# UNION ASTRONOMIQUE INTERNATIONALE INTERNATIONAL ASTRONOMICAL UNION

39th Meeting of the Executive Committee

Observatoire Tuesday, de Haute-Provence, 27 August 1 Thursday, Saint-Michel Observatoire, 29 August 1974 France

## PROCEEDINGS

lunch. The meeting was preceded, on M and followed, on Friday, 30 August, b Campus of the XVIth General Assembly. August Union was held in the Observatoire de Haute-Provence, The 1974. The sessions started at 09,00 and ended at 39th Meeting of the eded, on Monday, 26 August, by an Officers meeting, August, by an excursion to Grenoble to inspect the Executive Committee of the 17,00, with a International Astrono-28 and 29 break for

Present at the meeting of the Executive Committee were:

- L. Goldberg, President
- J.G. Bolton, Vice-President Ch. Fehrenbach, Vice-President W. Iwanowska, Vice-President B. Lovell, Vice-President E.R. Mustel, Vice-President
- B. Strömgren, former President
- G. Contopoulos, General Secretary
  Edith A. Müller, Assistant General Secretary
- A. Jappel, Executive Secretary
  J. Dankova, Administrative Assistant
- meeting. P.O. Lindblad, C. de Jager, former General Vice-President, was prevented by illness from attending Secretary, was excused.
- young French as Prévot, of the ation of the Ex IAU President French astronomers, Prof. J. Executive in the meeting of Thursday, astronomers, Dr C. Froeschle Observatory of Marseille, a Coulomb, Committee. President of ICSU, attended as , participated on invitation by the 29 August, from 9,45 to 11,00. Two of the Nice Observatory, and Dr Lattended as observers at the invitational of the control of the control of the Nice Observers at the invitational of the control of the contro from 9,45 to 11,00. Two

and distributed reference. overleaf in INTRODUCTORY NOTE: report. the Summary List of the Agenda. They will be kept in This report has the been genda. The documents related to the Age meeting, have not been included in the the archives of the Union for further prepared in the related order of the items the Agenda,

## INTERNATIONAL ASTRONOMICAL UNION UNION ASTRONOMIQUE INTERNATIONALE

39th Meeting of the Executive Committee

Observatoire de Haute-Provence, Saint-Michel Observatoire, France Tuesday, 27 August - Thursday, 29 August 1974

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The 39th Meeting of the Executive Committee of the International Astronomical Union was held in the Observatoire de Haute-Provence, on 27, 28 and 29 August 1974. The sessions started at 09,00 and ended at 17,00, with a break for lunch. The meeting was preceded, on Monday, 26 August, by an Officers meeting, and followed, on Friday, 30 August, by an excursion to Grenoble to inspect the Campus of the XVIth General Assembly.

Fresent at the meeting of the Executive Committee were:

- Goldberg, President
- J.G. Bolton, Vice-President Ch. Fehrenbach, Vice-President W. Iwanowska, Vice-President B. Lovell, Vice-President E.R. Mustel, Vice-President
- Strömgren, former President
- G. Contopoulos, General Secretary
  Edith A. Müller, Assistant General Secretary
- Jappel, Executive Secretary
  Dankova, Administrative Assistant

meeting. Lindblad, Vice-Presidents. C. de Jager, former Vice-President, was prevented by illness from attending Jager, former General Secretary, was excused.

Prof. J. Coulomb, President of ICSU, participated on invitation by the IAU President in the meeting of Thursday, 29 August, from 9,45 to 11,00. Two young French astronomers, Dr C. Froeschle of the Nice Observatory, and Dr L. Prévot, of the Observatory of Marseille, attended as observers at the invitation of the Executive Committee.

INTRODUCTORY NOTE: This report has been prepared in the order of the items overleaf in the Summary List of the Agenda. The documents related to the Agenda, and distributed before and during the meeting, have not been included in the present report. They will be kept in the archives of the Union for further reference.

#### A GENDA

### H OPENING BY THE PRESIDENT

## II. INTERNAL MATTERS OF ADMINISTRATIVE NATURE

- اسا Reports of the 37th and 38th meetings of the Executive Committee
- 2 Approval of the Agenda
- W Report of the General Secretary on the Administrative Office, Archives and the future Headquarters of the IAU
- 4 Questions regarding the Statutes and By-laws
- (a) J.-C. I Pecker's motion as regards elections into Special Nomi-
- (d) J.-C. Pecker's motion regarding discussion of preliminary budget by Adhering Organizations, and as regards elections into the Finance Sub-Committee
- (c) D.H. Sadler's motion to revise Resolution 1 of XVth General Assembly
- 5 Questions regarding Working Rules

Early announcement of Symposia and Regional Meetings

- Report of the President on progress in the SNC
- 7 0 Commissions
- (a) Final composition of Commissions Nos. 49 and 50
- (d) Programmes of Commissions Nos. 49 and 50
- (0) Task Groups of W.G. on Planetary System Nomenclature.
- (b) Young Astronomers' Schools
- (e) Commissions Rules
- (f) Commission membership
- 8 General Assemblies
- (a) State of preparation of the XVIth General Assembly
- (d) XVIIth General Assembly (Canada - U.S.A.)
- (0) Interval between General Assemblies
- (a) Remarks on General Assemblies
- 9. Finances
- (a) Report of the General Secretary on the present financial situation of the IAU. -Increase of the unit of contribution. -Individual membership fees
- Reduction of Canada's category of adherence
- (d) Costs of representation
- (a) Costs of Officers' meetings

### 10. Publications

- (a) Report of the Assistant General Secretary on IAU Symposium volumes and other IAU publications
- (4) Less expensive publications (Report of Commission No. 5; Offer of Impriméries Lausanne; Contract with Reidel's)
- (°) Free distribution of IAU publications

### III. SCIENTIFIC ACTIVITY

- 11. Scientific content of XVIth General Assembly
- (a) Invited Discourses
- (d) Joint Discussions
- (°) Commission meetings
- 12.
- IAU Symposia and Colloquia Report by the Assistant General Secretary
- 13. Regional astronomical meetings under the auspices of the IAU Report by the Assistant General Secretary
- Other scientific meetings
  Report by the Assistant General Secretary

14.

