

TABLE OF CONTENTS

PREFACE	xi
THE ORGANIZING COMMITTEES	xiii
LIST OF PARTICIPANTS	xv
INAUGURAL ADDRESS : W. HEINTZ	xvii
<u>A. EXISTING DATA CENTERS</u>	
1. C. JASCHEK : The Stellar Data Center	3
2. J.M. MEAD, T.A. NAGY, R.S. HILL, W.H. WARREN, Jr. : The Astronomical Data Base and Retrieval System at NASA	9
3. O.B. DLUZHNEVSKAYA : The Soviet Center of Astronomical Data	15
4. Y. TERASHITA : Management of Astronomical Data at Kanazawa Data Center	21
5. E. SCHILBACH : Activities of the Potsdam Data Center	27
6. A. HECK : IUE Data Distribution	29
7. M. SCHMITZ, D.Y. GEZARI, J.M. MEAD : Infrared Astronomi- cal Data Base and Catalog of Infrared Observations	33
8. D.D. McCARTHY, G. WESTERHOUT : Data on Time and Polar Motion : Immediate Accessibility	37
9. M.C. LOCKE : The National Space Science Data Center (NSSDC) and the World Data Center A for Rockets and Satellites (WDC-A-R&S) : Their Role in X-Ray Astronomy Data	45

10. W. BUSCOMBE : The Stellar Data File at Dearborn Observatory	49
DISCUSSION	313
 <u>B. DATA NETWORKS</u>	
11. Y. SALLE : Euronet-Diane, premier réseau européen de transfert de l'information	53
12. D.J. CARNOCHAN : The U.K. STARLINK computer network	63
13. G. SEDMAK : ASTRONET . The network of analysis and retrieval of astronomical data in Italy	67
14. P.A. SIMON : The International URSIGRAM and World Days Service	73
DISCUSSION	315
 <u>C. NEW HARDWARE</u>	
15. P.J. GROSBØL : New developments in data storage (Review paper)	79
DISCUSSION	315
 <u>D. RECENT SOFTWARE DEVELOPMENTS</u>	
16. R. ALBRECHT : System software approaches to the Analysis of Multidimensional Data Structures	87
17. A. SCHUETZ : A fast method to retrieve data from a large star catalogue file	99
18. H. EICHHORN : On Systems of Standards	103
19. A. BIJAOUI : Digital Image Processing and Data Retrieval : The Needs	109
20. M. PUCILLO, P. SANTIN, G. SEDMAK : International standards for software structures in astronomy	111
21. W.H. WARREN, Jr., D.F. ALDERMAN : Archiving and retrieval of data from the International Ultraviolet Explorer (IUE) mission	115

22. I. MISTRİK : Towards effective data processing : portable software models	119
23. W. STEIN : A process for retrieval of data from a compiled star catalogue	123
24. F. MACCHETTO : A data analysis facility for the Faint Object Camera	127
25. W.H. WARREN, Jr., J.M. MEAD, T.A. NAGY : Responsibilities and practical limitations in the operation of an astronomical data center	131
26. S. LAVROV : The system SPORA (Software package oriented to research in astronomy)	135
DISCUSSION	316
 <u>E. BIBLIOGRAPHICAL SERVICES</u>	
27. S. SCHIMINOVICH : Prospects for automated solution of the subject characterization problem in the bibliographic services (Review paper)	147
28. C. CHAGNARD-CARPUAT, A. LAGORCE, S. LALOË : The bibliographical card-catalogue of the I.A.P. Library	155
29. L.D. SCHMADEL : Astronomy and Astrophysics Abstracts : a status report	159
30. M.J. COLLINS : INSPEC activities in astronomy and astrophysics	163
31. S. NISHIMURA : Stellar bibliography retrieving system in Japan	167
32. F. OCHSENBEIN : The Bibliographical Star Index	171
DISCUSSION	317
 <u>F. COPYRIGHT</u>	
33. E. GUERASSIMOV : Copyright and use of computers for access to protected works (Review Paper)	177
DISCUSSION	318

G. EDITORIAL POLICIES AND NOMENCLATURE

34. J. LEQUEUX : Editorial policies (Review Paper)	187
35. G.A. WILKINS : Aids to the retrieval and evaluation of astronomical data	193
36. F. OCHSENBEIN, F. SPITE : A list of standard star designation	199
37. A. FERNANDEZ, M.C. LORTET, F. SPITE : Dictionnaire de la nomenclature des objets célestes	203
38. P. POLECHOVA : On the nomenclature of diffuse fragmentary objects	207
39. F. OCHSENBEIN, M. BISCHOFF : The catalogue of stellar identifications	211
DISCUSSION	318

H. DATA IN ASTRONOMY

40. B. HAUCK : Data in Astronomy (Review Paper)	217
41. B. HAUCK : Proposal for centralization of information concerning plate vaults	227
42. S.B. TRITTON : The UK Schmidt telescope plate catalogue and problems associated with increasing numbers of plates and users	229
43. L. BENACCHIO : Retrieval of astronomical information from Padova-Asiago Observatory plates archives	233
44. K. JANES : Large scale photometric surveys using archival plates	237
DISCUSSION	321

I. DATA IN SPACE ASTRONOMY

45. J.I. VETTE : Data and Data Retrieval in Space Astronomy	243
46. D. EGRET, M. JASCHEK : The "Catalogue of Stellar Groups" : A Progress Report	253

47. CH.E. WORLEY : Current progress with the Double Star Catalogues	257
48. M. KALINKOV : Metacatalogue of galaxies and large scale structures in the Universe	259
49. M. KALINKOV, I. KUNEVA, K. STAVREV : Data retrieval in the metacatalogue of galaxies	261
50. A. FERNANDEZ, G. MATHEZ, A. MAZURE, L. NOTTALE, R. ROTHENFLUG : Le Centre de Données des Amas de Galaxies	265
51. G. PATUREL : Centralization of extragalactic data	269
52. N.G. KOGOSHVILI : The compiled catalogue of galaxies in machine-readable form and its statistical investigation	273
53. B. NICOLET : Geneva photometric boxes IV. A refined method for direct access	277
54. W. GLIESE : Data for the compilation of the "Third catalogue of nearby stars"	281
55. H. JAHREISS : Fundamental Data for FK4/FK4Sup Stars	285
56. G. LYNČA : Remarks about the cataloguing of open cluster data	289
57. M. BARBIER, M. PETIT : Catalogue bibliographique de vitesses radiales stellaires	293
58. P. POLECHOVA : The new catalogue of optical HII-Regions	297
59. A. ACKER, J. MARCOUT : Catalogue of planetary nebulae and their nuclei	301
60. G. EBEL : Numerical data documentation in physics in the Federal Republic of Germany	305
DISCUSSION	321
B. HAUCK : Final comment	309
W.D. HEINTZ : Report of discussions	311
AUTHOR'S INDEX	323