## Software and Automation Session Summary

Gurtner, McGarry

> Increased system automation is occurring in Network:

- software (eg Pearson: Stromlo, Pierron: FTLRS), and
- hardware (eg *Degnan: beam expander, Xin: TROS*).

> Automation calls for more and more complicated software. Software of the future needs to be modular, loosely coupled, flexible and reuseable (*Pearson*).

> An automated system can perform as well as a manually operated system (*Moore: Mt Stromlo*).

New tools & formats are helping in transition to new technologies at stations and in capturing these changes as they happen:

- Web applications for Engineering Data Files (*Salminsh*)
- Consolidated Prediction Format and Consolidated Data Format (*Ricklefs*)

## Software and Automation Session Summary (cont)

Other work can share the telescope system with SLR at no performance loss, given the right software (*Gurtner – CCD at Zimmerwald*).

Reprocessing (looking behind and projecting ahead) can provide 10 – 40% improvement in "real-time" signal processing over plain histogram analysis (*Heiner/Schreiber*).

The use of FPGAs for digital design in SLR systems is finding more and more applications: (Li: Beijing, Xin: TROS).

New software and control systems are being developed as new systems are designed (*Wang: San Juan*).