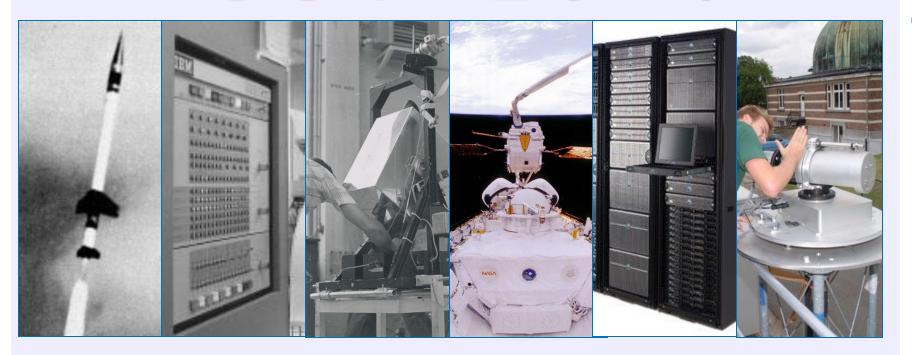
« BITS » AND « PIECES » FOR AERONOMY



1964...2014



J. BULCKE (HEAD IT) AND E. NEEFS (HEAD ENGINEERING)

50th ANNIVERSARY BIRA-IASB ACADEMIC SESSION – NOVEMBER 25th 2014

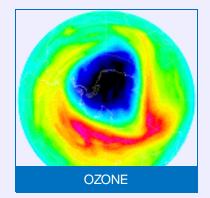




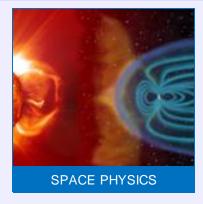
« BITS » AND « PIECES » OF AERONOMY



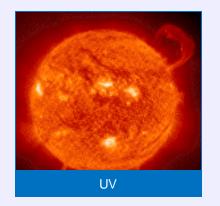














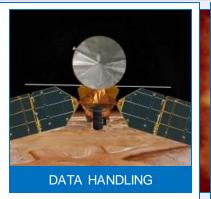






« BITS » AND « PIECES » FOR AERONOMY







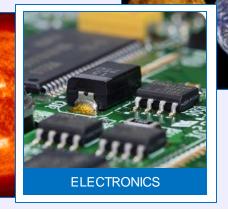










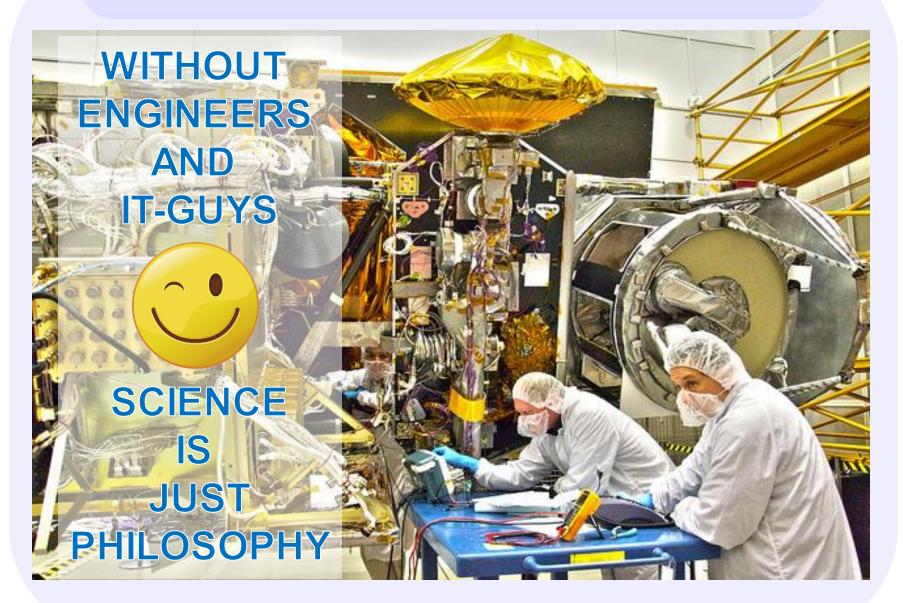






SCIENCE AND TECHNOLOGY HAND IN HAND



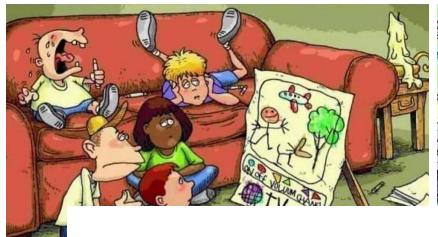






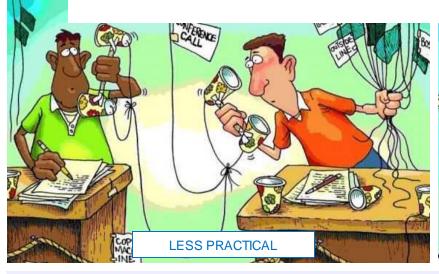
