



# Stanley whitthimgham purdue chemical engineering se

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From 1994 to 2000, he served as the university's vice provost for research. He also served as vice-chair of the Research Foundation of the State University of New York for six years. He is a Distinguished Professor of Chemistry and Materials Science and Engineering at Binghamton University. Whittingham was named Chief Scientific Officer of NAATBatt International in 2017.

"All these batteries are called intercalation batteries. It's like putting jam in a sandwich. In the chemical terms, it means you have a crystal structure, and we can put lithium ions in, take them out, and the structure's exactly the same afterwards," Whittingham said. "We retain the crystal structure. That's what makes these lithium batteries so good, allows them to cycle for so long."

In 2019, Whittingham, along with John B. Goodenough and Akira Yoshino, was awarded the 2019 Nobel Prize in Chemistry "for the development of lithium-ion batteries."

Stanley is married to Dr. Georgina Whittingham, a professor of Spanish at the State University of New York at Oswego. He has two children, Michael Whittingham and Jenniffer Whittingham-Bras.

(As of 2019;update;:;28;)

(Michael) Stanley Whittingham was born in Nottingham, England, in 1941. The longtime Society member and ECS Fellow won the 2019 Nobel Prize in Chemistry for his research in developing lithium ion batteries. He shared the prize with John Goodenough and Akira Yoshino.

With John Goodenough, Whittingham published Solid State Chemistry of Energy Conversion and Storage in 1977. Additional important books include Materials Science in Energy Technology (with G. G. Libowitz, 1979) and Intercalation Chemistry (with A. J. Jacobson, 1984). Whittingham founded the journal Solid State Ionics in 1981 and served as its editor for 20 years. He holds 16 patents.

"Open data is the only way to move the world forward, learning from give and take to find new ways to connect the dots and have new insights, that is what electrochemistry has done already for hundreds of years."

It was so 1970s. Diversification was the new name of the corporate game. In 1972 it seemed a no-brainer for Exxon Research and Engineering to look at alternative energy production and storage. And so, with the deepest pockets of perhaps the most profitable oil giant in the world, it set about seeking the best scientists in the world for the project.



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