# CONTENTS

## I. — Report of the Secretary

| A. Summary Record of the General Assembly of IUTAM in Vienna on June 25; 1966 | 5 |
| B. Symposia held in 1966 | 20 |
| C. Symposia decided for 1967 and later | 21 |
| D. Representation of IUTAM in other organizations | 23 |
| E. Publications of IUTAM in 1966 | 24 |
| F. Changes in the representation of organizations adhering to IUTAM in the General Assembly of IUTAM | 24 |
| G. Next Meeting of the Bureau | 25 |
| H. Next General Assembly | 25 |
| I. XIIth International Congress of Applied Mechanics | 25 |

## II. — Report of the Treasurer | 26 |

## III. — Appendices

| A. Statuts de l'Union Internationale de Mécanique Théorique et Appliquée | 29 |
| B. Résolution de l'Assemblée Générale de Pallanza | 33 |
| C. Règles de fonctionnement du Comité des Congrès de IUTAM | 34 |
| D. Statutes of the International Union of Theoretical and Applied Mechanics | 34 |
| E. Resolution of the General Assembly at Pallanza | 39 |
| F. Rules of procedure for the Congress Committee of IUTAM | 39 |
| G. Adhering Organizations and Members of the General Assembly | 40 |
| H. Members of the Congress Committee of IUTAM | 46 |
| I. Bureau of the Union | 47 |
I - REPORT OF THE SECRETARY

A. Summary Record of the General Assembly of IUTAM in Vienna on June 25, 1966

The General Assembly was held in the Technisches Museum of Vienna on Saturday, June 25, 1966 at 3 p.m.

Present

a) Representatives of national organizations


b) Elected Members

Y. H. Ku

c) Representative of IUTAM Congress Committee

W. T. Koiter
Agenda

The following agenda for the meeting was approved:

1. Opening of the meeting by the President.
2. Report of the Secretary.
4. Eventual modification of IUTAM annual dues.
5. Final decisions on Symposia suggested for 1967 and later.
6. Report by the President on relations with ICSU in general, and on a planned ICSU Committee on Critically Evaluated Numerical Data.
7. Report on the activity of the Congress Committee of IUTAM by the Secretary of the Committee.
8. Coordination of international activities in the field of experimental mechanics as suggested by Professor D. C. Drucker, USA.
9. Cooperation of IUTAM with other Unions, Associations, or Committees.
10. Changes in the representation of organizations adhering to IUTAM in the General Assembly of IUTAM.
11. Date and place of the next General Assembly.
12. Varia.

Proceedings of the General Assembly

Item 1 — Opening of the meeting by the President.

Prof. Maurice Roy as President of IUTAM opened the meeting with a short address, welcoming the delegates present and thanking Prof. H. Parkes of Vienna and his staff for their hospitality and help, making it possible for IUTAM to hold this General Assembly in the Lecture Room of the Technisches Museum of Vienna.

Item 2 — Report of the Secretary.

The Secretary Prof. H. Görtler submitted the following report to the General Assembly on the activities of IUTAM since the last General Assembly in Munich on September 2, 1964:

Mr. President,
My dear colleagues,

It is inevitable that in the period of nearly two years since the last General Assembly in Munich on September 2, 1964, we must fear to have to record the death of a number of scientific colleagues who have in past years served our Union. To our great regret, we have suffered such losses since the Munich meeting.

May I ask you to stand in silence in the honour of our deceased.

In the year of 1965 we were, to our deep regret, advised of the death of:

- Professor Sason Tomeno, Representative of the National Committee for Theoretical and Applied Mechanics of the Science Council of Japan,
- Dr. Hugh Latimer Dryden, elected member of the General Assembly and Past-President of our Union, member of the Congress Committee of IUTAM,
- Professor F. H. Van den Dungen, Representative of the National Committee of Theoretical and Applied Mechanics of the Royal Academy of Belgium,

and in this year of 1966

- Professor Henry Favre, Zurich, and
- Professor Kyrill Popoff, Sofia,

both elected members of the General Assembly and members of the Congress Committee of IUTAM.

On your behalf, our President or your Secretary or both of us have assured the families of the deceased and the organizations they represented of our feelings of sympathy.

I. Changes of Members of the General Assembly

Since the Munich meeting of the General Assembly the following changes in the representation of national organizations adhering to IUTAM have been made:

(1) Norway: The National Committee on Theoretical and Applied Mechanics of the Norwegian Academy of Science and Letters has elected Professor E. Nobs, Oslo, as representative.

(2) Belgium: Professor P. Van Espooil, Brussels, has been elected by the National Committee of Theoretical and Applied Mechanics of the Royal Academy of Belgium to succeed the late Professor F. H. Van den Dungen as representative of this Committee.

(3) Sweden: Professor Sune Berndt, Stockholm, has been elected by the Swedish National Committee for Mechanics to succeed Professor Sten Luthander.
In Mechanics, III Science 1967, a meeting of the Bureau was held here in Munich yesterday, the 24th of June, 1966, and was mainly devoted to the preparation of our General Assembly of today and to the discussion of problems that we will today have to decide.

III. Symposia already decided in 1965 and 1966

Since the General Assembly in Munich in September of 1964 the following five Symposia have been held:

In 1965:

(1) IUTAM Symposium on Recent Advances in Linear Vibration Mechanics, Paris, April 13 to April 15, 1965
   (Chairman: Prof. K. E. D. Bishop, London),

(2) Joint IUTAM/IAU/COSPAR Symposium on the Trajectories of Artificial Bodies as Determined from Observation, Paris, April 20 to April 23, 1965
   (Chairman: Prof. M. Roy, Paris, President of IUTAM and of COSPAR, Vice-Chairman: Dr. J. Kopal, Paris).

(3) VIIth Joint IAU/IUTAM Symposium on Cosmical Gas Dynamics, Nice, September 2 to September 15, 1965
   (Chairman: Dr. R. N. Thomas, Boulder, Colorado).

Reports on these three Symposia were published in our IUTAM Report 1965. The Proceedings of (1) have been published, those of (2) and (3) are in the process of publication.

In 1966:

(1) IUTAM Symposium on Rotating Fluid Systems, La Jolla, California, March 28 to April 1, 1966
   (Chairman: Prof. G. F. Carrier, Cambridge, Mass., Secretary: Dr. M. S. Longuet-Higgins, Wormley, Surrey).

(2) IUTAM Symposium on Irreversible Aspects of Continuum Mechanics, held in Vienna during the past days (June 22 to June 25, 1966) with Prof. H. Packard acting as Chairman.

Whereas only an extensive report on (1) will be published in a scientific journal, the Proceedings of (2) will be published in full by Springer-Verlag, Vienna and New York.

IV. Symposia already decided for the rest of 1966 and for 1967

(1) Next week the IUTAM Symposium on the Transfer of Physical Characteristics in Moving Fluids, under the chairmanship of Prof. L. I. Sedov, Moscow, will be held here in Vienna (June 27 to June 28, 1966).

(2) Joint IUGG/IUTAM Symposium on Boundary Layers and Turbulence Including Geophysical Applications, Kyoto, September 19 to September 24, 1966, under the chairmanship of Prof. I. Tani, Tokyo.

(3) IUTAM Symposium on the Generalized Cosserat Continuum and the Continuum Theory of Dislocations with Applications, to be held in Freudenstadt and Stuttgart, August 28 to September 2, 1967.

Chairman of the Scientific Committee: Prof. E. Kähler, Clausthal.

Plano for further symposia, two of which ("Thin Shells", "Thermomechanics") are already far developed, will be discussed under Item 5 of our agenda.
V. Publications of IUTAM

(1) I am very happy to be able to inform you that the Proceedings of the XIth International Congress of Applied Mechanics held in Munich from August 30 to September 5, 1964, have quite recently appeared. (Springer-Verlag, Berlin, 1966.)

(2) You have all received the printed annual IUTAM Reports of 1964 and 1965, edited in Freiburg i. Br.


(4) An extensive report on the IUTAM Symposium on Concentrated Vortex Motion in Fluids (Ann Arbor, Michigan, USA, July 6–11, 1964) was published by D. Küchmann in J. Fluid Mech. (1965), vol. 21, pp. 1–20. The General Lectures of the Symposium were published in Volume 7 of "Progress in Aeronautical Sciences".


VI. Representation of IUTAM in other organizations

(1) Prof. M. Roy, President of IUTAM and IUTAM Representative on the Executive Committee of ICSU, attended the meetings of the ICSU Executive Committee at Munich, April 5 to April 8, 1965, and at Bournemouth on January 3 and January 11, 1966, the two meetings in Bombay enclosing between them the General Assembly of ICSU on January 6 to January 10, 1966. A short report on these meetings was published in the IUTAM Report 1965. Our relations with ICSU will be treated under item 6 of our agenda.

(2) Prof. L. I. Sedov, Member of the Bureau of IUTAM, attended, as observer for IUTAM, the General Assembly of the ICSU Abstracting Board, held at Moscow from July 20 to July 23, 1965, and reported on this meeting to the Bureau of IUTAM.

(3) On the suggestion of Prof. G. Temple, Vice-President of IUTAM and IUTAM Representative on the Interunion Commission for the Teaching of Science (CIES), Prof. B. Thwaites of the University of Southampton accepted in 1965 to act as his deputy on CIES as he had already done on the occasion of the CIES meeting at Dakar (January 16–20, 1965). Quite recently, Prof. Temple has suggested to the Bureau that Prof. Thwaites should replace him entirely and become the official representative of IUTAM on CIES. After unanimous approval of this suggestion by the members of the Bureau, Prof. Thwaites has, on June 10, 1966, kindly accepted this office.

(4) Prof. E. Palm, University of Oslo, IUTAM Representative on the ICSU/IUGG Coordinating Committee on Atmospheric Sciences, has suggested that a small group of colleagues should assist him by exchange of views concerning the aspects of the problems of interest in mechanics and by acting as alternate delegate in case he is not able to attend one of the future meetings of the Committee. Prof. R. S. Scarbrough, London University, Prof. R. P. Bretherton, University of Cambridge, and Prof. R. V. Garcia, University of Buenos Aires, have kindly accepted to join this informal working group of dynamic meteorologists in IUTAM.

(5) Prof. J. Ferrandou, École Polytechnique, Paris, is the Representative of IUTAM on the Upper Mantle Committee and is especially attached to the Commission "Theory and Computers" of the Upper Mantle Project.

Dear colleagues, this report has given a survey of the activities of IUTAM since the last General Assembly in Munich on 2nd September, 1964, when I was elected to become Secretary of our Union. I am very grateful to Professor Roy and to Professor Koiter for having helped me so effectively during the difficult time I experienced trying to get acquainted with all the complexities of this office and I wish to thank them for all valuable advice they have continually given me. Let me also express my thanks to all members of this General Assembly who have helped and encouraged me on so many occasions. I am greatly indebted to all those who have regularly sent me their helpful answers and comments to my circulars. It is this active interest of so many members of our General Assembly that is the best insurance for the success of our endeavours serving the interests of our science.

