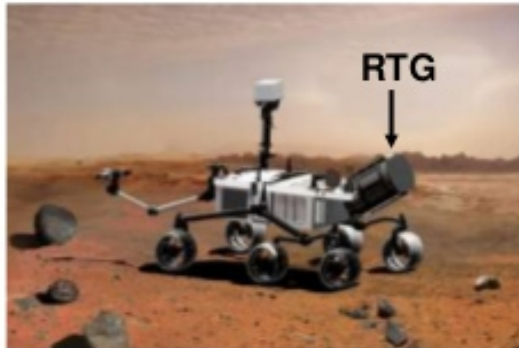
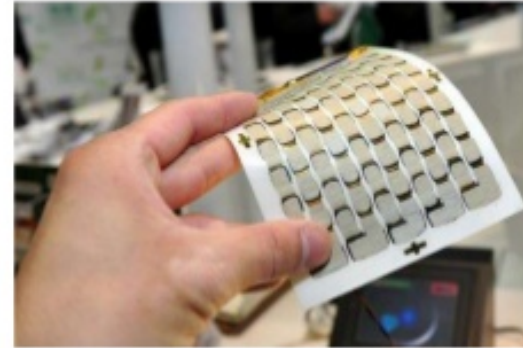


# Termoelektrika

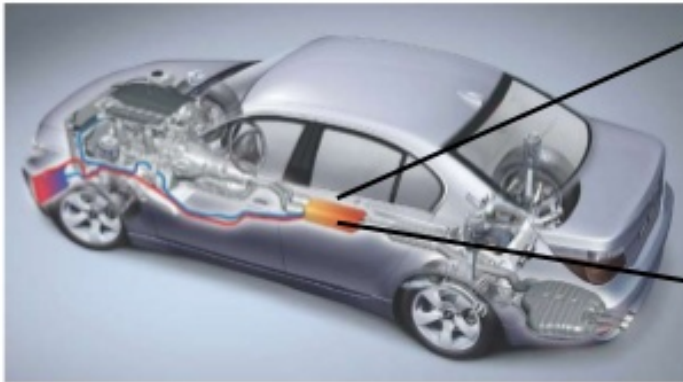
## APPLICATIONS OF TE MATERIALS



Mars Science Laboratory

