

ESO Studentship Programme

The European Southern Observatory has positions available for 12 research students. Six of these positions are at the ESO HQ in Garching, the other six at the Observatory, La Silla, Chile. Since students normally stay approximately 2 years, this means that each year a total of 6 students (3 at each location) may be accepted. These are applicable to any student enrolled in a Ph.D. (or equivalent) programme in institutions in the member states.

Potential candidates or their supervisors may obtain detailed information about the programme by requesting the updated brochure and application forms from the Personnel Administration and General Services at ESO HQ, Karl-Schwarzschild-Str. 2, D-85748 Garching bei München, Germany.

There is now an annual closing date of 15 October for applications.

ESO Users Manual 1993

The new (1993) edition of the ESO Users Manual has just become available and been distributed to Institutes in the ESO member States. Institutes which have not received a copy may obtain one on request addressed to the

ESO Visiting Astronomers Service
Karl-Schwarzschild-Str. 2
D-85748 Garching b. München, Germany

Tentative Time-Table of Council Sessions and Committee Meetings

November 4–5	Scientific Technical Committee
November 8–9	Finance Committee
November 25–26	Observing Programmes Committee
December 1–2	Council

All meetings will take place in Garching.

The Proceedings of the Second ESO/CTIO Workshop on

Mass Loss on the AGB and Beyond

(ESO Conference and Workshop Proceedings No. 46)

have now been published. The 479-p. volume, edited by H.E. Schwarz, is available at a price of DM 70,- (prepayment required).

Payments have to be made to the ESO bank account 2102002 with Commerzbank München or by cheque, addressed to the attention of

ESO, Financial Services
Karl-Schwarzschild-Str. 2
D-85748 Garching b. München, Germany

Please do not forget to indicate your complete address and the title of the Proceedings.

New ESO Preprints

June–August 1993

Scientific Preprints

920. T.R. Bedding: The Orbit of the Binary Star Delta Scorpii. *Astronomical Journal*.
921. F. Matteucci: Iron and Magnesium Evolution in Giant Elliptical Galaxies. A Cimatti and S. di Serego Alighieri: Stellar and Scattered Light in a Radio Galaxy at $z=2.63$.
G. Marconi et al.: Chemical Evolution of Blue Compact Galaxies. Papers presented at the Kiel Conference "Panchromatic View of Galaxies: their evolutionary puzzle".
922. C.M. Carollo et al.: Metallicity Gradients in Early-Type Galaxies. *Monthly Notices of the Royal Astronomical Society*.
923. P. Crane et al.: High Resolution Imaging of Galaxy Cores. *Astronomical Journal*.
924. N. Meyssonnier and M. Azzopardi: A New Catalogue of $H\alpha$ Emission-Line Stars and Small Nebulae in the Small Magellanic Cloud. *Astronomy and Astrophysics Suppl.*
925. H. van Winckel et al.: An Atlas of High Resolution Line Profiles of Symbiotic Stars. Part I: Coudé Echelle Spectrometry of Southern Objects and a Classification System of $H\alpha$ Line Profiles. *Astronomy and Astrophysics*.
926. Bo Reipurth and H. Zinnecker: Visual Binaries Among Pre-Main Sequence Stars. *Astronomy and Astrophysics*.
927. M. Heydari-Malayeri et al.: HDE 269828: A Reddened Massive Star Cluster. *Astronomy and Astrophysics*.
928. M. Stiavelli et al.: Core Sub-Structure of Elliptical Galaxies: the Core Resolution Technique Applied to NGC 1399. *Astronomy and Astrophysics*.
929. J.K. Kotilainen and M.J. Ward: The Host Galaxies of Seyfert Type 1 Nuclei. *Monthly Notices of the Royal Astronomical Society*.
930. A.F.M. Moorwood and E. Oliva: Infrared Spectroscopy of Starburst and Seyfert Galaxies. Invited paper to appear in CIRP5: Topical Conference on Infrared Astrophysics. Infrared Physics (ed. F.K. Kneubühl).
931. M.A. Prieto and W. Freudling: New Evidence for an Anisotropic Radiation Field in NGC 5252. *The Astrophysical Journal*.
932. S.G. Djorgovski and G. Meylan: Appendices and Tables to appear in *Structure and Dynamics of Globular Clusters – Proceedings of a Workshop held in Berkeley, California, July 15th to 17th, 1992*, to honour the 65th birthday of Ivan King.

