



4th International Symposium on
Energy **C**hallenges & **M**echanics
- working on small scales

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Speaker of Session 02

PHOTOVOLTAICS



Levi Lentz is a PhD candidate in Mechanical Engineering at MIT, completing his SM at MIT and BS at San Diego State, both in Mechanical Engineering. He has a heavy interest in energy issues as energy and water will be two of the largest issues nations have to address in the coming generation. Using computational tools, novel material and engineering designs can be quickly iterated upon prior to large scale investment by research groups. To this end, the tool currently used are Density Functional Theory (DFT) to design new materials for energy applications. Current work is on addressing issues with existing organic photovoltaic materials with the main driving factor being making

them viable from an efficiency standpoint. In the future, he would like to work on clean water generation from renewable resources both for a human need as well as an alternative to energy storage need.

