



Cathy L. Tway

BS Chemistry from The Wichita State University in 1988.

PhD Physical Inorganic Chemistry from The University of Nebraska in 1992.

Section Head/Project Leader, AkzoNobel Chemicals, Inc. 1992-1998

Senior R&D Catalyst Specialist, Solutia, Inc. 1998-2005

Staff Research Associate/Vinyl Acetate R&D Pipeline Leader, Celanese, 2005-2007

Technical Leader/Associate Director, Applied Catalysis and Materials, The Dow Chemical Company, 2007-2011

R&D Director, Inorganic Materials and Heterogeneous Catalysis, The Dow Chemical Company, 2011-2017

R&D Director, Materials Science and Engineering, The Dow Chemical Company, 2017-2019

Global Technologies & Applications Director for Catalyst Technologies, Johnson Matthey, 2019-2022

Director, Catalyst Technologies Product Development R&D, Johnson Matthey, 2022-2024

Senior Director, Chemistry and Catalysis, bp 2024-2025

Chief Chemist and Vice President University Partnerships, bp 2025

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PROFESSIONAL MEMBERSHIP/AWARDS

- Member of American Chemical Society (ACS) and Associate for the ACS Committee on Environment and Sustainability
- Fellow of the Institute of Materials, Minerals & Mining
- Member of The National Academies of Science, Engineering, and Medicine Board on Chemical Sciences and Technology
- Industrial Advisory Board Member for the Center for Programmable Energy Catalysis
- Advisory Board Member for the U.S. Department of Energy Pacific Northwest National Laboratory Institute for Integrated Catalysis
- Advisory Committee Member for the U.S. Department of Energy Pacific Northwest National Laboratory Physical and Computational Sciences Directorate
- Advisory Committee Member for the U.S. Department of Energy Pacific Northwest National Laboratory Non-Equilibrium Transport Driven Separations Initiative
- Industrial Advisory Board Member for the Department of Chemistry, University of Nebraska
- Governing Board Member for the bp-International Centre of Advanced Materials
- Member of Materials Research Society
- Member of the North American Catalysis Society
- Member of the Michigan Catalysis Society

SELECT RECENT PUBLICATIONS

1. Catalysis at the crossroads

C. Tway, S. Filip. *Science*, 2025, **388**, 29-30.

2. Net Zero Transition: Possible Implications for Catalysis

R. Bellabarba, P. Johnston, S. Moss, C. Sievers, B. Subramaniam, C. Tway, Z. Wang, H. Zhu *ACS Catalysis*, 2023, **13**, 7917-7928.

3. Carbon conversion: opportunities in chemical production

P. Ellis, M. Hayes, N. Macleod, S. Schuyten, C. Tway, C. Zalitis In book: Surface Process, Transportation, and Storage, 2023, 479-524.

4. The Importance of Chemical Research to the U.S. Economy

National Academies of Sciences, Engineering, and Medicine. 2022

5. Opportunities and Challenges for Catalysis in Carbon Dioxide Utilization

M. Burkart, N. Hazari, C. Tway, E. Zeitler *ACS Catalysis*, 2019, **9**, 7937-7956

6. Gaseous Carbon Waste Streams Utilization: Status and Needs
National Academies of Sciences, Engineering, and Medicine. 2018

URL

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