SANJAY WAHAL

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EDUCATION

M.B.A. (Strategy & Innovation), Vanderbilt University, 2004
Post Doctoral Research Associate, Chemical Engineering, MIT, 1992
Ph.D., Chemical Engineering, University of Rhode Island, 1991
M.S., Chemical Engineering, University of Rhode Island, 1987
B.Tech., Chemical Engineering, Indian Institute of Technology (IIT), Kanpur, 1984

PROFESSIONAL EXPERIENCE

2022 – Present	Senior Vice President, Technology Innovation & Product Development, FyterTech Nonwovens, De Pere, WI
2023 – Present	Advisor, Thooshan [www.thooshan.com], Coimbatore, India
2022 – Present	Founder and CEO, Decarbonization, LLC [www.decarbonizationllc.com], Appleton, WI
2022 – Present	Advisor, MiTerro [www.miterro.com], Los Angeles, CA
2021 – 2022	Head of Innovation Lab, von Holzhausen, Pacific Palisades, CA
2020 – 2022	Vice President, Technology, Innovation and Product Development, GPMI Company (acquired by Envoy Solutions in 2023) Gilbert, AZ
2021 – 2022	Green Materials Technology and Investment Strategy Advisor, Blackstone
2021 – 2022	Green Materials Technology and Investment Strategy Advisor, Temasek (GenZero)
2020 – 2021	Senior Scientific Advisor, Novālent Ltd., Greensboro, NC
2020 – 2022	Retained Consultant and Advisor, Bolt Threads, Berkeley, CA
2019 – 2020	Director, Global R&D and Innovation, Diversey, Inc., Fort Mill, SC
2019 – 2019	Retained Consultant and Technology Advisor, Orochem Technologies Inc., Naperville, IL

2016 – 2019	Director, Global Materials R&D and Innovation, Little Rapids Corp., Green Bay, WI
2014 – 2016	Technical Director, Nachurs Alpine Solutions Industrial (NASi), Marion, OH
2013 – 2014	Director, Materials Innovation and New Products, Reynolds Consumer Products, Lake Forest, IL
2012 – 2013	Retained Consultant and Technology Advisor, First Quality, McElhattan, PA
2011 – 2013	Technology Innovation Leader, Cleanse Corp., Irving, TX
2005 – 2011	Research Fellow, Innovation Institute, Georgia-Pacific, LLC (acquired by Koch Industries in 2005), Neenah, WI
2004 – 2005	Senior Business and Technology Development Manager, Center for Energy Technology (CET), RTI International, RTP, NC
1999 – 2004	Manager, Product Development, Buckeye Technologies (acquired by Georgia-Pacific, LLC), Memphis, TN
1996 – 1999	Senior Engineering Associate, Process Research & Development, Cabot Corporation, Pampa, TX
1992 – 1996	Research Engineer, Research & Development, Brown & Williamson Corporation (a subsidiary of B.A.T. Industries; acquired by R.J. Reynolds in 2004), Macon, GA
1992	Post Doctoral Research Associate, Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, MA
1986 – 1988	Research Assistant, Department of Chemical Engineering, Case Western University, Cleveland, OH

CERTIFICATIONS

2025	Clean Energy Solutions: Technological Change to Meet Emissions Reduction Targets, MIT Professional Education
2024	Critical Thinking: Problem-Solving and Decision-Making in a Complex World, Economist Education
2023	Generative AI and ML Fundamentals
2017	Advanced Topics in Intellectual Property and Patent Law, University of Wisconsin-Madison

2017	Understanding Intellectual Property and Patent Law, University of Wisconsin-Madison
2011	New Product Blueprinting, Advanced Industrial Marketing
2007	New Product Innovation, Development and Implementation Strategies, University of Chicago Graduate School of Business

TEACHING EXPERIENCE

2024	Taught a Short Course on "How to Build and Foster an Innovation Mindset and Boost Innovativeness", FTN, De Pere, WI
2023	Taught a Short Course on "Decarbonization: Potential Pathways and Technology Innovations for Net Zero", UW Madison, Madison, WI
2006 – 2016	Adjunct Faculty Instructor, Lakeland University, Appleton, WI taught courses in the Business Administration Program on –

