



PH-ESS

Electronic Systems Support

Electronics Pool Technical Advisory Board - EPTAB

EPTAB 8 - Introduction

Chris Parkman, PH-ESS

May 3, 2006

The Electronics Pool - a reminder

- *The role of the Electronics Pool*
 - Rapid, cost-effective availability instrumentation, modular electronics and infrastructure items
 - Quality control
 - A catalyst in encouraging common procurement using its purchasing power
 - A point of contact & reference for relations with suppliers
 - A tool to aid PH-ESS' support mission
- *What the Pool cannot do*
 - Developments
- *Resources*
 - Financial
 - Pool rental ~ 2.4 MCHF/year
 - Maintenance & consumables ~ 200 kCHF/year
 - Personnel ~ 160 kCHF/year
 - Disposable for re-investment ~ 2 MCHF/year
 - Personnel
 - Catherine Moine - Pool manager (technical, financial)
 - Bertrand Smaniotto - reception, logistics, administration
 - Alain Guy - test & repair (instruments, high voltage) (*Pool financed*)
 - Clément Richard - reception, logistics, test (*Pool financed*)
 - James Rouet - test & evaluation (front-end modules)

EPTAB

- *Established in 2002*

As one of a number of ways of enhancing the service given by the Electronics Pool and to augment the transparency in the choice of equipment, a representative body of users – The Electronics Pool Technical Advisory Board – is being established to advise the ESS Group Leader on relevant matters. The mandate of the EPTAB is given in detail below.

Although the members of the EPTAB will represent their specific activities in experiments and support groups, I ask you to take a wider view of the needs of the Research Sector, and the laboratory as a whole, in your deliberations.

I would like to thank you for agreeing to give some of your time to help improve the function of the Electronics Pool and to accept this formal appointment to the EPTAB.

ELECTRONICS POOL TECHNICAL ADVISORY BOARD

Mandate and Organisation

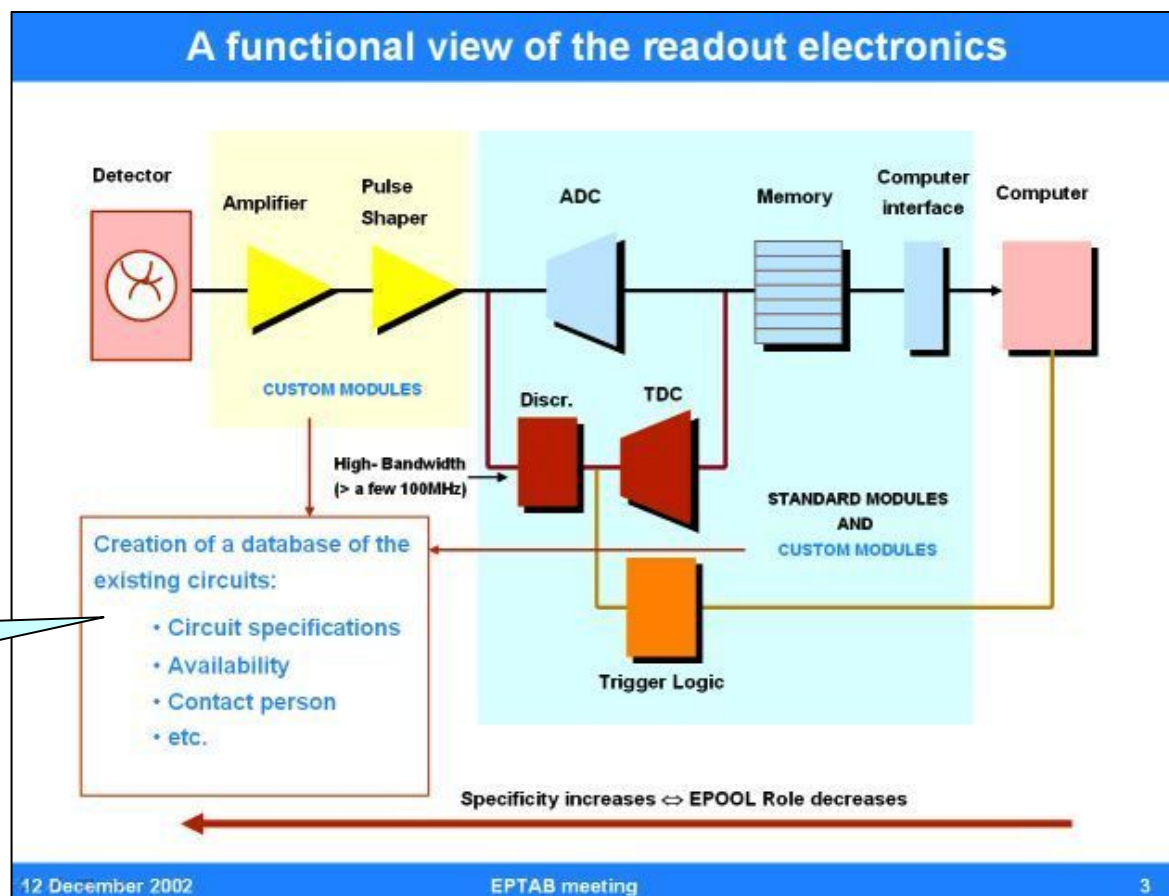
1. The board will analyse the requirements of the user community and make recommendations on the Electronic Pool's overall technical profile (the number and mix of instruments and modules, etc.), and advise on detailed purchases.
2. The board will advise the EP-ESS Group Leader, who will act as Chairman and will report to the Electronics Advisory Board.
3. The board will meet regularly (approximately 4 times per year) with the majority of preparatory work being carried out between meetings.
4. The board will seek advice from technical experts outside the committee, as necessary.

