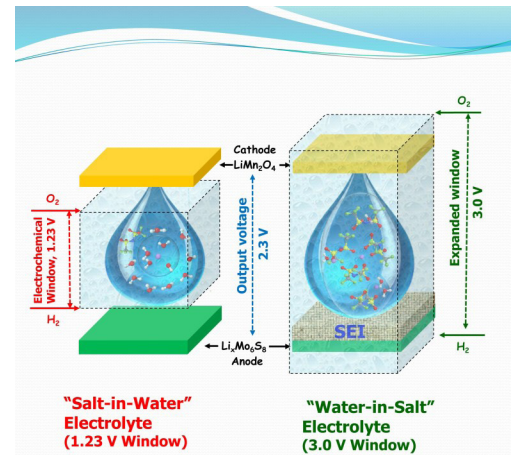


**At semester's end  
with Winter break upon us  
much Energy news!**

## UMERC Prof. Chunsheng Wang & Team Discover Salty Solution to Better, Safer Batteries

UMD and Army Research Laboratory researchers have devised a groundbreaking "Water-in-Salt" aqueous Lithium ion battery technology that could provide power, efficiency and longevity comparable to today's Lithium-ion batteries, but without the fire risk, poisonous chemicals and environmental hazards of current Lithium batteries. This work, published in the journal *Science*, demonstrates a major advance in the long history of water-based (aqueous) batteries by doubling the voltage, or power, of an aqueous battery.

Full news article: [go.umd.edu/cswang-news](http://go.umd.edu/cswang-news)



Celebrating the Energy Entrepreneur



energy innovation summit

Feb. 29 – Mar. 2, 2016 | Washington, D.C.

This winter, UMERC will have NINE (9) booths showcasing UMD Faculty innovations at the ARPA-E Summit!

Visit the booths at the Technology Showcase Feb 29th- March 2nd and learn more about the exciting technologies being developed at UMD.

More information: [www.arpae-summit.com/Home](http://www.arpae-summit.com/Home)

## Dr. Liangbing Hu wins 2015 Junior Faculty Outstanding Research Award

The Junior Faculty Outstanding Research Award is an important Clark School tradition, an annual honor (now in its fifth year) whose purpose is to celebrate and inspire exceptionally strong and influential research by faculty members at the assistant or associate professor rank. The recipient's work should promise significant and lasting impact in his or her research discipline.

The impact of Dr. Hu's scholarly contribution to his field is well evidenced by a strong publication record with more than 100 peer-reviewed publications, as well as having received over 10,000 citations to his work. Dr. Hu has been recognized by a broad spectrum of members of the scientific and engineering community.

Full news article: [go.umd.edu/binghu-news](http://go.umd.edu/binghu-news)



## UMD ECS Student Chapter Wins 3rd Consecutive Electrochemical Society Student Chapter Award



Since 2013, the Electrochemical Society (ECS) has awarded student chapters with the Outstanding Student Chapter Award (UMD Student Chapter won the inaugural award), and the Student Chapter of Excellence (UMD won in 2014 and again this year).

The UMD ECS student chapter impacts education and research through its outreach activities and presentations at ECS conferences. Its diverse and growing membership includes students from the Departments of Chemical and Biomolecular Engineering (ChBE), Materials Science and Engineering (MSE), Chemistry & Biochemistry, Electrical & Computer Engineering (ECE), and Mechanical Engineering (ENME). The chapter's president, Thomas Hays (MSE) is particularly proud of the chapter's continuing dialog with Senators and Representatives in Washington D.C. to highlight the importance of their continued support for scientific research.

Full news article: [go.umd.edu/ecs-student-news](http://go.umd.edu/ecs-student-news)

## RFP's for 2016 Graduate Student Energy Fellowships

UMERC is currently accepting proposals for the following research fellowships:

One \$24,000 **Hulka Energy Research Fellowship** will be available for a UMD graduate student pursuing research in the following areas:

- advanced solar energy conversion,
- fuels and power from sustainable biological process,
- renewable wind energy, or
- ocean thermal/ wave/ or geothermal energy conversion

Two \$24,000 **Harry K. Wells Graduate Fellowships** are available for UMD graduate students pursuing research in sustainable energy generation and/or storage.

Application deadline:  
**January 14th, 2016**

Download the full RFPs and application instructions on the UMERC website:

[www.umerc.umd.edu/students/funding](http://www.umerc.umd.edu/students/funding)

## UMERC Faculty Lunch Seminars

During the Spring and Fall semesters, UMERC Faculty are invited to the UMERC Conference room twice monthly to hear about the latest UMERC Faculty research, publications, projects, and potential energy-related funding opportunities. If you have a topic you would like to present during next Fall semester's UMERC faculty lunches, please contact [info\\_energy@umd.edu](mailto:info_energy@umd.edu)

## Transforming Energy Lecture Series

UMERC hosts monthly Transforming Energy Lectures to showcase exciting energy research, news from important industry leaders, and insights from federal agency administrators. All are welcome to come to these lectures and join in discussing the advances that are, or have the potential to change all aspects of the energy field as we know it today.

Spring 2016 Lecture Schedule:

- January 28th -- Jigar Shah
- February 16th -- Alison Taylor

More details can be found on the UMERC website:

[www.umerc.umd.edu/transforming-energy-lectures](http://www.umerc.umd.edu/transforming-energy-lectures)