

REPORT OF THE EXECUTIVE COMMITTEE, 1938-47

After the interruption caused by the war in international co-operation the desire was felt to organize the Union's affairs anew as soon as possible, and to enable the Union to resume its activities at an early date.

As circumstances did not yet permit a General Assembly to be called, the Executive Committee met at Copenhagen, from March 7 to 13, 1946, together with other representatives from thirteen countries to discuss problems for which decisions were required immediately.

After consultation with the delegates the Executive Committee decided as follows:*

(a) *Solar Phenomena*

1. That the annual grant of 2700 gold francs for the *Cartes Synoptiques* be continued and that an additional annual payment of the same amount be made to make up for the arrears in payment during the war years, in order to assist the Meudon Observatory to bring these publications up to date as far as possible.

2. That a grant be made to Prof. Abetti to cover the cost of publication of the records already prepared for 1935 and 1936, and that the Union cease to subsidize the publication of *Immagini Spettroscopiche* after that date.

3. That no attempt be made to combine the *Quarterly Bulletin* with other publications, the *Bulletin* being a summary publication giving results as early as possible, the other publications necessarily involving a delay in publication.

4. That Dr Fesenkov, Dr Lyot, Dr Menzel and Dr Woolley be nominated to the Joint Commission on the Ionosphere formed by the International Council of Scientific Unions. Each of the Unions of Astronomy, Geodesy and Geophysics, Radio-Science and Physics will nominate four members in this Commission.

5. That the form of the *Quarterly Bulletin* should be modified as follows. The characteristic numbers should be dropped, except only the sunspot number. That the question be referred to Commission II of the I.A.U. of adding as soon as can be arranged to the daily records details of coronal phenomena, radio noises of solar origin, and the luminescence of the night sky, and of securing a better index of prominence activity than the present one. That the details of solar eruptions continue to be published as at present, and that the President of Commission II arrange for the details of the publication during the transition stages, 1945 onwards.

6. That Commission II be also asked to study the question of the prediction of terrestrial phenomena of solar origin and the determination of zones of activity on the Sun's disk. That the Commission also be reminded of the importance of arranging when possible for a continuous cinematographic study of the Sun from stations spaced round the globe.

(b) *Variable Stars*

1. That Commission 27 assume responsibility for the Naming of Variable Stars. A sub-committee has been nominated for this purpose.

2. That Commission 27 assume responsibility for the publication every five years of the *Catalogue and Ephemerides of Variable Stars* with intervening annual supplements, as well as for the publication of the third volume of Prager's *Bibliography*.

3. That the offer of the Academy of Sciences of the U.S.S.R. and of the Sternberg Astronomical Institute be accepted to prepare the Name-list and to prepare and publish both the *Catalogue and Ephemerides*, and Prager's third volume, with the afore-mentioned sub-committee of Commission 27 acting in an advisory capacity, the Name-list itself to be published by the I.A.U.

* The decisions had the approval of the General Meeting of Delegates, but are subject to subsequent approval by a regular General Assembly.

4. That an annual grant of 500 gold francs be made to the President of Commission 27 for the publication of this Name-list.

5. That additional bibliographic plans be postponed to the next meeting of the I.A.U. and that the publication of a new check-list be postponed, or incorporated in the five-year Catalogue.

6. That the two payments not yet made to the Cracow Observatory on the agreement of 1938 be now made for work in Poland on variable stars in the years 1946-48 inclusive.

(c) *Exchange of Astronomers*

1. That a standing Commission be appointed for facilitating the exchange of astronomers.

2. That the attention of U.N.E.S.C.O. be drawn to the existence of this Commission, as an advisory body to whom U.N.E.S.C.O. could refer questions of the exchange of astronomers.

(d) *Fundamental Astronomy and Minor Planets*

1. That the Executive Committee draw the attention of National Committees to the project initiated by Commodore Hellweg and supported by a Commission of the American Astronomical Society to install a number of photographic zenith-tubes in different latitudes and longitudes for the purpose of obtaining better information on latitude variation as well as on the systematic errors of existing systems of proper motion.

2. That an information centre for this project be formed at the Naval Observatory, Washington.

3. That a grant of $3 \times \text{£}300$ be made to the Leiden Observatory towards the expense of a second expedition for the measurement of fundamental declinations by means of azimuth observations, subject to the balance of the funds required being obtained.

4. That the computation of ephemerides of known Minor Planets be shared by the Institute of Theoretical Astronomy at Leningrad and by the Rechen-Institut at Heidelberg.

5. That the Berkeley Observatory be approached on the subject of the computation of newly discovered Minor Planets.

6. That the ephemerides computed at Leningrad be published there as suggested, and that the copy for press for the ephemerides and orbits computed at Heidelberg or Berkeley be sent to a centre arranged by the Union, and that these be published by the Union.*

7. That provisions be made for the sending out by the selected centre of circulars of observations.

(e) *Latitude Variation*

1. That the annual grant of 2250 gold francs for the Central Bureau be resumed if the Bureau remains in Italy.

2. That a special grant of 4000 gold francs be made towards the publication of the *Latitude Results 1935-41*.

(f) *Further Annual Grants*

That the annual grants of 1200 gold francs to the Telegram Bureau, of 7200 gold francs to the Bureau de l'Heure, and of 6000 gold francs to the Bureau of the Union be continued.

(g) *International Observatory*

That Dr Shapley be invited to emphasize to the United Nations Educational, Scientific and Cultural Organization (U.N.E.S.C.O.) that this organization envisage the foundation

* The Executive Committee has further voted an annual grant of 2500 gold francs for this purpose to the President of Commission 20.

of one or more International Observing Stations at which astronomers of all countries could be enabled to use instruments that are beyond the possibilities available in most countries. It was emphasized that such an observatory, internationally planned, internationally staffed and internationally operated, would effectively promote good will among scientists the world over, and thus serve the cause of peace.*

(h) *Delegates to International Council of Scientific Unions*

That in the future the President and General Secretary represent the Union on this Council, and that, in case either of these is unable to attend a meeting of the Council, he designate another member of the Union to take his place.

The report of a special committee designated to advise the Executive Committee on Bibliography was read at a General Session of Delegates. In this report the desirability was stressed of having two bibliographies: (1) an annual bibliography, such as the *Jahresbericht*, giving fairly extended abstracts, but being published inevitably with a somewhat long delay; (2) a bibliography such as the *Bibliographie Mensuelle*, giving only very short abstracts, but published quickly. Attention was further drawn to the importance of publishing a series of monographs on recent progress in the different branches of astronomy.

The Executive Committee has further voted a new grant of 500 gold francs towards the completion of the *Bibliographie Mensuelle* up to 1948, and a grant of 500 gold francs to the President of Commission 33, to cover part of the expense of the publication under the auspices of the Union of tables prepared by Dr Link for correcting radial velocities for the effect of the Sun's motion.