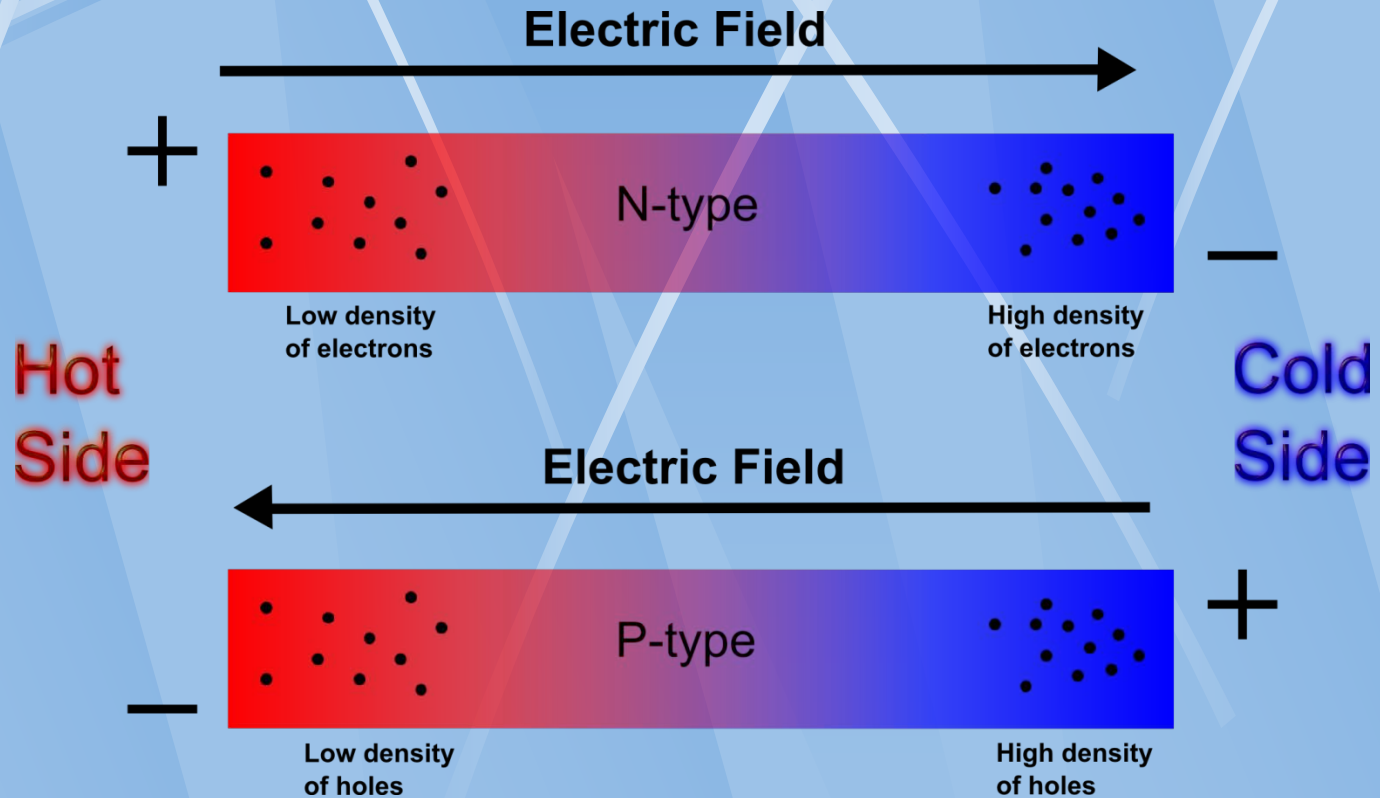


Thermoelectric converter module



Thermoelectric generator

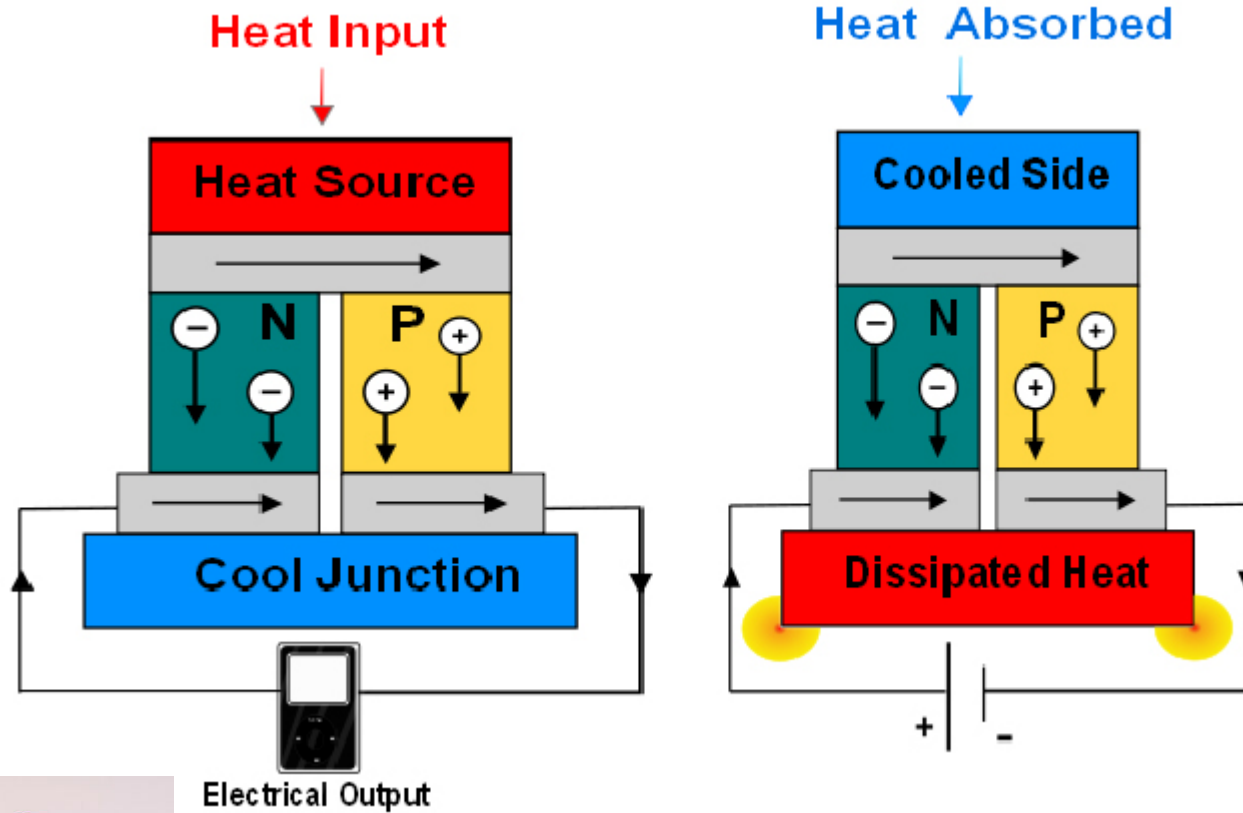
# Chování polovodičů p- a n- typu v teplotním poli