EPTAB

- *Membership*
 - Ex-officio
 - C. Parkman (PH-ESS Group Leader) Chairman
 - C. Moine (PH-ESS Electronics Pool Operations)
 - Members
 - J. Buytaert (PH-ED) - LHCb
 - A. Ceccucci (PH-48E) - Fixed target, EAB (EAB no longer exists)
 - M. Hansen (PH-CME) - CMS
 - L. Musa (PH-ED) - ALICE
 - G. Schuler (PH-ATE) - ATLAS (Replaced by Stefan Haas (PH-ATE))
- *Meetings*
 - 2002 – 2
 - 2003 – 3
 - 2004 – 2
 - 2005 – 0
- *Other contacts (production presentations, requests for advice, etc.)*
 - 2002 to 2006 some 15 requests for advice
 - Poor response

We have taken EPTAB's advice..

- *Implementing "coherent sets" of modular electronics*
- *Reducing the number of similar items and old stock*
- *Concentrating on NIM and VMEbus*



Need help!

We have taken EPTAB's advice..

- *The choice of instruments*


Test and Measurement Instrumentation

- High-bandwidth Digital Scopes
- High-speed Logic State Analyzer
- Jitter Timing Analyzer (e.g. TDS820, J-260)


} High request

- Optical Time Domain Reflectometer
- Optical Power Meter
- USB Analyzer
- Stepping Motor Controller (National Instruments)

12 December 2002
EPTAB meeting



Conclusion 3



- **Provide a set of high performance laboratory instruments**
 - Oscilloscopes, pulse generators, TDR, optical, etc.
 - High rental fee
 - ➔ Probably not possible to get to pay off for the pool, but for the organization...
 - Promote user friendly high performance instruments
 - ➔ Enable short rental periods hence sharing
- **Coordinate purchase of instruments**
- **Coordinate service of instruments**

EPTAB 4, May 08, 2003
Magnus Hansen, CERN-EP/CME

We need your help!

- *“The board will analyse the requirements of the user community and make recommendations on the Electronics Pool’s overall technical profile [...] and advise on detailed purchases”*

Your advice is essential!

- *How can we help?*
 - Can communication be improved?
 - More formal meetings?
 - ?