At the same time the various Standing Committees were composed anew; the new composition is given at the top of the Draft Report of the Commission concerned, the names of members afterwards co-opted under By-Law IV, 15, having been added.

It was also decided that Commission 28, which was formerly called 'Commission on Nebulae and Star Clusters', will in future concern itself with extra-galactic nebulae only, whereas a new Commission, No. 37, Chairman Dr Shapley, on Star Clusters, has been formed. Galactic nebulae will be treated by Commission 34, which is now called: 'Commission on Interstellar Matter and Galactic Nebulae.' Prof. Stratton presides over the new Commission, No. 38, on Exchange of Astronomers.

In 1947 a new Commission, No. 39, on International Observatories, was formed, of which Dr Shapley is President.

The Executive Committee has allotted in each of the years 1939 and 1940 a grant of 2000 gold francs to Dr R. Prager, in order to enable him to finish at the Harvard College Observatory the 'Geschichte und Literatur der veränderlichen Sterne'.

COUNTRIES ADHERING TO THE UNION

Since the last General Assembly Australia, Chili, Eire, Hungary and India have adhered to the Union.

The following is the list of countries adhering to the Union and of the adhering organizations.

Country	Year of Adherence	Adhering Organization
Argentine Republic	1927	Government.
Australia	1939	National Research Council.
Belgium	1920	Académie Royale de Belgique.
Canada	1920	National Research Council, Ottawa.

* The idea of an international observatory was suggested independently by the Polish delegation and by Dr Shapley. It received the unanimous support of the Meeting of Delegates.

Country	Year of Adherence	Adhering Organization
Chili	1947	Observatorio Astronómico de la Universidad de Chile, Santiago de Chile.
China	1935	National Committee of Astronomy, Nanking.
Czechoslovakia	1922	Conseil National de Recherches, Prague.
Denmark	1922	Kongelige Danske Videnskabernes Selskab, København.
Egypt	1925	Government.
Eire	1947	Dublin Institute for Advanced Studies.
Finland	1948	National Committee of Astronomy, Helsinki.
France	1920	Académie des Sciences, Paris.
Great Britain	1920	Royal Society, London.
Greece	1920	Académie d'Athènes, Athènes.
Hungary	1947	Hungarian Academy of Sciences, Budapest.
India	1946	The National Institute of Sciences of India, New Delhi.
Italy	1921	Consiglio Nazionale delle Ricerche, Roma.
Mexico	1921	National University of Mexico.
Netherlands	1922	Koninklijke Nederlandsche Akademie van Wetenschappen, Amsterdam
Norway	1922	Det Norske Videnskaps-Akademi, Oslo.
Poland	1922	Polska Akademia Umiejetności, Cracovie.
Portugal	1924	Government.
Roumania	1928	Comitetul National Astronomic.
South Africa	1938	The Council for Scientific and Industrial Research, Pretoria.
Spain	1922	Academia de Ciencias Exactas, Madrid.
Sweden	1925	Kungl. Vetenskapsakademien, Stockholm.
Switzerland	1923	Schweizerische Naturforschende Gesellschaft, Bern.
United States	1920	National Research Council, Washington.
U.S.S.R.	1935	Academy of Sciences of the U.S.S.R., Moscow.
Vatican City State	1932	Pontifica Accademia delle Scienze i Nuovi Lincei, Roma.
Yugoslavia	1935	National Committee of Astronomy, Belgrade.

DECEASED MEMBERS

The Executive Committee regret to record the loss by death of the following members of the Union:

- E. M. Antoniadi, Member of Commission 16. Died February 10, 1944.
 Dr J. M. Baldwin, Member of Commission 23.
 Prof. A. Bemporad, Member of Commissions 23, 25. Died January 11, 1945.
 Dr G. Bemporad, Member of Commission 19. Died July 10, 1945.
 A. F. Bennett, Member of Commission 25. Died May 14, 1937.
 V. R. Berg, Member of Commission 19. Died January 4, 1942.
 Prof. Emilio Bianchi, former Vice-President of the Union, Member of Commissions 18, 19, 24, 31. Died September 11, 1941.
 Miss M. A. Blagg, Member of Commission 16. Died April 14, 1944.
 Dr K. Boda, Member of Commission 20. Died February 25, 1942.
 Prof. K. Bohlin, Swedish National Committee. Died May 25, 1939.
 Général R. Bourgeois, French National Committee. Died November 10, 1945.
 Dr W. Bowie, Member of Commissions 18, m. Died August 28, 1940.
 G. Bratu, Member of Commission 23. Died September, 1941.
 Prof. G. Bruhat, French National Committee. Died January 1, 1945.
 Prof. H. Buisson, Member of Commission 14. Died January 6, 1944.
 Miss Dr Annie J. Cannon, Member of Commission 29. Died April 13, 1941.
 Mme Dr Ed. Chandon, Member of Commissions 8, 9. Died March 8, 1944.
 Dr A. C. D. Crommelin, Member of Commissions 15, 20. Died September 20, 1939.
 Prof. H. D. Curtis, Member of Commission 13. Died January 9, 1942.
 Prof. Comte F. M. da Costa Lobo, Member of Commissions 13, m. Died April 29, 1945.
 E. de la Villemarqué, S.J., Member of Commission 20. Died July 21, 1946.

Dr Félix de Roy, President of Commission 22, Member of Commission 27. Died May 15, 1942.

Dr A. de Sitter, Member of Commission 25. Died September 15, 1944.

Dr H. Deslandres, late Vice-President of the Union; Honorary President of Commission 11. Died January 15, 1948.

Dr N. Dneprovsky, Member of Commissions, 8, 31.

Prof. R. S. Dugan, President of Commission 27. Died August 31, 1940.

Sir Frank W. Dyson, Past President of the Union, Honorary President of Commission 8, Member of Commission 23. Died May 25, 1939.

Prof. G. Eberhard, Member of Commission 25. Died January 3, 1940.

Sir Arthur S. Eddington, President of the Union, Member of Commissions 3, 33, 34, 35, 36. Died November 22, 1944.

Prof. P. Emanuelli, Member of Commission 5. Died July 2, 1946.

Prof. R. Emden, Member of Commission 35. Died October 8, 1940.

Prof. Ch. Fabry, late Vice-President of the Union, Honorary President of Commission 9, Member of Commissions 14, 36. Died December 11, 1945.

Prof. Ph. Fauth, Member of Commission 16. Died January 4, 1941.

Prof. A. Fowler, late General Secretary of the Union, Member of Commission 14. Died June 25, 1940.