## IV. RELATIONS WITH OTHER ORGANIZATIONS

- 15. ICSU and IAB Report by the General Secretary
- 16. FAGS, SBARMO, Astronautical Federation and other organizations Report by the General Secretary
- 17. Problem of IUCM and Inter-Union Commission on Planetary Studies Report by the General Secretary
- 18. People's Republic of China
- 19. Grants for XVI th General Assembly

### ₽. OTHER BUSINESS

- 20. (a) Symbol of the IAU
- (d) Proposal for an International Solar System Decade
- (c) Any other matter
- Next meeting of the Executive Committee

### VI. CLOSING BY THE PRESIDENT

# OPENING BY THE PRESIDENT

4

The President opened the meeting on 27 August at 9,00 with a word of thanks to Prof. Fehrenbach for his invitation of the Executive Committee to Haute-Provence. He welcomed the participants and said that he was glad to see among them two young astronomers, MM. C. Froeschle of the Nice Observatory and L. Prévot of the Marseille Observatory, invited to attend as observers. The President regretted the absence, due to illness, of P.O. Lindblad and of C. de Jager, who was prevented from attending the meeting by the launching of the first Netherlands' satellite.

He conveyed to the members of the Executive Committee the best wishes th a word of Committee to

Dr Ch. Fehrenbach announced details concerning accommodation, meals and the excursion to Grenoble. He invited the members of the Executive Committee, their wives and the Staff to a dinner on Wednesday, 28 August, which also would be attended by Mr and Mrs Coulomb, and by the deputy of Forcalquier and his wife.

# INTERNAL MATTERS OF ADMINISTRATIVE NATURE

# of the 37th and 38th meetings of the Executive Committee

The Proceedings of the 37th and 38th meetings of the Executive Committee been distributed and commented upon. The comments had been incorporated in Reports. In this form, the Proceedings were approved by the present meeting.

# Approval of the Agenda

The Agenda, as prepared by the General Secretary and circulated before to meeting, was approved with the following additions: 8.(d) Remarks on General Assemblies; 20.(b) Proposal for an International Solar System Decade; 20.(c) other matter. the

## Report on the Administrative Office

A. Jappel said that the facilities of the Administrative Office in Thessaloniki are satisfactory, especially thanks to the financial support the Secretariat receives from the Greek Ministry of Culture and the University of Thessaloniki. The recent events in Greece had not influenced the activity of the Office. The archives continue to be kept in Belgium and in Czechoslovakia. The transfer of the IAU files for 1970-1973 from Utrecht to Thessaloniki was arranged, free of charge for the Union, by the former General Secretary: they were moved by a special car of the Space Research Laboratory, so that the work of the Office could be continued without interruption.

The IAU files 1967-1970 were moved, free of charge for the Union, to the archives at the Ondrejov Observatory, by the Staff.

The question of a permanent seat in Paris is still open. It was resolved that the General Secretary should take up this matter in due time. Secretariat ro Thessaloniki. arranged,

archives at The q It was resolved

# regarding the Statutes and By-laws

(a) Prof. J.-C. Pecker suggested that ancient members of the Executive Committee should not become members of the Special Nominating Committee. B. Strömgren remarked that this suggestion may only concern the 4 members of the Special Nominating Committee.

Nominating Committee elected by the Nominating Committee.

After a lengthy discussion, B. Strömgren, seconded by Ch. Fehrenbach, advised that the Statutes should be changed to the effect that former members of the Executive Committee.

Other members of the Executive Committee suggested that a recommendation to the that effect should be changed to the suggested that a recommendation of the Fehrenbach and the feat and the members of the Executive Committee suggested that a recommendation that a feat the feat and the feat the feat and the feat the feat the feat and the feat the fe

to that effect should be made, but no change in the Statutes.

The Executive Committee eventually voted in favour of changing the Statutes as suggested by B. Strömgren, and instructed the Officers to prepare the text of the necessary motion for the next meeting of the Executive Committee.

Presidents of Commissions will be advised of the proposed change of Statuthe Statutes the text of

(b) On the suggestion of Prof. Pecker it budget of the Union should be circulated 4 to National Committees for discussion. was agreed that months prior to the preliminary the General Assembly

Assembly had been voted in. This resolution concerns the voting right of Adhering Organizations not having paid their contributions to the Union in due time. Dr Sadler considers this resolution invalid, as it had not been on the Agenda of the General Assembly and as it had not been put by the General Assembly on the Agenda prior to voting on it. He suggests to ignore this resolution as non-existent. The Executive Committee agreed with the opinion of Dr Sadler and resolved to consider Resolution No. 1 of the XVth General Assembly as invalid. This will have no practical consequences.

In this connection it was agreed that Presidents of Commissions should recommend to the General Secretary which Commission resolutions should be published in the Information Bulletin. B. Lovell and J.G. Bolton will send the XVth General Assembly, which are to be published in the next Information Bulletin.

