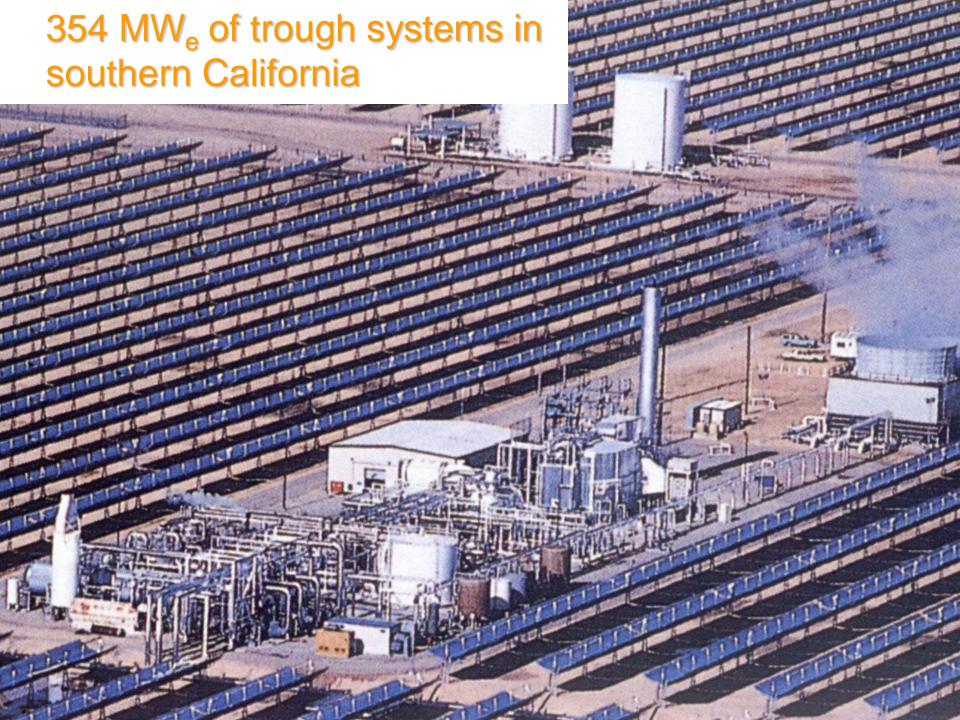


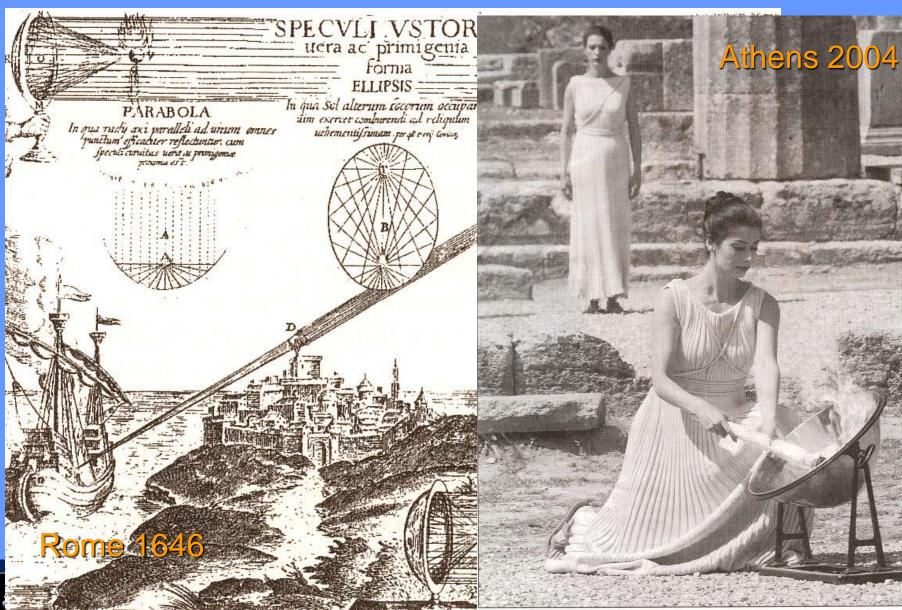


→ International links via SolarPACES (http://www.solarpaces.org)