- Principles of International Business
- Applied International Economics
- Business Internship for Sustainability
- Business Research Methodologies
- Marketing Research
- Marketing Principles

1985 - 1986	Instructor, Department of Chemistry, University of Rhode Island, Kingston, RI, taught Chemistry Lab Courses
1984 - 1985	Teaching Assistant, Department of Chemical Engineering, University of Rhode Island, Kingston, RI, taught Chemical Engineering Courses

AWARDS

- Georgia Pacific Value Creation Award (2009)
- Brown & Williamson Quality Improvement Award (1995)

AFFILIATIONS

- University of Wisconsin-Madison, College of Engineering and Office of Sustainability, Madison, WI

- Kotak School of Sustainability, Indian Institute of Technology (IIT), Kanpur, UP, India
- The Energy and Resources Institute (TERI), New Delhi, India
- INDA, Association of the Nonwoven Fabrics Industry - Advancing Engineered Material Solutions, Cary, NC

BOOK

"*The eCarbon Card Blueprint: Digital Solutions for Carbon Accountability – India as a Model*", (Armin Lear Press, Fall, 2025).

PATENTS

1. "Winterized Scale Inhibitor", US 2017/0130120 (May 11, 2017).

2. "Salt Solutions for Hydrate Plug Inhibition and Removal", US 2016/0312103, (Oct 27, 2016).

3. "Method of Making a Wiper/Towel Product with Cellulosic Microfibers", US 9,382,665 (July 5, 2016).

4. "Shale Stabilization Using Potassium Salts of Organic Acids", US Application No. 62/217,323, filed on Sep 11, 2015.

5. "Method of Making a Wiper/Towel Product with Cellulosic Microfibers", US 9,057,158 (June 16, 2015).

6. "Cleaning Wipe for Use with Disinfectants, Method of Manufacture Thereof, and System", US 2015/0017215 (Jan 15, 2015).

7. "Method of Making a Multi-Ply Wiper/Towel Product with Cellulosic Microfibers", US 8,864,945 (Oct 21, 2014).

8. "Method of Making a Wiper/Towel Product with Cellulosic Microfibers", US 8,864,944 (Oct 21, 2014).

9. "Multi-Ply Wiper/Towel Product with Cellulosic Microfibers", US 8,632,658 (Jan 21, 2014).

10. "Methods for Producing Nonwoven Materials from Continuous Tow Bands", US 8,623,248 (Jan 7, 2014).

11. "Heated Collectors, Nonwoven Materials Produced Therefrom, and Methods Relating Thereto", US 2013/0327705 (Dec 12, 2013).

12. "Belt-Creped, Variable Local Basis Weight Multi-Ply Sheet with Cellulose Microfiber Prepared with Perforated Polymeric Belt", US 8,540,846 (Sep 24, 2013).

13. "Acquisition Distribution Layers Produced from Continuous Tow Bands and Systems and Methods Relating Thereto", US 2013/0144238 (Jun 6, 2013).

14. "Nonwoven Materials from Polymer Melt Filaments and Apparatuses and Methods Thereof", US 2013/0122773 (May 16, 2013).

15. "Functional Ethylene Vinyl Acetate Copolymer Materials and Articles Relating Thereto", US Patent Application No. 61/657,442, filed on Jun 8, 2012.

16. "Ethylene Vinyl Acetate in Absorbency Applications", US Patent Application No. 61/657,425, filed on Jun 8, 2012.

17. "Cleaning Wipe for Use with Disinfectants, Method of Manufacture Thereof, and System", US 2011/0272304 (Nov 10, 2011).

18. "Space Saving Toilet Cleaning System", US 7,638,475 (Dec 29, 2009).

19. "High Performance Absorbent Structure", US 7,176,149 (Feb 13, 2007).

20. "High Performance Absorbent Structure", US 6,562,742 (May 13, 2003).