Prof. R. Furuhielm, Member of Commission 23. Died November 15, 1944.

W. F. Gale, Australian National Committee. Died June 1, 1945.

Prof. L. Grabowski, Member of Commission 3. Died October 24, 1941.

H. Grouiller, Member of Commissions 5, 22, 27. Died November 7, 1943.

J. C. Hammond, Member of Commission 20. Died May 12, 1940.

Dr W. E. Harper, Member of Commissions 24, 30. Died June 4, 1940.

A. R. Hinks, Member of Commissions 20, m. Died April 14, 1945.

Prof. K. Hirayama, Member of Commission 20. Died April 8, 1943.

Prof. Shin Hirayama, Member of Commission 33. Died June 2, 1945.

Prof. A. Ivanov, Member of Commission 18. Died September 22, 1939.

Sir James H. Jeans, Member of Commission 35. Died September 16, 1946.

Prof. F. C. Jordan, Member of Commissions 24, 27. Died February 15, 1941.

Lou Kao, Member of Commission 3. Died in 1947.

Dr H. Kimura, Honorary President of Commission 19. Died September 26, 1943.

Prof. H. Kobold, Member of Commission 20. Died June 11, 1942.

Prof. E. Kohlschütter, Member of Commission 18. Died October 18, 1942.

N. V. Komendantov, Member of Commission 20.

Dr J. Krassowski, Member of Commissions 3, 18. Died January 24, 1947.

Dr A. Lambert, Member of Commissions 8, 18, 31. Died August 15, 1944.

E. Loreta, Member of Commission 22. Died February 2, 1945.

K. Lous, Norwegian National Committee.

Prof. H. Ludendorff, Member of Commissions 3, 27. Died June 26, 1941.

Prof. M. Maggini, President of Commission 16, Member of Commission 25. Died May 8, 1941.

Dr W. Chr. Martin, Member of Commission 27. Died June 29, 1945.

Prof. W. J. H. Moll, Member of Commission 9. Died March 10, 1947.

R. M. Motherwell, Canadian National Committee. Died September 30, 1941.

Prof. J. J. A. Muller, Netherlands National Committee. Died June 6, 1946.

Dr K. Müller, Member of Commission 16. Died October 22, 1942.

J. Nangle, Member of Commission 23. Died February 22, 1941.

Prof. P. V. Neugebauer, Member of Commission 5. Died March 3, 1940.

Dr G. N. Neuymin, Member of Commission 20. Died December 17, 1946.

Prof. H. F. Newall, late Vice-President of the Union, Member of Commission 10. Died February 22, 1944.

Prof. T. Niethammer, Member of Commissions 18, 19, 31. Died July 28, 1947.

Prof. C. Parvulesco, Member of Commissions 28, 33.

Prof. E. J. Perepelkin, Member of Commissions 10, 12.

Général G. Perrier, President of Commission 18, Member of Commission 31. Died February 23, 1946.
 Rev. T. E. R. Phillips, Member of Commission 16. Died May 13, 1942.
 D. B. Pickering, Member of Commission 27. Died June 13, 1946.
 Dr J. S. Plaskett, Member of Commissions 9, 29, 30, 34. Died October 17, 1941.
 Prof. H. C. Plummer, British National Committee. Died September 30, 1946.
 Prof. R. Prager, Member of Commission 27. Died July 21, 1945.
 F. F. Rents, Member of Commission 8.
 Mme Dr D. Klumpke Roberts, French National Committee. Died October 5, 1942.
 Rev. Luis Rodés, S.J., Member of Commissions 10, 11. Died June 7, 1939.
 Prof. H. Rosenberg, Member of Commission 25. Died July 26, 1940.
 Dr G. Rougier, Member of Commissions 16, 23. Died March 10, 1947.
 Prof. R. A. Sampson, Member of Commissions 5, 31. Died November 7, 1939.
 Dr Frank Schlesinger, Past President of the Union, Honorary President of Commission 24, Member of Commissions 3, 19, 23, 32. Died July 10, 1943.
 Prof. F. Slocum, Member of Commissions 20, 24. Died December 4, 1944.
 C. C. Smith, Canadian National Committee. Died July 10, 1940.
 Prof. Elis Strömngren, President of Commission 3, Member of Commissions 6, 17, 20, 27. Died April 5, 1947.
 Prof. J. Svoboda, Member of Commissions 9, 18, 19, 22. Died May 12, 1941.
 Dr M. Tremblot, Member of Commission 25. Died April 19, 1944.
 Dr H. van Gent, Member of Commission 27. Died March 29, 1947.
 Dr A. van Maanen, Member of Commissions 24, 28, 32, 33. Died January 26, 1946.
 Dr A. Wilk, Member of Commission 15. Died February 14, 1940.
 E. G. Williams, Member of Commissions 29, 34, 36. Died May 31, 1940.
 Prof. C. W. Wirtz, Member of Commission 28. Died February 18, 1939.
 Dr J. Woltjer, Jr., Member of Commission 35. Died January 28, 1946.
 Dr H. E. Wood, Member of Commissions 6, 13, 20. Died February 28, 1946.
 P. J. Yashnov, Member of Commission 5.
 Dr M. L. Zimmer, Member of Commissions 8, 18. Died February 5, 1945.

NEW MEMBERS

After the meeting in Stockholm, before the war, the following were co-opted by the various Commissions under By-Law IV, 15:

K. Araki (22), W. Baade (25, 28, 32, 34), J. M. Baldwin (23), F. Becker (32), S. J. Belyawsky (20), T. P. Bhaskaran (23), L. Biermann (35), K. Boda (20), N. Boneff (17), R. B. Bousfield (22), H. Brück (12), S. Chandrasekhar (12, 35), H. B. Curlewis (23), S. S. da Gama (19), G. F. Dodwell (19), G. Eberhard (25), R. Emden (35), Ph. Fauth (16), R. Furuhjelm (23), K. Graff (25, 27), W. Grotrian (13, 29), H. Grouiller (5), P. Guthnick (25, 27, 30), O. Heckmann (33), J. Hellerich (25), C. Hoffmeister (22, 27), J. Kaplan (22), H. Kayser (14), H. Kienle (25, 36), H. Kobold (20), A. Kohlschütter (29, 32, 33), E. Kohlschütter (18), A. Kopff (4, 8, 15, 20), A. Kuwaki (5), H. Ludendorff (3, 27), R. A. McIntosh (22), K. Müller (16), J. Nangle (23), A. L. Narayan (10, 11), P. V. Neugebauer (5), E. J. Öpik (22), R. Prager (27), Lord Rayleigh (22), K. Reinmuth (20, 28), H. Rosenberg (25), E. Schoenberg (34), R. Schorr (8, 20), R. Schumann (19), M. Schwarzschild (35), A. Schwassmann (32), L. Sommer (22), T. E. Sterne (35), G. Stracke (20), P. ten Bruggencate (12), O. Thomas (22), A. Unsöld (11, 12, 29, 36), H. Vogt (35), E. von der Pahlen (33), H. von Klüber (12, 13), K. Walter (27), C. F. Weizsäcker (35), R. Wildt (16), C. W. Wirtz (28), G. Witt (20), W. M. Worssell (17).

