

Space Telescope Science Institute Baltimore, Maryland 21218

This report covers the period 30 April 1981–30 September 1981.

ST ScI for the SDAS Project, and in September, two VAX 11/750 were delivered for the Guide Star Selection System.

I. HISTORICAL

The Space Telescope Science Institute (ST ScI) was officially established when the Association of Universities for Research in Astronomy (AURA) signed a contract on 30 April 1981 with the National Aeronautics and Space Administration. The Institute, to be situated on the Homewood Campus of The Johns Hopkins University in Baltimore, Maryland, will be, when fully operational, the science and research center for the orbiting *Space Telescope* scheduled for launch early in 1985.

In September 1981, Riccardo Giacconi, formerly of Harvard-Smithsonian Center for Astrophysics, took over as Director for ST ScI. A formal groundbreaking ceremony was held at Hopkins on 14 September to celebrate this new venture. Though now housed in Hopkins facilities, a permanent building is expected to be completed by March 1983.

II. PERSONNEL

Until the appointment of Riccardo Giacconi, Arthur Code of Washburn Observatory was Acting Director and Robert Rich of JHU Applied Physics Lab served as Acting Deputy Director. Barry M. Lasker came from Cerro Tololo to become Manager of the Guide Star Selection System Project. Rudolf Albrecht of the University of Vienna, Austria and Cerro Tololo, joined ST ScI as Project Scientist of the Science Data Analysis Software Project.

III. CONFERENCES/MEETINGS

On 18 June, ST ScI hosted a Science Data Analysis Software Reconnaissance Meeting at ST ScI which was attended by about 35 scientists from Europe, Canada, and the United States. R. Albrecht attended IAU Colloquium No. 64, held in Strasbourg in July, where he presented an invited paper (see publications).

B. M. Lasker and R. Albrecht attended the AAS Conference in Calgary in July. B. M. Lasker presented a paper at the meeting entitled "The definition and implementation of the science program for the *Space Telescope*," and R. Albrecht presented a paper at the same meeting entitled "*Space Telescope* data analysis software development."

ST ScI hosted its first *Space Telescope* Team Meeting when the Astrometry Team met here in September.

IV. HIGHLIGHTS

In August 1981, a PDP 11/34 system was installed at

V. RESEARCH

Though ST ScI scientists had their time committed to getting the Institute under way, leaving little time for scientific research, Arthur Code and Rudi Albrecht began work on an automatic spectral classification project, using data obtained with the *International Ultraviolet Explorer* satellite.

VI. PUBLICATIONS

- Albrecht, R. (1981). "Astronomische Bildverarbeitung," in *Vortragsberichte der Astronomischen Gesellschaft* (in press).
- Albrecht, R. (1981). "System software approaches to the analysis of multidimensional data structures," in *Proceedings of the IAU Colloquium No. 64* (in press).
- Albrecht, R. (editor) (1981). *Proceedings of the ST-Science Data Analysis Software Reconnaissance Meeting* (ST ScI, Baltimore, Md.).
- Lasker, B. M. (1981). "Spectroscopy of the remnant of SN1006," *Astrophys. J.* **244**, 518.
- Lasker, B. M. (1981). "Spectra and internal motions of supernova remnants and ring nebulae in the Magellanic Clouds," *Publ. Astron. Soc. Pac.* **93**, 422.
- Lasker, B. M., (Bracker, S., and Hesser, J. E.) (1981). "High frequency stellar oscillations. XIV. Null results from a search for white dwarf variability between 0.13 and 6.8 seconds," *Publ. Astron. Soc. Pac.* **93**, 320.
- Lasker, B. M. (McCarthy, M. F., and Kinman, T. D.) (1981). "Spectral features of Nova Sagittarii 1978," *Publ. Astron. Soc. Pac.* **93**, 470.
- Lasker, B. M., (and Kinman, R. D.) (1981). "Planetary nebulae in the direction of Baade's Window," in preparation.
- Rakos, K. D., Albrecht, R., Jenkner, H., Kreidl, T., Michalke, R., Oberlerchner, D., Santos, E., Schermann, A., Schnell, A., and Weiss, W. (1981). "Photometric and astrometric observations of close visual binaries," *Astron. Astrophys. Suppl.* (in press).
- Wood, H. J., and Albrecht, R. (1981). "Digital image processing of AP star coude Zeeman plates," in *Proceedings of Upper Main Sequence CP Stars*, 23rd Liege Astrophys. Colloquium, Université de Liège, Belgium, June 1981.
- Wood, H. J., and Albrecht, R. (1981). "Outburst and nuclear breakup of Comet Halley-1910," in *Modern Observational Techniques for Comets*, edited by J. C. Brandt *et al.* editors, JPL Publ. 81-68, (JPL, Pasadena, Calif.).