**Tento stav lze vyvolat rozdílným elektrickým potenciálem nebo teplotou konců**

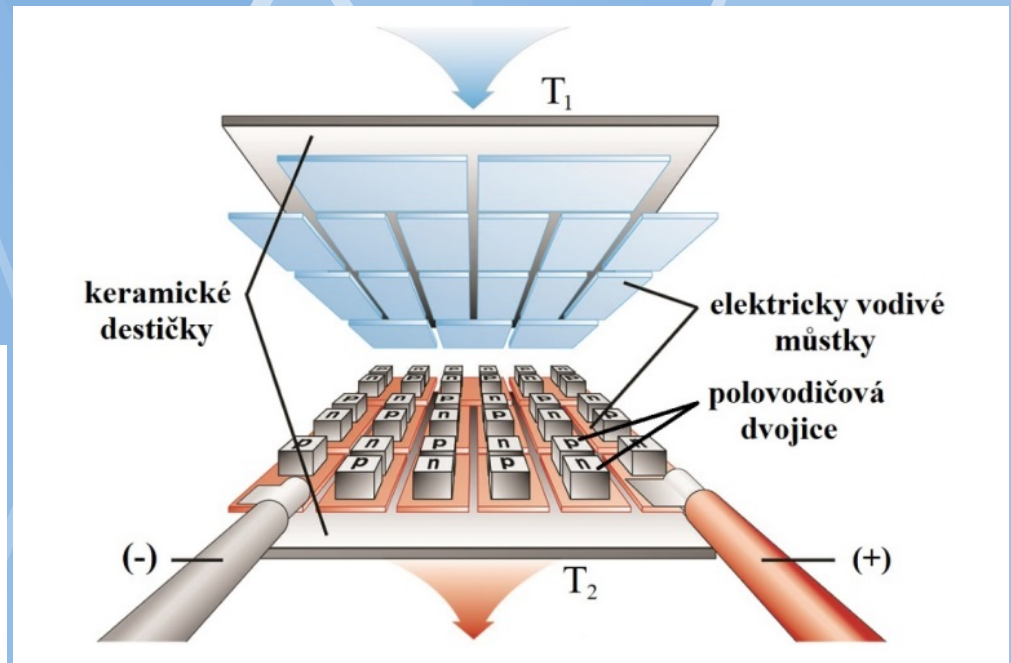
# Termoel. generátor

# Peltierův článek (chlazení)

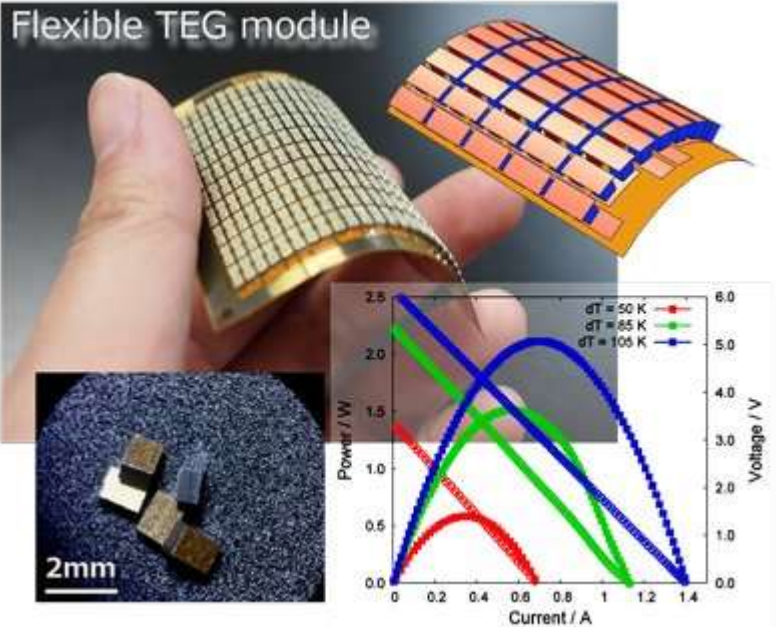


# Termoelektrický generátor jev

Schéma  