The report of the Secretary was unanimously adopted.
Item 3 — Report of the Treasurer

1. Summarized financial statement as of June 16, 1966

New York Chemical Bank $ 9,712.64
National Provincial Bank £ 67/14/11
Credit Lyonnais Frs. 1,204.09
R. Mees en Hope £ 76,202.07
Total dollar equivalent approx. $ 31,300.—
Dollar equivalent of receipts in period
I.1. 1966 — 16. 6. 1966 approx. $ 4,500.—
Dollar equivalent of payments in period
I.1. 1966 — 16. 6. 1966 approx. $ 800.—
Dollar equivalent of balances at banks
on 16. 6. 1966 approx. $ 35,000.—
Dollar equivalent of balance special account
Congress Committee $ 4,347.—

2. Proposed budgets


<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance on 16.6.1966</td>
<td>$ 55,000.—</td>
</tr>
<tr>
<td>ICSU subvention 1966</td>
<td>$ 7,000.—</td>
</tr>
<tr>
<td>Subscription 1966</td>
<td>$ 3,400.—</td>
</tr>
<tr>
<td>and arrears</td>
<td>$ 3,400.—</td>
</tr>
<tr>
<td>General Assembly</td>
<td>$ 4,000.—</td>
</tr>
<tr>
<td>Vienna symposium</td>
<td>$ 5,000.—</td>
</tr>
<tr>
<td>Kyoto symposium</td>
<td>$ 6,000.—</td>
</tr>
<tr>
<td>Bureau meeting</td>
<td>$ 1,000.—</td>
</tr>
<tr>
<td>Misc. expenses</td>
<td>$ 2,400.—</td>
</tr>
<tr>
<td>Balances on 31.12.66</td>
<td>$ 27,000.—</td>
</tr>
</tbody>
</table>

Budget for 1967

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balances on 1.1.1967</td>
<td>$ 27,000.—</td>
</tr>
<tr>
<td>Subscription 1967</td>
<td>$ 7,000.—</td>
</tr>
<tr>
<td>ICSU subvention 1967</td>
<td>$ 7,000.—</td>
</tr>
<tr>
<td>Misc. expenses</td>
<td>$ 4,000.—</td>
</tr>
<tr>
<td>Balances on 31.12.67</td>
<td>$ 21,000.—</td>
</tr>
</tbody>
</table>

Tentative budget for 1968

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balances on 1.1.1968</td>
<td>$ 21,000.—</td>
</tr>
<tr>
<td>Subscription 1968</td>
<td>$ 7,000.—</td>
</tr>
<tr>
<td>ICSU subvention 1968</td>
<td>$ 7,000.—</td>
</tr>
<tr>
<td>Congress fees for</td>
<td>$ 4,000.—</td>
</tr>
<tr>
<td>IUTAM</td>
<td>$ 1,000.—</td>
</tr>
<tr>
<td>Balances on 31.12.68</td>
<td>$ 10,000.—</td>
</tr>
</tbody>
</table>

The report of the Treasurer was unanimously adopted.

Item 4 — Annual modification of IUTAM annual dues

The financial situation is not as severe as at present as was envisaged two years ago. The Bureau does not contemplate an increase in annual dues from the adhering organizations during 1967 and 1968. The tentative budged for 1968, however, clearly indicates a need for increased annual dues, effective from January 1, 1969. A provisional estimate of the increase in due is about 35 percent. If no alterations are made in the numbers of units paid in the various categories of adherence, the present unit of $ 30.— should then be increased to $ 100.— / $ 110.—

Item 5 — Final decisions on Symposia suggested for 1967 and later

As usual, this item was the most important one of the agenda. A circular (GA 11) giving the results of a written discussion on all proposals submitted to the Bureau had been sent to all members of the General Assembly well in advance (on April 22, 1966) of today's meeting. The written discussion had resulted in a clear picture of the order of preference attached to the many suggestions.

a) Symposia decided to be held in 1967

(1) IUTAM Symposium on the Generalized Cosserat Continuum and the Continuum Theory of Dislocations with Applications

This Symposium has already been decided. It will be held in Freudenstadt (Black Forest) and Stuttgart, Germany, from August 28 to September 1, 1967. The Bureau, in its meeting of June 24, 1966, decided to increase the allocation from IUTAM from the formerly decided sum of $ 3,000 to $ 5,000. The members of the Scientific Committee are E. Krieger, Chairman, A. E. Green, W. T. Koiter, K. Kondo, R. D. Mindlin, L. I. Sedov.

(2) Second IUTAM Symposium on the Theory of Thin Shells

Prof. W. T. Koiter's report as Chairman of the Preparatory Study Group on the desirability of this symposium and the fact that this proposal had received the highest support from the members of the General Assembly during the written discussion in advance of the meeting greatly facilitated the decision of the General Assembly to hold this Symposium in Copenhagen in 1967, immediately before or after the "General Symposium" (1), preferably after the week beginning on September 4, 1967.
The General Assembly appointed the following Scientific Committee:

F. Nieldsson, Chairman
A. E. Green
W. T. Koiter
W. Olszak
E. Réissner
I. N. Vekua

There will be an allocation from IUTAM, the final sum still to be decided by the Bureau.

The first IUTAM Symposium on Thin Shells was held in Delft in 1959. The second Symposium will be the first IUTAM Symposium held in Denmark.

(2) IUTAM Symposium on the Behaviour of Dense Media under High Dynamic Pressures

This Symposium was recently suggested by the French National Committee and warmly supported by all members of the Bureau.

The General Assembly decided that this Symposium will be held in Paris in the middle of September 1967 under the chairmanship of Prof. M. Roy and with Dr. J. Berger of the French Commissariat à l'Energie Atomique acting as Secretary of the Scientific Committee.

The General Assembly authorized the Bureau of IUTAM to select and appoint the further members of the Scientific Committee. An allocation from IUTAM will not be requested.

b) Symposia decided to be held in 1968

The members were reminded that 1968 is the year of the XIth International Congress, to be held in Stanford, California, August 26-31, 1968.

(1) IUTAM Symposium on Thermoanelasticity

This proposal had been discussed very thoroughly during several years by a Study Group under the chairmanship of Prof. E. K. G. Olszewski. The General Assembly now decided that the Symposium shall be held, on the invitation of Dr. D. G. Sopwith, in the National Engineering Laboratory, East Kilbride, Glasgow, preferably during June 1968, and appointed the following Scientific Committee:

B. Bolesk, Chairman
F. Backens
V. V. Novozhilov
F. K. G. Olszewski
W. Olszewski
H. Parkus
D. G. Sopwith

(2) IUTAM Symposium on High-Speed Compressing in Fluid Dynamics

This Symposium was proposed by the U.S. National Committee on Theoretical and Applied Mechanics and received support from a large number of members of the General Assembly during the written discussions in advance of this meeting. The General Assembly decided that this Symposium will be held in the USA in 1968 and appointed the following members of the Scientific Committee:

F. N. Frenkel, Chairman
G. G. Cherev
M. J. Lighthill
I. Tani

The Bureau of IUTAM is authorized to appoint two further members, one from France and one from Germany on suggestions to be made by M. Roy and H. Görtler. A lengthy discussion concerning location and date of the Symposium did not lead to final decisions. The General Assembly therefore authorized the U.S. National Committee on Theoretical and Applied Mechanics to make final decisions as soon as possible and subject to the approval by the Bureau of IUTAM.

There will be the usual allocation from IUTAM for these two Symposia in 1968, the exact amount still to be decided by the Bureau.

c) Symposia decided to be held in 1969

(1) IUTAM Symposium on the Flow of Fluid-Solid Mixtures

This proposal submitted by the British National Committee has received very strong support from many members of the General Assembly during the written discussions in advance of this meeting.

The General Assembly now decided that this Symposium will be held at the University of Cambridge, England in March or April of 1969. The General Assembly appointed Prof. G. K. Batchelor as Chairman and Dr. J. R. A. Pearson (Dept. of Chemical Engineering, University of Cambridge) as Secretary of the Scientific Committee, and authorized the Bureau of IUTAM to appoint further members on suggestions to be made by Prof. Batchelor till the end of 1966.

A suggestion to include the "Flow of Granular Material" in the subject of this Symposium was rejected.

(2) IUTAM Symposium on Non-Conservative Systems and Problems of Aeroelasticity (suggested by the German delegation)

and

(3) IUTAM Symposium on General Methods in the Theory of Stability (proposed by the National Committee of the Netherlands)

are two further proposals for 1969 that were accepted by the General Assembly. Since the two subjects are closely related the Symposium should both have the same Scientific Committee with two different chairmen.
The General Assembly appointed Prof. H. Leipholz as Chairman of (2) and Prof. L. J. F. Boer as Chairman of (3), these appointments subject to the results of an investigation by a Study Group on the desirability to hold two Symposia or to hold one Symposium covering both topics. The Study Group under the chairmanship of W. T. Koiter and with L. J. F. Boer, H. Leipholz and R. Marz as members will report to the Bureau well in advance of the next meeting of the Bureau in 1967. The General Assembly authorized the Bureau to then make final decisions.

The General Assembly further decided that both Symposia or one Symposium combining both subjects will be held in Karlsruhe, Germany, in March or April of 1969.

d) Vth Joint IAU/IUTAM Symposium on Cosmical Gas Dynamics

In the light of the very successful progress of the Vth Joint IAU/IUTAM Symposium on Cosmical Gas Dynamics held at the Observatory of Nice in 1965, the General Assembly decided to continue cooperation with IAU as joint sponsor of the next Symposium to be held in 1968, 1969, or 1970, and to encourage a stronger participation of aerodynamicists in this valuable scientific interchange between aerodynamics and astrophysics.

e) Study Groups for the investigation of the desirability of some further Symposium proposed

(3) Magnetodynamics of Fluids

This subject was proposed by the U.S. National Committee and supported by the French National Committee. The proposal found considerable support from members of the General Assembly during the written discussions in advance of this meeting. A Symposium was envisaged for 1968. Since the International Congress and one IUTAM Symposium (High-Speed Computing in Fluid Dynamics) will take place in the United States during 1968, it was felt that the Symposium suggested should, if approved for 1968, be held in Europe.

The General Assembly appointed a Study Group consisting of

- M. J. Lighthill, Secretary
- W. F. Reed
- F. N. Frenkel
- I. Tani

to study the desirability of a Symposium on Magnetodynamics of Fluids to be held in 1968 or later and, if desired, to suggest to the Bureau, which fields should be covered. It was left to the Study Group to study the advisability of including the subject "Flow of Ionized Gases" (proposed by the Japanese National Committee as topic for a future Symposium).

The Secretary of the Study Group will report to the Bureau well in advance of the next meeting of the Bureau to be held in 1967.

(2) Electro-Hydrodynamics

This subject, to be understood as distinct from Magnetodynamics, was suggested by Sir Geoffrey Taylor. It seems that there are quite a number of mutually exclusive groups (Physical Chemists, Meteorologists, Chemical Engineers, Aerodynamicists, Paper Technologists, Electrical Engineers, and probably others) working on this subject with very varied motivations. The variety of lines of approach seems to make it a particularly suitable subject for a IUTAM Symposium.

It was decided by the General Assembly that the Secretary will ask Sir Geoffrey Taylor to form a Study Group, with him and three or four other members, one member acting as Secretary of the Group. This Group should study the fields that should be covered by the Symposium and prepare a proposal. The Secretary of the Study Group should submit this proposal to the Bureau well in advance of the next Bureau meeting in 1967.

(3) Nonsteady Flow of Water at High Speeds

This proposal was made by Prof. L. I. Sedov. The General Assembly appointed the following Study Group:

- L. I. Sedov, Secretary
- R. Siewiorek
- M. P. Tulin
- G. Weinstock
- L. Van Wijngaarden

The Secretary of the Study Group, Prof. L. I. Sedov, will report to the Bureau on the desirability and scope of the Symposium proposed, at a date well in advance of the next meeting of the Bureau.

(4) Nonsteady Flow of Multiphase Fluids in Porous Media

This proposal was also made by Prof. L. I. Sedov. The General Assembly decided that a Study Group should be formed and requested that Prof. L. I. Sedov should suggest to the Bureau three to five members. Prof. L. I. Sedov agreed to submit a list of names to the Bureau well in advance of the next Bureau meeting in 1967.

(5) Creep in Structures

From the floor Prof. F. K. G. Odqvist proposed a Second Symposium on Creep in Structures to be held at Chalmers University of Technology, Göteborg, not earlier than 1969. (The first IUTAM Symposium on this subject was held in Stanford 1960.) Prof. Odqvist agreed to submit a written proposal to the Bureau well in advance of the next Bureau meeting in 1967. It was felt that a considerable number of members were in favour of a second Symposium on this subject.
Item 6 — Report by the President on relations with ICSU in general, and on a planned ICSU Committee on Critically Evaluated Numerical Data

Since a report of the President, as IUTAM Representative on the Executive Committee of ICSU, on the relations of our Union with ICSU has recently been published in the IUTAM Report 1965, the President is able to confine his report to some short remarks on the meetings of the Executive Committee and the General Assembly of ICSU at Bombay in January 1966. The next meeting of the ICSU Executive Committee is to be held at Monaco on October 7—8, 1966.