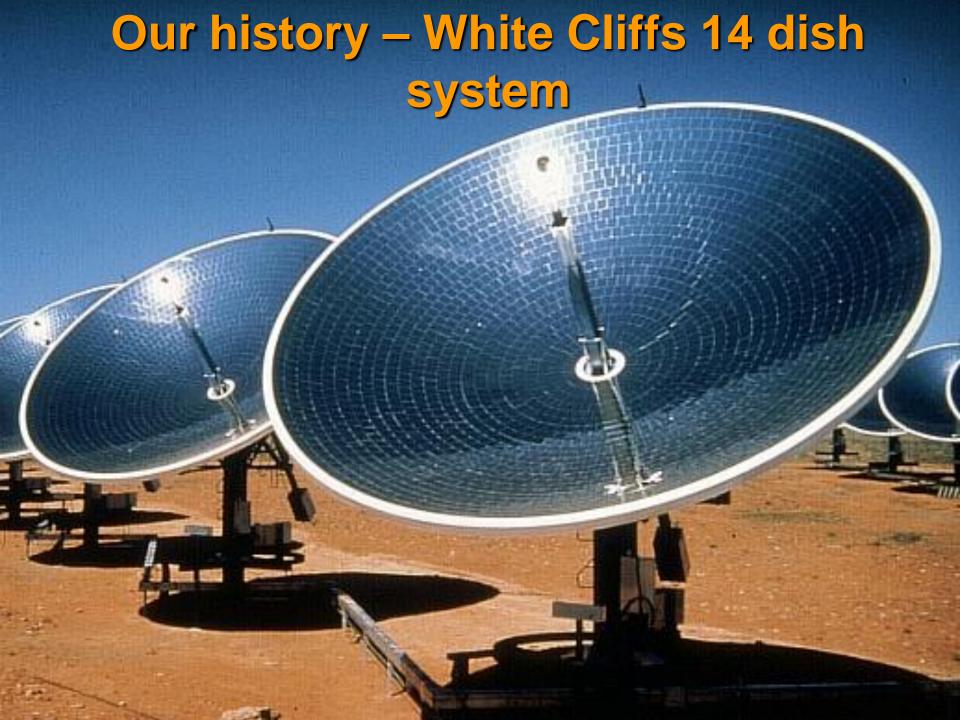


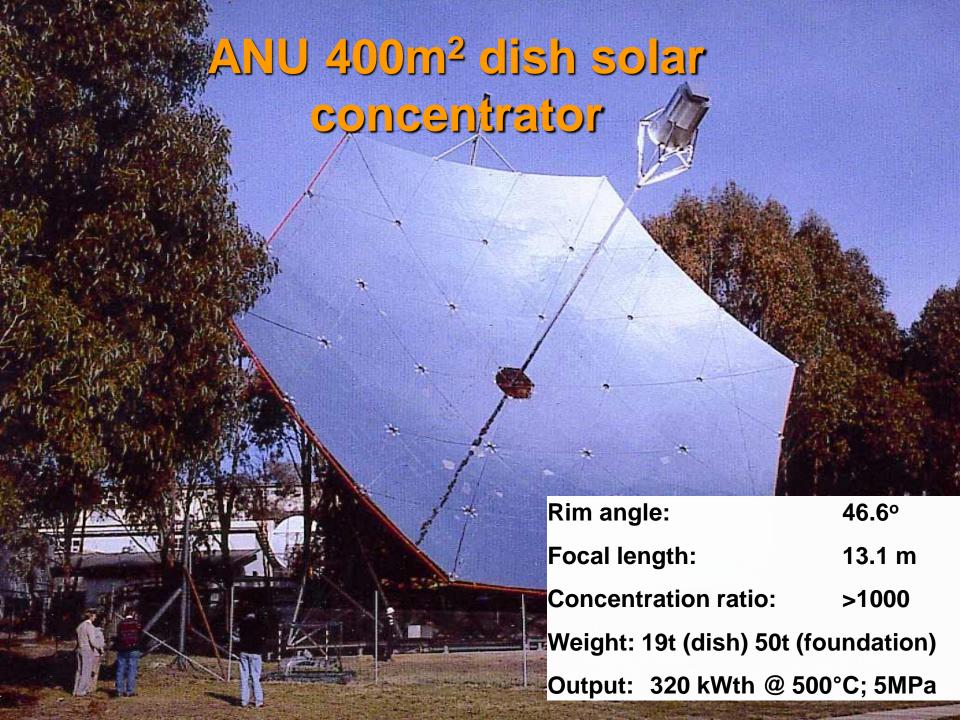
#### The latest technology.....