# Questions regarding Working Rules

Meetings should be announced well in advance in the Information Bulletin. In the discussion it was noted that this procedure would be desirable; however, practical considerations sometimes make it impossible. National Committees and Presidents of Commissions will be invited to make their proposals for future meetings 2 years in advance. A similar note will be published in the Information Bulletin. G. Contopoulos summarized the discussion by saying that there would be no change in the Working Rules, that, however, every effort would be made to respect the suggestions made by Perek and Broesche in practice. Exceptional cases would have to be decided by the Executive Committee.

### 6 Report Progress in the SNC

Committee had been for the time being. The President briefly informed tee had been busy, but that no the meeting that the definite suggestions Special Nominating could be reported

### Commissions

(a) composition of Commissions 49 and 50.

The Executive Committee approved the composition of Commission No. 49,

"The Interplanetary Plasma and the Heliosphere", as follows:

Acting President: W.I. Axford, Vice-President: A. Hewish. Organizing Committee:

J.E. Blamont, A.Z. Dolginov, J. Geiss, A. Hundhausen. General members: Ansari

S.M.R., Blackwell D.E., Brandt J.C., Burgeois P.E., de Jager C., Dennison P.A.,

Durney B., Dyson J.E., Ingham M.F., Jokipii J.R., Lust , Kakinuma C., Kaplan

S.A., Lotova N.A. (Mrs), MacQueen R., Mestel L., Newkirk G.A., Pikel'ner S.B.,

Pflug K., Pneuman G., Parker , Reay N.K., Ring J., Roach F.E., Roberts J.A.,

Roxburgh I.W., Rumsey N.J., Schmidt , Severny A.B., Smerd S.F., Sonett C.P.,

Sturrock P.A., Surovatskij S.I., Svestka Z., Tanaka , Tinsley B.M. (Mrs),

Wallis M.K., Wilcox J.M., Wild J.P.

The following persons could not be approved, as they are not IAU Members:

Coles, Cronyn, Hirshberg, Houminer, Rickett, Shawhan. Prof. Axford will be

informed that they can be-opted as Consultants.

Observatory Sites" was approved as follows:
President: M.F. Walker, Vice-President: R. Cayrel. Organizing Committee:
C.A. Anguita, F. Bertola, A. Blaauw, H.A. Bruck, D.L. Crawford, H. Elsässer,
S.C.B. Gascoigne, S. van den Bergh. General members: Ardeberg A., Bhattacharyya
J.C., Boyarchuk A.A., Dommanget J., Haupt H., Kubicela A., Markkanen T., Mavridis
L.N., Mendoza E., Osawa K., Treanor P., S.J., Wayman P.A., Woolley Sir R.,
Woszczyk A. Consultant: McInnes B. composition of Commission 50, "Pry Sites" was approved as follows M.F. Walker, Vice-President: R "Protection of Existing and Potential

(4) Programmes of Commissions 49 and 50

for Commission: I. Axford, President of Commission 49, proposed the following programme

his Chromos phere The region where the Solar Wind joins the Interface) Sun (Solar Corona

95400 95400

Zodiacal light
Radio observations (interplanetary scintillations, Solar noise)
Heliosphere. Interaction with the interstellar medium
Theory (including Stellar Winds in general)
Direct observations of the Solar Wind as far as they pertained to the above and to questions of an astronomical nature (e.g. the composition the Sun, mass loss, etc.

This programme was approved with the remarks (a) that the solar general is of interest to astronomers and (b) that Commissions 21 and be contacted for collaboration as regards items 3 and 4 respectively. solar wind in and 40 should

M.F. Walker, President of Commission 50, submitted for approval a large-scale site testing programme to be carried out by the IAU which would cost about \$750.000 U.S. The Executive Committee considered this proposal and decided that the IAU is not the proper organism for doing site testing itself. Each country has to solve its problem. Furthermore, the IAU will have to be careful not to make recommendations that are known to be impossible. Therefore, Commission 50 should concentrate its efforts:

1) on finding out what measures are being taken in the individual Member Countries as regards protection of existing and potential observatory

on ascertaining what the IAU can do in this respect on investigating in which other way Commission 50 can be of assistance. This would mean that the Commission were to establish a list of sites to be protected and then to work out a programme of how to protect them

As regards lighting, Commission 50 is to proceed on its own and clarify the situation in individual countries.

It was recommended to publish the policies detailed in the Tucson Ordinance in the Information Bulletin.

Working Group on Planetary System Nomenclature and its Task Groups.

The Executive Committee approved the composition of the Nomenclature and of its Task Groups as follows: W.G. for Planetary

P.M. Millman (President), C.H. Mayer (Comm. 16), S.K. Runcorn (Comm. 17), A. Dollfus (IUCM), B.Yu. Levin (USSR Academy of Sciences), D.H. Menzel (Task Group Lunar Nomenclature), D.D. Morrison (T.G. Mercury Nomenclature), G.H. Petterngill (T.G. Venus Nomenclature), B.A. Smith (T.G. Mars Nomenclature), T.C. Owen (T.G. Outer Solar System Nomenclature).

Task Groups:

Lunar Nomenclature: D.H. D.H. Menzel (Chairman), A. Dollfus, F. renskij, H. Masursky, S.K. Runcorn El-Baz, K. P.

Mercury Nomenclature: D.D. D.D. Morrison (Chairman), C.R. Chapman, Dollfus, O.J. Gingerich, R.M. Goldstein, Kuz'min, B.A. Smith M.E. Davies, A. D. Guest, A.D.

Nomenclature: G.H. M. Ya. Pettengill
. Marov, H. Masursky (Chairman), R.M. Goldstein, A.D.