ICSU has now established a committee "to promote and encourage on a world-wide basis, the production and distribution of compendia and other forms of collections of critically selected numerical and other quantitatively expressed values of properties of substances of importance and interest to science and technology". The name of the committee shall be the "International Committee on Data for Science and Technology". The Committee will be composed of members representing international scientific unions as well as of members representing countries with substantial programs in numerical data compilation and of members coopted because of their special competence in the area. The Bureau of IUTAM has appointed Prof. F. K. G. Odqvist as IUTAM Representative on this new ICSU Committee.

Item 7 — Report on the activity of the Congress Committee of IUTAM, by the Secretary of the Committee

The Secretary of the Committee submitted the following report: The Executive Committee met with the President-elect of the XIIth Congress on June 23, 1966. Apart from the Congress Program the most important topic discussed dealt with the financial assistance required in order to achieve a substantial participation from outside the United States, in particular from Europe. Professor Hoff is confident that a substantial grant may be obtained from U.S. sources, and the chances of obtaining such a grant are certainly improved, if IUTAM itself is also willing to provide some support. The Executive Committee agreed to make available a sum of $1,000 from the limited funds of the Congress Committee, and an additional grant from IUTAM funds is requested. It will be attempted to charter a plane for European participants, a substantial portion of the grants to be obtained to be used in order to reduce the seat cost for selected participants. The help of the adhering organizations of IUTAM will be sought in selecting the participants who qualify for a seat at reduced cost.

The Executive Committee noted that the preparations by Professor Hoff progress satisfactorily. A first announcement of the Congress will be sent out in the fall of 1966 with preliminary information on the submission of contributed papers.

The report of the Secretary of the Congress Committee was unanimously adopted. It was decided that the additional grant from IUTAM will be $3,000.

Item 8 — Coordination of international activities in the field of experimental mechanics, as suggested by Professor D.C. Drucker, USA

Professor Drucker suggested in the name of SES, the U.S. Society for Experimental Stress Analysis, that IUTAM should act as coordinating body for the congresses being held since some time for the techniques of experimental mechanics. Till now, such congresses have been organized by national organizations at international meetings. This entails some risk of undesirable competition. IUTAM has till now refrained from taking any action since these congresses have been organized on a regional basis. It is the aim of IUTAM to foster international cooperation in the fields of mechanics. — The Bureau decided that IUTAM should establish some coordination between the activities of the two international Congresses of Experimental Stress Analysis in the United States and in Europe only if invited by the organizations planning these Congresses to do so. It was decided that the Bureau of IUTAM will inform the Permanent Committee for Stress Analysis (i.e. Joint British Committee for Stress Analysis) of the steps taken by Professor Drucker on behalf of SES.

Item 9 — Cooperation of IUTAM with other Unions, Associations, and Committees

Item 10 — Changes in the representation of organizations adhering to IUTAM in the General Assembly of IUTAM

These two items have been treated in the report of the Secretary reproduced above under item 2.

Item 11 — Date and place of the next General Assembly

The next General Assembly will be held in Stanford during the week of the XIIth International Congress (August 26—31, 1968) on Wednesday, August 28, 1968, at 8 p.m.

Item 12 — Minutes

The Bureau has decided to hold the next meeting of the IUTAM Bureau at Copenhagen during the Symposium on Thin Shells in August or September of 1967.
B. Symposia held in 1966

1. IUTAM Symposium on Rotating Fluid Systems, La Jolla, California (USA), March 28 to April 1, 1966.
Chairman: Prof. G. F. Carrier, Pierce Hall, Harvard University, Cambridge, Massachusetts (USA).
Secretary: Dr. M. S. Longuet-Higgins, National Institute of Oceanography, Worsley, Godalming, Surrey (UK).
75 participants from 10 countries (Canada, Denmark, France, Germany, Japan, South Africa, Sweden, UK, USA, USSR).

2. IUTAM Symposium on Irreversible Aspects of Continuum Mechanics, Vienna (Austria), June 22 to June 25, 1966.
57 participants from 15 countries (Austria, Belgium, Canada, Denmark, France, Germany, India, Israel, Italy, Netherlands, Poland, Sweden, Switzerland, USA, USSR).
The Proceedings of this Symposium will be published together with the Proceedings of the Symposium listed under No. 3 by Springer-Verlag, Vienna and New York.

3. IUTAM Symposium on the Transfer of Physical Characteristics in Moving Fluids, Vienna (Austria), June 27 to June 28, 1966.
Chairman: Prof. L. I. Sedov, The University, Zone U, app. 84, Moscow B-234 (USSR).
40 participants from 9 countries (Austria, Czechoslovakia, Germany, Japan, Poland, Sweden, UK, USA, USSR).
The Proceedings of this Symposium will be published together with the Proceedings of the Symposium listed under No. 2 by Springer-Verlag, Vienna and New York.

Chairman: Prof. I. Tani, Institute of Space and Aeronautical Science, University of Tokyo, Komaba, Meguro-ku, Tokyo (Japan).
125 participants and 67 observers from 13 countries (Austria, Belgium, Canada, France, Germany, Israel, Japan, Netherlands, New Zealand, Sweden, UK, USA, USSR).
The Proceedings of the Symposium will be published as a supplement to the journal "The Physics of Fluids".
Reports on the Symposium held in 1966 are to be found in Appendices J, K, L, and M of this annual IUTAM Report.

C. Symposia decided for 1967 and later

The following list contains all details now available concerning scientific committees, dates, and places of future IUTAM Symposia and therefore more details than were available at the time the Summary Record of the General Assembly at Vienna (June 25, 1966) was written.

1. IUTAM Symposium on the Generalized Cosserat Continuum and the Continuum Theory of Dislocations with Applications, Stuttgart and Freudenstadt (Black Forest) (Germany), August 28 to September 2, 1967.
The Scientific Committee consists of the following members:
Prof. E. Kröner, Chairman,
Technische Hochschule Clausthal,
Clausthal-Zellerfeld (Germany),
Adolf-Römer Str. 2 A
Prof. A. E. Green (UK)
Prof. W. T. Koiter (Netherlands)
Prof. K. Kondo (Japan)
Prof. R. D. Mindlin (USA)
Prof. L. I. Sedov (USSR).

2. IInd IUTAM Symposium on the Theory of Thin Shells, Copenhagen (Denmark), September 5 to September 9, 1967.
The Scientific Committee consists of the following members:
Prof. F. Nielsen, Chairman,
Royal Technical University,
Rigensgade 13,
Copenhagen K (Denmark)
Prof. A. E. Green (UK)
Prof. W. T. Koiter (Netherlands)
Prof. W. Olszak (Poland)
Prof. E. Reissner (USA)
Prof. L. N. Vekua (USSR).

3. IUTAM Symposium on the Behaviour of Dense Media under High Dynamic Pressures, Paris (France), September 11 to September 15, 1967.
The Scientific Committee consists of the following members:
Prof. M. Roy, Chairman,
55, boulevard Malherbes,
Paris VIII (France)
Dr. J. Berger, Secretary,
Commissariat à l'Energie Atomique,
Etablissement T, Boltz Postale no. 7,
Sevran (Seine et Oise) (France)
4. IUTAM Symposium on Thermoelasticity, National Engineering Laboratory, East Kilbride, Glasgow (Scotland), June 27 to June 29, 1968.

The Scientific Committee consists of the following members:
Prof. B. A. Boley, Chairman, Department of Civil Engineering and Engineering Mechanics, Columbia University, New York, N. Y. (USA)
Prof. F. Backens (Belgium)
Prof. V. V. Novozhilov (USSR)
Prof. F. K. G. Odqvist (Sweden)
Prof. W. Olszak (Poland)
Prof. H. Parkus (Austria)
Dr. D. G. Sopwith (UK).

5. IUTAM Symposium on High-Speed Computing in Fluid Dynamics, Monterey, California (USA), August 18 to August 24, 1968.

The Scientific Committee consists of the following members:
Dr. P. N. Frenkel, Chairman, Applied Mathematics Laboratory, David Taylor Model Basin, Washington, D. C. (USA)
Prof. E. Becker (Germany)
Prof. G. G. Chernyi (USSR)
Prof. J. P. Guiraud (France)
Prof. M. J. Lighthill (UK)
Prof. I. Tani (Japan).


The General Assembly at Vienna (see A) appointed as Chairman and as Secretary of the Scientific Committee
Prof. G. K. Batchelor, Chairman, Department of Applied Mathematics and Theoretical Physics, University of Cambridge, Silver Street, Cambridge (UK).

7. IUTAM Symposium on Non-Conservative Systems and Problems of Aeroelasticity and IUTAM Symposium on General Methods in the Theory of Stability (or one combined Symposium covering both subjects), Stuttgart (Germany), March or April 1969.

Inquiries should be addressed to Prof. W. T. Koiter, Mekelweg 2, Delft (Netherlands).

D. Representation of IUTAM in other organizations

In addition to the information given under this title by the Secretary of IUTAM in his report to the General Assembly in Vienna on June 25, 1966, and completely reproduced above in the Summary Record of that meeting of the General Assembly on page 10—11, the following further information can now be given:

1. Prof. M. Roy, President of IUTAM and IUTAM Representative on the Executive Committee of ICSU, attended the 11th Meeting of the Executive Committee of ICSU at Monaco on 7 and 8 October, 1966.

2. Prof. Einar Pals of the University of Oslo and President of the Norwegian National Committee on Theoretical and Applied Mechanics, serving as IUTAM Representative on the ICSU/IUGG Coordinating Committee on Atmospheric Sciences, attended the meeting of this Committee in Geneva on April 22—25, 1966. In the view of Prof. Pals those topics of the preliminary program for the near future proposed by the Committee that should be of interest to the organizations adhering to IUTAM are: studies in the tropics including the development of appropriate dynamical models, analysis of the role of convection in energy transformation, and theoretical and observational studies of the sea/air and land/air exchange processes in several climatic regimes. The Committee plans to establish four or five full-time International Study Groups to proceed with the preliminary studies and to develop the specific plans for the program to be conducted during 1972 as a first twelve-months period for intensive international observational study and analysis of the global circulation in the troposphere and lower stratosphere.
3. The Bureau of IUTAM has decided to appoint an Observer on the ICSU Committee on Water Research (COWAR). M. Louis Serra, Acting Secretary General of COWAR (98, rue Xavier de Maistre, 92-Rueil-Malmaison, France) has accepted to act as IUTAM Observer and to report to the Bureau with respect to possibilities for the eventual effective cooperation of members of IUTAM in some fields of the activities of COWAR.

4. Prof. F. K. G. Odqvist, The Royal Institute of Technology, Stockholm, has kindly accepted his appointment by the Bureau of IUTAM as IUTAM representative on the newly established International Committee on Data for Science and Technology of ICSU.

E. Publications of IUTAM in 1966

In 1966 the following publications of IUTAM appeared:


F. Changes in the representation of organizations adhering to IUTAM in the General Assembly of IUTAM

In addition to the changes reported by the Secretary of IUTAM to the General Assembly in Vienna on June 25, 1966, and included above in the Summary Record of that meeting of the General Assembly, on page 7—8, the following changes have recently been made:

1. The General Assembly has unanimously approved the change in membership status of the Italian "Consiglio Nazionale delle Ricerche" from category I to category II, this change becoming effective in 1966. Prof. G. Colonnetti has now been joined by Prof. B. Finzi (Via Bassardi 3, Milano) as second Italian representative. Prof. Finzi is President of the "Associazione Italiana di Meccanica Teorica ed Applicata" (AIMETA).

