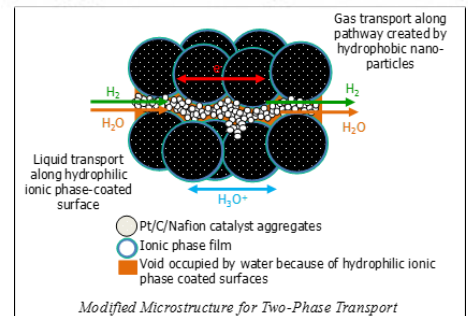
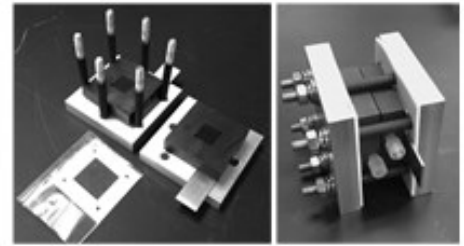


Electrochemical Engineering Lab

Research:

- Fuel cells for electrical power sources and energy storage
- Interfacial & multi-phase transport
- Nano-materials design, synthesis & engineering
- Modeling of electrochemical processes & systems.



Collaborating Faculty:

UCSB: E. McFarland (ChE) and H. Metiu (Chem.)

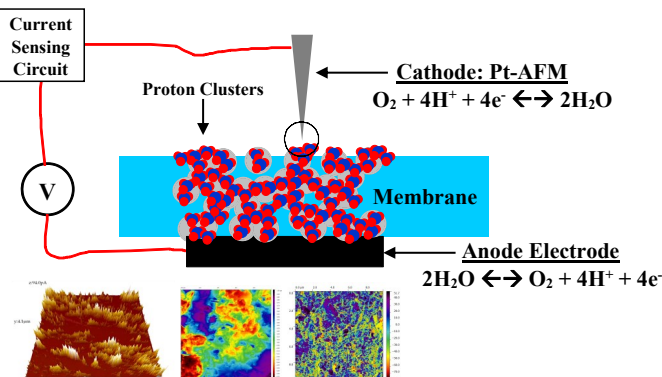
Vanderbilt: P. Pintauro (ChE)

U.T. - Arlington: W.-J. Lee (EECS)

Case Western Reserve: D. Scherson (Chem)

Northeastern: S. Mukerjee (Chem)

LBNL: A. Weber (EET Div.)

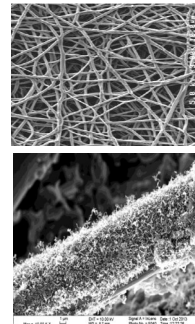
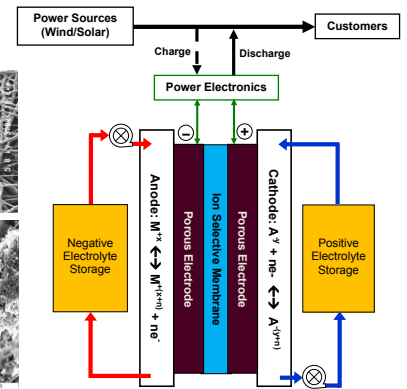


Equipment:

- Multimode Atomic Force Microscope
- Potentiostats/Galvanostats/RDEs
- Catalyst, electrode, membrane and fuel cell synthesis and testing equipment

Funding Sources:

National Science Foundation
Department of Energy/ARPA-E



Carbon nanotubes on carbon fiber

Director:

Trung Van Nguyen, Ph.D.
(Texas A&M University, 1988)

Professor,
Chemical & Petroleum Engineering

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Courses:

Graduate: Convective Momentum & Heat Transport, Advanced Transport Phenomena II, Kinetics & Catalysis, Advanced Mathematical Modeling, Electrochemical Engineering

Undergraduate: Materials and Energy Balances; Momentum Transfer, Chem. Eng. Kinetics and Reactor Design, Chem. Eng. Lab I & II



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