Nomencla ture: B.A. Smith (Chairman), A. Dollfus, H. Masursky, S. Miyamoto, C. Sagan I.K. Koval', M. Ya. Marov,

Outer Solar System Nomenclature: T.C. Owen (Chairman), K. Aksnes, N.S. M.E. Davies, D. Gautier, B.A. Smith, Tejfel'. ٧. Bobrov

It was agreed that additional names or changes in the composition of the Task Groups would henceforward be proposed by the Chairmen of the Task Group in question and approved by the Working Group. However, the Executive has to informed. Changes in the composition of the Working Group itself are to be approved by the Executive Committee. be

The General Secretary reported that 1974. S.K. Runcorn had not attended. The meeting adopted to ten resol resolutions:

Basic Principles for Planetary
Latin Terms for Different Type
System Nomenclature
Possible Name Categories for u
Schedules for Map Production
Advance Notice of Meetings
Procedure in Task Groups
Lunar Mapping
Nomenclature for Mercury
Nomenclature for Mars Principles for Planetary System Nomenclati Terms for Different Types of Features, to Nomencla ture be used in Planetary

use in Planetary System Nomenclature

VIII.

These resolutions were endorsed. The Executive Committee expressed its appreciation for the work done by the Working Group and especially its President, Dr Millman. Resolution IV. will be brought to the attention of NASA.

## (b) Young Astronomers ! Schools.

The General Secretary reported that the Young Astronomers School held at St. Miguel, Argentina, from 13 May to 7 June 1974 was attended by 60 participants (39 from Argentina, 9 from Brazil, 7 from Chile, 2 from Peru, and 1 each from Bolivia, Paraguay and Venezuela). The School was very successful. The next Young Astronomers School will be held late in 1975 or early in 1976. The country in which it is to be organized will be decided by J. Kleczek, Secretary of the School. There are still \$ 8.000 available to this purpose.

### (e) Commission Rules

Membership. It was emphasized that Commissions should prepare rules governing their business, especially as regards the election of Presidents, Vice-Presidents and members of the Organizing Committees, and setting up criteria for Commission

### (f) Commission Membership.

ants to Executive Committee approved the following Commissions co-option of new members and consult-

- No. 9 A.B. Meinel): B.L. Kl ock - new member
- 10 (Fresident D. McLean, M. Stix Kiepenheuer): new members R. C. Altrock, G.A. Dulk, M. McCabe (Miss),
- No. 12 (President R.G. Giovanelli): R.C. Altrock new member
- 15 D. L. new Cruishank, (President members Schmidt, A. Ishank, H. U. Burlaga, C.R. Chapman, W.K. Hartmann, Matson, B.J. Zellner - new consultants A.H. .H. Delsemme): L. Kresak, E.L. Krinov, R.E. McCroskey, A.N. Simonenko, J.A. Wood, A.A. Yavnel, J.A. Burns, D.P. U. Keller, D.D. Morrison, L.M. Shul'man, J.F. Veverka -T.V. Johnson, C.P. Lillie
- No. 20 (president L. Kresak): P.B. Bab A.T. Sinclair, S.K. Vsekhsvyatski P.B. Babadranov, A.H. hsvyatski - new members Delsemme, Lieske
- (President . H Lacroute): ₩. Elsmore, B.L. Klock new members
- No. 25 (President M. Golay): T. Gehrels - new member
- No. (President H. Enslin): L.V. Morrison new member

## General Assemblies

### (a) State of preparation of the XVIth General Assembly.

The Executive Committee agreed, on the proposal of the French Local Organizing Committee presented by Ch. Fehrenbach, that the XVIth General Assembly in Grenoble would be held from 17 to 26 August 1976. The members of the Executive Committee, namely: Goldberg, Contopoulos, Müller, Bolton, Fehrenbach,

Iwanowska, Mustel, visited the campus in Grenoble and found the facilities satisfactory. The General Secretary discussed certain arrangements with M. A. Boischot, member of the Local Organizing Committee.

# XVIIth General Assembly.

The General Secretary reported that he had received a formal invitation to hold the XVIIth General Assembly in Montreal, 1979. The Executive Committee accepted this invitation unanimously and asked the General Secretary to convey the Union's thanks to the Canadian authorities.

The General Secretary visited the University in Montreal and found it very good. Unsatisfactory are only the prices of hotels. The Canadian hosts, however, will do their utmost to find less expensive hotels and students'

# Interval between General Assemblies

A lengthy discussion showed that there was no clear consensus in the Executive Committee as regards the extension of the interval between General Assemblies from 3 to 4 years. It was therefore resolved to postpone this question to the next meeting of the Executive Committee. In the meantime the problem should be brought to the attention of National Committees of Astronomy whose views should then be taken into consideration.

# on General Assemblies

clear knowledg that it would distributed to J.G. Bolton reported that some Members, especially younger ones, had clear knowledge of the purpose of a General Assembly. He was of the opinion that it would be useful to prepare a document on this subject, either to be distributed to the Members, or to be included in the Presidential address. Inadequate is also information on Commission meetings. In the future, effortshould be made to improve the situation. the opinion either to be had no

### (a) Financial situation

A. Jappel reviewed the accounts of the Union as on 31 December 1973 and said that the total assets of \$ 138.758,66 U.S. compared well with the assets of \$ 137.793,66 U.S. as on 31 December 1972. He emphasized, however, that the effect of the devaluation of the U.S. dollar should be taken into consideration.

The interim balance sheet prepared for 30 June 1974 shows receipts in the amount of \$ 77.295,76 U.S., as compared with payments of \$ 63.324,29 U.S., which

satisfactory.