21. "Absorbent Cores with Y-Density Gradient", US 6,559,081, WO/2001/035886, (May 25, 2001).

22. "Unitary Absorbent Cores Having Profiled Strata and Improved Fluid Absorbency Performance", US Patent Application No. 09/715,856, filed on Nov 17, 2000.

PUBLICATIONS

1. Wahal, S., Oztekin, A., Bornside, D.E., and Brown, R.A., "Visualization of a Gas Flow Instability in Spin Coating Systems", **Appl. Phys. Lett.** *62* (20), 2584 (1993).

2. Wahal, S., Owiti, C.A., and Bose, A., "Electric Field Induced Variations in the Wettability of Stainless Steel by Ionic Surfactant and Electrolyte Solutions", **J. Adhesion Sci. & Tech.** *7(6),* 519 (1993).

3. Wahal, S., Owiti, C.A., and Bose, A., "Electric Field Induced Variations in the Wetting Behavior of Ionic Surfactant Solutions", **Contact Angles, Wettability and Adhesion, K.L. Mittal Ed.**, 295 (1993).

4. Wahal, S. and Bose, A., "Rayleigh-Benard and Interfacial Instabilities in Two Immiscible Liquid Layers", **Physics of Fluids**, *31*(12), 3502 (1988).

5. Wahal, S., Kumar, A., Sastri, S. and Gupta, S.K., "Modelling of Intramolecular Reactions in the Step-Growth Polymerization of Multifunctional Monomers", **Polymer**, 27, 583 (1986).

PRESENTATIONS

1. Wahal S., "Decarbonizing India – Potential Pathways and Enabling Technological Innovations for Net Zero by 2050", Invited Seminar, Indian Institute of Technology, Kanpur (2023).

2. Wahal S., "Biobased Materials - Vegan Leather", Invited Seminar, Indian Institute of Technology, Kanpur (2022).

3. Wahal, S., Oztekin, A., Bornside, D.E., and Brown, R.A., "Role of Hydrodynamic Instability in the Gas Dynamics During Spin Coating", Annual AIChE Meeting, Miami Beach, FL (1992).

4. Wahal, S., Oztekin, A., Bornside, D.E., and Brown, R.A., "Visualization of the Instability in the Boundary Layer Flow at the Surface of a Disk Rotating in a Spin Coating Apparatus", Annual American Physics Society Meeting, Division of Fluid Dynamics, Tallahassee, FL (1992).

5. Oztekin, A., Wahal, S., Bornside, D.E., and Brown, R.A., "Stability of Forced Flow Against a Rotating Disk", Annual American Physics Society Meeting, Division of Fluid Dynamics, Tallahassee, FL (1992).

6. Wahal, S. and Bose, A., "Electric Field Induced Variations in Wetting", Annual AIChE Meeting, Chicago, IL (1990).

7. Wahal, S. and Bose, A., "Surfactants, Substrate Charge and Wettability", Gordon Conference on Chemistry at Interfaces, Meriden, NH (1989).

8. Owiti, C.A., Wahal, S. and Bose, A., "An Experimental Study of the Effects of Substrate Charge on Static Contact Angles and Contact Angle Hysteresis", Annual AIChE Meeting, Washington D.C. (1988).

9. Wahal, S. and Bose, A., "Role of Surfactant in Rayleigh, Benard and Interfacial Instabilities in Multiple Layers", Annual AIChE Meeting, New York, NY (1987).

10. Wahal, S. and Bose, A., "Stationary and Oscillatory Instabilities in Two Immiscible Liquid Layers Heated from Below", 6th International Conference on Physicochemical Hydrodynamics, Oxford, UK (1987).

11. Wahal, S. and Bose, A., "Surface Tension and Density Driven Convection in Two Immiscible Liquid Layers Heated from Below", Annual AIChE Meeting, Miami Beach, FL (1986).

CHAIRPERSON

Chairman for a Session on Monolayers, International Symposium on Micelles, Microemulsions and Monolayers: Quarter Century Progress & New Horizons, University of Florida, Gainesville, FL (1995).