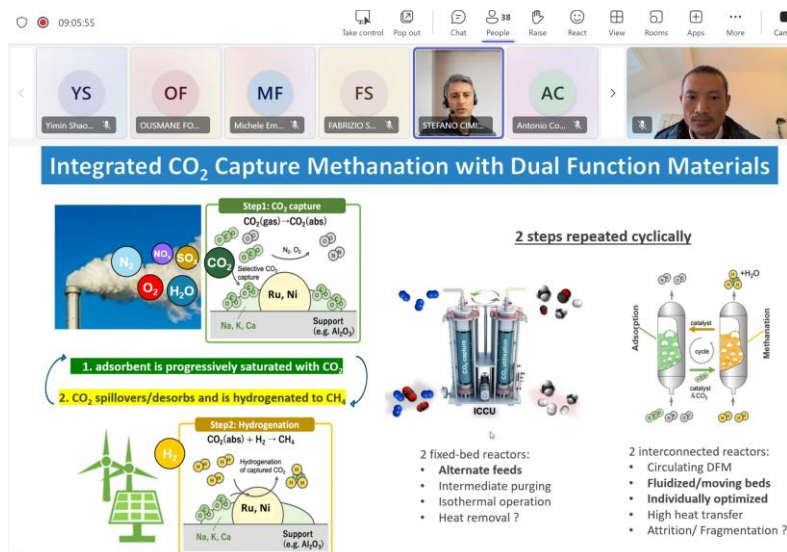
During the reporting year, IACC continued to translate its mission into action through a series of strategic initiatives aimed at advancing carbon capture research, technology, and collaboration.

1.5.1 Strengthening Knowledge Exchange

IACC organised a number of international conferences, webinars, and technical workshops that brought together leading academics, industry experts, and policymakers. These events provided an open platform for sharing the latest advancements in carbon capture technologies and discussing strategies for practical implementation. Details are below:

- IACC Carbon Capture Training Course - Introduction of Carbon Capture Technologies, 27 November 2024 (online)
- IACC Carbon Capture Training Course - Characterisation of solid sorbents, 13 January 2025
- IACC Carbon Capture Training Course - Application of solid sorbents for CO₂ capture, 14 January 2025
- IACC Carbon Capture Training Course - Characterisation of solid sorbents, 7 April 2025
- IACC conference in integrated CO₂ capture and utilisation (IACC-ICCU), January 2025 (online)

- The 4th International Conference on Carbon Capture Science and Technology 2025, 4-5 August 2025 (online)
- IACC workshop on Generative AI – 9-10 June 2025 (in person), Belfast
- IACC2025 annual conference, Birmingham, 18-19 September 2025 (in person)



Integrated CO₂ Capture Methanation with Dual Function Materials

Step 1: CO₂ capture
 $\text{CO}_2(\text{gas}) \rightarrow \text{CO}_2(\text{abs})$
 Selective CO₂ capture
 Ru, Ni
 Na, K, Ca
 Support (e.g. Al₂O₃)

1. adsorbent is progressively saturated with CO₂
2. CO₂ spillovers/desorbs and is hydrogenated to CH₄

Step 2: Hydrogenation
 $\text{CO}_2(\text{abs}) + \text{H}_2 \rightarrow \text{CH}_4$
 Hydrogenation of captured CO₂
 Ru, Ni
 Na, K, Ca
 Support (e.g. Al₂O₃)

2 steps repeated cyclically

2 fixed-bed reactors:

- Alternate feeds
- Intermediate purging
- Isothermal operation
- Heat removal ?

2 interconnected reactors:

- Circulating DFM
- Fluidized/moving beds
- Individually optimized
- High heat transfer
- Attrition/ Fragmentation ?

1.5.2 Supporting Early Career Researchers

Recognising the importance of nurturing future talent, IACC provided mentorship opportunities, presentation platforms, and visibility for early-career researchers. Through travel grants and online training sessions, we helped them engage with global experts and expand their research impact.