IAU also suffers fr statistics show an : for 8 countries wit: Just as ICSU, URSI, and the other International Scientific Unions, teso suffers from the effects of continuous inflation. Dutch and Swiss tics show an increase of 10,31% in consumer prices from 1973 to Apricountries with major IAU activity. April 1974 the

ICSU sees the following possible solutions:

- reduction of activity
- 30% by 10%
- structure of dues tied increase of contribution by 20 - annual increase of contribution structure of dues tied to the co the consumer price index for France

Assembly that the IAU should recommend alternative 1) to Istanbul.

As to the IAU, it was resolved to defer the problem to the nex of the Executive Committee. After that meeting, National Committees approached for their opinion.

The President stressed that the IAU would have to contribute inflation by reducing the level of its activity.

W. Iwanowska warned that Poland might consider its withdrawal Union should the contribution be increased.

E.R. Mustel said that the increase of contribution is a problem. Committees would be

# Individual membership fees.

An inquiry into the practicability of introducing rand year to be collected by National Committees in favour, some opposing the measure.

The President said that another round is clearly introducing Committees brought 0 \$ 10 20 U.S. responses,

indicated, ur be which the

National Committees opposing the individual membership fees would substantiate their attitude.

B. Lovell was asked by the President to prepare a memorandum subject to be used by the General Secretary in his circular letter National Committees.

# Reduction of Canada's category of adherence

gory of adherence from VII to VI.

In this connection it was noted that France had not paid fully its contribution to the IAU for 1973 and is not prepared to pay the balance of Swiss france of General Assembly. Ch. Fehrenbach will investigate the matter and discuss it with P. Grivet, General Secretary of COFUSI (Comité Français des Unions Scientifiques Internationales). Copies of all correspondence concerning this case will be sent to Ch. Fehrenbach. francs

# d) Costs of Representation and of Officers' Meetings.

ma ted The cost \$ 6.000 U.S. f the IAU in 19 in addition to International Organizations the \$ 1.650 as foreseen in the P.S. budget.

In order to reduce the expenses of the IAU, the President suggested only to hold two Officers' Meetings per year, one of which would always be in conjunction with the President's attendance at another meeting in Europe. Even so, the costs of Officers' Meetings will exceed by \$ 2.000 U.S. the amount of \$ 9.900 as in the budget.

\$ 8.000 of the I The Executive Committee authorized the General Secretary to reserve O for these two purposes and to finance them from item 17. under Pa Budget 1973-1976 (unused \$ 10.000 for the XVth General Assembly). Paymen ts

### 10. Publica tions

TAU Symposia held in Australia and the end of 1974.

Transactions XV B and Highlights of Astronomy, 1973 had already appeared. The Assistant General Secretary Symposia held in Australia and reported o on the state
1973. All v volumes the publication nes would be out

## (d) Less expensive publications.

There were 3 documents before the Executive Committee in this respect: 1) report by Commission 5 (J.-C. Pecker) on the IAU Publication Policy, accompanied by proposals of D.A. Kemp and G.A. Wilkins, 2) an offer by Imprimérie Lausanne, 3) an offer by Radio-televisia Beograd.

- recommends Prof. Pecker having analyzed the following possible the situation with members actions: of his Commission
- a ) to negotiate with Reidel for a reduction of the prices of IAU publications which would be possible due to technical efforts, and for low prices to Young Astronomers
  to try at the same time to organize an ICSU Publishing Company IAU lower

- 000 prices
  to try
  to publ
  to exps to try at the same time to organize an ICSU Publishing to publish only a report on the meetings to expand the Information Bulletin to include abstracts of the Symposia, and put it on sale to organize "papers" series, preferably with running numbers to organize "papers" series. of the papers
- paper number for each
- 2) The offer of Imprimérie Lausanne would make it possible sium volume by offset technique, distribution included, for of 600 pages each). **€₽** to produce a 22,83. (1000 Sympo-

duced by offset would cost \$ 3,--, packing and postage not included.

The President recommeded that the Beograd proposal should be investigated more closely. If accepted, it would be necessary to find a chief editor and l or 2 typists, and to nominate for each Symposium an editor capable of providing a camera-ready manuscript. He believes that there are many astronomers who would be willing to act as chief editors for the sake of astronomy and who would be satisfied with a small honorarium sum of about \$2.000 to 3.000 a year. The head-quarters of the chief editor would be at his home observatory which would contribute a fraction of his working time. Tucson would be a possibility.

J.G. Bolton mentioned that facilities might also be available in Australia. The General Secretary emphasized that the whole business of publishing Transactions and Symposia (advertizing, contact with the printer, invoicing and book-keeping included) would have to be conducted by the office of the chief editor.

The Assistant General Secretary remarked that if the Beograd offer failed, other printers could be found.

Also discussed were the deadlines for submitting the manuscripts, the criteria for Symposium editorship, and the necessity of retyping some papers by the Office of the chief editor. The first priority is to find a chief editor. The names of Owen Gingerich and Allan Maxwell were mentioned, and the President promised that he would sound them out on the telephone. All Executive Committee members were invited to find and suggest names for chief editors.

It was eventually agreed that the Officers should work out a detailed plan with an overall budget for the next meeting of the Executive Committee. They also should explore the possibility of other printing houses.

