

## Clancy group: 2016 projects– Organic electronics

### 4. Optimization and search for new organic electronic materials (Sengar, Heden, Acevedo)

#### Flexible organic electronics:

Displays, RFIDs, computer memory, sensors.  
Multi-billion dollar market  
Manufacturing *ordered* organic thin films is currently an art.

#### NEW

- Discover “design rules” underlying chemistry-structure-processing of thin film organic semiconductors
- Computational project

#### Computational Tools:

- **Electronic structure calculations**
- **Molecular Dynamics**
- **Bayesian search and optimization tools**