2. Prof. Albert Casquet, Prof. Rene Thiry, and Prof. Henri Villat have resigned as representatives of the "Comité National Français de Mécanique" in the General Assembly of IUTAM. In future, the French National Committee will be represented by Prof. Paul Germain (3, avenue de Champsaur, Paris 15e), Prof. Luc Gauthier (16, rue du Lycee, Sceaux [92]), Dr. Robert Legendre (37, rue Massenet, Paris 16e), and, as in the past, by our President Prof. Maurice Roy.

3. Prof. L. J. F. Broer has resigned as representative of the Section for Mechanics of the Royal Institute of Engineers (Netherlands). He has been replaced by Prof. ir. H. O. Hinze of the Technical University of Delft.

G. Next Meeting of the Bureau

The next Meeting of the Bureau of IUTAM will be held at Copenhagen (Conference Room, Oster Volgade 10) during the evening of Wednesday, September 6, 1967 (within the period of the Second IUTAM Symposium on the Theory of Thin Shells, September 5—9, 1967).

H. Next General Assembly

The next General Assembly of IUTAM will be held in Stanford, California, during the week of the XIth International Congress on Wednesday, August 28, 1968, at 8 p.m.

I. XIth International Congress of Applied Mechanics

The XIth International Congress of Applied Mechanics will be held at Stanford University, Stanford, California, from August 26 to August 31, 1968. President of the XIth Congress: Prof. N. J. Hoff, Head of the Department of Aeronautics and Astronautics, Stanford University.
## II. — REPORT OF THE TREASURER

*Summarized Statement of Receipts and Payments for the year ended 31st December 1966*

### A. UNRESTRICTED FUNDS

<table>
<thead>
<tr>
<th>Description</th>
<th>U.S. Dollars</th>
<th>Pounds Sterling</th>
<th>French Francs</th>
<th>Dutch Guilders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balances, 1st January 1966</td>
<td>8,514.79</td>
<td>2,694/6/10</td>
<td>342.99</td>
<td>49,995.99</td>
</tr>
<tr>
<td><strong>Receipts:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subscriptions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bank Interest</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Currency transfer</td>
<td>18.40</td>
<td></td>
<td></td>
<td>67.93</td>
</tr>
<tr>
<td><strong>Totals:</strong></td>
<td>8,533.19</td>
<td>2,694/6/10</td>
<td>342.99</td>
<td>50,663.89</td>
</tr>
<tr>
<td><strong>Payments:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printing costs IUTAM report for 1965</td>
<td></td>
<td></td>
<td></td>
<td>1,750.57</td>
</tr>
<tr>
<td>ICSU dues for 1966</td>
<td></td>
<td></td>
<td></td>
<td>496.25</td>
</tr>
<tr>
<td>CHS dues for 1966</td>
<td>200.—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auditor's fee for financial report 1966</td>
<td></td>
<td></td>
<td></td>
<td>450.—</td>
</tr>
<tr>
<td>Bank Charges</td>
<td></td>
<td></td>
<td></td>
<td>17.21</td>
</tr>
<tr>
<td>Secretarial Expenses</td>
<td></td>
<td></td>
<td></td>
<td>162.85</td>
</tr>
<tr>
<td>Travelling and Subsistence expenses Bureau meeting at Paris (1965)</td>
<td>46/36/—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Representation of IUTAM at Third Centennial Academy of Science</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travelling and Subsistence expenses General Assembly at Vienna</td>
<td>225.—</td>
<td></td>
<td></td>
<td>947.85</td>
</tr>
<tr>
<td><strong>Total payments:</strong></td>
<td>425.—</td>
<td>46/36/—</td>
<td>—</td>
<td>6,120.52</td>
</tr>
<tr>
<td>Balances, 31st December 1966</td>
<td>8,912.99</td>
<td>2,647/10/10</td>
<td>342.99</td>
<td>71,544.37</td>
</tr>
</tbody>
</table>

### B. RESTRICTED FUNDS

<table>
<thead>
<tr>
<th>Description</th>
<th>U.S. Dollars</th>
<th>Pounds Sterling</th>
<th>French Francs</th>
<th>Dutch Guilders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balances, 1st January 1966</td>
<td>1,197.85</td>
<td>2,636/11/11</td>
<td>861.30</td>
<td>26,207.07</td>
</tr>
<tr>
<td><strong>Receipts:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amount received from ICSU in respect of UNESCO grant</td>
<td>7,000.—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Totals:</strong></td>
<td>8,197.85</td>
<td>2,636/11/11</td>
<td>861.30</td>
<td>26,207.07</td>
</tr>
<tr>
<td><strong>Payments:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Symposium at Vienna</td>
<td>1,759.80</td>
<td></td>
<td></td>
<td>13,937.42</td>
</tr>
<tr>
<td>Symposium at Kyoto</td>
<td></td>
<td></td>
<td></td>
<td>13,514.81</td>
</tr>
<tr>
<td><strong>Total payments:</strong></td>
<td>1,759.80</td>
<td></td>
<td></td>
<td>27,452.23</td>
</tr>
<tr>
<td>Balances, 31st December 1966</td>
<td>6,439.05</td>
<td>2,626/11/11</td>
<td>861.30</td>
<td>1,045.26</td>
</tr>
</tbody>
</table>

### SUMMARY OF BALANCES

<table>
<thead>
<tr>
<th>Description</th>
<th>U.S. Dollars</th>
<th>Pounds Sterling</th>
<th>French Francs</th>
<th>Dutch Guilders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unrestricted funds</td>
<td>8,511.99</td>
<td>2,647/10/10</td>
<td>342.99</td>
<td>71,544.37</td>
</tr>
<tr>
<td>Restricted funds</td>
<td>6,439.05</td>
<td>2,626/11/11</td>
<td>861.30</td>
<td>1,045.26</td>
</tr>
<tr>
<td>Balances at Banks, 31st December 1966</td>
<td>15,349.04</td>
<td>20/18/3/1</td>
<td>1,204.29 *</td>
<td>72,589.63</td>
</tr>
</tbody>
</table>

* Statements of these accounts made up to the 31st December 1966 not yet received.
### III. APPENDICES

A. Statuts de l'Union Internationale de Mécanique Théorique et Appliquée

**PRÉAMBULE**

Afin de contribuer plus efficacement au développement de la science de la Mécanique, le Comité International des Congrès de Mécanique Appliquée avait décidé, lors de sa réunion à Paris en septembre 1946, de fonder une organisation permanente portant le nom d' « Union Internationale de Mécanique Théorique et Appliquée ».

Cette Union a été adhérée dans le Conseil International des Unions Scientifiques par décision du Comité Exécutif de ce Conseil en 1947.

Dans les réunions tenues à Londres en septembre 1948, il a été décidé que le Comité International continuera, en tant que corps indépendant de l'Union, à organiser, comme par le passé, les Congrès Internationaux de Mécanique Appliquée et que ce Comité aura le Statut d'une organisation adhérente à l'Union.

Lors des réunions de Munich en août-septembre 1964, il a été décidé que le Comité International pour les Congrès de Mécanique Appliquée serait dissous comme un organisme distinct et posant le statut d'organisation adhérente à l'Union, et qu'il serait remplacé par un Comité permanent pour les Congrès Internationaux comme un organisme permanent et intégré dans l'organisation de l'Union sous le nom de « Comité pour les Congrès Internationaux ».

**I.**

L'Union Internationale de Mécanique Théorique et Appliquée a pour buts :

a) De former un lien entre des personnes et des organisations nationales ou internationales s'occupant de recherches scientifiques (théoriques ou expérimentales) dans le domaine de la mécanique ou des sciences connexes.

---

b) D’organiser les Congrès Internationaux de Mécanique Théorique et Appliquée par l’intermédiaire du Comité permanent des Congrès et d’organiser d’autres réunions internationales sur des sujets du domaine de la mécanique théorique et appliquée.

c) De prendre toutes autres initiatives propres à contribuer au développement scientifique de la mécanique théorique ou appliquée.

II

L’organe actif de l’Union Internationale de Mécanique Théorique et Appliquée est son Assemblée Générale.

L’Assemblée Générale a pouvoir de décision pour toutes les questions concernant l’Union, y compris la modification des statuts. Elle peut déléguer ce pouvoir pour des sujets spécifiques à des organes appropriés.

La composition de l’Assemblée Générale est réglée par l’article IV.

II A

a) L’Assemblée Générale établit un Comité permanent des Congrès qui est responsable pour l’organisation des Congrès internationaux de mécanique théorique et appliquée à intervalles réguliers.

b) Le président de l’Union est aussi président du Comité des Congrès.

Les membres du Comité des Congrès sont nommés par l’Assemblée Générale en tant que personnalités scientifiques activement engagées dans la mécanique théorique et appliquée sans être nécessairement membres de l’Assemblée Générale.

c) Le Comité des Congrès nomme un Secrétaire, sans durée définie de fonction.


III

Des organisations s’occupant d’études scientifiques dans le domaine de la mécanique théorique ou appliquée (ou des unions nationales de telles organisations) peuvent être admises par l’Assemblée Générale comme organisations adhérentes de l’Union Internationale.

Chaque organisation adhérente sera des représentants à l’Assemblée Générale de l’Union et paiera une souscription annuelle à l’Union, d’après les indications de l’article IX.


VII

Afin de maintenir son activité dans l'intervalle entre les réunions de l'Assemblée Générale, celle-ci nomme un Bureau composé :

- d'un président,
- du président sortant, vice-président,
- d'un secrétaire,
- d'un trésorier,
- et de quatre autres membres de l'Assemblée Générale.

Les membres du Bureau sont élus pour une période de quatre ans au maximum et sont rééligibles. Les membres nouvellement élus entrent en fonction le 1er novembre qui suit l'Assemblée Générale qui les a élus.

Le Bureau doit se réunir au moins une fois par an. Tout membre du Bureau peut, en en prévenant par lettre le secrétaire, se faire remplacer par un autre membre de l'Assemblée Générale, s'il lui est impossible de prendre part à une réunion.

Le rôle du secrétaire est d'assurer les liaisons permanentes pour tout sujet intéressant l'Union, y compris les relations avec les organisations adhérentes ou étrangères à l'Union.

Le siège légal de l'Union est la résidence du secrétaire.

Le Bureau est autorisé à nommer des trésoriers adjoints dans les pays où l'Union a un compte en banque.

Les trésoriers adjoints doivent être membres de l'Assemblée Générale, mais ne sont pas nécessairement membres du bureau.

VIII

Les moyens financiers de l'Union proviennent :

a) des souscriptions annuelles des organisations adhérentes ;

b) des dons ou subventions.

L'Union établit chaque année une liste de bienfaiteurs, dans laquelle sont inscrits les noms des personnes ou des institutions qui ont accordé des dons, des legs ou autres subventions à l'Union.

Le Bureau de l'Union établit un budget pour chaque année et administre les finances. Il doit soumettre un rapport financier annuel aux membres de l'Assemblée Générale.

IX

Le nombre de représentants d'une organisation adhérente et le montant de la souscription annuelle à payer par cette organisation seront réglés d'après le barème suivant sur proposition de l'organisation adhérente et après approbation de l'Assemblée Générale de l'Union.

<table>
<thead>
<tr>
<th>Catégorie</th>
<th>Nombre de représentants</th>
<th>Unités de souscription annuelle</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>II</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>III</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>IV</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>V</td>
<td>5</td>
<td>12</td>
</tr>
</tbody>
</table>

Le montant d'une unité de souscription annuelle sera de $ 70 \textsuperscript{1} USA, ou son équivalent en monnaie du pays à la date du paiement.

X

Dans tous ses décisions, l'Assemblée Générale s'inspirera de la tradition de coopération scientifique libre et internationale qui s'est développée dans les Congrès internationaux de Mécanique appliquée.

XI

Le présent texte français sera autorisé pour l'interprétation à donner aux statuts.

B. Résolution de l'Assemblée Générale de Pallanza

(27 juin 1950)

En confirmation des opinions exprimées précédemment à l'Assemblée Générale de septembre 1948 au moment où les présents statuts ont été adoptés :

1. L'Assemblée Générale estime que, dans les pays où il existe plus d'une organisation nationale active dans le champ de la mécanique théorique et appliquée, un comité spécial de coordination doit être formé. En général, il est convenu de reconnaître seulement une organisation adhérente dans chaque pays.

