THE ESAC TRAINEE PROJECT

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(SRE-OE)
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The different ESA trainee programmes

- Postdoctoral Research Fellowships (post doctorate; ~2 years)
- Young Graduate Trainees (post graduate; ~1 year)
- National Trainee Programmes (Spain, Portugal, Germany & Greece; post graduate; 1-2 years)
- Student Placements/stagiaires (pre & post graduate; 3-6 months)

Only these are discussed in this presentation
Basis of the ESAC Trainee Project

- ESA Internship/Student placements see: http://www.esa.int/esaMI/Careers_at_ESA/SEMSB5XO4HD_0.html

- Students stay for 3-6 months.

- Agreement between ESAC and UCM for credit point work at ESAC as of 2000, and between ESAC and UAM as of 2007.

- From 1980’s until 2004 Willem Wamsteker was the coordinator for student placements at ESAC, included PhD students and undergraduates from Madrid and EU.

- 2004: Marcus Kirsch founded the XMM-EPIC trainee project.

- Feb 05 – April 08: Marcus Kirsch was ESAC Trainee coordinator.

- Apr – July 08: Ricardo Rizzo took over as interim Trainee coordinator.

- Formal recognition by SRE-O top management to continue and increase the ESAC Trainee Project to a dedicated 0.50 FTE => July 08: Deborah Baines took over as the Trainee coordinator.
HISTORY

Year | Number of students
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2001 | 4
2002 | 2
2003 | 2
2004 | 4
2005 | 6
2006 | 12
2007 | 16
2008 | 18
2009 | 16
2010 | 20

Legend:
- ISO
- XMM
- LAEX
- INTEGRAL
- Herschel
- Planetary
- Ed Office
- VO
- CSG
- Gaia
Trainee Project 2005

- 6 XMM
- 1 LAEFF
Trainee Project 2006

11 XMM-Newton, 2 INTEGRAL, 1 ISO & 1 VO
Trainee Project 2007

11 XMM-Newton, 3 INTEGRAL, 2 LAEFF & 1 CSG
Trainee Project 2008

7 XMM-Newton, 3 LAEFF, 2 Planetary, 1 INTEGRAL
1 Herschel, 1 ISO, 1 GAIA, 2 Education Office
Trainee Project 2009

6 XMM-Newton, 4 INTEGRAL, 3 LAEFF, 2 Planetary, 1 Herschel

MAËL

CHERRY

RUBEN
8 Planetary, 5 XMM-Newton, 4 INTEGRAL, 1 GAIA, 1 Herschel, 1 VO
Trainee Project 2010

- 8 Planetary
  5 XMM-Newton
  4 INTEGRAL
  1 GAIA
  1 Herschel
  1 VO

20 Students:
- 10 Non Local & 10 Local (17 ES, 1 FR, 1 IE & 1 GR)
- 13 Physics, 5 Engineering, 2 Computer Engineering
- 14 post grads, 6 pre grads
- From: Madrid: UAM, UCM, UPM & Uni Pontificia de Salamanca
- Spain: Uni of Barcelona, Uni of La Laguna, Uni of Sevilla, Polytechnic Uni of Valencia
- EU: Cranfield Uni, Ecole Centrale Nantes, Observatory of Paris, Trinity College Dublin, Technical Uni of Athens
2010 - 2011

IMPROVEMENTS:
- Application now online
- Selection process made simpler
- Larger budget

GOALS:
- Maintain collaboration with current institutes (MPE, University of Tübingen, Erlangen, Leicester, Warwick, Linköping, Kiev, etc).
- Continue increasing the number of participating institutions.
- Increase the range of EU countries whilst also having a good representative of local students.
- Increase ESAC profile as an ‘International’ Science Centre.
- Continue with the Trainee Alumni and Winter Meetings.
- Further ideas welcome – email deborah.baines@sciops.esa.int
Agenda – this morning

- 10:00 Deborah Baines: Welcome
- 10:10 Florent Nobelen: Validation of the pipeline of the Herschel Space Observatory PACS instrument thanks to a scientific simulator
- 10:30 Ruben Herrero: Identification of very massive AGB stars in the GLIMPSE survey
- 10:50 Cherry NG: Study of extra-solar planets using the transit method
- 11:10 Illena Gómez: Spectro-photometric analysis and modeling of the infrared emission of exoplanets
- 11:30 Coffee break
- 12:00 Nathan Dickinson: The atmospheres of hot white dwarfs
- 12:20 Alex Kolodzig: Results of X-ray spectra modeling for accretion plasma of magnetic white dwarfs
- 12:40 Guillermo Jenaro: Neutron stars and black holes on the edge
- 13:00 Enrique Sanchez: Gallery of selected galactic supernova remnants
- 13:20 Lunch (13:30 at canteen)