





Prof. Bor Yann Liaw

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Dr. Bor Yann Liaw directs the Electrochemical Power Systems Laboratory at the University of Hawaii.

His expertise is on advanced battery and fuel cell technologies.

Recent work includes the evaluations of commercial batteries for mobile, transportation and stationary storage applications, from battery testing, evaluation, analysis, to battery management, using diagnostic, prognostic, modeling and simulation tools; in situ characterizations of interfacial properties of electrodes using spectroscopic imaging ellipsometry, QCM and electrochemical techniques; and, bio-fuel based energy conversion and storage, including sugar-air alkaline battery and fuel cells.

Will lecture on:

Do We Really Know Battery Well?

Batteries are chemical systems that can be used to convert chemical energy to electrical one using electrochemical pathway directly.

Batteries can be used as an energy source or a power source, depending on the objective and application.

Although the earlier electrochemical systems were found since 1800, the year Alessandro Volta published his work; our understanding regarding advanced battery systems remains illusive. In this presentation, we shall reflect our current understanding of the battery behavior with some unique perspectives to at least explain how much we know about the batteries. We still have a long way to go to make batteries viable for future applications.

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David Wang Auditorium, 3rd floor Dalia Maydan Bldg.

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