2. L'Assemblée Générale estime que sa composition devra être graduellement modifiée de façon à ce qu'elle comprenne principalement les représentants des organisations adhérentes à l'Union, la catégorie des membres élus devant être réservée pour des cas particuliers et exceptionnels. Dans ce but, elle donne avis de son intention de réduire le nombre des membres élus lorsque, en 1952, ils seront arrivés au terme de leur mandat.

\textsuperscript{1} Modification apportée à la suite du vote de l'Assemblée Générale de Stresa (Italie), 1er septembre 1960.
C. Règles de fonctionnement du Comité des Congrès de l'UTAM (4 septembre 1964)

1. Le Comité des Congrès se réunit au moins une fois lors de chaque Congrès.

2. Le Comité des Congrès peut instituer un Comité Exécutif chargé d'entreprendre toutes les actions nécessaires de sa part pendant la période qui s'écoule entre deux Congrès successifs, et de lui faire un rapport à sa prochaine réunion. Le Comité Exécutif comprendra le président et le secrétaire du Comité des Congrès et un ou plusieurs membres désignés par le Comité des Congrès.

3. L'organisation effective d'un Congrès est confiée à un Comité local d'Organisation, élu par le pays où l'organisation qui invite, et cet Comité est également responsable de la publication des Comptes Rendus du Congrès. Le Comité d'Organisation fera son rapport au Comité des Congrès soit au cours du Congrès qu'il organise, soit avant, s'il le juge préférable.

4. Le Comité d'Organisation devra obtenir l'approbation du Comité des Congrès (normalement par l'intermédiaire du Comité Exécutif) pour toutes les affaires qui se rapportent à la politique générale du Comité des Congrès, en particulier pour celles qui concernent :

   4.1 le but du Congrès;
   4.2 la sélection des communications pour le Congrès;
   4.3 le choix des lectures générales pour le Congrès;
   4.4 la désignation des présidents de sessions du Congrès.

5. Le Comité d'Organisation perçoit, au nom de l'Union Internationale de Mécanique Théorique et Appliquée, de tous les membres du Congrès une contribution supplémentaire ne devant pas dépasser § 1 pour couvrir les dépenses administratives, en plus de la contribution pour le Congrès lui-même. Les contributions supplémentaires seront reversées à l'UTAM immédiatement après le Congrès.

D. Statutes of the International Union of Theoretical and Applied Mechanics

PREAMBLE

In order to be more fully equipped to promote development of the science of mechanics, the International Committee for the Congresses of

Applied Mechanics at its meeting at Paris in September 1946 decided to found a permanent organization, called "The International Union of Theoretical and Applied Mechanics".

This Union has been admitted into the International Council of Scientific Unions by decision of the Executive Committee of this Council in 1947.

At the meetings at London in September 1948 it was decided that the International Committee would continue to organize the Congresses of Applied Mechanics as an independent body as in the past, and that the International Committee would have the status of an adhering organization of the Union.

At the meetings at Munich in August-September 1964 it was decided that the International Committee for the Congresses of Applied Mechanics would dissolve as an independent body with the status of an adhering organization of the Union, and that it would be replaced by a standing Committee for International Congresses as an integral part of the organization of the Union.1

I

The objects of the International Union of Theoretical and Applied Mechanics are:

a) To form a link between persons and national or international organizations engaged in scientific work (theoretical or experimental) in mechanics or in related sciences;

b) To organize international congresses of theoretical and applied mechanics through a standing Congress Committee, and to organize other international meetings for subjects falling within the field of theoretical and applied mechanics 2;

c) To engage in other activities meant to promote development of mechanics, both theoretical and applied, as a branch of science.

II

The active organ of the International Union of Theoretical and Applied Mechanics is its General Assembly.

The General Assembly has power to decide all questions affecting the Union, including alteration of the statutes. On a specified question it may delegate this power to appropriate bodies.

The composition of the General Assembly is regulated in Article IV.
II A

a) The General Assembly establishes a standing Congress Committee which is responsible for the organization of international congresses of theoretical and applied mechanics at regular intervals.

b) The president of the Union shall also serve as president of the Congress Committee. The members of the Congress Committee are appointed by the General Assembly as scientists active in theoretical and applied mechanics who need not be members of the General Assembly.

c) The Congress Committee appoints a secretary, without stated term of office.

d) The rules of procedure of the Congress Committee shall be approved by the General Assembly.

III

Organizations occupied in scientific work in theoretical or applied mechanics (or national unions of such organizations) can be admitted by the General Assembly as adhering organizations of the International Union.

Each adhering organization shall have representatives in the General Assembly of the International Union, and pay an annual subscription to the Union in accordance with Article IX.

IV

The General Assembly of the International Union of Theoretical and Applied Mechanics is composed of:

a) Representatives of the organizations adhering to the Union;
b) Members elected by the General Assembly of the Union, who shall be persons actually engaged in scientific work in mechanics or in related sciences;
c) As decided by the General Assembly, representatives of Committees.

The number of elected members of the General Assembly of the same nationality in general should not exceed five. Exceptions can be made only by decision of the General Assembly. The term of each elected member shall be determined by the General Assembly at the time of his election.

The General Assembly shall provide for adequate representation of countries where important research is carried out in theoretical or applied mechanics, but where a national organization does not yet exist.

V

When voting is necessary every member of the General Assembly shall dispose of one vote. Any member who may be unable to attend a meeting may by a letter to the secretary constitute another member of the General Assembly as his proxy.

For ordinary decisions and for elections a simple majority of the votes brought forward is required. For an alteration of the statutes the majority required is 2/3 of the votes brought forward.

Between meetings of the General Assembly voting may be carried out by correspondence upon proposals made by the Bureau (section VII); in this case decisions will be valid only provided the number of persons taking part in the vote is not less than 2/3 of the total membership of the General Assembly.

VI

Meetings of the General Assembly will take place at times decided by the Bureau or on request of at least 10 members of the General Assembly.

VII

In order to carry out work between the meetings of the General Assembly, the latter appoints a Bureau, consisting of:

A president,
The retiring president, who shall serve as vice-president,
A secretary,
A treasurer,
And four other members of the General Assembly.

The members of the Bureau will be elected for a period of at most 4 years and will be eligible for re-election. Newly elected members of the Bureau enter into office on the date of November 1st, following the General Assembly at which they have been elected.

The Bureau will meet at least every year. A member of the Bureau who is prevented from attending a meeting may by a letter to the secretary designate another member of the General Assembly to replace him.

The function of the secretary will be to act as a permanent center for matters affecting the Union, including relations with adhering or outside organizations.

The legal domicile of the Union shall be the place where the secretary lives.
The Bureau is authorized to appoint assistant-treasurers in those countries where the Union has a bank account.

The assistant-treasurers must be members of the General Assembly but need not to be members of the Bureau.

VIII

The financial means of the Union are formed by:

a) the annual subscriptions of the adhering organizations;

b) gifts and grants.

The Union shall maintain a roll of benefactors on which shall be inscribed annually the names of those persons or institutions which have accorded gifts, legacies or other subventions to the Union.

The Bureau of the Union shall draft a budget for each coming year, and shall administer the finances. The Bureau shall submit an annual financial report to the members of the General Assembly.

The number of representatives of an adhering organization and the amount of the annual subscription to be paid by that organization will be regulated according to one of the following categories, as proposed by the adhering organization and after approval of the General Assembly of the Union:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of representatives</th>
<th>Units of annual subscription</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>II</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>III</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>IV</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>V</td>
<td>5</td>
<td>12</td>
</tr>
</tbody>
</table>

The amount of the unit annual subscription will be U. S. § 70 1 or its equivalent in local currency at the date of payment.

The Bureau of the Union shall be guided by the tradition of free international scientific cooperation which has been developed in the International Congresses for Applied Mechanics.

The French text of the statutes (of which the above is a translation) shall be considered to be the authoritative text.

1 Modification introduced after the vote of the General Assembly in Stresa (Italy) — September 1st, 1962.

E. Resolution of the General Assembly at Pallanza (June 27, 1950)

In confirmation of the views already expressed at the General Assembly of September 1948 when the present statutes were framed:

1. The General Assembly expects that in those countries where more than one national organization is active in theoretical and applied mechanics, a national coordinating committee will be formed. In general it is expected to recognize only one adhering body in each country;

2. The General Assembly believes that a gradual transition should be made in its composition, so that ultimately it will consist mainly of representatives of organizations adhering to the Union with the category of elected members reserved for exceptional and unusual cases. To this end it gives notice of its intention to reduce the number of elected members when the terms of the present elected members expire in 1952.

F. Rules of procedure 2 for the Congress Committee of IUTAM (September 4, 1964)

1. The Congress Committee meets at least once at every Congress.

2. The Congress Committee may appoint an Executive Committee to take all necessary actions on its behalf in the period between two successive Congresses, and to report to it at its next meeting. The Executive Committee will consist of the president, the secretary and one or more members appointed by the Congress Committee.

3. The actual organization of a Congress is delegated to a local Organizing Committee, elected by the host-country or host-organization, which is also responsible for publication of its Proceedings. The Organizing Committee will report to the Congress Committee either during or, if it sees fit, before the Congress which it organizes.

4. The Organizing Committee will obtain the approval of the Congress Committee (normally through the Executive Committee) with regard to all matters affecting the general policy of the Congress Committee, in particular with regard to:

4.1 the scope of the Congress;

4.2 the screening of papers for the Congress;

4.3 the selection of general lectures for the Congress;

4.4 the appointment of chairmen of sections of the Congress.

5. The Organizing Committee will levy a fee not exceeding § 1
on behalf of the International Union of Theoretical and Applied Mechanics, for administrative expenses, from all Congress members, in addition to the fee required for the Congress itself. The additional fees will be paid over to IUTAM immediately after the Congress.

G. Adhering Organizations and Members of the General Assembly
(as of December 31, 1966)

a) Adhering Organizations and Representatives:

1. The Royal Society (1948), Burlington House, London W 1 (UK)
   President: Prof. P. M. S. Blackett, C.H.
   Executive Secretary: Dr. D. C. Martin, C.B.E., The Royal Society, Burlington House, London W 1
   Representatives: Prof. G. K. Batchelor, F.R.S., Department of Applied Mathematics and Theoretical Physics, Silver Street, The University of Cambridge, Cambridge
   Prof. R. E. D. Bishop, Department of Mechanical Engineering, University College London, Gower Street, London WC 1
   Dr. D. Kühemann, C.B.E., F.R.S., Aeronautical Department, Royal Aircraft Establishment, Farnborough, Hants
   Prof. M. J. Lighthill, F.R.S., Imperial College, Prince Consort Road, London SW 7
   Prof. G. Temple, C.B.E., F.R.S., Mathematical Institute, 24—29 St. Giles, University of Oxford, Oxford

2. National Hungarian Committee for IUTAM of the Hungarian Academy of Sciences (1948), Budapest (Hungary)
   President: Prof. Dr. A. Geleji, Member of the Academy, Budapest, V., Néder utca 7
   Secretary: Prof. Dr. J. Szabo, Budapest, XI., Műegyetem rakpart 3
   Representative: Prof. Dr. A. Geleji

3. Comité National Français de Méchanique (1949), 55, boulevard Malesherbes, Paris VIIIe (France)
   President: Prof. H. Villat, 47, boulevard Auguste-Novéoli, Paris XIIIe
   Secretary-General: Prof. Maurice Roy, 55, boulevard Malesherbes, Paris VIIIe
   Representatives: Prof. Luc Gauthier, 14, rue de Lycée, Scéaux (92)
   Prof. Paul Gérard, 3, avenue de Champauger, Paris XVe
   Dr. Robert Legendre, 17, rue Massena, Paris XVIe
   Prof. Maurice Roy