After the meeting in Copenhagen the following were co-opted by the various Commissions under the same By-Law:

Akbar Ali (23), J. Ashbrook (27), Miss I. Barney (8), H. Barrell (14), I. Bonsdorff (17), D. Brouwer (8), R. P. de Kock (27), M. dos Reis (11), W. J. Eckert (8), R. Grandón (20),

H. O. Grönstrand (13), Miss D. Hoffleit (24), G. J. Järnefelt (23, 36), D. S. Kothari (35), L. La Paz (22), Mrs S. Levy McDonald (20), R. A. McIntosh (22), H. A. Martinez (8), G. Merton (20), F. D. Miller (33), P. M. Millman (13), O. Mohler (11), E. Öpik (22), A. J. Orlov (8), L. C. Peltier (27), F. Rutllant (12), M. N. Saha (11), R. F. Sanford (29), F. P. Scott (8), C. D. Shane (8), H. S. Spigl (23), R. H. Stoy (8), B. Strömgren (34), K. F. Sundman (17), J. Tuominen (35), Frank Bradshaw Wood (27), H. W. Wood (23).

The following, not being members of Commissions, became members on being elected to national committees of astronomy of adhering countries:

Sir Edward Appleton, Prof. Z. Bay, Prof. D. Brunt, H. E. Butler, Dr L. Detre, Prof. L. Dezsö, M. M. Dujisin, Prof. J. Egerváry, Prof. G. R. Goldsbrough, Prof. P. Gombás, Dr C. Graef, Prof. G. Haro, F. M. Holborn, Prof. H. Jeffreys, Miss H. A. Kluyver, H. E. Krumm, Prof. K. Lassovsky, T. L. MacDonald, Dr B. Mašek, P. J. Melotte, Dr W. J. Miller, S.J., Dr T. E. Nevin, J. J. Nolan, Prof. Fr. Nušl, F. J. O'Connor, Dr L. Plaut, Dr J. G. Porter, G. Romero, Prof. R. O. Sandoval, Dr M. Sandoval Vallarta, F. J. Sellers, Dr R. Stoneley, W. S. Tai, Sir Edmund Whittaker, A. Zirwes, S.J.

The following were nominated as members by national committees of astronomy:

Poland: Dr W. Gorczyński, Dr W. Iwanowska, Dr W. Koebecke, Dr J. Mergentaler,

Dr S. Piotrowski, Dr S. Szeligowski, Mgr W. Tecza, Dr S. Wierziński.

South Africa: A. W. J. Cousins.

U.S.S.R.: N. I. Idelson, V. A. Krat, K. A. Kulikov, B. A. Orlov.

APPOINTMENTS MADE BY THE EXECUTIVE COMMITTEE

After the death of Sir Arthur Eddington Sir Harold Spencer Jones was appointed to succeed him as President of the Union.

Prof. Ch. Fabry, Prof. Ö. Bergstrand and Prof. W. Brunner, who wished to retire from their function as Vice-President, have been replaced by Prof. A. Danjon, Prof. A. A. Mikhailov and Prof. G. Tiercy respectively.

Prof. M. Waldmeier has been appointed as successor to Prof. W. Brunner as Chairman of Commission 10.

Prof. B. J. Bok was nominated to represent the Union in the Committee on Science and its Social Relations of the I.C.S.U.

Dr Deslandres (honorary member), Drs Abbot, Abetti, d'Azambuja, Newton, Nicholson and Waldmeier have been appointed by the I.A.U. as members of the Mixed Commission on Solar and Terrestrial Relations of the I.C.S.U.

In July 1946 and July 1947 the President and the General Secretary represented the I.A.U. at meetings of the Executive Committee of the I.C.S.U., in London and Paris respectively. On both occasions the General Secretary read a report on recent activities of the Union.

INCOME AND EXPENDITURE

During the occupation of the Netherlands by the Germans, from May 10, 1940, to May 5, 1945, the General Secretary was not able to perform fully his secretarial duties. Dr W. S. Adams was kind enough to carry out all transactions concerning countries outside the German sphere of influence.

Some time before the war the General Secretary opened a dollar account for the I.A.U. at the Corn Exchange Bank Trust Co., New York, so that at present the Union has three accounts: one in dollars in New York, one in pounds at Barclays Bank, Cambridge, England, and one in guilders at the Amsterdamsche Bank, Leiden.

Moreover, a somewhat fictitious, fourth account has been formed, expressed in gold francs. This has originated from the difficulties inherent in transferring money from one country to another during the war. On account of these difficulties the Executive Committee decided that countries in which a Bureau to which grants had been allotted by

the I.A.U., had its seat, might pay their subscription directly to that Bureau. In this way Denmark, and for analogous reasons Sweden and afterwards Norway, paid their subscriptions to the Telegram Bureau in Copenhagen, France to the Director of the Paris Observatory for the Bureau de l'Heure and the Cartes Synoptiques, Italy to Prof. Abetti and Prof. Carnera for the Immagini Spettroscopiche and the Latitude Bureau. No account was taken of the actual exchange, which would have been almost impossible, but the subscriptions paid were assumed to represent the amounts in gold francs actually due. This system has worked satisfactorily.

In May 1940, on the invasion of the Netherlands, the I.A.U.'s sterling account at Barclays Bank, Cambridge, was blocked by the Custodian of Enemy Property; it was released in June 1946.

At its meeting in Copenhagen in March 1946 the Executive Committee decided that the unit of contribution for the years 1942-48 be fixed at 300 gold francs, the gold franc being defined, in accordance with the Statutes of the International Council of Scientific Unions, Vol. 3, 1937, p. 107, as 0.2903225 grammes fine gold, or 0.3266 U.S. dollars.

It was also decided to request payment for the war years, because the various bureaux supported by the Union had continued their work during these years. It was judged to be all the more necessary because a number of the countries which were occupied during the war were unable to pay their contributions for these years. The possibility of having their dues for the war years annulled was offered to those countries which had suffered so badly from the war that they were not able to pay. A number of such countries have actually availed themselves of this opportunity, while several others have paid their contributions in full.

On January 1, 1948, the unexpended balance was about \$38,000. This does not, however, represent the true balance, \$21,000 being already allotted to various Commissions. Furthermore, the total of the grants for 1948 plus estimated costs for the Bureau in this year (total \$12,000 in round figures) should be available at the beginning of the year. The true balance is, therefore, approximately \$5000.

