

1. *Cooperative Programmes*: K. Gyldenkerne (Chairman), M. Kitamura (Vice-chairman), M. G. Fracastoro, G. F. G. Knipe, N. L. Magalashvili, J. Sahade, K. Serkowski, F. B. Wood.

2. *Times of Minima*: T. Herczeg (Chairman), B. Cester, G. F. G. Knipe, A. Landolt, Mrs. M. W. Mayall, R. Szafranec.

3. *Bibliography*: G. Larsson-Leander (Chairman), B. Cester, J. Grygar, O. Gunther, D. Hall, M. Kitamura, K. K. Kwee, J. Sahade, A. R. Shulberg, S. D. Sinvhal.

4. *Observations from Outside the Earth's Atmosphere*: Y. Kondo (Chairman), J. Grygar, D. Ya. Martynov, J. Sahade, S. Sobieski.

5. *Working Group, Commissions 30 + 42*: From Commission 42, A. H. Batten, M. Plavec, D. M. Popper, J. Sahade.

The business sessions concluded with a brief description, by Dr Fracastoro, of his Catalogue of the Light-curves of Eclipsing Variable Stars.

Scientific Sessions

The following papers were read:

R. H. Koch: 'New Graded Photometric Catalogue of Eclipsing Binaries'.

R. E. Wilson (and E. S. Devinney): 'Synthetic Light Curves'.

J. B. Hutchings: 'Reflection and Other Effects on Light Curves'.

J. E. Merrill: 'Comments on Solution Procedures'.

K. Serkowski: 'Polarization.'

D. Lauterborn: 'Evolution with Mass Loss from System'.

J. Hazlehurst: 'Contact Binaries'.

K. O. Wright: 'Ultraviolet Spectra of VV Cephei'.

Additional short contributions were also made by E. G. Reuning, K.-Y. Chen, A. D. Thackeray, H. Mauder, K.-C. Leung, J.-P. Zahn and Y. Sobouti.

APPENDIX. REPORT OF THE COMMITTEE ON COORDINATED PROGRAMMES

The following stars are recommended for observation in a coordinated campaign:

1. HD 35921, 6th. mag, 09.5III dbl-lined sp. binary, dec. = +34°, and above all P=4.0025 d. At present there is half a light curve, obtained by Dr Mayer, and some sp. observations by Dr Batten.

2. Beta Lyrae. Drs Sahade and Batten recommended good coverage of two, not necessarily successive, cycles by coordinated spectroscopic and photometric observations with interference filters or scanner observations. All orders for filters should be placed at the same time as they will be expensive.

3. γ_2 Velorum at dec. = -60° and a period of 78 days was recommended for sponsorship in a coordinated programme of photometric observations only. These would be in 6 narrow-band regions, 3 emission-rich and 3 emission-poor. Dr Sahade has already corresponded with Infrared Industries and hopes to place a wholesale order soon. The European Southern Obs. has pledged cooperation and it is expected that telescope time at Cerro Tololo will be obtainable.

4. The long-period eclipsing binaries 31 Cyg, 32 Cyg and Zeta Aur have been put into one campaign because the common denominator is telescope time on critical nights. (See resolution under Business Sessions.)

The Sub-committee felt that there was still a deplorable lack of coordination between observers of eclipsing binaries in general, and recommended increased use of and attention to the reports of programmes planned and in progress as published in the semi-annual bibliography.

The Sub-committee discussed former coordinated programmes and the problem of how to make the best use of the data obtained. It recommends that the coordinator of each campaign follow up on the publication of results and their evaluation and make a status report to Commission 42 at appropriate intervals.

KATHERINE G. KRON, Chairman