konstrukčního  
řešení



Flexible TEG module



Chalkogenidy: S, Se, Te

# Thermoelectric Materials - 1821

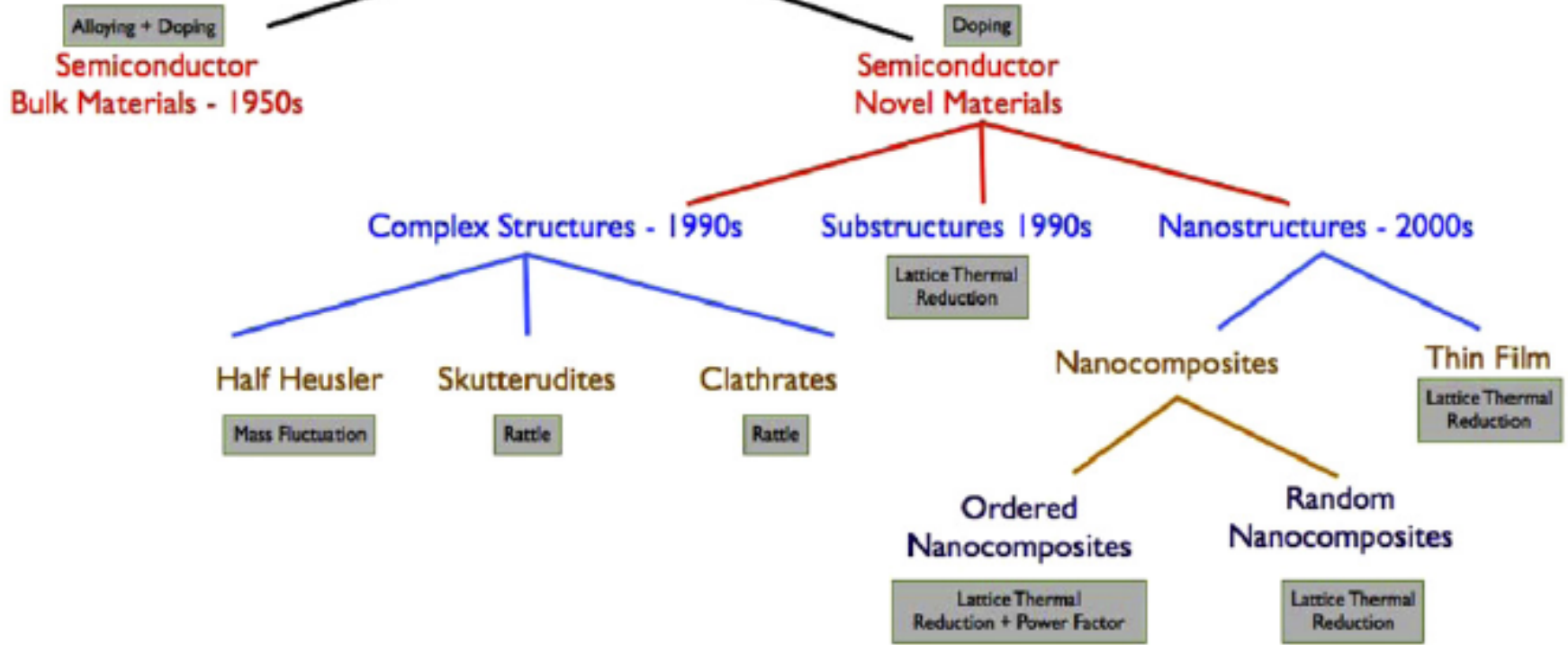
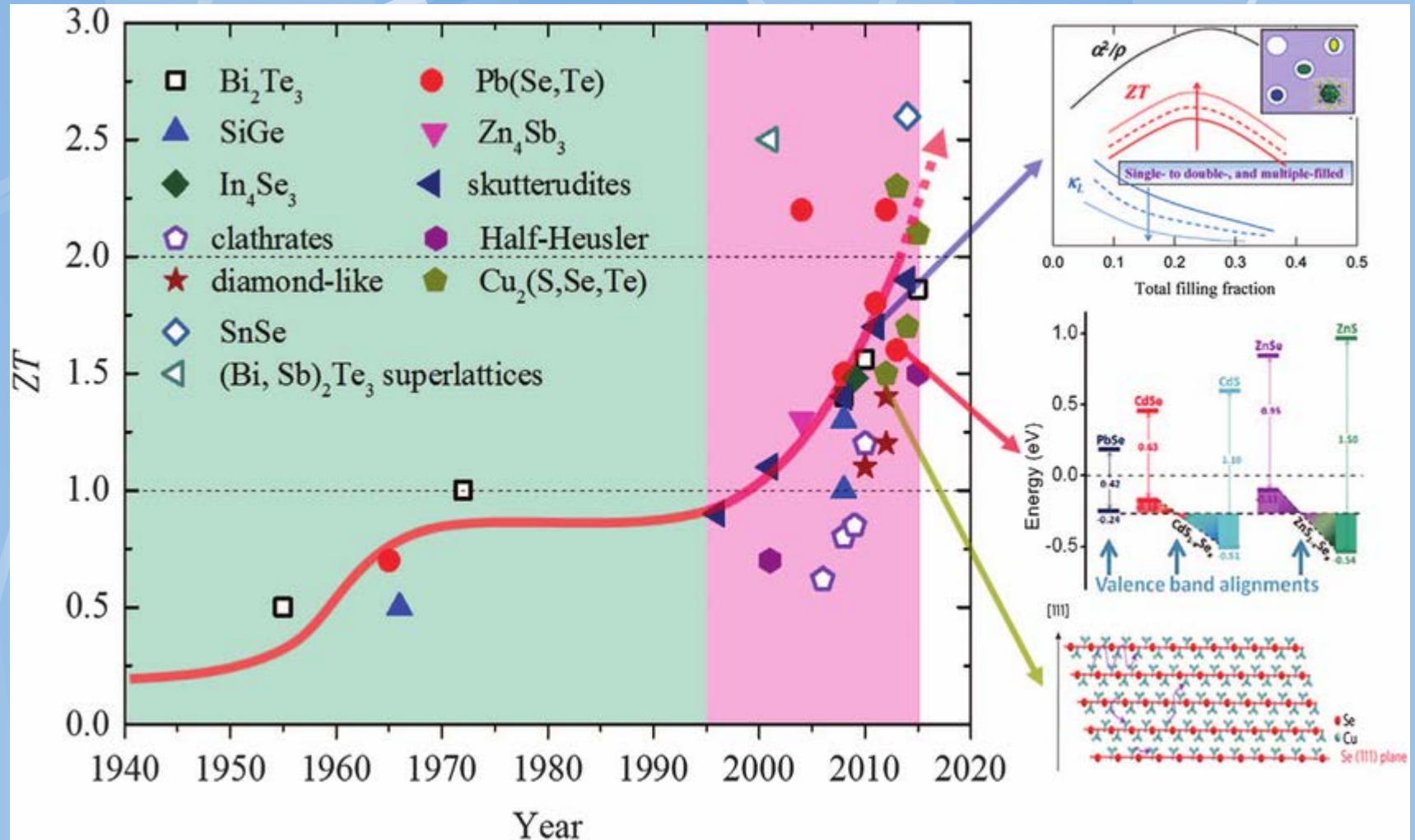


Figure 13 History of Efforts in increasing ZT.

