

POETS

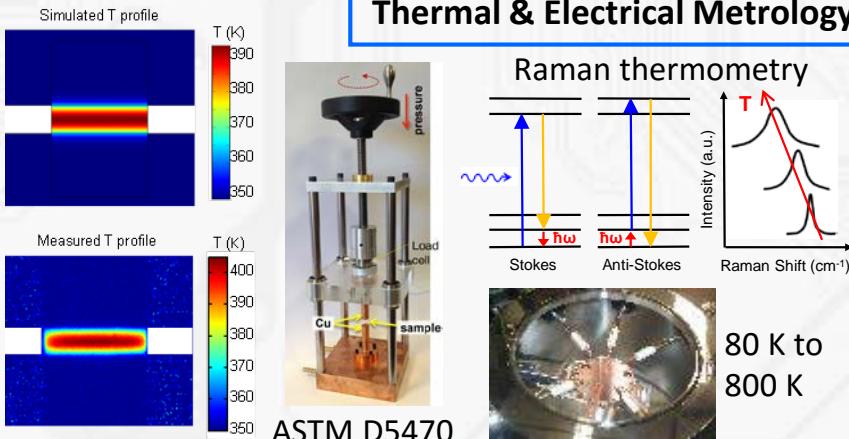
# Eric Pop – Stanford

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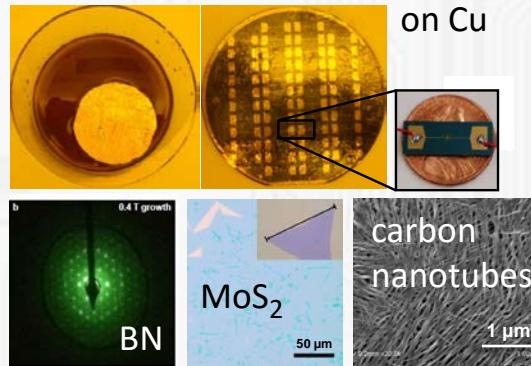


- High thermal conductivity nanomaterials: carbon nanotubes, graphene, BN
- Heterogeneous integration of nanomaterials
- Electro-thermal devices
- Modeling and Experiments

<http://poplab.stanford.edu>

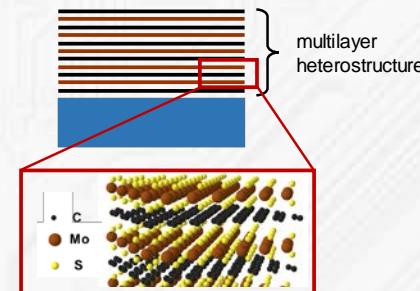


Large-scale growth of graphene on Cu



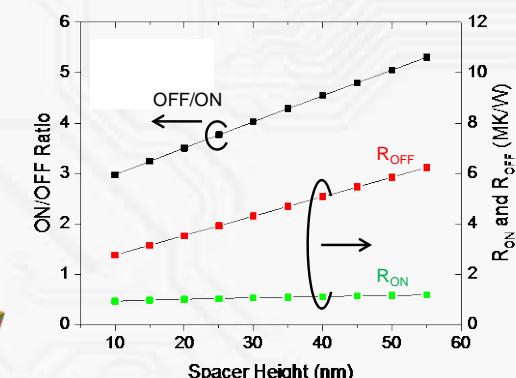
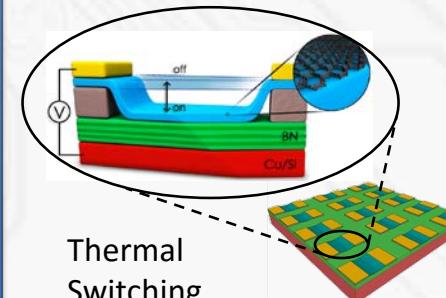
## Nanomaterial Growth and Assembly

$K \sim 500-2000 \text{ W/m/K}$



## Heterogeneous Integration

## Modeling & Device Design



## Electrical & Thermal Co-Optimization