

The DCS Activity @ NTU

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NTU Members for the DCS

- **Theodoros ALEXOPOULOS**
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- **Vangelis GAZIS**
- **Stavros MALTEZOS**
- **Nikos PAPADAKIS**
- **Yiorgos TSIPOLITIS**
- **Nikos VODINAS**

DCS elements

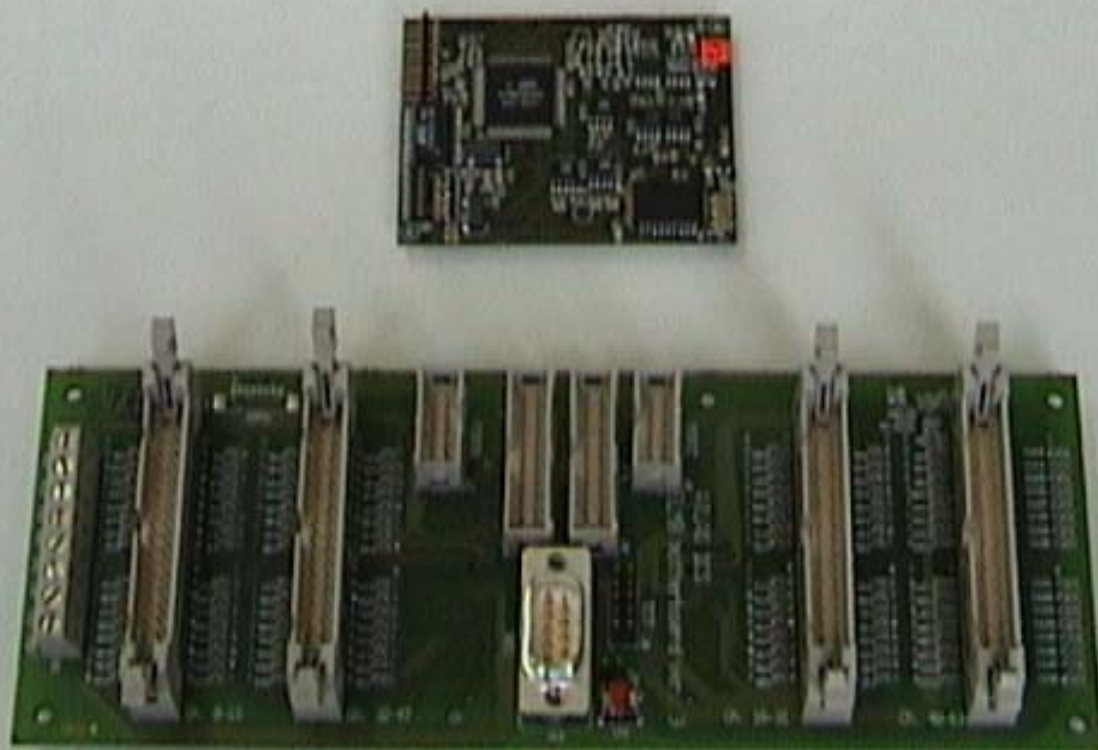
- **MB3 construction for ELMB**
- **Alignment-Bar temperature measurement**
- **H8 chamber temperature measurement**
- **H8 chamber gas system**
- **DCS  DAQ-1 communication**
- **DCS test beam setup**