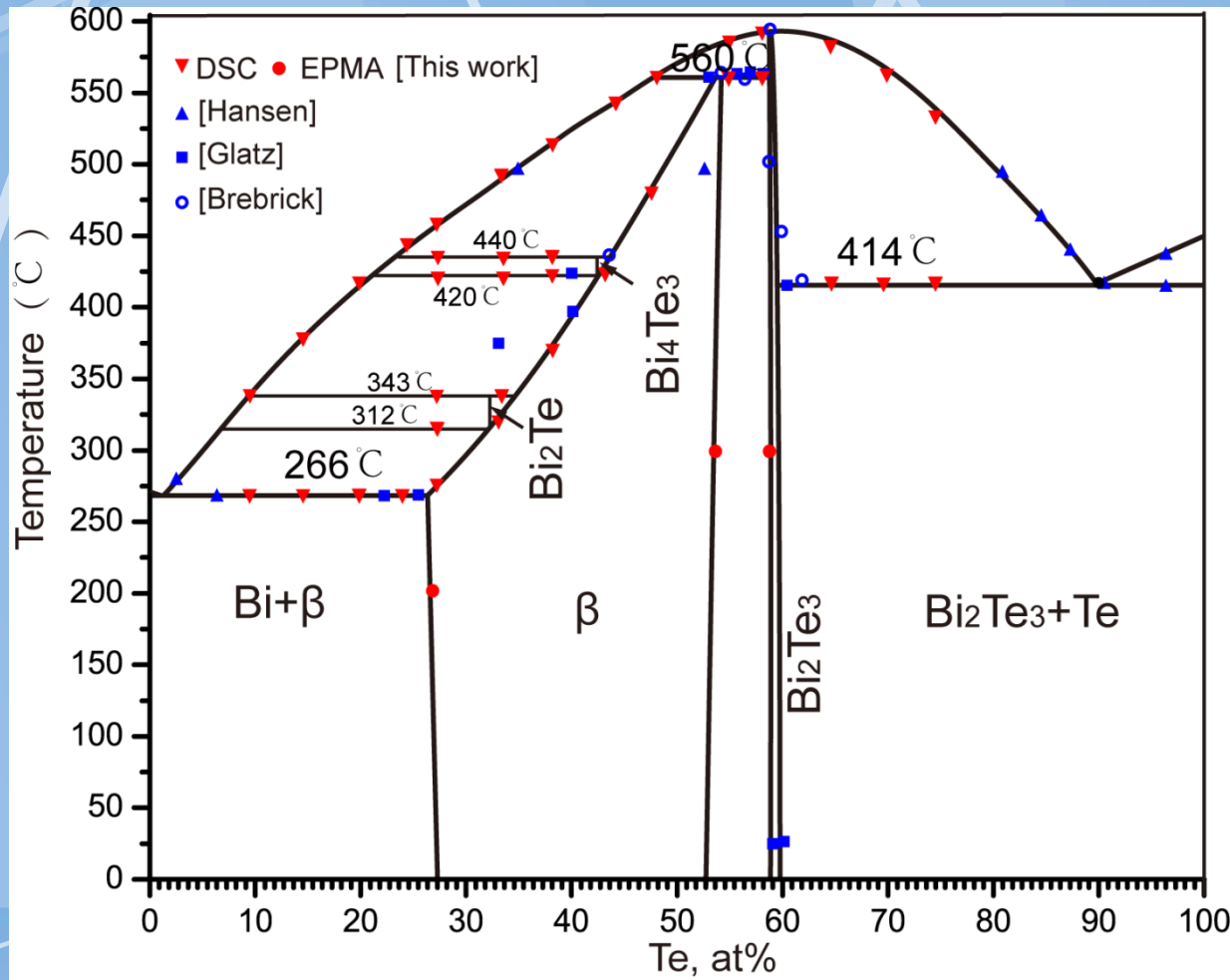




# Vývoj termoelektrických materiálů

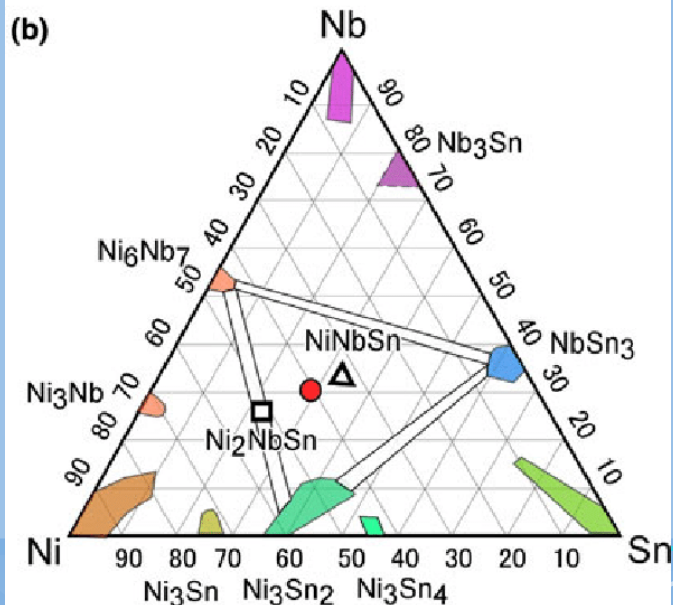
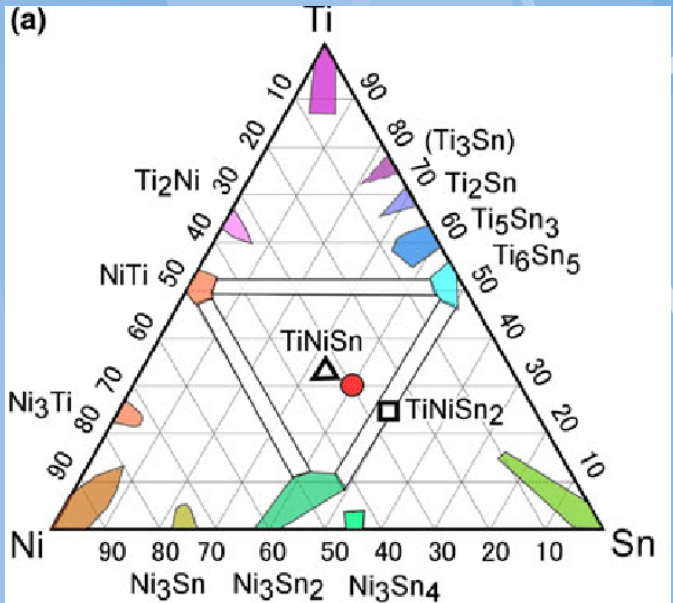