In future the financial status of the I.A.U. will be entirely different, on account of the interest taken by U.N.E.S.C.O. in international organization. This body intends to give grants for undertakings which are of a sufficiently wide scope. In fact, for 1947 U.N.E.S.C.O. has already allotted the following grants to the I.A.U.:

Commission 19, Latitude Variation	\$ 980.
Commission 31, Bureau International de l'Heure	\$8800.
Commission 38, Exchange of Astronomers	\$1960.

INCOME AND EXPENDITURE, 1938

POUNDS		EXPENDITURE nil	
INCOME	£ s. d.		£ s. d.
Balance, Jan. 1, 1938	2664 2 8	...	2677 2 8
Interest	13 0 0	...	...
	<u>2677 2 8</u>		<u>2677 2 8</u>

INCOME AND EXPENDITURE, 1939

POUNDS		EXPENDITURE	
INCOME	£ s. d.		£ s. d.
Balance, Jan. 1, 1939	2677 2 8	Nov. 18 Général Perrier (§ special grant to Com- mission 18)	410 10 0
Interest	16 7 3	Oct. 21 Cambridge University Press (<i>Trans.</i> 6)	537 1 5
	<u>2693 9 11</u>	Oct. 30 Lund Humphries (<i>Hyderabad Cat.</i> 11)	297 9 6
		Balance, Jan. 1, 1940	1448 9 0
			<u>2693 9 11</u>

INCOME AND EXPENDITURE, 1940

POUNDS		EXPENDITURE	
INCOME	£ s. d.		£ s. d.
Balance, Jan. 1, 1940	1448 9 0	May 15 Prof. Nörlund (grant to Commission 31, first semester, 1940)	329 0 3
Subscriptions:		Mar. 13 International Council of Scientific Unions	18 13 6
Mar. 2 Australia (1940)	47 0 11	May, June, transferred to Custodian of Enemy Property	1203 18 1
June 8 Egypt (1939)	53 19 9		
Interest	<u>101 0 8</u>		
	<u>2 2 2</u>		
	<u>1551 11 10</u>		<u>1551 11 10</u>

INCOME AND EXPENDITURE, 1946

POUNDS

INCOME		EXPENDITURE	
£	s. d.	£	s. d.
Balance, Jan. 1, 1946	...	...	...
Subscriptions:			
Sept. 17 Australia (1941-46)	292 3 6	...	...
June 6 Great Britain (1940-46)	1361 10 0	...	...
June 19 Norway (1941-46)	146 0 0	...	...
June 21 From Custodian of Enemy Property	1799 13 6	...	...
	1237 3 7*	...	...
	<u>£3036 17 1</u>	...	...

* In this sum is included an amount of £33. 5s. 6d., which represents interest for the time the money was in the hands of the Custodian of Enemy Property.

INCOME AND EXPENDITURE, 1947

POUNDS

INCOME		EXPENDITURE	
£	s. d.	£	s. d.
Balance, Jan. 1, 1947	...	...	...
Subscriptions:			
June 28 Great Britain (1947)	192 18 7	...	...
Cambridge University Press (sale <i>Trans.</i> etc.)	41 4 10	...	...
Sale, lunar maps	15 0	...	...
	<u>192 18 7</u>	...	...
	<u>£3016 14 11</u>	...	...
		Grants to Commissions:	
		<i>Commission 8:</i>	
		Special grant for Kenya Expedition:	
		Aug. 26 To Leiden Observatory	900 0 0
		<i>Commission 23:</i>	
		Mar. 21 Lund Humphries (<i>Asst. Cat. Hyderabad</i> , vol. 12)	327 5 5
		Dec. 31 Wrigley (for work on Edinburgh volume)	130 0 0
		<i>Commission 38:</i>	
		Nov. 1 Prof. Stratton (part grant 1947)	200 0 0
		International Council of Scientific Unions	...
		Balance, Jan. 1, 1948	...
			1557 5 5
			41 12 0
			1652 15 11
			<u>£3251 13 4</u>

INCOME AND EXPENDITURE, 1938
GUILDERS

INCOME	Fl. 7502-41	EXPENDITURE	Fl. 725-79
Balance, Jan. 1, 1938	...	Grants to Commissions:	...
Subscriptions:	...	<i>Commission 6:</i>	...
Feb. 18 Argentine (1937)	Fl. 521-51	Dec. 30 Prof. E. Strömngren (1939)	Fl. 725-79
Aug. 24 Argentine (1938)	534-58	<i>Commission 11:</i>	...
May 19 Belgium (1938)	339-36	Feb. 28 Prof. Abetti (1938)	882-46
Mar. 4 Canada (1938)	512-29	Mar. 1 Prof. Esclangon (1938)	1764-17
Dec. 31 China (1938)	359-17	<i>Commission 12:</i>	...
Sept. 23 Denmark (1938)	180-74	Nov. 8 Prof. Minnaert (special grant, Utrecht Atlas)	842-00
Nov. 11 Egypt (1938)	538-84	<i>Commission 19:</i>	...
July 13 Great Britain (part 1938)	993-70	Mar. 4 Dr Spencer Jones (1938)	1468-43
July 28 Great Britain (to complete 1938)	411-09	<i>Commission 20:</i>	...
Dec. 14 Greece (1931-38)	1527-27	Mar. 4 Dr Spencer Jones (special grant, Eros)	881-14
Mar. 15 Italy (1937)	1404-18	<i>Commission 27:</i>	...
Apr. 25 Japan (1937)	1402-35	Jan. 6 Prof. Banachiewicz (1938)	472-79
Jan. 27 Netherlands (1937)	352-40	<i>Commission 31:</i>	...
Jan. 28 Norway (1938)	170-30	Feb. 25 Prof. Nörlund (part first semester, 1938)	1664-35
Jan. 4 Poland (to complete 1935; 1936 and 1937)	2369-25	Mar. 11 Prof. Nörlund (to complete first semester, 1938)	687-90
May 4 Poland (1938)	1402-94	July 8 Prof. Nörlund (second semester, 1938)	2348-09
Feb. 26 Portugal (1938)	348-51	International Council of Scientific Unions	188-79
May 4 Roumania (part 1937)	559-06	Travelling expenses, Oort	210-00
Apr. 1 South Africa (1938)	175-00	Travelling expenses, de Haan	4-12
Jan. 13 Sweden (1937)	350-39	Expenses General Assembly, Prof. Lindblad (stationery, clerical assistance, telegrams, etc.)	509-10
June 14 Switzerland (1938)	175-16	Clerical assistance	50-00
Apr. 14 U.S.A. (1937)	1405-92	Cost report, Prof. van Rhiijn	617-85
Dec. 31 U.S.A. (1938)	1436-09	Stamps, etc.	281-08
Nov. 24 U.S.S.R. (1938)	1430-13	Stationery and printing	129-57
June 29 Vatican City State (1936, 1937, 1938)	528-66	Bank expenses, cheque books	29-06
Sale, lunar maps	19428-89	Balance, Jan. 1, 1939	13280-50
Cambridge University Press	11-22		
Sale, supplement Stroobant	79-07		
Interest	1-60		
	14-00		
	Fl. 27037-19		

