

BIG BATTERIES

FOR POWERING OUR HOMES AND BUSINESSES



Featuring *Robert F. Savinell*

JUNE 11

In this talk Dr. Savinell will first address the challenges of using a conventional lithium-ion battery, like we have in our phones and computers, for very large storage systems. These batteries store electricity in very high energy density materials surrounded by combustible materials, which have the potential to explode and cause fires. A safer and potentially lower cost battery being developed during the past decade is the “flow battery”, and at CWRU we are developing one such battery using just iron as the chemical to store the electricity. He will describe how this battery converts electricity into dissolved iron salt in water which can then be stored in large tanks, and discuss its many features that make it promising for very large energy storage.

ROBERT F. SAVINELL

*Distinguished University Professor, Department of Chemical and Biomolecular Engineering,
Case Western Reserve University*

JUNE 11

DISCUSSION IS

7:00 - 8:00 PM

Doors open 5:30 – 9:00 PM

WHERE: Music Box Supper Club

LOCATED AT 1148 MAIN AVENUE, CLEVELAND, 44113



Science Café Cleveland is an informal public forum for the open discussion of current science issues. Join us the **second Monday of each month** at the Music Box Supper Club! SPONSORS: CWRU chapter of Sigma Xi, WCPN ideastream, Music Box Supper Club.

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