# Binary thermoelectrics Bi-Te

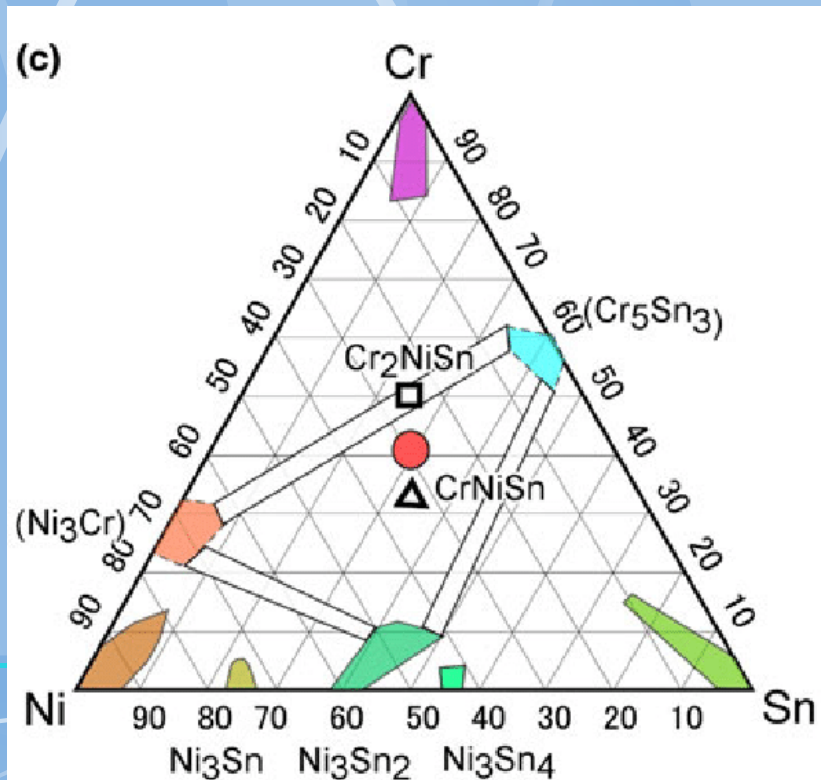




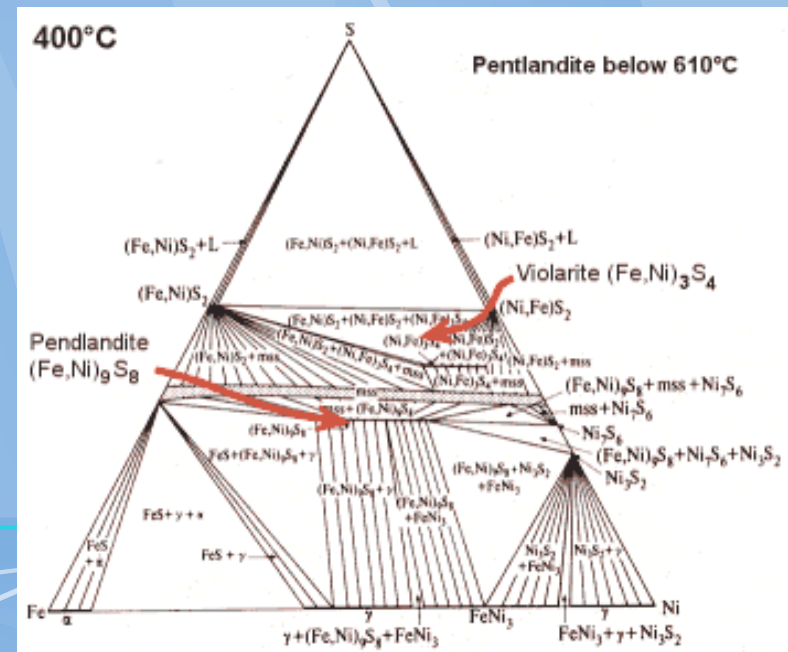
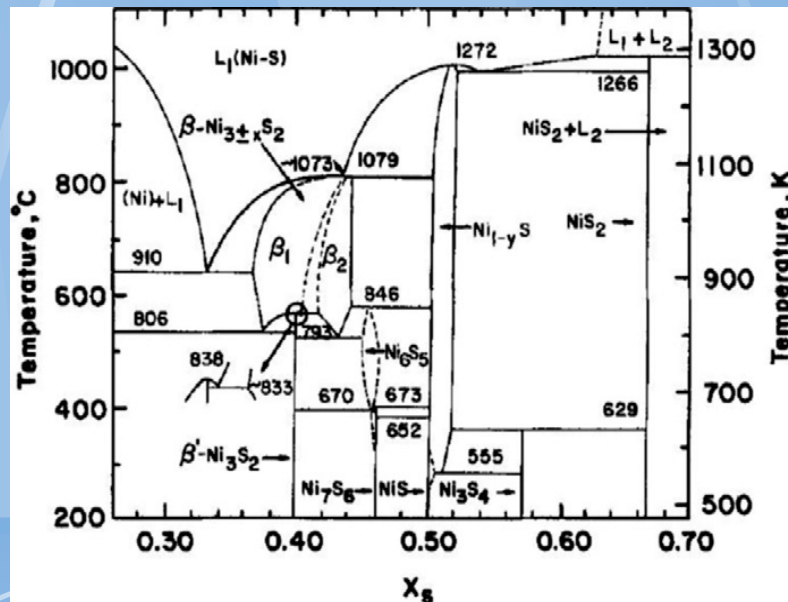
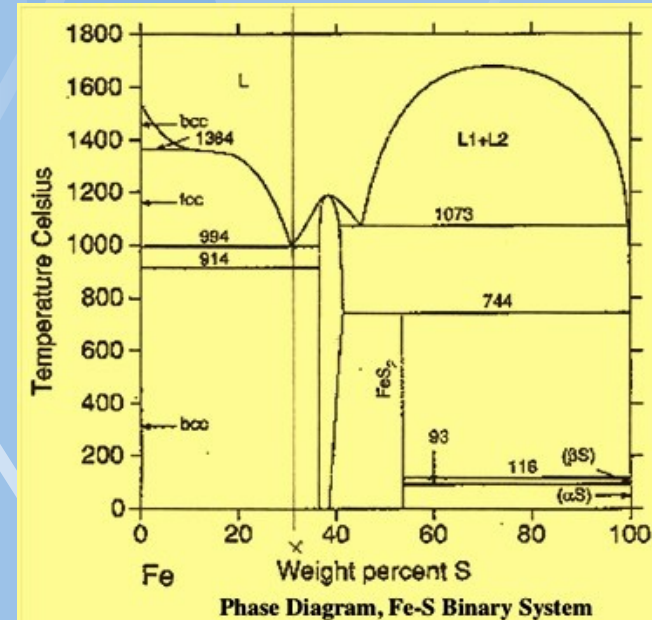
# Heusler compounds



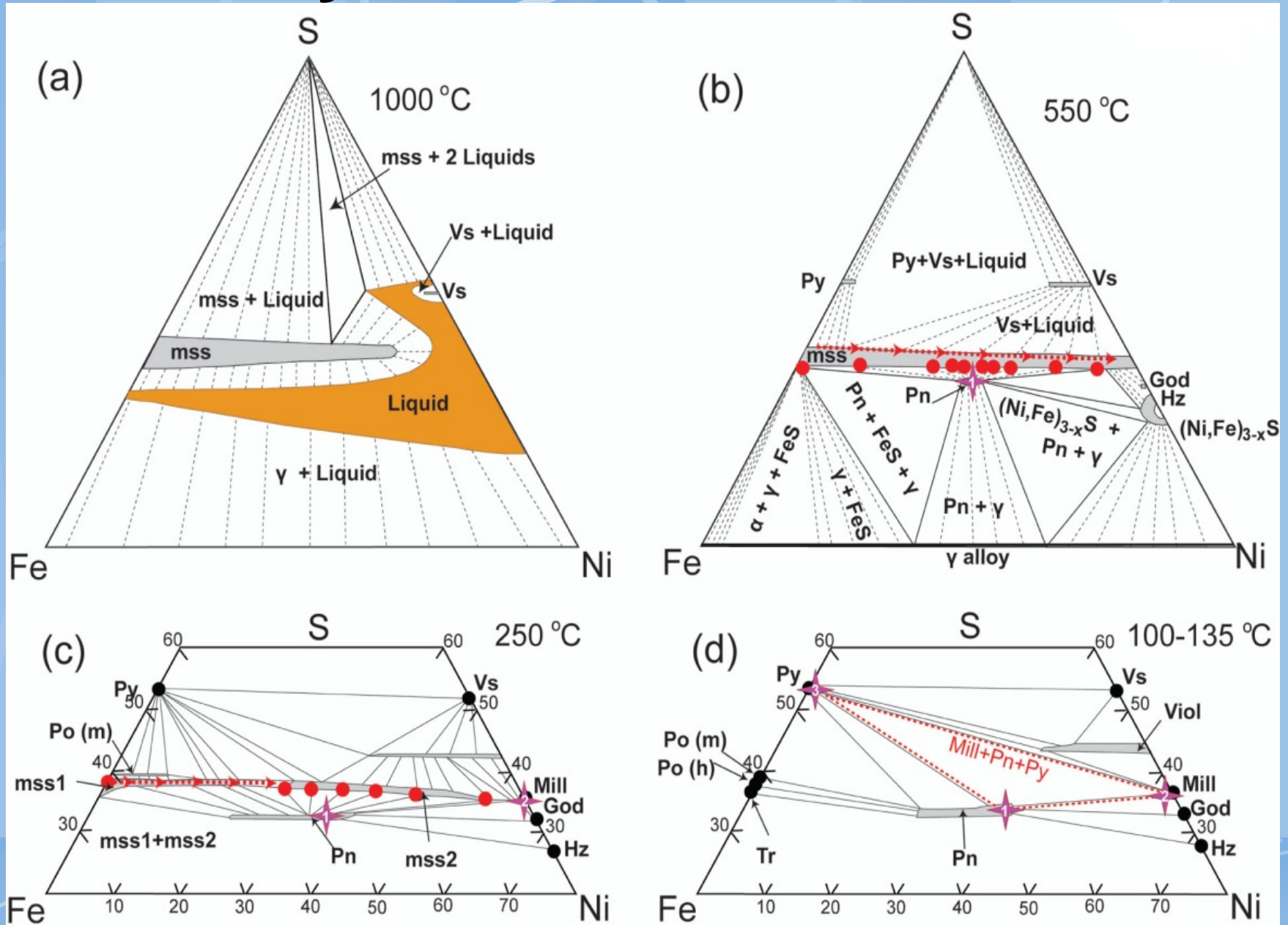
Ternary phase diagrams at room temperature and stable binary phases for metallic XNiSn alloys, with X = (a) Ti, (b) Nb, and (c) Cr. HH phases with X:Ni:Sn of 1:1:1 are marked with a triangle, the stable full-Heusler phases (a) TiNiSn<sub>2</sub>, (b) Ni<sub>2</sub>NbSn, and (c) Cr<sub>2</sub>NiSn are marked with a square, and the circles between them mark the specimens with the best experimental performance.