   President: Dr. Ing. Jan Jerie, Konornická 27, Praha 6
   Representatives: Dr. Ing. Jan Jerie
   J. Kosmnik, Member of the Academy, Bureau of the President of the Czechoslovak Academy of Sciences, Národní 1f, Praha 1

5. The National Committee on Theoretical and Applied Mechanics of the Norwegian Academy of Science and Letters (1949), University of Oslo, Blindern, Oslo 3 (Norway)
   President: Prof. Enok Pahl, University of Oslo, Blindern, Oslo 3
   Representative: Prof. Enok Pahl

6. Consiglio Nazionale delle Ricerche (1949), Piazzale della Scienza, 7, Roma (Italy)
   President: Prof. Giovanni Polvani
   Secretary-General: Dr. Franco Bolla
   Representatives: Prof. Gustavo Colonnelli, Corso Mencabelli 62, Torino
   Prof. Bruno Finzi, Via Bonardi 3, Milano

7. Comité National de Mecanique Theorique et Appliquee de la Classe des Sciences de l'Academie Royale de Belgique (1949), Palais des Académies, Bruxelles (Belgium)
   Secretary: A. L. De Wanne, 16, Maasterlindstraat, Grand
   Representatives: Prof. P. Buckens, 3, av. des Héres, Héverlé-Louvain
   Prof. P. Van Espen, 542, avenue de la Couronne, Bruxelles 5
   Prof. F. Haus, 99, rue du Colonel Chaillet, Bruxelles 18

8. The U. S. National Committee on Theoretical and Applied Mechanics (1949), Applied Mathematics Laboratory, David Taylor Model Basin, Washington 7, D. C., 20007 (USA)
   Chairman: Dr. François N. Frenkiel, Applied Mathematics Laboratory, David Taylor Model Basin, Washington 7, D. C., 20007
   Vice-Chairman: Prof. Daniel C. Drucker, Division of Engineering, Brown University, Providence 12, Rhode Island, 02912
   Secretary: O. B. Schier, II, The American Society of Mechanical Engineers, 345 East 47th Street, New York, N. Y., 10017
   Representatives: Prof. G. P. Carrier, Pierce Hall, Harvard University, Cambridge, Massachusetts, 02138
   Prof. Daniel C. Drucker
   Dr. François N. Frenkiel
   Prof. Nicholas J. Hoff, Head, Department of Aeronautics and Astronautics, Stanford University, Stanford, California
   Prof. William Prager, University of California, P. O. Box 109, La Jolla, California, 92037
President: Direktør N. E. Holmblad, Det Stors Nordiske Telegraf-Selskab, Kgs. Nytorv 26–28, Copenhagen K
Secretary: Bjarne Lavesen
Representative: Prof. Frithiof Nielson, Technical University of Denmark, Rigensgade 13, Copenhagen K

10. Swedish National Committee for Mechanics (1950), The Royal Institute of Technology, Stockholm 70 (Sweden)
President: Prof. Folke K. G. Odqvist, The Royal Institute of Technology, Stockholm 70
Secretary: Dr. Janne Carlsson, Division of Strength of Materials, The Royal Institute of Technology, Stockholm 70
Representatives: Prof. Folke K. G. Odqvist
Prof. S. Berndt, The Royal Institute of Technology, Stockholm 70

11. The Turkish Society for Pure and Applied Mathematics (1950), c/o Dr. Nazim Teraoğlu, Fen Fakültesi, Istanbul (Turkey)

12. The Ministry of Education, Department of Science (1950; year of change of organization: 1957), Government of India, New Delhi (India)

13. Eidgenössische Technische Hochschule (1950), Leonhardstrasse 33, 8006 Zurich (Switzerland)
President: Dr. Jakob Burckhardt, Eidgenössische Technische Hochschule, Leonhardstrasse 33, 8006 Zurich
Secretary: Dr. Hans Boshardt, Krähenbühlstrasse 49, 8044 Zurich
Representatives: Prof. Dr. Hans Ziegler, Weiberweg 6, 8003 Käsiniken N.N.

14. Gesellschaft für Angewandte Mathematik und Mechanik (1950), Universität Hamburg, Institut für Angewandte Mathematik, 2 Hamburg 13, Rothenbaumchaussee 67/69 (Germany)
President: Prof. Dr. Dr. h. c. L. Collatz, Universität Hamburg, Institut für Angewandte Mathematik, 2 Hamburg 13, Rothenbaumchaussee 67/69
Secretary: Prof. Dr. F. Reuter, Technische Hochschule Aachen, 51 Aachen, Tempelgraben 55
Representatives: Prof. Dr. E. Becker, Technische Hochschule Darmstadt, 61 Darmstadt
Prof. Dr. H. Görler, 78 Freiburg i. Br., Hebelstrasse 40
Prof. Dr. E. Mettler, 75 Karlsruhe-Durlach, Geigersbergstrasse 12 N.N.

15. The Israel Academy of Sciences and Humanities (1952; year of change of the name of the organization: 1965), Jerusalem, P. O. Box 4040 (Israel)
President: Prof. Dr. A. Kadlucky
Representative: Prof. Dr. M. Reiner, Technion, Israel Institute of Technology, Haifa, P. O. Box 4910

President: Sr. Rafael Calvo
Representatives: Sr. Rafael Calvo, Presidente del INTA
Sr. A. Pérez-Marín, Director General del INTA

17. Die Österreichische Akademie der Wissenschaten (1951), Dr. Ignaz-Seipel-Platz 2, Wien, I. (Austria)
President: Prof. Dr. h. c. mult. Erich Schmid
Secretary-General: Prof. Dr. Fritz Knoll
Representative: Prof. Dr. Heinz Parkus, Technische Hochschule Wien, Karlplatz 13, Wien, IV.

18. The National Committee for Theoretical and Applied Mechanics of the Science Council of Japan (1951), Ueno Park, Tokyo (Japan)
President: Prof. Itiro Tani, Institute of Space and Aeronautical Science, University of Tokyo, Komaba, Meguro-ku, Tokyo
Representatives: Prof. Isao Inai, Department of Physics, Faculty of Science, University of Tokyo, Hongo, Bunkyo-ku, Tokyo
Prof. Itiro Tani
Prof. Masao Yoshiki, Department of Naval Architecture, Faculty of Engineering, University of Tokyo, Hongo, Bunkyo-ku, Tokyo

19. Yugoslav Society of Mechanics (1952; year of change of organization: 1960), 73, Beleva Revolucioni, P. O. Box 885, Belgrade (Yugoslavia)
Representatives: Prof. Dr. Ing. Anton Kuhelj, Institute of Mechanics, Lepa pt. 23, Ljubljana

20. Section for Mechanics of the Division of Applied Sciences of the Royal Institute of Engineers (1952; year of change of organization: 1957), Meikselweg 2, Delft (Netherlands)
President: Prof. dr. ir. J. F. Bensing, Meikselweg 2, Delft
Secretary: Prof. dr. ir. J. G. Lekkerkerker
Representatives: Prof. dr. ir. J. F. Bensing
Prof. dr. ir. J. O. Huiz, Rotterdamseweg 145, Delft
21. The Finnish National Committee on Mechanics (1952), The Institute of Technology, Helsinki (Finland)
    President: Prof. S. E. Stenij, The Institute of Technology, Kuolamanranta 28, Helsinki
    Representative: Prof. S. E. Stenij

22. The Polish Academy of Sciences (1952), Palace Kultury i Nauki, Warsaw (Poland)
    President: Prof. J. Grotowski
    Secretary-General: Prof. H. Jablonski
    Representative: Prof. M. Lunc, Palace Kultury i Nauki, Warsaw
    Prof. W. Nowak, Palace Kultury i Nauki, Warsaw
    Prof. W. Olszak, ul. Swiwokrzyska 21, Warsaw

23. USSR National Committee on Theoretical and Applied Mechanics (1956), Leningradskii prospekta 7, Moscow A-40 (USSR)
    President: Prof. N. I. Muskhelishvili, Georgian Academy of Sciences, ul. Dzerjinskii 8, Tbilisi
    Vice-President: Prof. L. L. Sedov, MGU, Zone U, app. 84, Moscow B-234
    Secretary: Prof. G. K. Mikhailov, Institute of Mechanics of the USSR Academy of Sciences, Leningradskii prospekta 7, Moscow A-40
    Representative: Prof. N. I. Muskhelishvili
    Prof. L. L. Sedov
    Prof. A. A. Ef'Yushin, Department of Mechanics and Mathematics, University of Moscow, Moscow B-234
    Prof. A. A. Nikolskii, Computing Center of the USSR Academy of Sciences, ul. Vavilova 28, Moscow B-333
    Prof. V. V. Sokolovskii, Institute of Mechanics of the USSR Academy of Sciences, Leningradskii prospekta 7, Moscow A-40

24. Institut de Mécanique Appliquée de l'Académie de la RPR. (1956), Bucarest (Romania)
    Representative: Prof. Elie Carafoli, Institut de Mécanique Appliquée, 15, rue Const. Mille, Bucarest

25. Physics Department, Faculty of Engineering of the University of Buenos Aires (1959) (Departamento de Fisica, Facultad de Ingeniería de la Universidad de Buenos Aires), Paseo Colon 850, Buenos Aires (Argentina)
    Director: Dr. Félix Cerruso
    Representative: Dr. Félix Cerruso

26. The National Research Council of Canada (1963), Ottawa 2, Ontario (Canada)
    President: Dr. B. G. Ballard · Secretary: Dr. J. D. Babbitt
    Representatives: Dr. W. D. Baines, University of Toronto, Toronto 5, Ontario
    Dr. J. Dubuc, Ecole Polytechnique, Montreal 26, Quebec
    Dr. P. J. Riemont, University of Toronto, Toronto 5, Ontario
    Dr. P. Savic, National Research Council, Ottawa 2, Ontario

27. The Australian National Committee for Theoretical and Applied Mechanics of the Australian Academy of Science (1964), Gordon Street, Canberra City, Australian Capital Territory (Australia)
    Chairman: Prof. H. S. Green, FAA, Department of Mathematical Physics, University of Adelaide, Adelaide, S.A.
    Secretary: J. D. Adele, Australian Academy of Science, Gordon Street, Canberra City, Australian Capital Territory
    Representative: Prof. H. S. Green

b) Members elected by the General Assembly for the period 1964—1968:
   Prof. J. Asher, Institut für Aerodynamik, Eidgenössische Technische Hochschule, Sonneggstrasse 3, Zürich 6 (Schweiz)
   Prof. J. M. Burgers, Institute for Fluid Dynamics and Applied Mathematics, University of Maryland, 4622 Knox Road, apt. 7, College Park, Maryland (USA)
   Prof. G. A. Cocco, Via Alessandro Toconia 25, Roma (Italia)
   Prof. H. Favre, Chaire de Mécanique, École Polytechnique Fédérale, Zurich 6 (Suisse) (Deceased on May 29, 1966)
   Prof. S. Goldstein, The Division of Engineering and Applied Physics, Pierce Hall, Harvard University, Cambridge 38, Massachusetts (USA)
   Prof. Y. H. Ku, University of Pennsylvania, 200 S 33rd Street, Philadelphia 4, Pennsylvania (USA)
   Prof. Kyrill Popoff, Boulevard Lenin 15a, Sofia (Bulgaria) (Deceased on May 1, 1966)
   Prof. W. Rubiszewicz, Hora 74/4, Warszawa (Pologne)
   Sir Richard V. Southwell, Imperial College, The Old House, Trumpters, Cambridge (UK)
   Sir Geoffrey Taylor, Farmfield, Huntington Road, Cambridge (UK)
   Prof. S. P. Timoshenko, Division of Engineering Mechanics, Stanford University, Stanford, California (USA)
   Prof. Waloddi Weibull, Bockamullan, Boxarp Station (Sweden)

   c) Committees of IUTAM represented in the General Assembly:
   1. Congress Committee of IUTAM (1964)
      Secretary: Prof. W. T. Koiter, Meekelweg 2, Delft (Netherlands)
      Representative: Prof. W. T. Koiter
H. Members of the Congress Committee of IUTAM