SCIENCE AND TECHNOLOGY HAND IN HAND







SCIENCE = LIFE



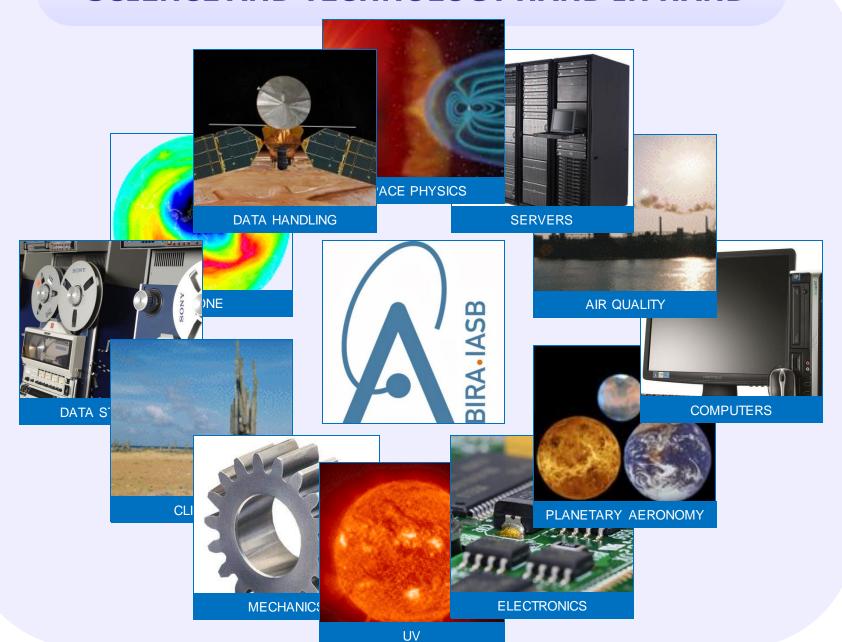






SCIENCE AND TECHNOLOGY HAND IN HAND



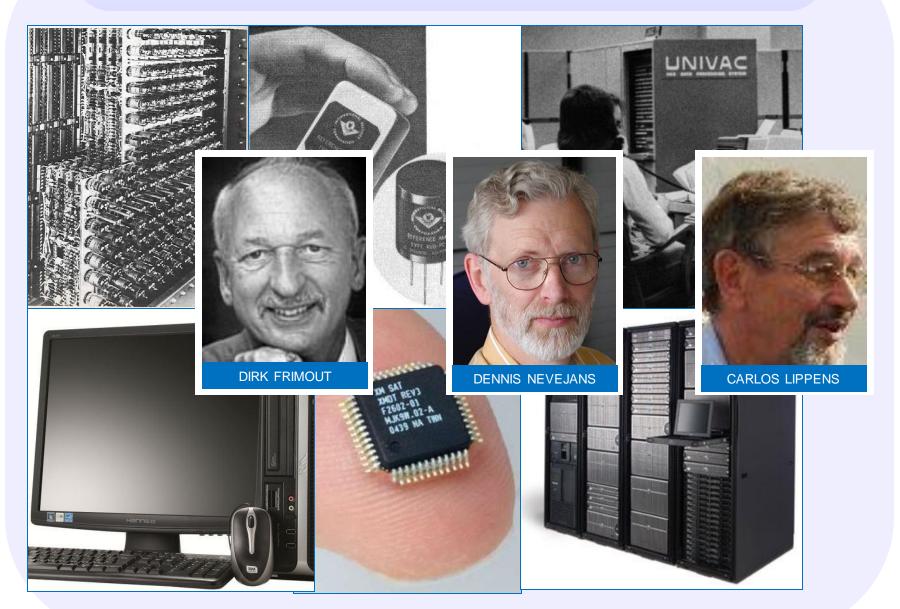






DEPARTMENT OF APPLIED AERONOMY









SEPARATE ENGINEERING AND IT SERVICES







OPERATIONS



GROUND BASED

MECHANICAL MANUFACTURING



AIR SPACE BORNE



GROUND SUPPORT **EQUIPMENT**

MECHANICAL **DESIGN**



SOFTWARE DEVELOPMENT



ON BOARD FIRMWARE



ELECTRICAL DESIGN



TESTING



PROJECT MANAGEMENT **S**







ENGINEERING AND IT SERVICE







WEB DESIGN



NETWORKING





GROUND BASED



AIR **SPACE BORNE**



INFRASTRUCTURE MANAGEMENT

E-ADMINISTRATION





HIGH **PERFORMANCE** COMPUTING



INTERCONNECTIVITY