# Ternary thermoelectrics Fe-Ni-S



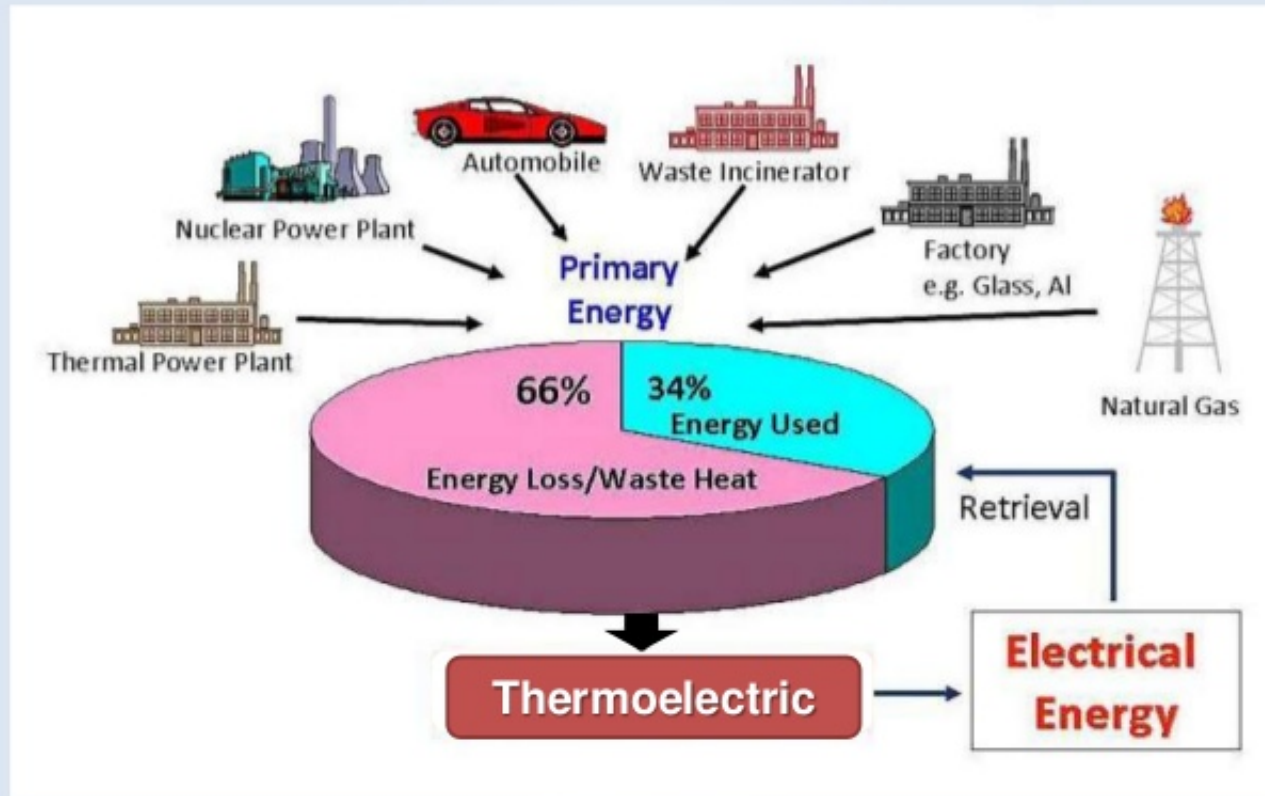
# Ternary thermoelectrics Fe-Ni-S





# Diskuse

## Waste Heat to Electricity



3



<https://www.dla.mil/HQ/Acquisition/StrategicMaterials/Materials/>