



# EUROPEAN SOUTHERN OBSERVATORY

Organisation Européenne pour des Recherches Astronomiques dans l'Hémisphère Austral

Europäische Organisation für astronomische Forschung in der südlichen Hemisphäre

## VLT SOFTWARE WORKSHOP

### AGENDA

**Wednesday 21 April 1999**

*Auditorium*

- 09:00 **WELCOME BY ESO** (*M.Tarenghi*)
- 09:10 **VLT CONTROL SOFTWARE OVERVIEW** (*G.Raffi*)  
The VLT common software
- 09:30 **TODAY'S TASK: OVERVIEW** (*E. Allaert*)  
How can one implement a specific task (e.g. move a motor via an engineering panel on the WS) in a VLT-SW compliant way? This will lead to the introduction, one by one, of the subjects of the remainder of this day.
- 09:50 **SETTING UP THE PROGRAMMING ENVIRONMENT** (*G.Filippi*)  
Directory structure, login scripts, programming standards, documentation
- 10:10 **PANEL EDITOR** (*M. Comin*)  
Use the panel editor to get a mock-up
- 10:30 ----- *COFFEE BREAK* -----
- 10:45 **CCS-PART 1** (*B. Gilli*)  
Overview: CCS environment, Command management system (CDT - simulation)
- 11:15 **CCS - PART 2 (+ demo)** (*B.Gilli, M.Comin*)  
CCS Engineering User Interface, Message System, Logging System, Database
- 11:45 **CCS - PART 3** (*G.Chiozzi*)  
CCS On-Line Data Base Loader, Extended CCS
- 12:15 ----- *LUNCH BREAK* -----
- 13:30 **PARANAL VIDEO**  
Some of the latest video images coming from Paranal.
- 13:50 **LCC - PART 1** (*B.Gustafsson*)  
Overview: Command interpreter, Database, Configuration tools, Engineering test software, Logging System
- 15:00 ----- *COFFEE BREAK* -----
- 15:15 **LCC - PART 2** (*P.Duhoux*)  
Motor control software, motor test software
- 15:45 **HOS - SEQUENCER & BOB FOR DEVELOPMENT AND TESTING** (*E.Allaert*)
- 16:15 **SUMMARY: THE TASK** (*P. Biereichel*)
- 16:45 **A ROADMAP FOR THE VLT SW DOCUMENTATION** (*G. Filippi*)
- 17:15 **QUESTIONS AND DISCUSSION** (*P. Biereichel / E. Allaert*)
- 17:45 ----- End of Day One -----
- 18:30 *DINNER*

# VLT SOFTWARE WORKSHOP

## AGENDA

**Thursday 22 April 1999**

*Auditorium*

- 09:00 **INSTRUMENTATION SOFTWARE OVERVIEW** (*P.Biereichel*)
- 09:20 **INS COMMON SOFTWARE** (*E.Allaert*)  
Common SW concepts, INS common software modules, OSS
- 09:40 **TEST-CAMERA SOFTWARE ARCHITECTURE** (*R.Schmutzer*)
- 10:00 **REAL-TIME DISPLAY** (*demo*) (*P.Biereichel*)
- 10:30 ----- **COFFEE BREAK** -----
- 10:40 **ESO DETECTOR SOFTWARE** (*P. Duhoux / C. Cumani / J. Stegmeier*)  
Technical CCDs (ACE), Scientific CCDs (FIERA), IR detectors (IRACE)
- 11:40 **TELESCOPE CONTROL SOFTWARE INTERFACES** (*G.Chiozzi, R. Karban, R. Schmutzer*)  
Overview, TIF
- 12:10 **QUESTIONS AND DISCUSSION** (*P.Biereichel*)
- 12:20 ----- **LUNCH BREAK** -----
- 13:30 **SCAN SYSTEM TUTORIAL** (*+demo*) (*B.Gilli*)  
Configuration, trouble-shooting, new scanLinks tool, demo of scanei
- 14:00 **DATABASE OPTIMIZATION** (*B.Gilli*)  
Use of Stress test to check performances
- 14:30 **EVENT HANDLER (EVH)** (*G.Chiozzi*)  
Object oriented approach in VLT sw, use of C++ and dbl, libraries, examples (for new users)
- 15:00 ----- **COFFEE BREAK** -----
- 15:10 **UVES SOFTWARE ARCHITECTURE** (*A. Longinotti, R. Schmutzer*)
- 15:40 **DISCUSSION** (*P.Biereichel, E. Allaert*)
- 16:00 **UVES DEMO** (*A. Longinotti*)  
**THE VLT CONTROL MODEL** (*F. Carbognani, G.Chiozzi, E. Allaert*)
- 17:30 ----- **End of Day Two** -----

# VLT SOFTWARE WORKSHOP

## AGENDA

**Friday 23 April 1999**

*Auditorium*

Note: Special Interest Tutorials will go in depth into software development/integration aspects. Most of them assume previous experience with VLT common software and will be more profitable for software participants having such experience. Still everybody is welcome to attend.

- 09:00 **DATA FLOW SYSTEM OVERVIEW** (*P.Quinn*)
- 09:20 **TEMPLATES AND OBSERVATION BLOCKS** (+demo) (*E.Allaert*)
- 09:40 **PHASE II PREPARATION AND OBSERVATION HANDLING TOOLS** (*D. Silva*)
- 10:10 **THE DATA INTERFACE CONTROL BOARD** (*B. Leibundgut*)
- 10:30 ----- *COFFEE BREAK* -----
- 10:40 **ON-LINE ARCHIVE FACILITY** (*M.Albrecht*)
- 11:00 **DATA FLOW FOR VLT INSTRUMENTS** (*P. Grosbol*)
- 11:00 **INSTRUMENT PIPELINES** (*K. Banse*)
- 11:00 **EXPOSURE TIME CALCULATORS** (*P. Ballester*)
- 11:40 **QUESTIONS AND DISCUSSION** (*P.Quinn*)
- 12:00 ----- *LUNCH BREAK* -----
- 13:15 **PANEL EDITOR TUTORIAL - PART 2** (*M.Comin*)  
Advanced features, new features, practical problems, questions and answers
- 14:45 ----- *COFFEE BREAK* -----
- 15:00 **SPECIAL INTEREST GROUPS** (*To Be Defined on demand*)
- 16:00 ----- *End of Day Three* -----