1.5.3 Promoting Industry - Academia Collaboration

IACC actively facilitated partnerships between universities, research institutes, and industrial organisations. These collaborations have led to new research proposals, technology demonstrations, and pilot projects that accelerate the transition of carbon capture from laboratory to industrial application.

1.5.4 Enhancing Public Engagement and Awareness

To increase understanding of carbon capture's role in addressing climate change, IACC released open-access educational materials and recorded sessions from training events. Public outreach activities also encouraged younger audiences to consider careers and lifestyles that support a low-carbon future.

1.5.5 Advancing Open Science

In line with our commitment to openness and transparency, IACC expanded its online repository of recorded lectures, publications, and resources. This initiative continues to strengthen our role as a knowledge hub for the global carbon capture community.

Through these focused actions, IACC demonstrates its ongoing commitment to bridging the gap between research and real-world deployment, supporting innovation, and building a sustainable, low-carbon future.

2 Governance

2.1 People

2.1.1 Board of Directors

- Professor Chunfei Wu, Chair
- Dr Hui Zhou, Vice Chair
- Professor Shouliang Yi, Vice Chair
- Dr Yeshui Zhang, Executive Chair & Treasurer

2.1.2 Main Committees

Head of Training Committee:

- Dr Hongman Sun, China University of Petroleum (Huadong)

Head of Awards Committee:

- Dr Michael Short, University of Surrey

Head of Communication Committee:

- Dr Salman Masoudi Soltani, Brunel University London

Head of Early Career Committee:

- Dr Tomas Ramirez Reina, Universidad de Sevilla

Head of Conference Committee:

- Professor Changlei Qin, Chongqing University

Head of Membership Committee:

- Dr Hui Zhou, Tsinghua University

Head of Industrial Collaboration Committee: Dr Guoping Hu, Ganjiang Innovation Academy, Chinese Academy of Sciences

2.2 Financial Review

2.2.1 Independent Audit

Jeffrey Harrison
2 Winston Gardens
Belfast
BT5 6HZ

2.2.2 Bank

Lloyds Bank
25 Gresham Street
London
EC2V 7HN

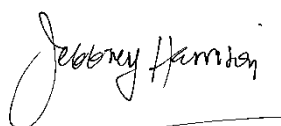
2.2.3 Financial Statements/Bookkeeper's Report

An examination includes a review of the accounting/transaction records and a comparison and basic balance of the accounts.

2.2.4 Independent Statement

In connection with this examination, no matter has come to my attention:

- Which gives me reasonable cause to believe that in any material respect the requirements
- To keep accounting records, and
- To prepare accounts which accord with the financial records have not been met, or
- To which, in my opinion, attention should be drawn in order to enable a proper understanding of the accounts/transactions to be reached



Jeffrey Harrison

Independent Bookkeeper Sign-off

2 Winston Gardens
Belfast
BT5 6HZ

12 August 2025

01/03/2023 to 30/04/2024	No	Credit	Debit	Cr - Dr
Sponsorship	6	£5,594.53	£0.00	£5,594.53
Registration	10	£3,318.15	£0.00	£3,318.15
Expenses	1	£0.00	£1,170.00	-£1,170.00
Gifts	10	£55.35	£1,846.69	-£1,791.34
Training	5	£0.00	£505.00	-£505.00
IT, Admin	1	£0.00	£213.60	-£213.60
Stripe Fees	14	£190.30	£190.30	£0.00
Total	33	£8,968.03	£3,735.29	£5,232.74
Bank statement balance				
Opening balance 01/03/2023	£0			
Closing balance 30/04/2024	£5,232.74			
Difference	£5,232.74			
01/05/2024 to 30/04/2025	No	Credit	Debit	Cr - Dr
Sponsorship	3	£4,371.30	£0.00	£4,371.30
Registration	23	£6,486.93	£3,150.00	£3,336.93
Expenses	10	£1,922.19	£6,673.32	-£4,751.13
Gifts	5	£0.00	£838.59	-£838.59
Training	1	£0.00	£95.00	-£95.00
IT, Admin	6	£34.94	£491.42	-£456.48