Greek actress Thalia Prokopiou, dressed as a high priestess, during a dress rehearsal of the traditional Olympic torch-lighting ceremony in ancient Olympia.

Picture: Reuters























Glass on metal mirrors for troughs and dishes



Glass on metal mirrors for troughs and dishes

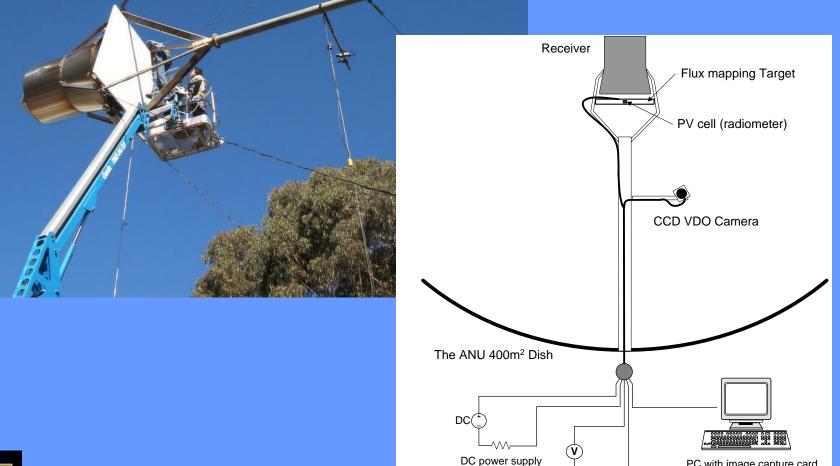


Glass on metal mirrors for troughs and dishes





### Lunar Flux Mapping



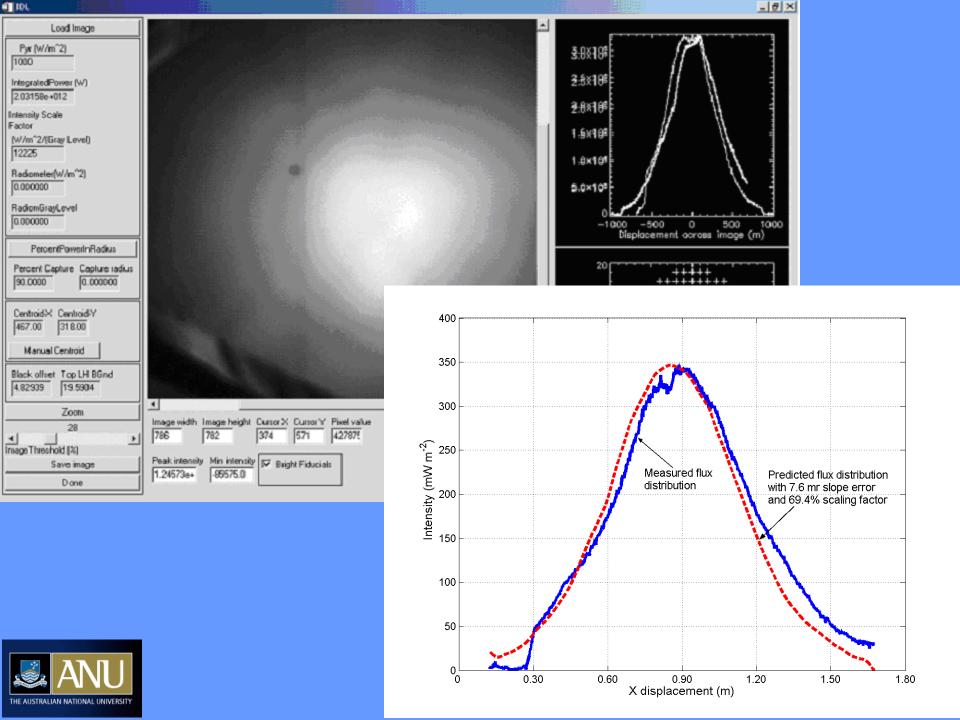
(LED light)