INCOME AND EXPENDITURE, 1940
GUILDERS

INCOME	Fl. 821.52	EXPENDITURE	
Balance, Jan. 1, 1940	...	Grants to Commissions:	...
Subscriptions:	...	<i>Commission 11:</i>	...
Dec. 11 Belgium (1940)	Fl. 347.15	Feb. 15 Abetti (Imm. Spetttr., 1940) ...	Fl. 833.14
Apr. 13 Canada (1940)	563.50	Feb. 21 d'Azambuja (Cartes Syn., 1940)	1662.57
Jan. 18 China (4, 1939)	367.00	<i>Commission 19:</i>	...
Apr. 23 Italy (1940)	1472.70	Feb. 21 Carnera (Latitude Bureau, 1940)	1385.48
Feb. 23 Japan (1939)	1467.42	Bank expenses	19.81
Jan. 8 Netherlands (1939)	369.31	Stamps, etc.	5.92
Mar. 15 Netherlands (1938)	352.40	Stationery and printing	14.13
Feb. 10 Norway (1940)	183.07	Clerical assistance	114.90
Apr. 30 Roumania (to complete 1937, part 1938)	321.65	Transferred to dollar account (\$1500)	2833.73
Apr. 1 South Africa (1940)	184.55	Balance, Jan. 1, 1941	3619.36
Feb. 2 Sweden (1939)	367.58		
Apr. 1 Switzerland (1940)	183.78		
May 9 U.S.A. (1939)	1470.74		
Jan. 4 U.S.S.R. (1939)	1445.57		
May 1 Yugoslavia (1938)	551.49		
Interest	9637.91		
Sale, lunar maps	12.10		
Reprints, Schumann	9.26		
	8.25		
	<u>Fl. 10489.04</u>		<u>Fl. 10489.04</u>

INCOME AND EXPENDITURE, 1941

GUILDERS

INCOME	Fl. 3619.36	EXPENDITURE	Fl. 363.70
Balance, Jan. 1, 1941	...	Grants to Commissions:	...
Subscriptions:	...	<i>Commission 6:</i>	...
July 8 Netherlands (part 1941)	Fl. 185.00	Mar. 15 Prof. E. Strömngren (½, 1941)	...
Sept. 3 Netherlands (1940)	369.31	Dec. 2 Prof. E. Strömngren (½, 1942)	...
Sept. 29 Netherlands (to complete 1941)	185.00		184.55
Interest	739.31	<i>Commission 11:</i>	...
Sale, lunar maps	16.47	June 20 Prof. Esclangon (Cartes Syn., ½, 1941)	...
	8.60	Dec. 2 Prof. Esclangon (Cartes Syn., ½, 1942)	...
	<u>739.31</u>	<i>Commission 31:</i>	...
	16.47	June 20 Prof. Esclangon (Bureau de l'Heure, ½, 1941)	1476.36
	8.60	Dec. 2 Prof. Esclangon (Bureau de l'Heure, ½, 1942)	1107.27
	<u>16.47</u>	Bank expenses	9.64
	8.60	Clerical assistance	53.25
	<u>8.60</u>	Stationery	1.10
	<u>739.31</u>	Stamps, duty, etc.	5.30
	<u>16.47</u>	Balance, Jan. 1, 1942	213.70
	<u>8.60</u>		<u>Fl. 4383.74</u>
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INCOME AND EXPENDITURE, 1939

DOLLARS	
INCOME	EXPENDITURE
Apr. 28 Transferred from guilder account	
Sept. 23 Transferred from guilder account	
Interest	
...	\$5000-00
...	3000-00
...	19-71
	\$8019-71
	\$8019-71
	653-50
	6187-27
	\$8019-71
	\$8019-71

INCOME AND EXPENDITURE, 1940

DOLLARS	
INCOME	EXPENDITURE
Balance Jan. 1, 1940	
Apr. 25 Transferred from guilder account	
Interest	
...	\$6187-27
...	1500-00
...	39-35
	\$7726-62
	\$7726-62
	Commission 27, special grant: Dr Prager (<i>Gesch. u. Lit.</i>)
	Stamps
	Balance, Jan. 1, 1941
	\$653-50
	10-00
	7063-12
	\$7726-62
	\$7726-62

INCOME AND EXPENDITURE, 1941

DOLLARS	
INCOME	EXPENDITURE
Balance, Jan. 1, 1941	
Subscriptions:	
July 21 Mexico (part 1934)	
July 21 Sweden (1940, 1941)	
June 24 Switzerland (1941)	
...	\$7063-12
...	98-02
...	392-00
...	98-02
	588-04
Interest	14-75
	\$7665-91
	\$7665-91
	Cambridge University Press
	Balance, Jan. 1, 1942
	\$518-82
	7147-09
	\$7665-91
	\$7665-91

INCOME AND EXPENDITURE, 1942

DOLLARS	
INCOME	EXPENDITURE
Balance, Jan. 1, 1942	\$7147.09
Subscription: Aug. 14 U.S.A. (1940)	784.08
Interest	41.98
	<u>\$7973.15</u>
	<u>\$7973.15</u>

INCOME AND EXPENDITURE, 1943

DOLLARS	
INCOME	EXPENDITURE
Balance, Jan. 1, 1943	\$7973.15
Subscriptions: May 27 Argentine (1939, 1940)	588.16
Mar. 8 U.S.A. (1941)	784.08
Interest	1372.24
	27.20
	<u>\$9372.59</u>
	<u>\$9372.59</u>

INCOME AND EXPENDITURE, 1944

DOLLARS		EXPENDITURE
INCOME		
Balance, Jan. 1, 1944	\$9372.59	Balance, Jan. 1, 1945
Subscriptions:		
Mar. 4 U.S.A. (1942)	\$784.08	
July 11 U.S.A. (1943)	784.08	
Interest	1568.16	
	4.70	
	<u>\$10945.45</u>	<u>\$10945.45</u>

