

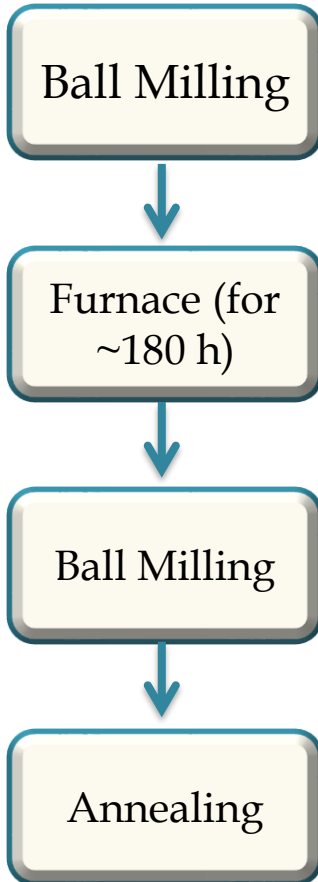


**AMEN**  
TECHNOLOGIES

# **Thermoelectric Materials (TE) - $\text{CoSb}_3$**

# Objective: To achieve a single phase skutterudite in a single step

## Traditional approach



Sintered Pellets and near net shape products

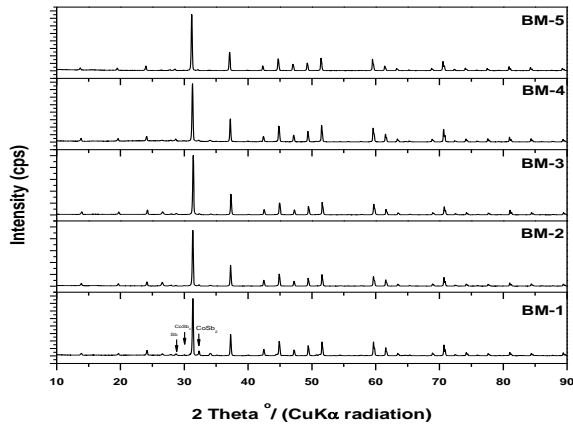
## AMEN approach

Ball Milling

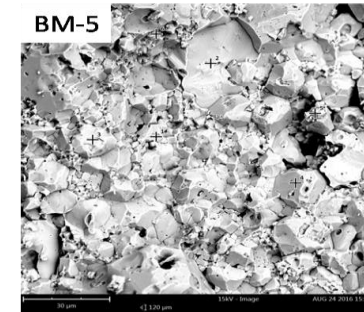
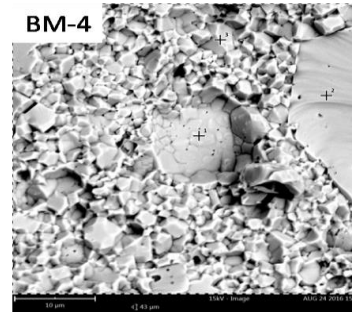
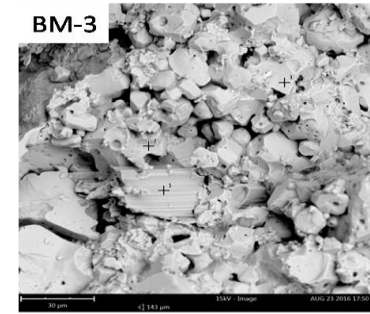
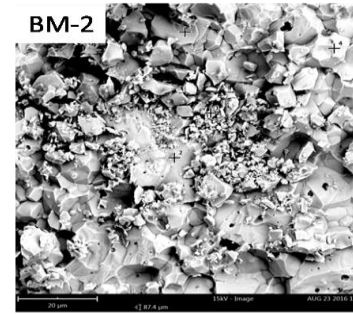
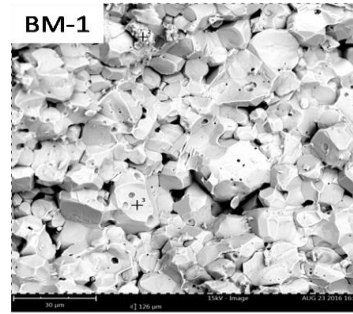


