



## Winter Symposium and Seminar 2013

February 1<sup>st</sup>, 2013 at 4pm

CNSI Auditorium

### Featuring: Dr. Willem Vermaas

School of Life Sciences and Center for Bioenergy  
and Photosynthesis,

**Arizona State University**

## Cyanobacteria: Solar-powered Biocatalysts that Produce and Excrete Useful Products

We have set out to “teach” cyanobacteria to use solar energy to fix CO<sub>2</sub> to make and excrete useful organic molecules for human use. We use the cyanobacterium *Synechocystis* sp. PCC 6803 as a model biocatalyst to enhance carbon flux into the lipid/fatty acid biosynthesis pathway and eliminate laurate consumption by the cyanobacteria. Such new approaches to biofuel production can be much more sustainable and “green” than current practices, and makes cyanobacteria leading candidates for the production of the next generation of biofuels, commodity chemicals, and other compounds that currently are made from oil.



@CleanGreenIGERT



### Following the Seminar:

Posters and Networking Reception with Hors d'oeuvres