Stationery & Event Management	1	£0.00	£680.00	-£680.00
Misc	2	£5.10	£5.10	£0.00
Stripe Fees	<u>58</u>	<u>£190.97</u>	<u>£190.97</u>	<u>£0.00</u>
Total	51	£12,820.46	£11,933.43	£887.03
Bank statement balance				
Opening balance 01/05/2024		£5,232.74		
Closing balance 30/04/2025		<u>£6,119.77</u>		
Difference		<u>£887.03</u>		

2.3 Approval Statement

We have read and approved the foregoing International Association for Carbon Capture Income & Expenditure. Accounts for the period

- 01 March 2023 to 31 April 2024 (15 months)
- 01 May 2024 to 31 April 2024 (12 months)

Professor Chunfei Wu, Chairperson

Date

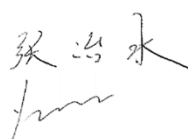
12/08/2025



Dr Yeshui Zhang, Treasurer

Date

12/08/2025



3 References and Administrative Details

Chair

- Professor Chunfei Wu

Treasurer

- Dr Yeshui Zhang

Training Committee

- Head of Training Committee: Dr Hongman Sun, China University of Petroleum (Huadong)
- Deputy Head of Training Committee: Dr Chen Zhang
- Dr Salman Masoudi Soltani, Brunel University London
- Professor Chunfeng Song, Tianjin University
- Dr Shaojun Xu, University of Manchester
- Dr Michael Short, University of Surrey
- Dr Tomas Ramirez Reina, Universidad de Sevilla

Awards Committee

- Head of Awards Committee: Dr Michael Short, University of Surrey
- Dr Daxin Liang, Northeast Forestry University
- Dr Lei Xing, University of Surrey
- Dr Tao Wang, Zhejiang University
- Dr Jin Shang, City University of Hong Kong

Communication Committee

- Head of Communication Committee: Dr Salman Masoudi Soltani, Brunel University London
- Dr Yeshui Zhang, University of Aberdeen
- Dr Xuyang Cui, Tianjin Chengjian University
- Dr Chen Zhang, Queen's University Belfast
- Dr Binqiao Xie, EPFL SB ISIC GR-KRO, Switzerland

Early Career Committee

- Head of Early Career Committee: Dr Tomas Ramirez Reina, Universidad de Sevilla
- Head of Early Career Committee: Professor Xiang Gou, Hebei University of Technology
- Dr Shouliang Yi, National Energy Technology Laboratory
- Dr Zhongde Dai, Sichun University
- Dr Jingwei Hou, University of Queensland
- Dr Yuanling Qiao, University of Swansea
- Dr Zhentao Wu, Aston University

Conference Committee

- Head of Conference Committee: Professor Changlei Qin, Chongqing University
- Deputy Head of Conference Committee: Dr Jinmei Xu, Research Institute of Wood Industry, Chinese Academy of Forestry
- Dr Dongdong Feng, Harbin Institute of Technology
- Dr Xuezhong He, Guangdong Technion-Israel Institute of Technology
- Dr Yongqing Xu, Tsinghua University

Membership Committee

- Head of Membership Committee: Dr Hui Zhou, Tsinghua University
- Dr Shuzhuang Sun, Zhengzhou University
- Dr Chunfei Wu, Queen's University Belfast
- Dr Dingding Yao, Huazhong Agricultural University
- Dr Shijie Yu, Tsinghua University

Industrial Collaboration Committee

- Head of Industrial Collaboration Committee: Dr Guoping Hu, Ganjiang Innovation Academy, Chinese Academy of Sciences
- Dr Shijian Lu, China University of Mining and Technology
- Dr Xiaobo Luo, Baker Hughes
- Dr Long Jiang, Zhejiang University

4 Contact Us:

- Email:

carboncapture@iaccr.org

- Business Address:

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Mildenhall
Suffolk
United Kingdom
IP28 7DE