STAFF MOVEMENTS

Arrivals

Europe

SIML, Erich (D), Clerk (General Services)
TEUPKE, Svea (D), Secretary
ZELLER, Kurt (CH), Head of Personnel
HUBERT, Georgette (D), Secretary
CUMANI, Claudio (I), Associate
HUIZINGA, Edwin (NL), Fellow
AUSSEM, Alexandre (F), Coopérant
PETERSON, Bruce (Aus), Guest Professor
PETITJEAN, Patrick (F), Associate

Chile

KNEE, Lewis B.G. (Can.), Fellow (SEST)
MANFROID, Jean (B), Associate (Senior Visitor Progr.)
CLAESKENS, Jean-François (B), Coopérant
BRANDNER, Wolfgang (D), Student

Departures

Europe

BEELEN, Marion (NL), Secretary
PLÖTZ, Franz (D), Electro-Mechanical Engineer
BECKERS, Jacques (USA), VLT Programme Scientist
ZAGO, Lorenzo (I), Engineer/Physicist
SIEBENMORGEN, Ralf (D), Fellow

Chile

WILD, Wolfgang (D), Fellow
SMETTE, Alain (B), Coopérant/Associate

933. M.H.D. Ulrich: The Energy Budget on the Irradiation Model of Quasars. 2nd Workshop on Theory of Accretion Disks, MPI Garching, March 1993.

934. F. Murtagh and M. Sarazin: Nowcasting Astronomical Seeing: a Study of ESO La Silla and Paranal. *Publications of the Astronomical Society of the Pacific*.

ESO, the European Southern Observatory, was created in 1962 to . . . establish and operate an astronomical observatory in the southern hemisphere, equipped with powerful instruments, with the aim of furthering and organizing collaboration in astronomy . . . It is supported by eight countries: Belgium, Denmark, France, Germany, Italy, the Netherlands, Sweden and Switzerland. It operates the La Silla observatory in the Atacama desert, 600 km north of Santiago de Chile, at 2,400 m altitude, where fourteen optical telescopes with diameters up to 3.6 m and a 15-m sub-millimetre radio telescope (SEST) are now in operation. The 3.5-m New Technology Telescope (NTT) became operational in 1990, and a giant telescope (VLT=Very Large Telescope), consisting of four 8-m telescopes (equivalent aperture = 16 m) is under construction. It will be erected on Paranal, a 2,600 m high mountain in northern Chile, approximately 130 km south of the city of Antofagasta. Eight hundred scientists make proposals each year for the use of the telescopes at La Silla. The ESO Headquarters are located in Garching, near Munich, Germany. It is the scientific-technical and administrative centre of ESO where technical development programmes are carried out to provide the La Silla observatory with the most advanced instruments. There are also extensive facilities which enable the scientists to analyze their data. In Europe ESO employs about 200 international Staff members, Fellows and Associates; at La Silla about 50 and, in addition, 150 local Staff members.

The ESO MESSENGER is published four times a year: normally in March, June, September and December. ESO also publishes Conference Proceedings, Preprints, Technical Notes and other material connected to its activities. Press Releases inform the media about particular events. For further information, contact the ESO Information Service at the following address:

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935. C. Aspin et al.: Near-IR Spectroscopy and Imaging Photometry of M1-16: Bipolar H₂ Jets in a Post-AGB Transition Object. *Astronomy and Astrophysics*.
936. G. Meylan: Some Clues About the Dynamics of Globular Clusters from High-Resolution Observations. Invited review in *Ergodic Concepts in Stellar Dynamics*, eds. D. Pfenniger and V.G. Gurzadyan (Berlin: Springer), in press.
937. L. Origlia et al.: The 1.5-1.7 Microns spectrum of Cool Stars: Line Identifications, Indices for Spectral Classification and the Stellar Content of the Seyfert Galaxy NGC 1068. *Astronomy and Astrophysics*.
938. L.F. Rodríguez and Bo Reipurth: the Exciting Source of the Herbig-Haro 111 Jet Complex: VLA Detection of a One-Sided Radio Jet. *Astronomy and Astrophysics*.

Technical Preprints

52. A.F.M. Moorwood: IR Instrumentation for the VLT. To appear in Proceedings of SPIE Conference No. 1946 on Infrared Detectors and Instrumentation (ed. A. Fowler), Orlando, April 1993.
53. G. Finger et al.: Image Sharpening by On-Chip Tracking in IRAC2. To appear in Proc. of SPIE Conference No. 1946 in Infrared Detectors and Instrumentation (ed. A. Fowler), Orlando, April 1993.
54. J.M. Beckers: Progress in High Resolution Astronomical Imaging Including Active and Adaptive Optics. Invited lecture at the 16th meeting of the International Commission for Optics, August 9-13, 1993, Budapest.
55. N. Hubin et al.: Results of a System Study for the ESO Very Large Telescope Adaptive Optics. To be published in the Proc. ICO-16 Satellite Conf. on "Active and Adaptive Optics", Garching, August 2-5, 1993.

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