Prof. J. Ackeret, Institut fur Aerodynamik, Eidgenössische Technische Hochschule, Sonneggstrasse 3, Zürich 6 (Switzerland)

* Prof. G. K. Batchelor, Department of Applied Mathematics and Theoretical Physics, The University of Cambridge, Silver Street, Cambridge (UK)

Prof. J. M. Burgers, Institute for Fluid Dynamics and Applied Mathematics, University of Maryland, 4622 Knox Road, apt. 7, College Park, Maryland (USA)

Prof. A. Caquot, 1, rue Beethoven, Paris XVI* (France)

Prof. G. Colonnetti, Via Alessandro Volta 25, Como (Italy)

Prof. H. Favre, Chaire de Mécanique, Ecole Polytechnique Fédérale, Zurich 6 (Switzerland) (Deceased on May 29, 1966)

Prof. S. Goldstein, Division of Engineering and Applied Physics, Pierce Hall, Harvard University, Cambridge 38, Massachusetts (USA)

* Prof. H. Görtler, Albert-Ludwigs-Universität, Hebelstrasse 42, Freiburg i. Br. (Germany)

Prof. J. P. den Hartog, Massachusetts Institute of Technology, Room 3-282, Cambridge 39, Massachusetts (USA)

* Prof. W. T. Koiter, Meakelweg 2, Delft (Netherlands)

Prof. N. M. Muskhelishvili, Georgian Academy of Sciences, ul. Dzerjinskii 8, Tbilisi (USSR)

Prof. F. K. G. Odqvist, Konigl. Tekniska Högskolan, Stockholm 70 (Sweden)

Prof. K. Popoff, Boulevard Lenín 15a, Sofia (Bulgaria) (Deceased on May 1, 1966)

* Prof. M. Roy, 55, boulevard Maleherbes, Paris VIII* (France)

Prof. W. Rubinowicz, Hoza 74/6, Warszawa (Poland)

Prof. L. I. Sedov, Leningrad Road 7, Moscow D-40 (USSR)

Prof. H. Solfberg, Oslo University, Blindern (Norway)

Prof. I. Tani, Institute of Space and Astronautical Science, University of Tokyo, Komaba, Meguro-ku, Tokyo (Japan)

Sir Geoffrey Taylor, Fellowfield, Huntingdon Road, Cambridge (UK)

Prof. G. Temple, Mathematical Institute, 24—29 St. Giles, University of Oxford, Oxford (UK)

Prof. S. P. Timoshenko, Division of Engineering Mechanics, Stanford University, Stanford, California (USA)

Prof. W. Tollmien, Max-Planck-Institut für Strömungsforschung, Bötingerstrasse 6/8, Göttingen (Germany)

Prof. W. Weibull, Bodkarps, Bökarps Station (Sweden)

* Members of Executive Committee.

---

I. Bureau of the Union

The following members of the Bureau of IUTAM have been elected for the period November 1, 1964 — October 31, 1968:

President: Prof. M. Roy, 55, boulevard Maleherbes, Paris VIII* (France)

Vice-President: Prof. G. Temple, Mathematical Institute, 24—29 St. Giles, Oxford (UK)

Secretary: Prof. H. Görtler, Hebelstrasse 40, Freiburg i. Br. (Germany)

Treasurer: Prof. W. T. Koiter, Meakelweg 2, Delft (Netherlands)

Members:

Prof. N. J. Hoff, Department of Aeronautics and Astronautics, Stanford University, Stanford, Cal. (USA)

Prof. W. Olszak, ul. Swietokrzyska 21, Warszawa (Poland)

Prof. H. Parkus, Technische Hochschule, Karlplaz 13, Wien, IV. (Austria)

Prof. L. I. Sedov, MGU, Zone U, app. 84, Moscow B-234 (USSR)

---

J. IUTAM Symposium on Rotating Fluid Systems

There has recently been much activity on the dynamics of rotating fluids, especially in the context of geophysics. The suggestion to hold a Symposium was made by Dr. G. K. Batchelor at the Ninth General Assembly of IUTAM in 1964. The Symposium took place from 28th March to 1st April 1966 at the Institute of Geophysics and Planetary Physics of the University of California, San Diego, at the invitation of Professor W. H. Munk. The Scientific Committee for the Symposium, as approved by the Bureau of IUTAM, consisted of the following:

Prof. G. E. Carrie, Harvard University, Chairman

Dr. M. S. Longuet-Higgins, National Institute of Oceanography, England, and University of California, San Diego, Secretary

Prof. A. Eliassen, University of Oslo

Prof. H. Görtler, University of Freiburg im Breisgau

Academician M. A. Lavrentiev, Novosibirsk

Prof. J. W. Miles, University of California, San Diego

Dr. B. Saint-Gilly, Laboratoire d'Oceanographie, Paris

(Professors Görtler, Eliassen and Lavrentiev were unable to attend the Symposium.)
The local arrangements for the Symposium were in the hands of a small committee under the chairmanship of Professor Miles. The total number of participants was limited to 75 by the facilities available at the Institute of Geophysics. Participants were invited for their active interest in the subject, and were from ten different countries. Funds in support of travel expenses were generously made available by the U.S. National Science Foundation through a grant to the University of California. Generous support was also received from the Royal Society of London. To enable scientists from the USSR to attend, the U.S. State Department relaxed a long-standing restriction on Soviet scientists entering the San Diego area.

The topics for discussion at the Symposium were defined by the Scientific Committee under the following headings:
1. Steady flows in rotating fluids, including boundary flows and jets
2. Instabilities in [3]
3. Transient motions, and adjustment to steady states
4. Inertial oscillations and their stability
5. Planetary waves (Rossby waves), and gravity waves affected by rotation
6. Hydromagnetic phenomena in rotating fluids.

The emphasis was on the fundamental dynamics of rotating fluids, but applications, especially in the fields of meteorology, oceanography and geodynamotion, were welcomed. The conference was concerned with fluids in uniform or nearly uniform rotation, concentrated vortices having received special attention at a IUTAM Symposium in 1964.

45 research papers were accepted by the Scientific Committee. The time allotted for both presentation and discussion of a research paper varied from 15 to 60 minutes. In addition there were six invited introductory papers. The introductory survey by Professor M. J. Lighthill at the beginning of the Symposium deserves special mention.

A generally high quality of papers was preserved, and, as might be expected from the nature of the audience, some lively discussion took place. The Committee was confirmed in the view that this is a field of development and lively interest at the present time.

The following papers were presented at the Symposium:

**Monday 28th March (Chairman Prof. W. H. Monk)**

M. J. Lighthill, Imperial College, London. Dynamics of rotating fluids: a survey.
R. Hide, M.I.T., Cambridge, USA. Flows due to sources and sinks in a rotating fluid.
Thursday, 31st March (Chairman Dr. R. W. Stewart)

G. S. Golitsyn, Institute of Atmospheric Physics, Moscow. Rossby and internal waves in fast rotating fluids.


B. Machenhauer, University of Copenhagen. Travelling planetary waves.

M. Rattray, University of Washington, Seattle. Quasi-geostrophic free oscillations in enclosed basins.

N. P. Fofonoff, Woods Hole Oceanographic Institution. Lagrangian solutions of the Rossby-wave equations.


T. V. Davies, Stevens Institute of Technology, Hoboken, N.J., USA. Developments of Solberg's tidal theory.

W. Krauss, Institut für Meereskunde, Kiel. Spectra of internal waves in the range between 1/2 hour and the inertial period.

G. Chalot d'Hères, Laboratoire de Mécanique de Fluides, Grenoble. Réalisation sur modèle des marées dans les mers littorales.

Friday, 1st April (Chairman Prof. G. F. Carrier)

D. Fultz, University of Chicago. Introductory paper on inertial oscillations.


In accordance with the policy set forth by IUTAM, membership of the Symposium was limited and by invitation only. There were 57 participants from 15 countries. Financial support was provided by the Austrian Ministry of Education.

The purpose of the Symposium was to bring together leading scientists from the fields of Continuum Mechanics and Thermodynamics. Of these two fields which, in the past, have developed more or less independently, Continuum Mechanics has now reached a stage where further progress appears impossible without the inclusion of thermodynamic concepts. Emphasis was on the basic concepts in both fields, and not on applications. 25 papers were presented. Discussions were unusually lively and highly fruitful. Although unification of the two main schools of thought still seems to be a matter of the distant future, considerable progress has been made at the Symposium towards closing the gap.

The scientific program was as follows:

**Session 1 (Chairman: B. R. Sethi)**
L. I. Sedov: Variational methods of constructing models of continuous media
D. C. Drucker: On the continuum as an assemblage of homogeneous elements or states

**Session 2 (Chairman: U. Uhlhorn)**
H. Ziegler: A possible generalization of Onsager's theory
C. Truesdell: Thermodynamics for beginners

**Session 3 (Chairman: P. M. Naghdi)**
B. D. Coleman and M. E. Gurtin: Thermodynamics and wave propagation in nonlinear materials with memory
W. Olszak and P. Purzyca: On thermodynamics of the differential type material
S. Kaliski: The Gurevich generation of thermal waves for the wave equations of thermo-electro-magneto-elasticity

**Session 4 (Chairman: J. Kestin)**
E. T. Onat: On the notions of history and state in thermodynamics
J. Meixner: TIP has many faces

**Session 5 (Chairman: G. A. Klaassen)**
J. P. Beseling: A thermodynamic approach to rheology

**Session 6 (Chairman: A. M. Freundenthal)**
M. Reiner: The influence of dissipated stresswork on the rupture of materials
J. Kestin: On the application of the principles of thermodynamics to strained solid materials
R. S. Rivlin and A. E. Green: Thermodynamic basis for continuum mechanics

**Session 7 (Chairman: D. C. Drucker)**
W. Prager: Composite stress-strain relations for plastic solids
E. H. Lee and D. T. Liu: Finite strain elastic-plastic theory

**Session 8 (Chairman: J. Kestin)**
A. E. Green and P. M. Naghdi: A thermodynamic development of elastic-plastic continua
G. S. Shapiro: On the conditions of plasticity and failure for visco-elastic-plastic solids

**Session 9 (Chairman: S. Kaliski)**
A. M. Freundenthal and Maria Rosay: Accumulation of second order effects in dissipative solids
W. Nowacki: Couple- strains in the theory of thermoelasticity
J. D. Achenbach, S. M. Vogel, and G. Herrmann: On stress waves in viscoelastic media conducting heat

**Session 10 (Chairman: E. H. Lee)**
Yu. N. Rabonev: Kinetics of creep and creep retrace
U. Uhlhorn: Thermomechanics of a continuous system with internal structure
J. Halv: Phenomenological aspects of creep irreversibility

Proceedings of the Symposium will be published by Springer-Verlag, Vienna and New York.

H. Parkus (Chairman)
L. IUTAM Symposium on the Transfer of Physical Characteristics in Moving Fluids

The Symposium was held at the Technische Museum in Vienna on June 27-28, 1966, and was a natural continuation of the previous Symposium on "Irreversible Aspects of Continuum Mechanics".

The Scientific Committee of the Symposium appointed by IUTAM consisted of:

- Prof. L. I. Sedov, Moscow, Chairman
- Prof. H. Parkus, Vienna, Vice-Chairman
- Prof. S. R. Berndt, Stockholm
- Prof. S. R. de Groot, Amsterdam
- Prof. M. J. Lighthill, London
- Prof. M. Roy, Paris

The local arrangements were made by Professor H. Parkus. Financial support was provided by the Austrian Ministry of Education.

The following lectures were delivered in the session of the Symposium presided by Professors S. R. Berndt, N. Frössling, and M. J. Lighthill:

- P. N. Frenkel: Joint probability density distributions in a turbulent flow
- M. J. Lighthill: Application of variational methods in the nonlinear theory of dispersive wave propagation
- Yu. P. Lur'ën: Vibrational-disassociation relaxation in a multicomponent mixture of viscous heat-conducting gases
- V. N. Nikolaevskii: Transport phenomena in fluid-saturated porous media
- L. I. Sedov: On the problems of constructing new models in fluid and gas dynamics
- B. R. Sech: Irreversible transition in continuum mechanics
- J. Zemanek: On the influence of dynamics of the interface between a fluid and a gas (stream) on the transfer intensity.