PERSONAL COMPUTING



DATA STORAGE

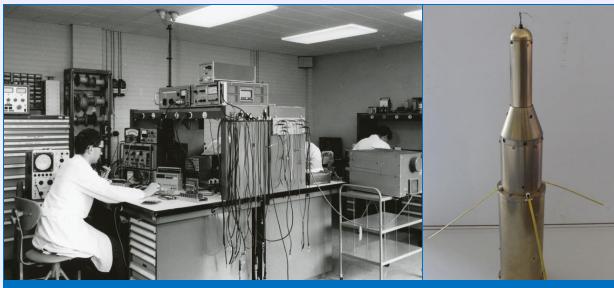






THE EARLY YEARS 1965-1975







ELECTRONICS LABORATORY OF BIRA-IASB

ROCKET PAYLOAD



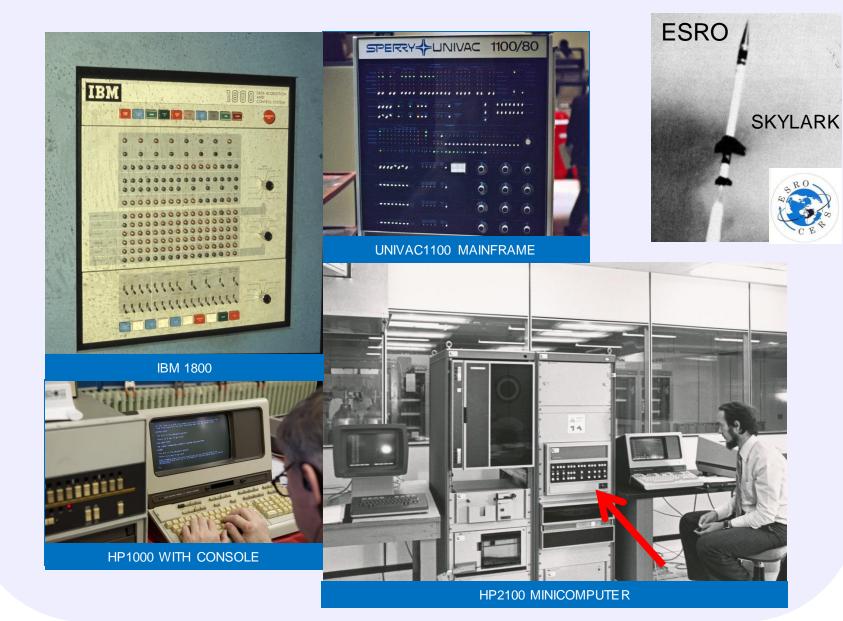
BUILDING BALLOON PAYLOADS





THE EARLY YEARS 1965-1975









THE EARLY YEARS 1965-1975





BIRA-IASB COMPUTER ROOM IN 1974



```
1050 REM FOR I=DLSTART TO DLEND
1060 REM PRINT I,PEEK(I)
1070 REM NEXT I
1080 REM
1090 POKE 512,0
1100 POKE 513,6
1110 REM
1120 FOR I=1536 TO 1550
1130 READ A
1140 POKE I,A
1150 NEXT I
1160 REM
1170 FOR I=DLSTART+6 TO DLSTART+28
1180 POKE I,130
1190 NEXT I
1240 POKE 54286,192
2000 REM
2010 DATA 72
2020 DATA 173,11,212,141,10,212,141,24,2
08,141,26,208
2030 DATA 104,64
READY
```