## (c) Free Distribution of IAU Publications

receive 9 respon Out of 23 institutions in Developing Countries asked whether they wish to eceive IAU publications at one third of the normal selling price, the following responded in the affirmative:

Observatorio Astronomico, Cordoba, Argentina Instituto Argentino de Radioastronomia, Casilla de Correo 5, Villa Elisa Pcia. de Bs. As. Argentina Observatorio Nacional, rua General Bruce, 586 - ZC - 08, 20 000 Rio de Juanabera, Brazil 20 000 Rio de Janeiro, Caixa Postal

Guanabera, Brazii
Instituto Astronomico e Geofisico, Universitionomico e Geofisico e Ge 3, 624103, Ind d Universitaria Mexico

20, Mexico Helwan Observatory, Helwan near Cairo, Arab Republic of Boograd, Beograd, Faculty of Sciences, Department of Astronomy, University of Boograd, Beograd, Yugoslavia

The Executive Committee approved that the above mentioned institutions should receive IAU Publications for the reduced price. They will be informed of the decision, the remaining 14 institutions will be informed on the project. the disconti

### III. SCIENTIFIC ACTIVITY

# Scientific Content of the XVIth General Assembly

- agreed that three Invited Discourses would aker. The following topics were suggested:
- J.-C. Pecker: Infrared Astronomy P. Morrison: Astronomy and Laws I.S. Shklovsky: X-Ray Sources. of Physics

President will contact Shklovsky of the USSR Academy of Sciences. and inform V.A. Kotelnikov, the Vice

- (4) following topics for Joint Discussions were preliminarily accepted:

- 30H The Abundance of the Elements Cosmic Rays Space Missions to the Moon an to the Moon and Planets (to deal with results).

Joint Discussions was deferred

to

the

next meeting of final decision as regards the ing of the Executive Committee.

(c) It was agreed that no time for Commission Meetings unless Presidents of Commissions set up a detailed programmes to al. etings would be allocated programme. Presidents of to all Commission members

## 12. IAU Symposia and Colloquia

The Assistant General Secretary reported on her activity in the field of scientific meetings, and proposed Symposia and Colloquia in the years to come. The previously accepted Symposia and Colloquia for 1974/1975 are as follows:

### SYMPOSIA:

- No. - Variables in relation to the
  - Solar X-, Gamma, and EUV-Radi
  - Dynamics of Stellar Systems
  - Be and Shell Stars
  - Basic Mechanisms of Solar Acn to the Evolu EUV-Radiation **Evolution** of Stars and Stellar Systems
- No.
- No. of Solar Activi

### COLLOQUIA:

- 25 Study of Comets
  26 Reference Coordinate Systems for Earth Dynamics
  27 UV and X-Ray Spectroscopy of Astrophysical and
  28 Planetary Satellites
  29 Multiple Periodic Variable Stars
  - Labora tory Plasmas
- No. No.

## The co-sponsored meetings held in 1974 were:

-COSPAR, IAU, IUTAM Symposium on Satellite Dynamics: Orbits and Attitude.
-SCOSTEP, COSPAR, IAU, IAGA, URSI Symposium on Solar Terrestrial Physics
-Second Cagliari Meeting on Time Determination, Dissemination, and Synchronization

distributed during Details and reports on the above meetings were presented on documents buted during the meeting.

The following Symposia and Colloquia were accepted for 1975/1976:

### SYMPOSIA:

- 72 Abundance Effects in Classification, Lausanne, 3-7 March 1975 date
  be reconsidered
  73 Structure and Evolution of Close Binary Systems, Cambridge, U.K., lat
  July 1975
  74 Radio Astronomy and Cosmology, Cambridge, U.K., end of July 1976
  75 Star Formation, Geneva, September 1976 (after the General Assembly) to
- No. late

### COLLOQUIA:

- No. 30
- topic "Searches
- No. 31 Jupiter, Tucson, 19-21 May 1975
  Sponsored by Commissions 16 and 40
  The proposed Scientific Programme not to include the topic "Searc for Jupiter-size planets of other solar-type stars"
  Interplanetary Dust and Zodiacal Light, Heidelberg, 1-4 July (or July) 1975 8-11
- No.
- 32
- No. 33 Co-sponsored by Commissions 15, 21, 22, possibly 49, and COSPAR Physics of A - Stars, Wien, 8-10 September 1975
  Co-sponsored by Commissions 29 and 35
  Chairman: V.L. Khokhlova (USSR) instead of A.A. Boyarchuk Observational Parameters and Dynamical Evolution of Multiple Stamexico-City, middle October 1975
  Sponsored by Commission 26 Stars

- No. 34 Mercury, Contact Pasadena, USA, June 1975.
- No. 35 Contact person: B. Murray
  The Compilation, Critical Evaluation and Distribution of Ste (title to be reconsidered), Strasbourg, August 1976 (before Assembly)
  Sponsored by Commission 5
  Chairman: P. Lacroute
  B. Hauck (Switzerland) added to the Organizing Committee
  Energy Balance and Hydrodynamics of the Chromosphere and CorSeptember 1976 (after the General Assembly)
  Co-sponsored by Commissions 10 and 12 of Stellar General Da ta

Corona, Nice,

- Details concerning the Scientific and Local Organizing Committees, Scient fic Programme, Editors, Publication, and financial assistance were presented in documents distributed during the meeting. A few proposals for Symposia and Colloquia were either rejected or postponed to the next meeting of the Executive Committee. The record of them is kept by the Assistant General Secretary. It was agreed that the IAU would co-sponsor the following meetings: Scienti
- "The Origins, 1, 1675 1975",
- The fourth IUHPS/IAU Symposium on the History of Astronomy: "Achievements and Influence of the Royal Greenwich Observatory, to be held at Herstmonceux, summer 1975
  IAU representative: J. Meadows
  IAU contribution: \$1.000
- COSPAR/IAU Symposium: 1975 representative: K.A. "Fast Transients Pounds ni × and Gamma-Rays",

Varna,

### 13. Regional Meetings

Meeting under September 1974 from an Observ More The Assistant General Secretary reported that the 2nd European Astronomical under the auspices of the IAU would be held in Trieste from 2 to 5 ember 1974, and the 3rd European Astronomical Meeting on "Stars and Galaxian Observational Point of View" in Tbilisi, USSR, from 1 to 5 July 1975. details can be found in Information Bulletin No. 32. The possibility of an Asian Regional Meeting was suggested by Prof. A. evich. Another Regional Meeting was considered for New Zealand, and Prof. astein had suggested an Inter-American Regional Meeting. These suggestions Astronomical Galaxies

Massevich.

