

The President then delivered his address.

The monthly Meetings held on 24th November and 22nd December 1914 were presided over by the President, the Hon'ble Mr. W. A. Lee. The papers read at these Meetings are published in this issue.

The Report of the Astronomical Society of India for the year ending 30th September 1914.

The Council beg to submit the following report on the progress and operations of the Astronomical Society of India for the session 1913-14 which ended on 30th September 1914.

2. *Members.*—The Society has completed the fourth year of its existence. It entered into its fourth session with 210 members and closed it with 162. There were 9 new admissions and 14 resignations, and 43 were struck off the rolls under Bye-law No. 27 for default in payment of subscriptions.

3. *Meetings.*—The Council held 8 ordinary and 3 special meetings for conducting the business of the Society, and a Sub-Committee of the Council met three times to arrange the details of an At Home given during the year to the members and a number of guests.

The Annual General Meeting of the Society for electing the office-bearers for the session 1913-14 was held on 31st October 1913. There were also 8 ordinary monthly meetings of the members at which papers were read and discussions held. A list of the papers read with the names of their authors is given at the end of this report.

4. *Public lectures.*—For the benefit of the general public three public lectures in popular language were delivered free at the Town Hall, Calcutta, on the 8th January 1914, the 12th February 1914, and the 20th March 1914. The lectures were on the following subjects :—

- (1) The Great Star Map
- (2) Jupiter. The Giant Planet
- (3) Astronomy—Ancient and Modern,

and were delivered by Mr. A. B. Chatwood, B.A., F.R.A.S., Director, Nizamiah Observatory, Hyderabad, by the Revd.

J. Mitchell, M.A., F.R.A.S., Principal, Wesleyan College Bankura, and by Dr. D. N. Mullick, M.A., D.Sc., F.R.S.E. Professor, Presidency College, Calcutta, respectively. The lectures were well attended and were presided over, the first by the Hon'ble Mr. P. C. Lyon, C.S.I., I.C.S., the second by the Hon'ble Mr. Justice C. W. Chitty and the third by the Hon'ble Justice Sir H. L. Stephen, C.V.O. The best thanks of the Society are due to the Chairman of the Corporation of Calcutta for having lent the Town Hall free of charge, except for cost of lights and fans, for the purposes of these lectures, to the authors of the lectures and to the gentlemen who presided over them.

5. *At Home*.—On the 4th February 1914 the President and Council of the Society were At Home to the members and a number of guests on the grounds of No. 28 Chowringhee kindly placed at their disposal by Mrs. Percy Brown. The invitations were largely responded to and a very enjoyable evening was spent. Great interest was taken by the guests in the astronomical instruments that were arranged on different parts of the grounds.

6. *Journal of the Society*.—The journal of the Society was issued monthly up to April 1914. It was then decided to make one issue for May, June and July. In all, therefore, there were six monthly issues and one quarterly issue during the session. The Memoranda for Observers published in these issues were prepared by Mr. Henry Hart of Mangalore, to whom the Society is indebted for his labour of love.

7. *Recognition of the Society*.—The following Societies and Observatories regularly exchanged their publications with those of the Society :—

1. Royal Astronomical Society of London.
2. British Astronomical Society of London.
3. Royal Astronomical Society of Canada.
4. South African Association for the Cultivation of Science.
5. Astronomical Society of Barcelona.
6. Royal Observatory of Scotland.
7. Vatican Observatory.
8. Astronomer Royal, Greenwich.
9. Royal Observatory of Belgium.
10. Director of Indian Observatories, Alipore.
11. Director of Kodaikanal Observatory.

12. Oxford University Observatory.
13. Radcliffe Observatory.
14. Astronomical Society of Leeds.
15. Paris Observatory.
16. Astronomical Society of Wales.
17. Nizamiah Observatory, Hyderabad.
18. Saraswat Chatuspathi, Calcutta.

The acknowledgments of the Society are due to these Societies and Observatories for this exchange.

The Journal of the Society continues to be subscribed by the following educational institutions :—

1. The Presidency College, Calcutta.
2. The Sanskrit College, Calcutta.
3. The Hooghly College, Chinsurah.
4. The Krishnanagar College.
5. The Patna College.
6. The Muir Central College, Allahabad.
7. The Elphinstone College, Bombay.

The Journal is also supplied free to the Imperial Library, Calcutta.

8. *Government grant.*—The Council have much pleasure to announce that in July 1914 His Excellency the Governor of Bengal favoured the Society with a donation of Rs. 500 in aid of its funds and that the question of giving the Society an annual Government grant is under the consideration of the Government of Bengal. The receipt of the donation has been acknowledged with grateful thanks.

9. *Library.*—Some valuable books and periodicals were kindly presented to the Library by the President of the Society during the course of the year, and the number of books other than journals has now risen to 222. All possible facilities were given to the members for taking out books and other papers for study. The Library is now kept open on Mondays every week from 5 to 7 P.M.

10. *Quarters.*—The business of the Society continues with the permission of the Comptroller General to be conducted in two rooms of the Imperial Secretariat (Treasury) Buildings which are used during office hours for office purposes and the Library continues to be housed in a room in the same

buildings placed at the disposal of the Society by the Comptroller General. The gratitude of the Society is due to the Comptroller General for his kindness.