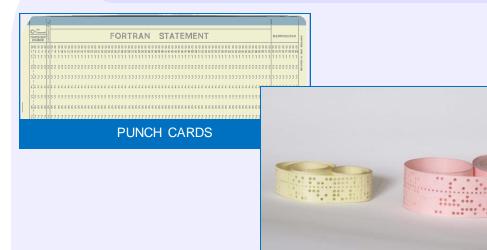
PROGRAMMING IN BASIC





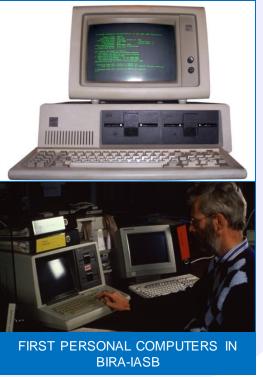
THE WONDER YEARS 1975-1985















THE WONDER YEARS 1975-1985



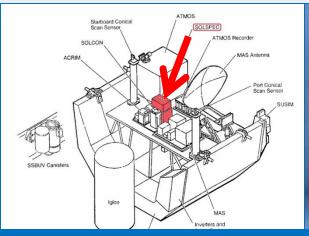


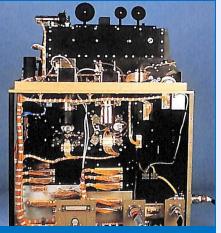




THE WONDER YEARS 1975-1985









SPACELAB-1 WITH SOLSPEC 1983

SPACELAB

SOLSPEC INSTRUMENT



GRILLE SPECTROMETER





THE BOOMING YEARS 1985-1995













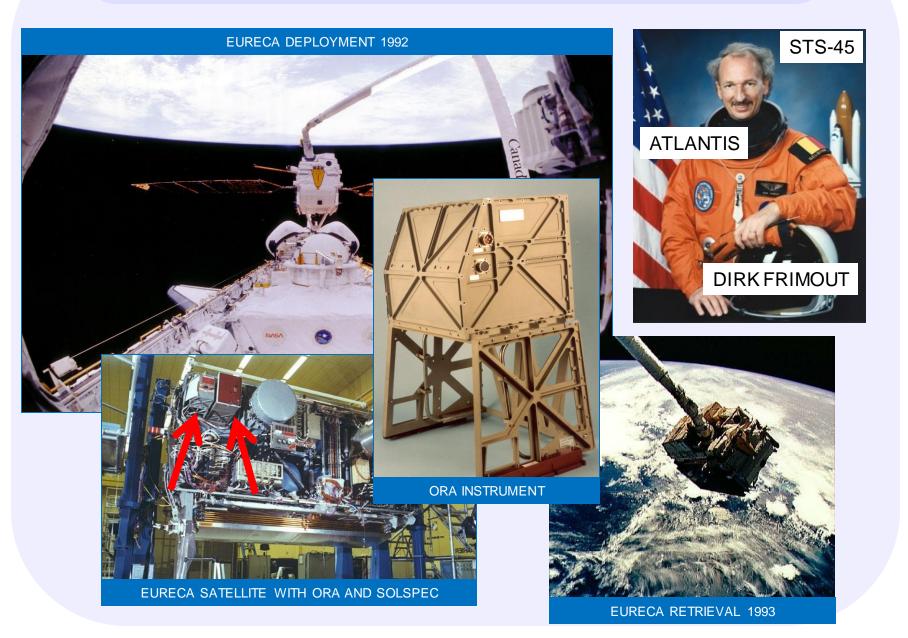