Greenstein had suggested an Inter-American Regional Meetings to be explored.

The Assistant General Secretary will draft a letter to National Committees asking for proposals of Regional Meetings to be held in 1977, so that the Executive Committee may consider them in 1975.

### 14. Other Scientific Meetings

the XXV th September

It was decided that C. de Jager should represent the IAU at the XXV International Astronautical Congress to be held in Amsterdam from 30 Sept to 5 October 1974.

E.A. Müller was appointed the IAU representative in the UNESCO 18 G Conference, Paris, 15-16 November 1974, and the IAU observer at the World rological Congress, to be held in Geneva, end April - beginning May 1975. UNESCO 18 General World Meteo-

### IV. RELATIONS WITH OTHER ORGANIZATIONS

#### 15. ICSU

The General Secretary reported that the XVth General Assembly of ICSU would be held in Ankara and Istanbul, from 18 to 27 September 1974, and that he would represent the IAU there. The meeting will, among others, elect the new ICSU Officers for which there are the following candidates: President: Prof. H. Brown (USA), Vice-President: Prof. F.B. Straub (Hungary), Secretary General: Sir John Kendrew (U.K.), Treasurer: Prof. D.A. Bekoe (Ghana).

General Assembly in Ankara and Istanbul, had applied, on 20 July, for a Turkish visa at the Turkish Embassy in Washington. He received no reply, nor was the visa issued until his departure from Washington on August 24 for the meeting of the Executive Committee. The President brought this fact to the attention of Prof. Coulomb, President of ICSU, by his letter of 29 August, in which he emphasized that if the meeting in Turkey took place without the presence of Dr Contopoulos, the IAU would not be bound by any decision reached by ICSU there.

Members of the Executive Committee cabled to their National Committees to propose the cancellation of the ICSU meeting or change its venue for the case that Dr Contopoulos is not given the visa.

# (ICSU Abstracting Board)

by J.-C. The e full board meeting was held in Berlin, Pecker as IAU representative. 8-12 July 1974. It was attended

# 16. FAGS (Federation of Astronomical and Geophysical Services)

As from 1975 on, Prof. G.A. Wilkins will be the General Secretary of this organization, and will cease to be the IAU representative. The Executive Committee appointed Dr B. Guinot as its new representative (alternate Dr H. Enslin). G. Contopoulos was released from this function, on his own request. Prof. Wilkins' reports on FAGS and CODATA were acknowledged.

Seconde) was held at Sèvres, France, from 9 to 11 July 1974. Prof. W.M. Marl witz, who attended the meeting as IAU representative, sent in a report. In connection it should be noted that Prof. Wilkins who had attended the joint meeting of Commissions 4 and 31 in Sydney and participated in drafting its resolution on ET and TAI, recently criticized this resolution. The General. Secretary will clarify the matter by correspondence. Marko-In this

## IUCM and IUCMP

The General Secretary reviewed the situation and said that the IAU, IUGC, and URSI had agreed to propose to ICSU the dissolution of IUCM (Inter-Union Commission for the Moon) and the creation of a new Inter-Union Commission for the Moon and Planets - IUCMP. This proposal is still to be discussed with COSPAR, which, for the time being, prefers a loose liaison group of Union representatives to a formal Inter-Union Commission. The General Secretary read the proposal made to ICSU and a tentative constitution of IUCMP. It was agreed that if IUCMP comes into existence, the Union would be represented by P.M. Millman (E. Anders as alternate). A. Dollfus was suggested as Secretary.

### 18. People's Republic of China

The President gave a brief account of the developments since the meeting of the Executive Committee in Sydney. He said that the visit of the ICSU Officers to China had not been productive and that that of H. Brown to Taiwan only congent effort to bring the People's Republic of China back to the Union. He put forward the proposal that Taiwan should be considered as "part" or "province of China". Prof. J. Coulomb, President of ICSU, who attended the discussion on China, emphasized that the People's Republic of China does not intend to deal with separate Unions or Commissions. In his view it is impossible to expell the new ICSU President would have to act accordingly. It would not be embarrassing if the IAU called Taiwan a "part of China". The IAU representative may propose to the ICSU General Assembly the adoption of a similar resolution.

The President thanked Prof. Coulomb for his valuable information and resumed the discussion which resulted in the following draft resolution to be submitted to the ICSU General Assembly by G. Contopoulos:

submitted

scientists Executive C Committee People's of the IAU Republic considering t the important contribution ae promotion of science,

recognizing therefore ting a Member Country of China is reluctant to considering the fact the ognizing therefore the desirability of the People's Republic of China becom-a Member Country of ICSU, realizing, however, that the People's Republic of na is reluctant to join ICSU while Taiwan continues to be a Member, and sidering the fact that the People's Republic of China is, so far and de facto, in a position effectively to represent scientists working in Taiwan of the

ts, and, as an example, urges ICSU to explore every possible means for bringing China into ICSU without denying representation to the People's Taiwanese sc scien.

suggests that Taiwan be, for the purposes of ICSU, henceforward listed part of China, and that this be expressed in all official documents of by having the designation "Taiwan" followed by the words "(part of China China)".

and 田 is draft resolution was Mustel abstained from draft Was the voting. the Executive Committee. W. Iwanowska

### 19. Grants for XVIth General Assembly

Brighton towards t It was agreed that approximately the same amount as in the case of the con General Assembly would be set aside for grants to young astronomers is their participation in the XVIth General Assembly.