MB3 construction for ELMB

2000 October : 30 MB constructed & tested

2001 June : 100 MB3 constructed & tested

2001 October : 70 MB3 under construction

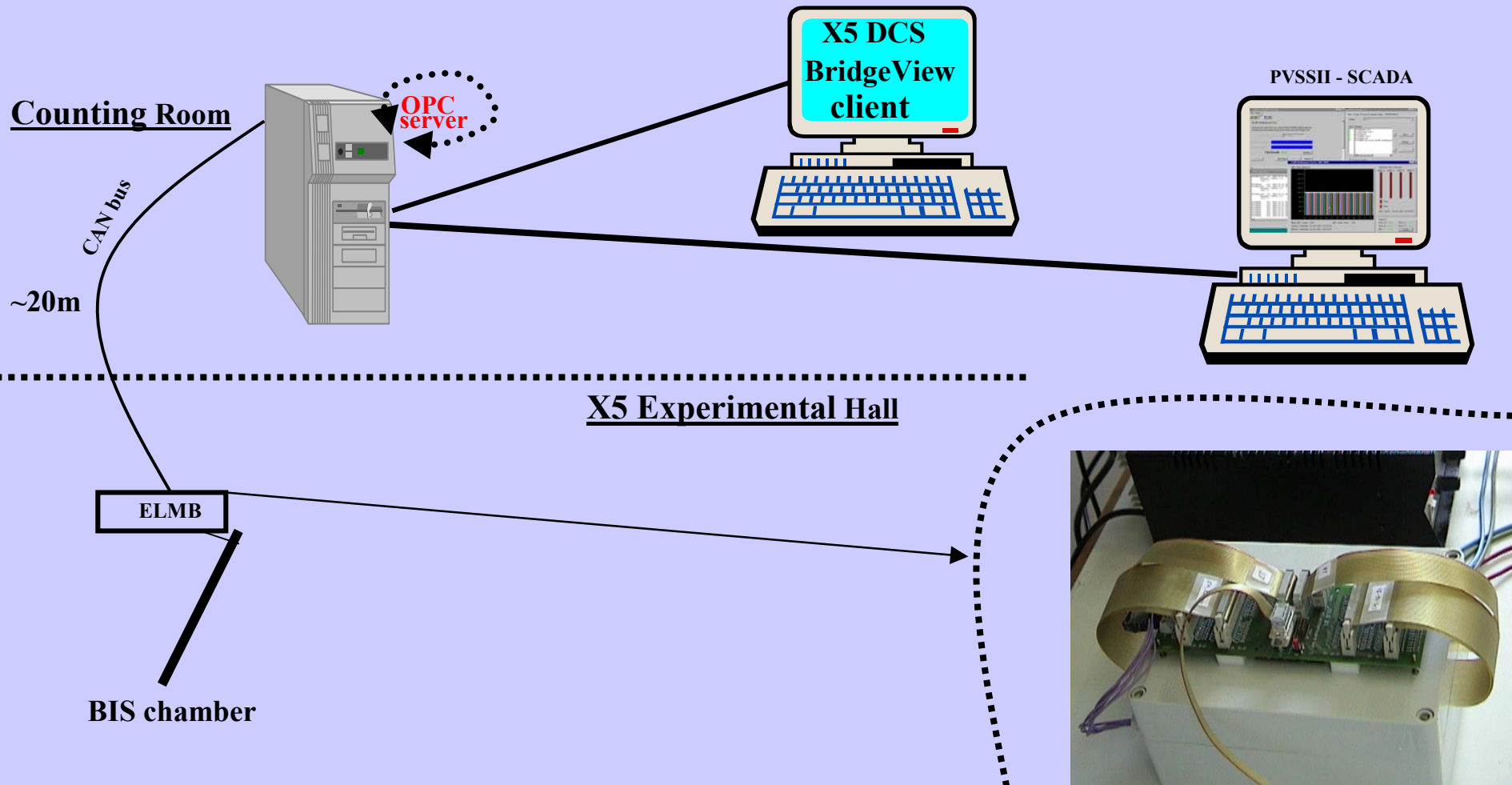


Temperature DCS for X5/GIF Test Beam

X5/GIF Test Beam

10 Pt100 sensors for measurements on the chambers (5 per drift tubes layer)

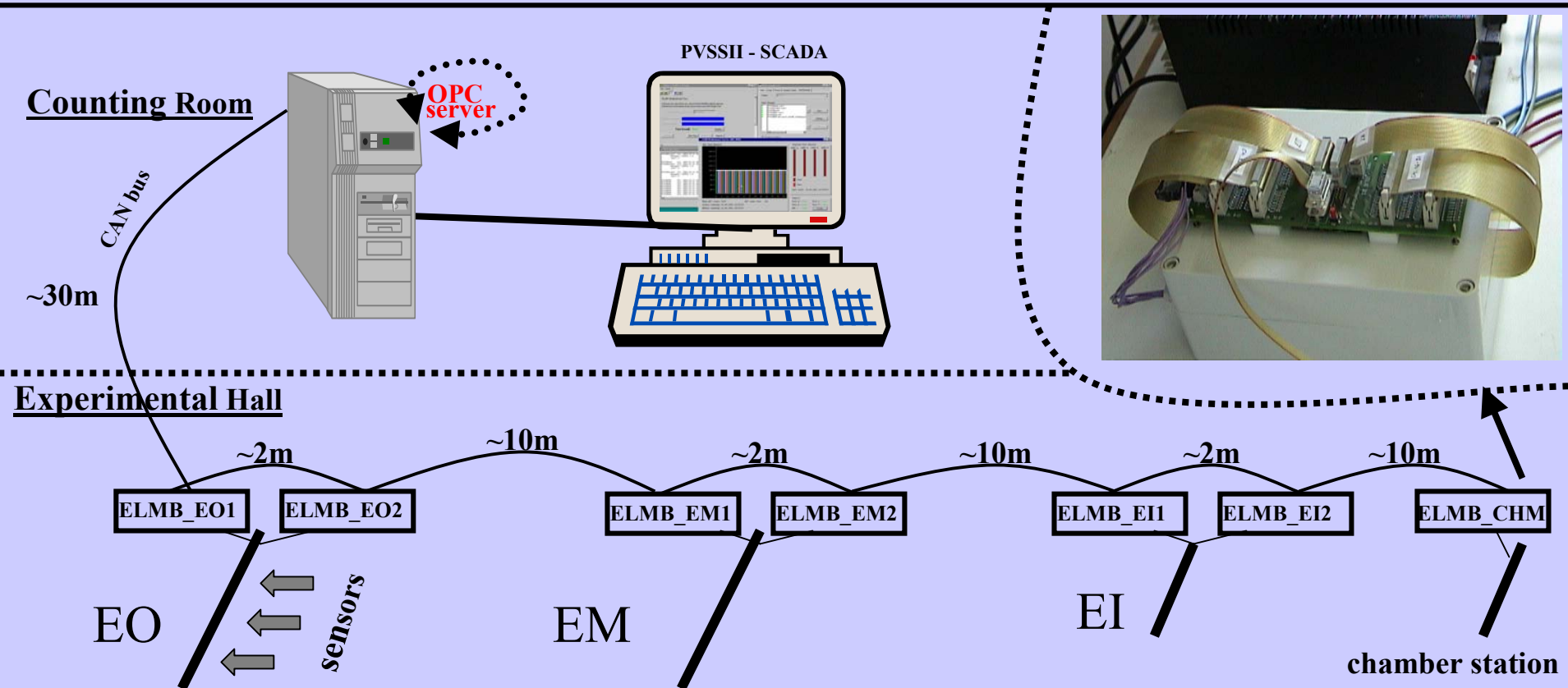
1 ELMB are used



Temperature DCS for H8 Test Beam

H8 Test Beam

4 x 27 Pt100 for the long alignment bars (EO, EM), 2 x 15 Pt100 for the two short bars and 24 Pt100 for the chambers, 5 ELMB are used (as of 1/10/01; plan to use 4 ELMB more)



Make cables/sensors, install software, address & configure ELMBs, calibrate ELMBs & sensors

H8 Chamber gas system

- read the pressure controller
- monitor a PT100 temperature sensor of the gas

DAQ-1 to DCS communication

Exercise the DDC products from the DCS group:

- Data Transfer: DDC-DT - Bi-directional exchange of data
- Message Transfer: DDC-MT - error handling

File Edit View Help

Run Number: 2299

"EXPERT" Menu

EO Alignment-Bar Temperature

EO BAR a		EO BAR b		EO BAR c	
T1	19.73 °C	T13	18.74 °C	T25	18.49 °C
T2	18.63 °C	T14	18.72 °C	T26	18.63 °C
T3	18.85 °C	T15	18.64 °C	T27	18.54 °C
T4	18.88 °C	T16	18.64 °C		
T5	18.66 °C	T17	18.48 °C		
T6	18.70 °C	T18	19.21 °C		
T7		T19	19.57 °C		
T8		T20	19.52 °C		
T9		T21	19.98 °C		
T10	18.81 °C	T22	17.98 °C		
T11	18.84 °C	T23	18.86 °C		
T12	18.73 °C	T24	20.44 °C		

EO BAR a

EO BAR b

EO BAR c