HP Digital Multi-meter (measure voltage across the PV cell)

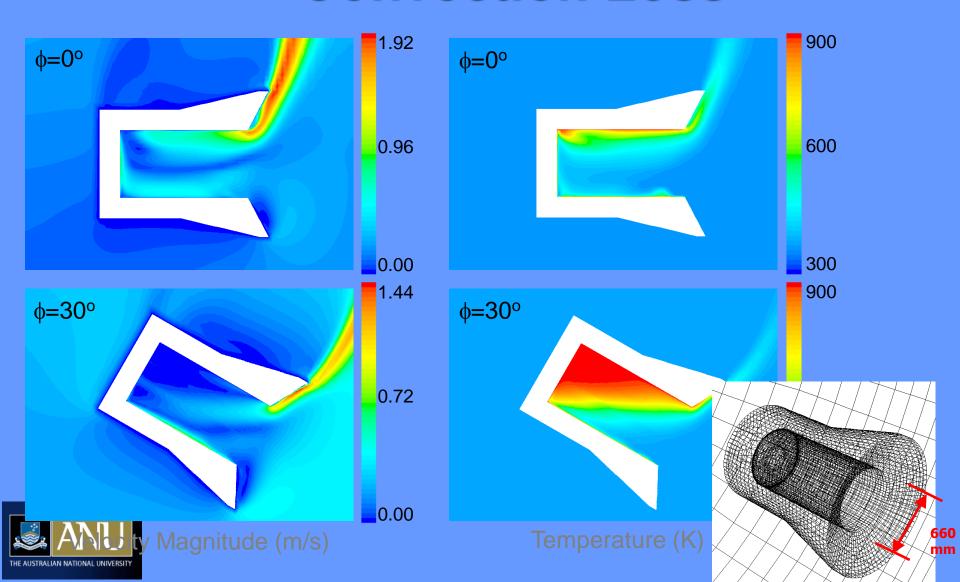
PC with image capture card

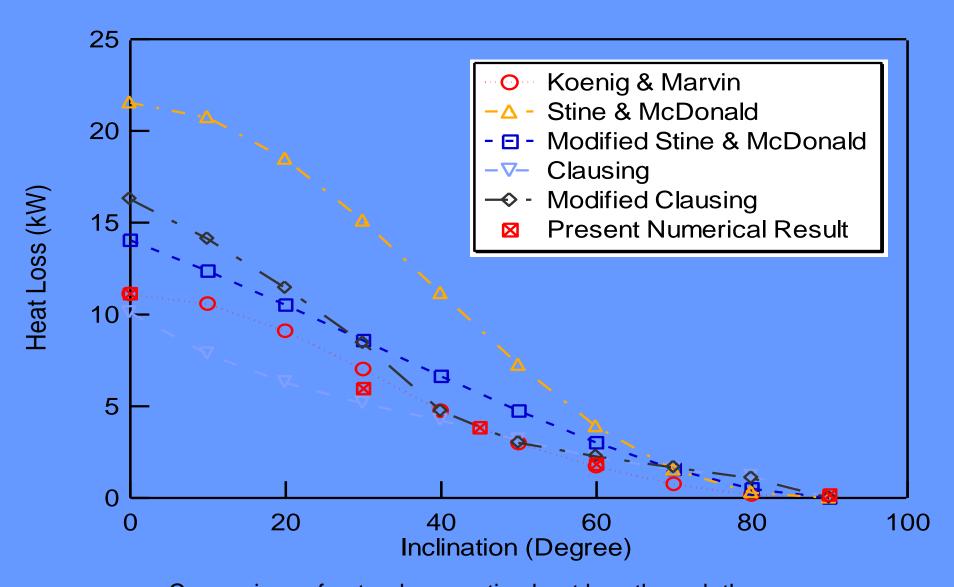
and EPIX software





# Investigation of Receiver Convection Loss



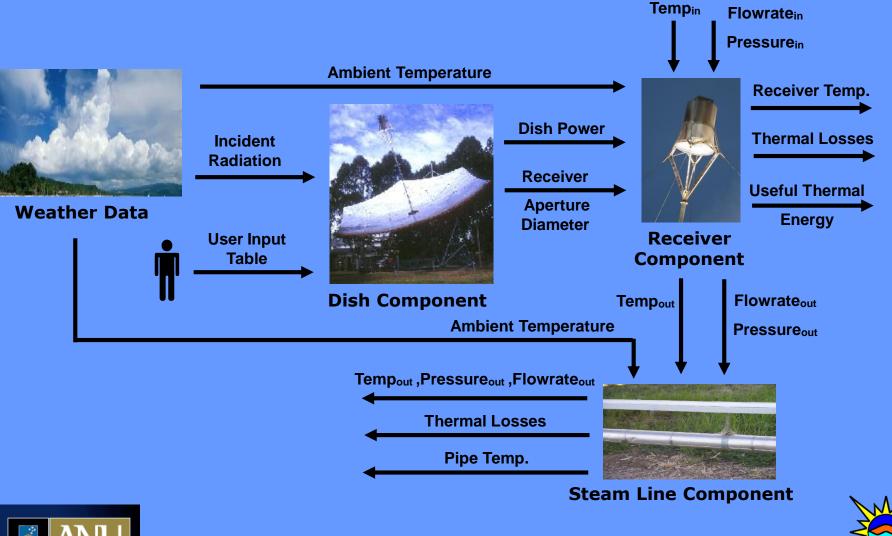




Comparison of natural convection heat loss through the aperture for 400 m<sup>2</sup> dish receiver.