## OTHER BUSINESS

### 20. Symbol of the IAU.

symbol J.-C. I The General Secretary emphasized that it would be desirable to have a bol of the IAU for use on its official stamp. It was recommended to ask C. Pecker for suggestions. The matter will be rediscussed at the next meet-of the Executive Committee.

### (d) Proposal for an International Solar System Decade.

The General Secretary summarized W.H. Pickering's memorandum of 28 June 1974 in which he proposes to launch an International Solar System Decade. This proposal, seconded by S.K. Runcorn, had also been sent to COSPAR, who set up an ad noc Committee for its further study. This Committee is made up of W.H. Pickering, G. Newkirk, L. Kresak, A. Dollfus, A. Kliore, A.D. Kuz'min, T. Obayashi, and M.J. Rycroft. The project is to advance international cooperation in the planning of space experiments and missions, stimulate ground-based optical and radio observations, especially during missions, develop interest in solar system astronomy and widen the range of scientists and disciplines in the interpretation of results. J.G. Bolton was of the opinion that similar work should be initiated by a definite programme, that however Pickering's memorandum does not propose specific scientific action, as it only shows what could be done. E.R. Mustel also felt that the document is vague, that much preliminary work would have to be done, especially in intergovernmental discussions. The President pointed out that the memorandum does not mention a budget, and does not say how the project should be financed. In the U.S.A., discussion goes on whether to launch shuttle or unmanned projects. Ch. Fehrenbach supported the views expressed by Bolton and Mustel. The General Secretary pointed out that COSPAR postponed the decision for a year. B. Lovell agreed in principle with what had been said by Mustel and Bolton, but welcomed the project provided there is money on whether

The discussion can be summarized as follows:
The Executive Committee finds the project interesting, provided interfere with other astronomical programmes. Much will depend of the first and the project interesting the provided interfere with other astronomical programmes. 7. does not the available

#### (c) Any other matter.

jor General Problems. B. Strimportance which have to 1) Publication policy 2) General Assemblies 3) Regional Meetings Strömgren emphasized to be satisfactorily that there the are 3 near future. of

IAU publication policy had amply been discussed during the meeting.

the problem of the size and or to formalities and business wi paid to questions from the flo-sion business should take up n covered by a well prepared pro next meeting of the Execution of the size and organizatities and business will have uestions from the floor and prepared the Executive Committee will have to go deeper into and organization of General Assemblies. The time devoses will have to be shorter. More attention should be efloor and to the resolutions of Commissions. Commisup no more than 1 hour, the remaining time must be programme. devoted 178

As to the regional meetings, the Union will have to find its way, and be in contact with National Committees, ESO, Astronomische Gesellschaft, and other such societies. It will be necessary to formulate the programmes of the meetings clearly and well in advance. Regional meetings are for all those that come to General Assemblies, but particularly for young astronomers who do not yet qualif for Symposia and Colloquia. qualify

ould E.R. Mustel felt that the resolutions to be adopted by I for more and wider discussion which, however, according Id require one more session.

The President suggested that the Officers would have to detailed examination of proposed resolutions. General Assemblie to Ch. Fehrenbach Assemblies

to desi

for

we will hav g. W. Iwanowska f 5.000 Members, nd reserve General

ship. and B. Lovell said that the Union is growing, that the size of General Asmblies becomes unmanageable, and that they lose their meaning. W. Iwanowska
lt that there is a limiting factor: if we reach the number of 5.000 Members,
will have to stop, discuss science at scientific meetings and reserve General
semblies to administration.
The General Secretary stressed that individual membership is an advantage
d should not be abolished. The President advocated the formation of divisions
the Union (as in U.S.A. astronomy). Another possibility of checking the grow
the Union is, according to B. Lovell, stricter rules for acquiring IAU members. member-

Assemblies. President recommended to find statistics on the attendance at General

The discussion resulted in 2 resolutions:

a) Presidents of Commissions will be encouraged critically to accept new members.
b) The next Officers meeting is to select points Executive Committee which should be published in encouraged to remove inactive members and

the Informat proceedings on tion Bulleti

The word was given had the following to say to the invited observers, representing young astronomers

L. Prévot: The IAU is useful and the present meeting showed important it is. Impressing is especially the organization of loquia, and how carefully are considered the criteria for or smeeting. The political questions are delicate and require tactions of the work of the Executive Committee is more than he The IAU is useful and the is. Impressing is especia meeting howed even more how on of Symposia and Col-r or against holding a e tactful handling. The n he could have imagined.

C. Froeschle they bring to between the a member of checked by each as to the Conburden. Froeschle: chle: The General Assemblies of the Union are a good institution as ang together different people. Regrettable is the lack of communication the Executive Committee and National Committees, as he could witness a of the French National Committee. The growth of the Union should be by establishing rules for admittance, perhaps international standards. e Commission meeting, he found that too many short communications are communication as

### with non-astronomers doing astronomical work

The General Secretary felt that it would be useful if the Union got in closer contact with such people. The President experienced in Poland that one Symposium held in conjunction with the Extraordinary General Assembly was to 60% attended by non-Members. According to the General Secretary such people makes to the IAU Consultants. ma y

1921 to 22 1 e next meeting of the Executive Committee will August 1975. It will be preceded, on 18 Augus e of the meeting is still to be announced. to be ьу held by an in Greec Officers meeting.

VI. CLOSING BY THE PRESIDENT

The meeting was closed by the President on Thursday, 29 August at 18,30

G. Contopoulcs
General Secretary

Thessaloniki 7 September 1974