11. *Accounts*.—The accounts of the Society for the year under report are shown in the accompanying statements.

List of Papers read at the Ordinary Monthly Meetings of the Society.

SESSION 1913-14.

- | | | | |
|-----|--|--------|-----------------------------|
| 1. | The Shifting Ecliptic | ... | By Mr. Henry Hart. |
| 2. | The forces which go to determine the motions of the Moon in space | | „ the Revd. A. C. Ridsdale. |
| 3. | The composition of the Tonk Meteorite | | „ Dr. W. A. K. Christie. |
| 4. | The movements of the Planets in 1914. | | „ Mr. Henry Hart. |
| 5. | Notes on the Moon | | „ Captain A. M. Urquhart. |
| 6. | Observations of the Gegen-schien. | | „ M. C. V. Raman. |
| 7. | An approximate method of computing precession in certain cases | | „ Mr. A. B. Chatwood. |
| 8. | Saturn in a small telescope | | „ Mr. C. V. Raman. |
| 9. | Some mathematical calculations of the dimensions, weight, etc., of Earth, Moon and Sun | | „ The Revd. A. C. Ridsdale. |
| 10. | Jupiter | | „ The Revd. J. Mitchell. |
| 11. | Mira Ceti | | „ Miss M. C. Felino. |
| 12. | Orbits of Celestial bodies as elliptical, parabolic and hyperbolic plane curves | | „ The Revd. A. C. Ridsdale. |

Revenue Account, Session 1913-14.

General Revenue Account for Session 1913-14.

EXPENDITURE.		RECEIPTS.	
	Rs. A. P.		Rs. A. P.
To Establishment	342 5 0	By Subscription— 210 members on 1-10-13 @ Rs. 8	1,680 0 0
„ Postage and Telegram charges	90 7 0	Add—New members—	
„ Office Expenses and Miscellaneous...	95 5 0	8 @ Rs. 8	64 0 0
„ Discount for cashing cheques	0 8 0	1 @ Rs. 4	4 0 0
„ Typing charges	8 0 0	Deduct—	1,748 0 0
„ Printing charges :—		43 members struck off	
Cost of Printing Journals	496 0 0	@ Rs. 8	344 0 0
„ Cost of miscellaneous printing	75 9 0	12 resigned @ Rs. 8	96 0 0
„ Depreciation in the stock of Library Books	24 1 4	2 dead @ Rs. 4	8 0 0
„ Depreciation in furniture	12 11 9		448 0 0
„ Depreciation in telescope	7 2 0	Amount realised for Session 1913-14—	1,300 0 0
		107 @ Rs. 8	856 0 0
		10 @ Rs. 4	40 0 0
		Deduct—Amount realised in 1912-13	896 0 0
			32 0 0
		Amount in arrears—	
		47 @ Rs. 8	376 0 0
		7 @ Rs. 4	28 0 0
	1,152 1 1		(a) 404 0 0
			864 0 0

II. General Balance Sheet on 30th Sept. 1914 as modified.

LIABILITIES.		ASSETS.	
	Rs. A. P.		Rs. A. P.
<i>Sundry Cr. Accounts</i>		<i>Capital Account—</i>	
		P. T. Debenture for	
		Rs. 100 ...	100 0 0
		Library Stock	
		of Books 481 10 2	
		<i>Deduct 5% depreciation</i>	
		<i>charged to Revenue</i>	
		<i>Account 24 1 4</i>	457 8 10
		<i>Value of Tele-</i>	
		<i>scope (as</i>	
		<i>assessed by</i>	
		<i>the Director</i>	
		<i>of Treas-</i>	
		<i>urements) ... 142 8 0</i>	
<i>Revenue Account</i>	722 1 8	<i>Deduct 5% depreciation</i>	
		<i>charged to</i>	
		<i>Revenue</i>	
		<i>Account ... 7 2 0</i>	135 6 0
<i>Library Account</i>		<i>Furniture—</i>	
Balance of Revenue		Last year 127 5 3	
Account ...	128 5 5	<i>Deduct 10% depreciation</i>	
		<i>charged to</i>	
		<i>Revenue</i>	
		<i>Account 12 11 9</i>	114 9 6
<i>Deposit Account</i>		<i>Unsold Journals—</i>	
Balance of Deposit		1910-11 ... 1,942	
Account ...	165 0 0	1911-12 ... 2,122	
		1912-13 ... 2,700	
		1913-14 ... 700	
<i>At Home Account</i>		7,461	
Balance of At Home		<i>or No. 2 per copy ...</i>	933 0 0
Account ...	22 15 9	<i>Sundry Drs. ...</i>	
		<i>Unrealised assets as</i>	
		<i>per Suspense Account</i>	
		<i>1913-14 ...</i>	
		<i>Subscription for</i>	
		<i>1913-14 ...</i>	404 0 0
<i>Excess of Assets over</i>		<i>Cash Balance in the</i>	
<i>Liabilities</i>	1,904 1 7	<i>Alliance Bank of</i>	
		<i>Sindia, Ltd. ...</i>	743 14 10
		<i>Cash with Treasurer ...</i>	8 8 3
	2,896 15 5		2,896 15 5

U. L. BANERJEE,
Treasurer.