INCOME AND EXPENDITURE, 1945

DOLLARS		EXPENDITURE
INCOME		
Balance, Jan. 1, 1945	\$10945.45	Grants to Commissions:
Interest	25.12	Commission 6:
		Dec. 31 Prof. E. Strömgen
		Commission 19:
		Jan. 3 Prof. Carnera
		Balance, Jan. 1, 1946
	<u>\$10970.57</u>	693.72
		<u>10276.85</u>
		<u>\$10970.57</u>

INCOME AND EXPENDITURE, 1941
GOLD FRANCS

INCOME	Gold frs.	EXPENDITURE	Gold frs.
Subscriptions:		Grants:	
Denmark (1940) ...	300-0	Bureau des Télégrammes (¼ grant 1941) (Comm. 6) ...	300-0
Italy (1941) ...	2400-0	Immagini Spettroscopiche (¾ grant 1941) (Comm. 11) ...	900-0
France (to complete 1938 and 1939) ...	1689-2	Latitude Bureau (¾ grant 1941) (Comm. 19) ...	1500-0
France (1940) ...	2400-0	Bureau International de l'Heure (part 1941) (Comm. 31) ...	2974-0
Denmark (1941) ...	300-0	Cartes synoptiques (part 1941) (Comm. 11) ...	1115-2
	<u>Gold frs. 7089-2</u>	Bureau des Télégrammes (¼ grant 1941) (Comm. 6) ...	300-0
			<u>Gold frs. 7089-2</u>

INCOME AND EXPENDITURE, 1942
GOLD FRANCS

INCOME	Gold frs.	EXPENDITURE	Gold frs.
Subscriptions:		Grants:	
Italy (1942) ...	2400-0	Latitude Bureau (¾ grant 1942) (Comm. 19) ...	1500-0
Denmark (1942) ...	300-0	Immagini Spettroscopiche (¾ grant 1942) (Comm. 11) ...	900-0
France (1941) ...	2400-0	Bureau des Télégrammes (¼ grant 1942) (Comm. 6) ...	300-0
	<u>Gold frs. 5100-0</u>	Bureau International de l'Heure (part 1942) (Comm. 31) ...	1745-5
		Cartes synoptiques (part 1942) (Comm. 11) ...	654-5
			<u>Gold frs. 5100-0</u>

INCOME AND EXPENDITURE, 1943
GOLD FRANCS

INCOME	Gold frs.	EXPENDITURE	Gold frs.
Subscriptions:		Grants:	
Sweden (1942) ...	600	Bureau des Télégrammes (¼ grant 1942) (Comm. 6) ...	600
Denmark (1943) ...	300	Bureau des Télégrammes (¼ grant 1943) (Comm. 6) ...	300
Sweden (1943) ...	600	Bureau des Télégrammes (¼ grant 1943 and ¼ grant 1944) (Comm. 6) ...	600
Italy (1943) ...	2400	Latitude Bureau (¾ grant 1943) (Comm. 19) ...	1500
	<u>Gold frs. 3900</u>	Immagini Spettroscopiche (¾ grant 1943) (Comm. 11) ...	900
			<u>Gold frs. 3900</u>

INCOME AND EXPENDITURE, 1944

		GOLD FRANCS		
		INCOME	EXPENDITURE	Gold frs.
Subscriptions:				
Sweden (1944)	Grants:	
Denmark (1944)	Bureau des Télégrammes (1/3 grant 1944) (Comm. 6)	... 900
				...
				<u>Gold frs. 900</u>
				<u>Gold frs. 900</u>

INCOME AND EXPENDITURE, 1945

		GOLD FRANCS		
		INCOME	EXPENDITURE	Gold frs.
Subscriptions:				
Sweden (1945)	Grants:	
Denmark (1945)	Bureau des Télégrammes (1/3 grant 1945) (Comm. 6)	... 900
				...
				<u>Gold frs. 900</u>
				<u>Gold frs. 900</u>

INCOME AND EXPENDITURE, 1946

GOLD FRANCS	
INCOME	EXPENDITURE
Subscriptions:	Gold frs.
Italy (1943) ...	2400
France (1946) ...	2400
Sweden (1946) ...	600
Denmark (1946) ...	300
	Gold frs. 5700
	Grants:
	Latitude Bureau (§ grant 1943) (Comm. 19) ...
	Immagini Spettroscopiche (§ grant 1943) (Comm. 11) ...
	Bureau International de l'Heure (part 1946) (Comm. 31) ...
	Bureau des Télégrammes (§ grant 1946) (Comm. 6) ...
	Gold frs. 5700

INCOME AND EXPENDITURE, 1947

GOLD FRANCS	
INCOME	EXPENDITURE
Subscriptions:	Gold frs.
Italy (1944, 1945, 1946, part) ...	4050
Denmark (1947) ...	300
Norway (1947) ...	300
Sweden (1947) ...	600
France (1947) ...	2400
	Gold frs. 7650
	Grants:
	Latitude Bureau (Comm. 19) ...
	Immagini Spettroscopiche (grant allotted in Copenhagen) (Comm. 11) ...
	Bureau des Télégrammes (1947) (Comm. 6) ...
	Bureau International de l'Heure (part 1947) (Comm. 31) ...
	Gold frs. 7650

TOTAL EXPENDITURE AND INCOME, 1938-1947

The following table shows, roughly, the amounts expressed in gold francs, paid on the annual grants:

Comm.	6	11	11	19	20	23	27		31	38			
							Ephem.						
Year		Cartes syn.	Imm. Sp.				Ecl. stars	Name List			I.C.S.U.	Bureau	Total
1938	1,200	2,700	1,350	2,250	—	—	800	—	7,200	—	325	3,100	18,925
1939	2,100	2,700	1,350	2,250	—	3,900	800	—	7,200	—	300	8,900	29,500
1940	—	2,700	1,350	2,250	—	—	—	—	3,600	—	225	300	10,425
1941	1,500	2,700	900	1,500	—	—	—	—	7,150	—	—	2,700	16,450
1942	300	650	900	1,500	—	—	—	—	1,750	—	—	50	5,150
1943	2,100	—	900	1,500	—	—	—	—	—	—	—	25	4,525
1944	900	—	—	—	—	—	—	—	750	—	—	25	1,675
1945	2,250	—	—	750	—	—	—	—	—	—	—	150	3,150
1946	3,950	5,400	900	1,500	—	—	—	350	4,550	—	—	3,550	20,200
1947	1,200	2,700	1,800	2,250	3,050	5,600	—	1,600	2,400	2,450	525	1,200	24,775
Total...	15,500	19,550	9,450	15,750	3,050	9,500	1,600	1,950	34,600	2,450	1,375	20,000	134,775

Moreover, the following special grants have been paid:

1947, Commission 8, expedition of Leiden Observatory to Kenya	11,200 gold frs.
1938, Commission 12, Atlas of Solar Spectrum	1,400
1939, Commission 18, Longitudes mondiales	5,000
1939, Commission 19, Publication of Latitude Results	3,600
1938, Commission 20, Orbit of Eros	1,500
1939, Commission 27, Grant to Dr Prager for GuL	2,000
1940, Commission 27, Grant to Dr Prager for GuL	2,000
	26,700

The total expenditure is 161,475 gold francs.

