Research Division

“Research” is what happens when you pair curiosity with knowledge, inspiration, perspiration and determination. The mission of the Office of the Vice President for Research, Innovation and Economic Development is “to provide to those individuals who are admitted quality research opportunities and experiences that are consistent with the overall University Commitment.” The Research Division is also responsible for maintaining an infrastructure within a supportive environment that encourages both faculty and students to produce research with results that are making our world better every day (see Mission , Vision, Goals for more info). Join us in our quest for “new knowledge.”

Prestigious research projects underway by DSU faculty members serve to enhance DSU's land-grant mission and its contributions to the nation's research efforts.

View a sampling of ongoing research activity to see some of the interesting research going on at DSU.

The Office of Sponsored Programs [1] has more information about research and grant opportunities.

DSU’s Hydrogen Storage Research Center

The primary focus of the Hydrogen Storage Research Center is finding novel materials that can store and release large quantities of hydrogen gas at moderate temperatures and pressures. These materials can be used on board vehicles for hydrogen fuel cell applications. Materials are being sought that will absorb at least 6 wt. % hydrogen by the year 2010 and 9 wt. % by 2015 (DOE objective).

The Research Center is involved in all aspects of hydrogen storage research including:

- fabricating and testing the hydrogen storage materials
- determining the amount of hydrogen that can be absorbed and released from these materials
- determining their thermodynamic stability
- finding catalysts that are suitable for certain reactions
- measuring the kinetics of uptake and release, and
- performing modeling studies to determine the mechanism that controls the reaction rates.

Dr. Andrew Goudy, who has over 25 years of experience in this area, heads the Hydrogen Storage Research Center.

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Links
[1] http://www.desu.edu/office-sponsored-programs