THE BOOMING YEARS 1985-1995



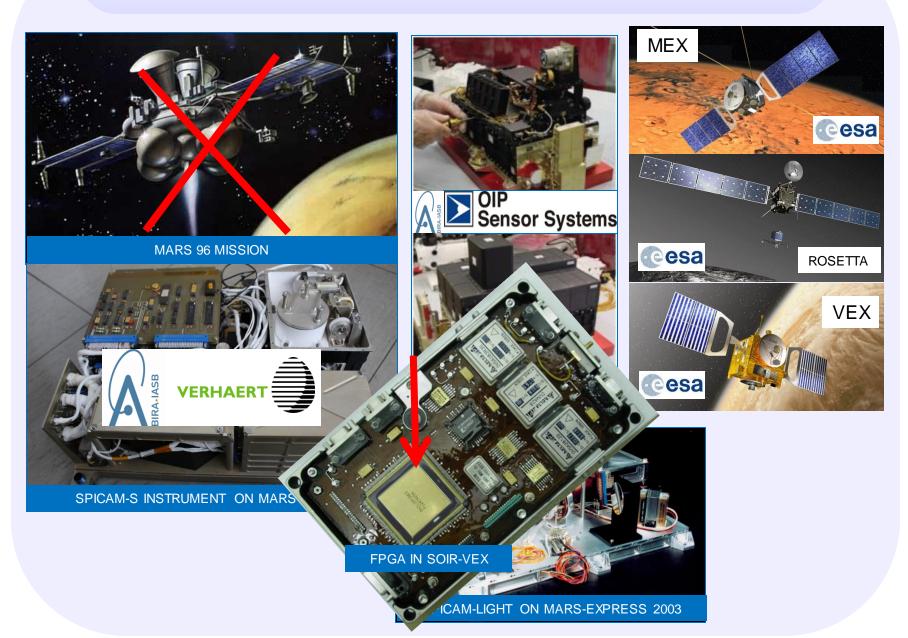






THE HECTIC YEARS 1995-2005









THE HECTIC YEARS 1995-2005









DFMS (ROSINA) ON ROSETTA











THE HECTIC YEARS 1995-2005







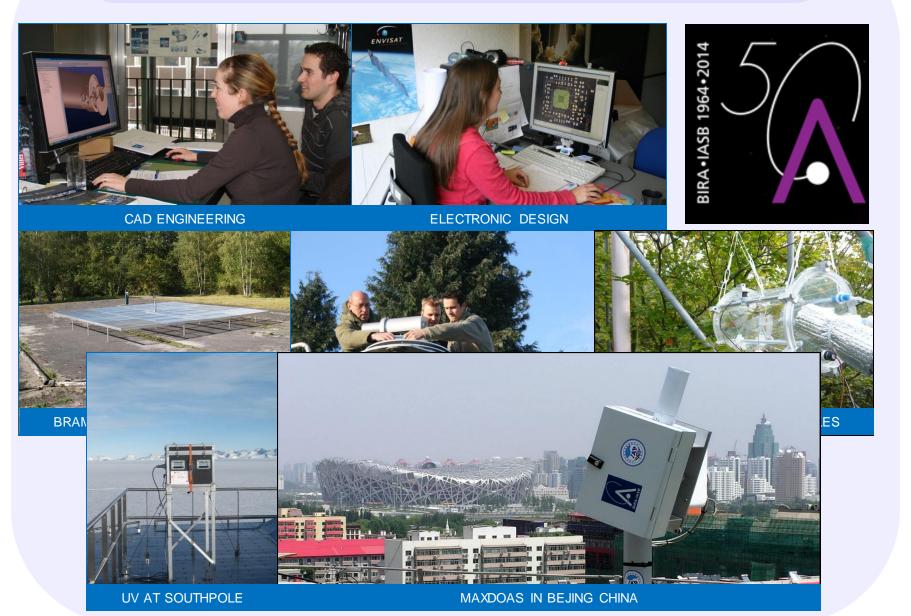






THE ADULT YEARS 2005-2015



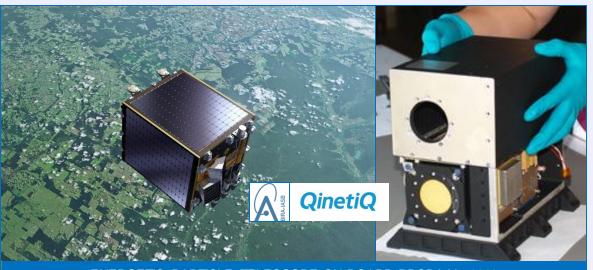






THE ADULT YEARS 2005-2015

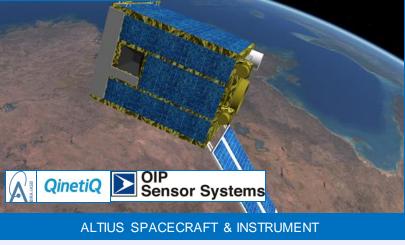






ENERGETIC PARTICLE TELESCOPE ON BOARD PROBA V - 2013