Rapid Heating System (RHS-1)

# Morphology



XRD patterns of single phase  $\text{CoSb}_3$  samples produced by different experimental conditions using our Bench Top RHS

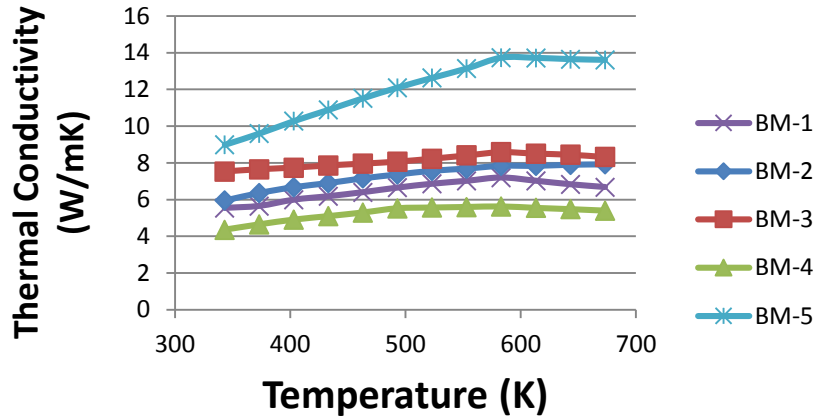


SEM images of single phase  $\text{CoSb}_3$  samples produced by different experimental conditions using our Bench Top RHS

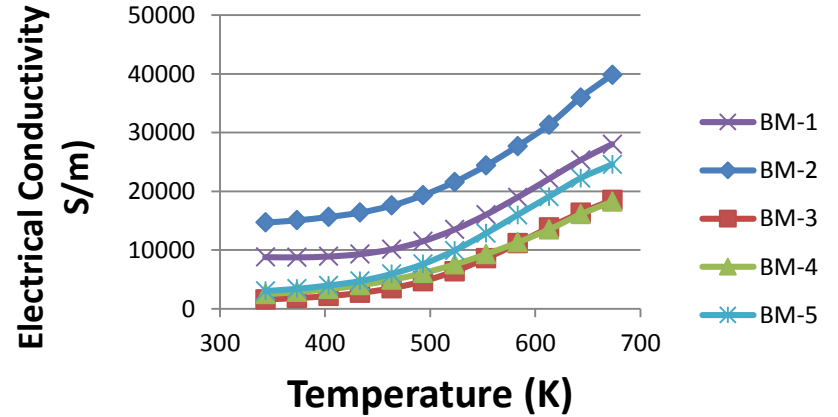
# Electronic properties of $\text{CoSb}_3$



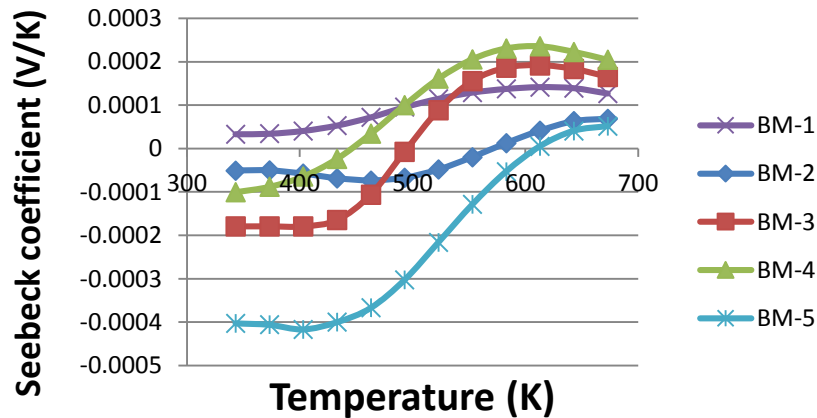
### Comparison of BM materials



### Comparison of BM materials



### Comparison of BM materials



### Comparison of BM materials