The subscriptions received are given below:

1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	Total
32,900	22,500	17,150	10,100	8,100	8,700	5,700	2,100	53,650	34,650	195,550

Moreover, 1150 gold francs have been received by sale of publications, and 1500 gold francs as interest, whereas U.N.E.S.C.O. paid in 1947 grants-in-aid to a total amount of 36,000 gold francs.

The income hence equals 234,200 gold francs.

It should be remarked that the gold franc equivalents given above are only approximate. Besides, in several cases a country has paid somewhat less than the subscription actually due.

PUBLICATIONS

In addition to Vol. VI of the *Transactions* of the I.A.U. the following volumes have been published under the auspices of and with financial support from the Union:

Commission II. *Immagine Spettroscopiche del Borde Solare.* ABETTI.

Cartes synoptiques de la Chromosphere et Catalogue des Filaments de la Couche superieure.
D'AZAMBUJA.

Commission 19. *Results of the International Latitude Service from 1922.7 to 1935.0. (VIII.)*
KIMURA.

- Commission 23. *Astrographic Catalogue 1900.0. Hyderabad Section (Part III). Dec. +35° to +40°, vol. XI: Measures of Rectangular Co-ordinates and Diameters of 50,907 star-images on plates with centres in Dec. +37°.* BHASKARAN.
- Astrographic Catalogue 1900.0. Hyderabad Section (Part III). Dec. +35° to +40°, vol. XII: Measures of rectangular Co-ordinates and Diameters of 60,144 star-images on plates with centres in Dec. +36°.* BHASKARAN.
- Commission 27. *Minima of Eclipsing Variables, 1939, 1947.* BANACHIEWICZ.
42nd Name-list of Variable Stars. KUKARKIN, PARENAGO.
43rd Name-list of Variable Stars. KUKARKIN, PARENAGO.
- Commission 31. *Bulletins horaires du Bureau de l'Heure.* ESCLANGON, DANJON.

THE MEETING AT ZÜRICH

At the Stockholm meeting the Union was invited to hold its next General Assembly in Switzerland in 1941, an invitation which was very cordially received. Notwithstanding the difficult economic conditions the invitation was renewed after the war, and it was finally decided that the General Assembly would be held in Switzerland, from August 11–18, 1948. Prof. Waldmeier kindly offered to undertake the task of organizing the meeting in Zürich.

Draft Reports of the various commissions were asked for by January 1, 1948, and those received in time have been bound together and issued in advance of the meeting to all members who had notified their intention of being present.

The Agenda for the first meeting of the General Assembly was fixed as follows:

1. Official opening of the Congress.
2. Address by the President of the Union.
3. Appointment of Recorders for the Meeting.
4. Report of the Executive Committee.
5. Appointment of Finance Committee—one member to be nominated by each adhering country.
6. Appointment of Committee to advise the Executive Committee in the selection of members of standing commissions.
7. Resolutions submitted by National Committees of Astronomy:

(a) 'That Statute iv, 9 shall be replaced by the following:

'There shall be eight categories of membership of the Union, numbered 1 to 8. Each adhering country shall pay annually a number of units of subscription equal to the number of its category of membership. A country offering to adhere to the Union shall specify in which category it proposes to be classed. The offer to adhere may be refused by the Executive Committee if the proposed category is judged to be manifestly inadequate. In each country the organization adhering to the Union shall be responsible for the payment of the contribution.

'That Statutes III, 5 and 6 shall be replaced by the following:

'5. On scientific matters each delegate present shall have one vote. In questions of administrative, or of mixed administrative and scientific character, not involving questions of finance, voting shall be by countries, each country having one vote, with the provision that its subscription shall have been paid up to the end of the year preceding the voting. In questions involving finance, voting shall be by countries, with the same provision as for administrative questions. The number of votes for each country shall be one greater than the number of its category of membership, as defined in article iv, 9.

'6. No delegate shall represent more than two countries. An adhering country not represented by a delegate may forward by post its vote on any specific question of the agenda.' (Great Britain.)

(b) 'Que l'Union accorde un appui financier à la Bibliographie Mensuelle de l'Astronomie.' (France.)

(c) 'Que l'Union Astronomique Internationale entreprenne des démarches auprès de la Commission Economique Interalliée de Berlin, pour que les recherches soient continuées en vue de retrouver le télescope Zeiss de un mètre d'ouverture de l'Observatoire Royal de Belgique, réquisitionné par l'armée allemande en juin 1940.' (Belgique.)

(d) 'Que, au sein de l'Union Astronomique Internationale, une Commission d'Histoire de l'Astronomie soit créée.' (Belgique.)

(e) 'That the I.A.U. organize the broadcasting of astronomical scientific news.' (Poland.)

(f) 'That a Commission be created to revise the structure of the standing commissions of the Union, so that by 1951 plans may be proposed for a new and more effective organization of the standing commissions.' (U.S.A.)

8. The following resolutions, which had reached the General Secretary too late to be circulated in advance of the meeting, were added to the Agenda:

(g) 'That the first paragraph of By-Law 1, 1, which now reads:

'The Union shall be composed of three classes of members: (a) all the members of the National Committees of Astronomy of countries adhering to the Union, (b) members nominated by adhering organizations or by National Committees, and (c) all the members of the standing committees of the Union',

be changed as follows:

'The Union shall be composed of two classes of members: (a) all the members of the standing committees of the Union, and (b) members nominated by adhering organizations or by National Committees.' (Executive Committee.)

(h) 'The International Union of Radio-Science draws the attention of the I.A.U. to the importance of precise measures of the velocity of transmission of long waves, and requests the astronomical observatories to co-operate with the radio-technicians, in order to organize common experiments of the highest possible precision. In particular, it would be desirable to organize experiments on either side of the Atlantic, which would permit measuring differences between the times of transmission in the two directions.'

(i) 'Que l'Union se charge de donner une définition plus exacte de l'unité de temps.' (Bureau National, Scientifique et Permanent des Poids et Mesures, Paris.)

(j) 'Que l'U.A.I. considère de nouveau la résolution prise au congrès de 1928 sur la désignation du temps civil de Greenwich, donne à cette résolution une rédaction plus nette, et lui donne la publicité nécessaire pour la faire admettre universellement.' (Comité Exécutif.)

(k) 'That the I.A.U. recommend that an abstract in English or French be attached to all scientific astronomical publications.' (Executive Committee.)