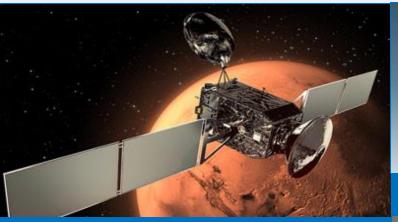


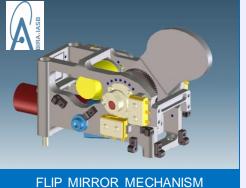


THE ADULT YEARS 2005-2015





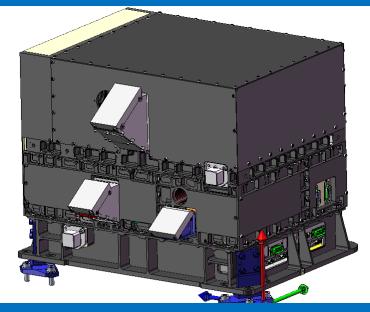




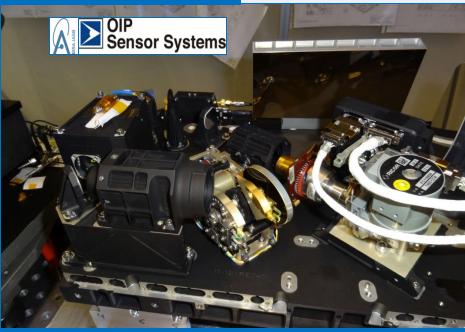
NOMAD



EXOMARS TRACE GAS ORBITER - 2016







NADIR CHANNEL OF NOMAD WITH FLIP MIRROR MECHANISM





THE ADULT YEARS 2005-2015



NEW APPLICATIONS





BELGIAN USER SUPPORT AND OPERATIONS CENTRE









COMMUNICATION SERVICE OF BIRA-IASB





WEBSITE OF THE INSTITUTE







964...2014

