Our Staff

Dr. Robert Savinell

Distinguished University Professor
George S. Dively Professor of Engineering

Dr. Jesse Wainright

Associate Research Professor
Chemical Engineering

An ever growing group of research staff, post doctoral researchers, graduate and undergraduate students

Contact Us

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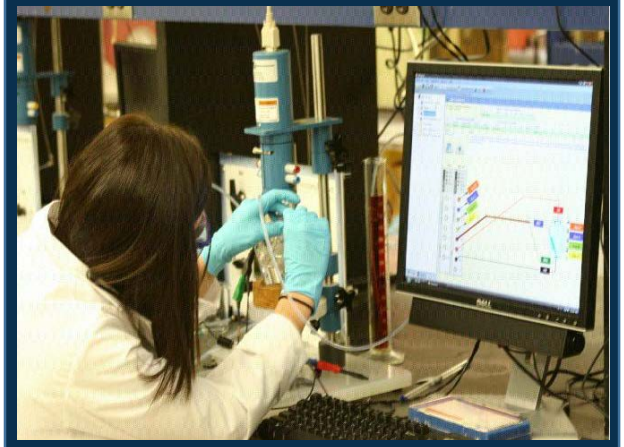
CASE WESTERN RESERVE UNIVERSITY EST. 1826
think beyond the possible™

Electrochemical Engineering and Energy Lab



Department of Chemical Engineering

Case Western Reserve University

Great Lakes Energy Institute

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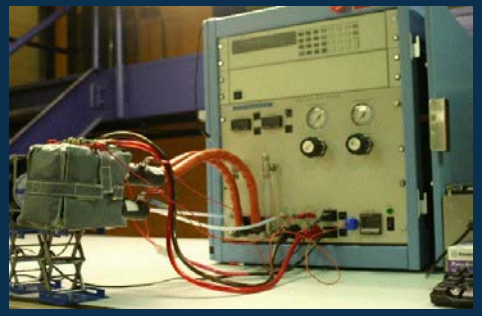
Our Facilities

100 F Capacitor Prototyping Center

(Supported by Ohio Third Frontier)

Single Cell and Small Stack Flow Battery Research



Single Cell and Small Stack Fuel Cell Research

Research Interests

Electrochemical Engineering

Electrode Processes

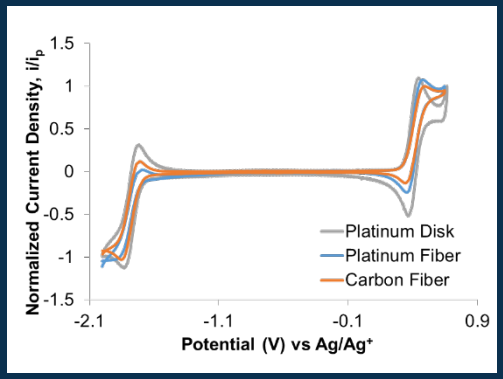
Electrocatalysis

Energy Conversion

Energy Storage

Energy Efficiency

Device Design



Consulting

- Experts in the field of electrochemistry and electrochemical energy storage

Coordination - University wide Resources

- Great Lakes Energy Institute Energy Solutions
- Yeager Center Electrochemical Research
- Swagelok Center for Materials Surface Analysis

Education

- Degreed Programs and Research for Bachelor, Masters and Doctorate degrees

Recent Projects

ARPA-E

High Energy Storage Capacity, Low Cost Iron Flow Battery

Developing a flowable electrode to decouple power and energy in the all iron battery

Department of Energy

Iron Based Flow Batteries

Developing new flow battery chemistries and investigating fundamental aspects of flow battery materials

National Science Foundation

Sustainable Energy Pathways Program

Development of a non-aqueous redox flow battery for grid storage applications

Department of Energy

Faraday Technologies STTR Phase 2

Advance new designs to combine flow battery components to lower cost

National Institute of Health

Electrodes for Nerve Conduction Block

Developing electrodes based on super capacitor concepts for the safe delivery of AC or DC currents for nerve block

Ohio Third Frontier Innovation Creating Opportunity

NIH National Institutes of Health

U.S. Department of Energy | Electricity Delivery & Energy Reliability

NSF

arpa·e