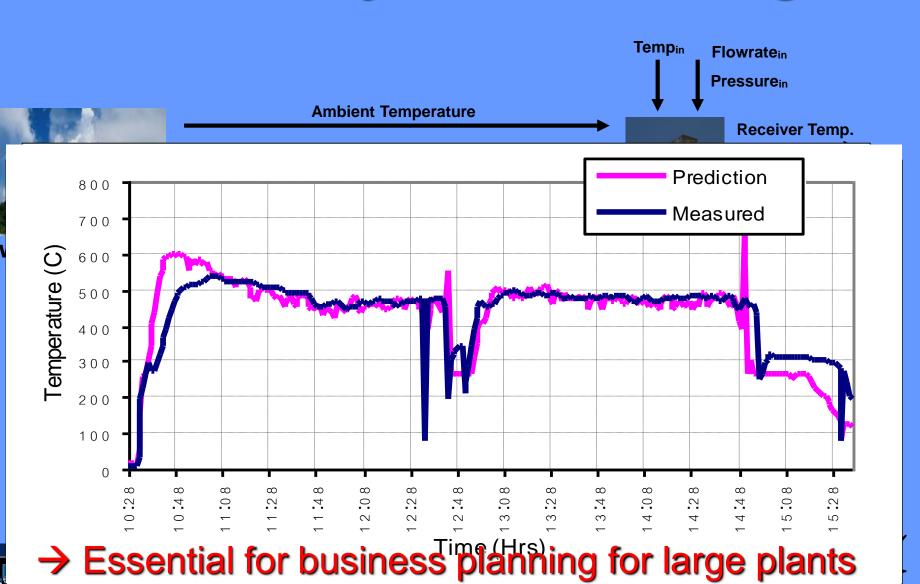


### Transient System Modeling

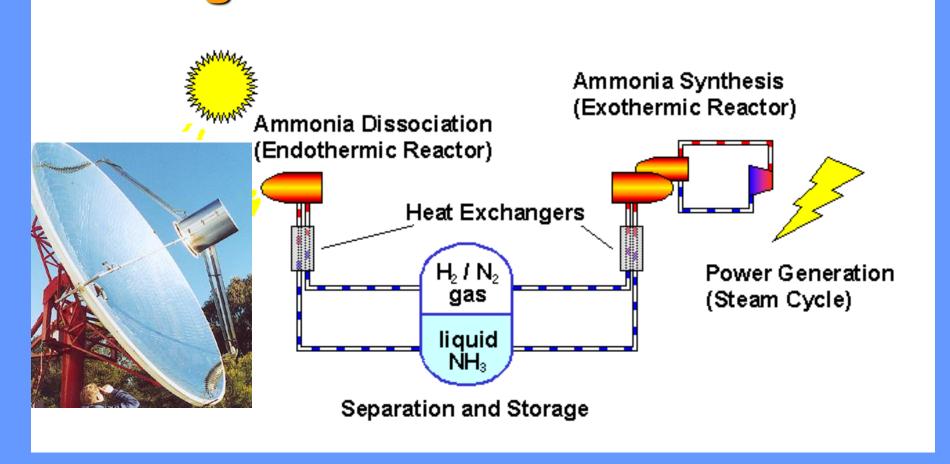




## Transient System Modeling



# Thermochemical Energy Storage

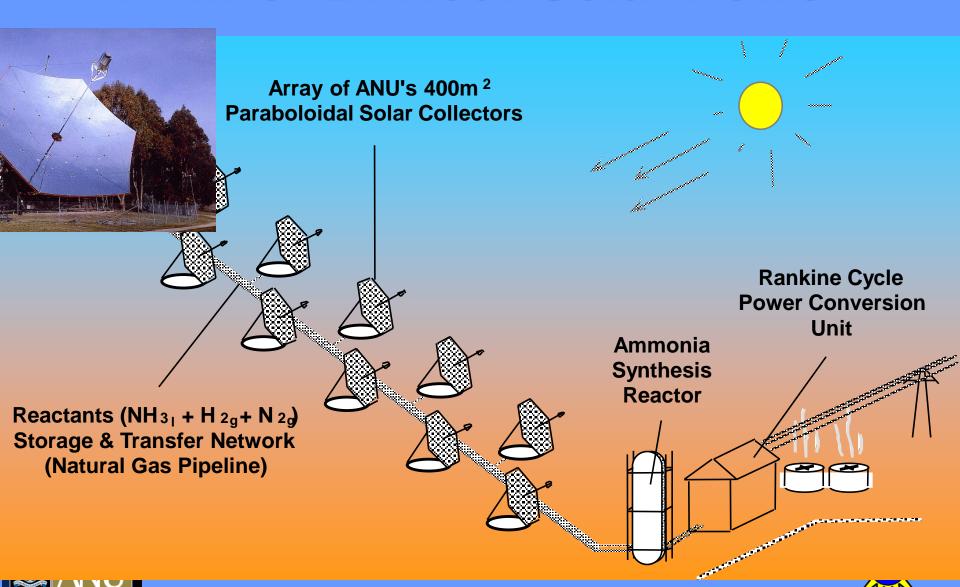




 $NH_3 + 66.8kJ/mol = 1/2N_2 + 3/2H_2$ 



#### .....For 24 Hour Solar Power

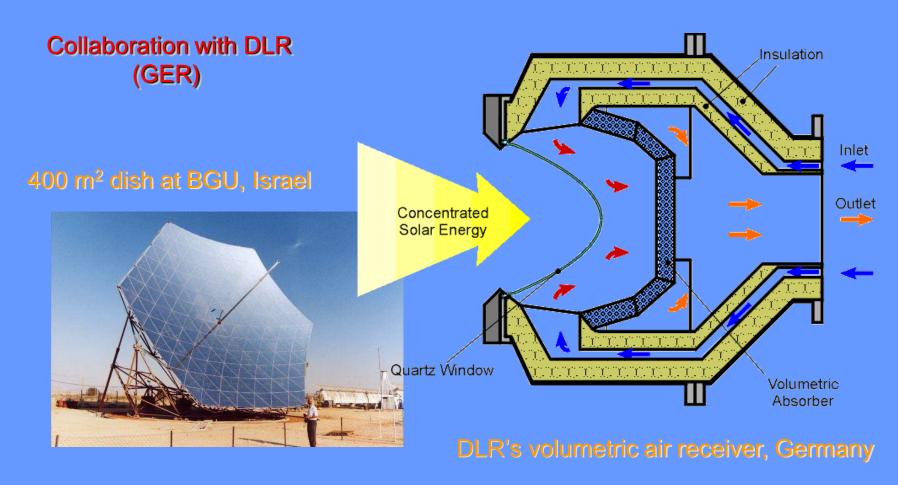








#### Solar Gas Turbine Study







#### Conclusions

- ANU large dish technology offers attractive route to large scale solar thermal power.
- Ongoing R&D leading to performance improvements for dishes and troughs
- Thermochemical storage offers 24 hr operation in the future.
- Dish designs, ammonia system and dish mirrors licenced to Wizard Power