A free and rapid discussion followed the presentation of the papers.

The papers presented at the Symposium will be published together with those of the previous Symposium on "Irreversible Aspects of Continuum Mechanics" in a common volume of the Proceedings of the IUTAM Vienna Symposia (Springer-Verlag, Vienna and New York).

L. I. Sedov (Chairman)
of the audience and the adequate accommodation of the meeting place ensured the discussions to be lively and informative.

The following papers were presented at the Symposium (* speaker):

**September 19, Monday morning (Chairman: M. J. Lightfoot)**

H. Görlicher * and W. Velto *, Universität Freiburg, Freiburg. Some general aspects of recent mathematically rigorous treatments of laminar flow and transition problems (review paper).

J. Tan, University of Tokyo, Tokyo. A review of some experimental results on boundary-layer transition (review paper).

J. J. Giesou, Karman Institute, Brussels. Instability of reattaching flows.

V. V. Stremlinsky, Academy of Sciences, Moscow. Studies on laminar-to-turbulent transition of gas flows.

**September 19, Monday afternoon (Chairman: H. W. Emmons)**

W. D. Criminale, Princeton University, Princeton. Stability of the boundary layer in the presence of free-stream turbulence (full-length paper).

H. Komoda, Nihon University, Tokyo. Nonlinear development of disturbance in a laminar boundary layer (full-length paper).

S. Kuwabara, University of Tokyo, Tokyo. Nonlinear instability of the plane Couette flow.

A. Roshko, California Institute of Technology, Pasadena. Transition in the near-wake of incompressible flows.

**September 19, Monday afternoon (Chairman: I. Imai)**

R. S. Faller, Imperial College, London. Centrifugal instability as a source of free turbulence (full-length paper).

A. J. Faller * and R. Kayhoe, University of Maryland, College Park. Instability of the Ekman spiral with applications to the planetary boundary layers (full-length paper).

D. K. Lilly, National Center for Atmospheric Research, Boulder. On the instability of Ekman boundary flow.

E. L. Moillot-Christensen, Massachusetts Institute of Technology, Cambridge. Experiments on instability and transition in an Ekman layer.

F. Schulze-Grunow, Technische Hochschule Aachen, Aachen. Stability of Couette flow with stabilizing centrifugal forces.

**September 20, Tuesday morning (Chairman: F. N. Freyropol)**


A. M. Yaglom, Academy of Sciences, Moscow. The cascade process of the breaking-down of eddies and probability distributions for small scale turbulent fluctuations (full-length paper).

**September 20, Tuesday morning (Chairman: G. K. Batchelor)**


J. Neumann, Hebrew University, Jerusalem. On the spectrum of isotropic turbulence.

P. G. Saffman, California Institute of Technology, Pasadena. New results on the statistical properties of the large eddies in homogeneous turbulence.


K. Kitajima, Kyushu University, Fukuoka. On the theory of shear flows.

T. Tatsuno, Kyoto University, Kyoto. Turbulence in a free boundary layer.

**September 20, Tuesday afternoon (Chairman: A. M. Yaglom)**


C. H. B. Priestley, C.S.I.R.O., Aspendale. Handover in scale of momentum flux, heat flux, etc. in the atmospheric boundary layer (review paper).

**September 20, Tuesday afternoon (Chairman: H. H. Lettau)**

J. A. Businger, University of Washington, Seattle. Dissimilarity between vertical transfer of momentum and heat in the atmospheric boundary layer.


K. Takeuchi, Japan Meteorological Agency, Tokyo. On the relationship between different correlation coefficients of the wind speed near the ground.


P. Queven, Université de Paris, Paris. Atmospheric turbulence resulting from a mountain perturbation in a steady airflow.

J. C. Kaimal and D. A. Hugen*, Air Force Cambridge Research Laboratories, Bedford. Vertical velocity spectral characteristics observed on a 450 m tower.

J. Pasquill, Meteorological Office, Bracknell. The vertical component of atmospheric turbulence at heights up to 1200 metres.


September 21, Wednesday morning (Chairman: A. Faure)

J. Sternberg, Martin Company, Baltimore. On the interpretation of space-time correlation measurements in a shear flow (full-length paper).

A. L. Kistler, Jet Propulsion Laboratory, Pasadena. Some properties of turbulent separated flows (full-length paper).

September 21, Wednesday evening (Chairman: J. Lauer)

J. E. Gerrard, University of Manchester, Manchester. The mechanics of the determination of the frequency of vortex shedding from bluff bodies.

T. Mineswa* and S. Mizuno, Hiroshima University, Hiroshima. The flow around the separation point of a circular cylinder.

O. H. Wehmann, Boeing Company, Seattle. The influence of vibrations on the flow field behind a cylinder.

E. Brouwer, Institut für Turbulenzforschung, Berlin. Contributions to the suppression of vortex shedding and turbulence behind oscillating bodies at low Reynolds numbers.


September 22, Thursday afternoon (Chairman: L. G. Loitsianski)


H. E. Craven, Geophysics Corporation of America, Bedford. Turbulent transfer processes for quasi-homogeneous flow within the atmospheric surface layer (full-length paper).

K. F. Bowles, University of Liverpool, Liverpool. Stability effects on turbulent mixing in tidal currents.

September 22, Thursday morning (Chairman: J. O. Hine)

U. Högström, Meteorologiska Institutionen, Uppsala. Turbulent water vapor transfer at different stability conditions (full-length paper).

J. W. Darderoff, National Center for Atmospheric Research, Boulder. Measured velocity and temperature statistics of turbulent thermal convection between horizontal plates (full-length paper).


P. J. Barry and R. E. Mann*, Meteorological Service of Canada, Toronto. The use of radioactive tracers in studying mass transfer in the atmospheric surface boundary layer.

September 22, Thursday afternoon (Chairman: F. Pasquill)


A. Okubo, Johns Hopkins University, Baltimore. A study of turbulent dispersion by use of Lagrangian diffusion equation.

G. T. Csanady, University of Waterloo, Waterloo. Concentration fluctuation in turbulent diffusion.

G. K. Bardelov, University of Cambridge, Cambridge. Longitudinal dispersion in turbulent flow.

E. E. O'Brien, State University of New York at Stony Brook, Stony Brook. Single point and relative diffusion in wall layers with nearly neutral stability.

September 22, Thursday afternoon (Chairman: G. Yamamoto)

Y. H. Pao, Boeing Company, Seattle. Turbulence in stratified fluids (full-length paper).


H. Chiang and J. E. Cermak*, Colorado State University, Fort Collins. Similarity of mean velocity distributions in thermally stratified shear flows.

R. Hide, Massachusetts Institute of Technology, Cambridge. An experimental and theoretical study of inertial effects in detached shear layers and Stewartson boundary layers in a rotating baroclinic fluid.

M. T. Landabé, Massachusetts Institute of Technology, Cambridge. A wave-guide model for turbulent shear flow.

A. Cray* and M. Darrigo, Université de Grenoble, Grenoble. The turbulence of a swirling jet.

M. S. Uberoi* and L. C. Garby, University of Colorado, Boulder. Effect of density gradients on jets and wakes.
September 23, Friday morning (Chairman: F. Schultz-Grämig)
L. S. G. Kovasznay, Johns Hopkins University, Baltimore. Structure of the turbulent boundary layer (review paper).
A. Favre* and J. Gavaggio, Université d’Aix-Marseille, Marseille. Structure of space-time velocity correlations in a boundary layer (full-length paper).

September 23, Friday morning (Chairman: Y. Ogura)
J. C. Rotta, Aerodynamische Versuchsanstalt, Göttingen. On the effect of streamwise wall curvature on compressible turbulent boundary layers (full-length paper).
T. J. Hancauty, University of Illinois, Urbana. Study of turbulence close to a solid wall (full-length paper).
Y. Furuya* and H. Fujita, Nagoya University, Nagoya. Effect of surface roughness on the velocity defect law.

September 23, Friday afternoon (Chairman: F. R. Hama)
G. M. Corcos, University of California, Berkeley. Turbulence near a boundary.
E. A. Ethelbronn, Université Laval, Quebec. Three-dimensional turbulent boundary layers with heat transfer at the wall.
D. T. Tritton, University of Newcastle Upon Tyne, Newcastle Upon Tyne. Correlation measurements and the large eddies of a turbulent boundary layer.
A. Walz, Technische Hochschule Karlsruhe, Karlsruhe. A new general law for the turbulent dissipation integral.
M. Ohji, Kyushu University, Fukuoka. A note on the statistical theory of wall turbulence.
W. W. Willmarth* and Bo Jiang Tu, University of Michigan, Ann Arbor. Structure of turbulence in the boundary layer near the wall.
W. Pfenniger, Northrop Corporation, Hawthorne. Some unexpected problems encountered in connection with boundary layer suction on swept wings.
D. Coles* and C. Van Atta, California Institute of Technology, Pasadena. Spiral turbulence.

September 23, Friday afternoon (Chairman: E. L. Mello-Cristofaro)
W. Tillmann, Max-Plank-Institut für Strömungsforschung, Göttingen. On the development of turbulence in the starting boundary layer at a concave wall (film).

T. Matsui, Gifu University, Gifu. Flow behind a rotating cylinder (film).
F. R. Hama, Jet Propulsion Laboratory, Pasadena. Transition in a boundary layer on a flat plate (film).
S. J. Kline* and W. C. Reynolds, Stanford University, Stanford. Structure of various portions of turbulent boundary layer (film).

September 24, Saturday morning (Chairman: K. F. Bowden)
D. J. Benney* and A. C. Newell, Massachusetts Institute of Technology, Cambridge. The statistical properties of the sea (full-length paper).

September 24, Saturday morning (Chairman: K. F. Bowden)
T. Ishiiye, Lamont Geological Observatory of Columbia University, Palisades. Features of the upper ocean boundary layer determined by dye diffusion experiments (full-length paper).
P. J. Bryant, University of Canterbury, Christchurch. Wind amplification of water waves.

E. B. Kraus, Woods Hole Oceanographic Institution, Woods Hole. Organized convection in the surface boundary layer of the ocean.
J. W. Miles, University of California, San Diego, La Jolla. Effects of surface films on air-sea interaction (presented by A. M. Wimbush).
W. J. Pierson, New York University, New York. Importance of the atmospheric boundary layer over the oceans in synoptic scale meteorology.

The allocations from the IUGG and the IUTAM were used to reimburse the participants for their travel expenses. In addition, generous financial support was provided from the U. S. National Academy of Sciences — National Research Council for assisting a certain number of invited participants from the United States as well as for the expenses in connection with publication of both the Abstracts and the Proceedings. This support made it possible to use the allocations from the IUGG and the IUTAM almost exclusively for assisting the participants from other countries. Financial support for the local arrangements was provided from the Science Council of Japan and some non-governmental organizations in Japan.

All participants and their companions were invited to a get-together reception on the evening of September 18 and to a dinner on the evening of September 22 at the Hotel International Kyoto, kindly given by the President of the Science Council of Japan. The afternoon of September 21 was spent on a tour of some places of historic interest in the old city of Kyoto.

The Proceedings of the Symposium will be published as a supplement to the journal "The Physics of Fluids" under the editorship of Prof. K. F. Bowden, Dr. F. N. Frenkkiel, and Prof. I. Tani. Jiro Tani (Chairman)
N. Publications of the Union

a) Annual Reports.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>available at the Secretariat</td>
<td></td>
<td></td>
<td>no more available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

b) By the Committee on Internal Damping Materials:


c) By the U.S. National Committee on Theoretical and Applied Mechanics:


d) By the Science Council of Japan, Ueno Park, Tokyo, Japan:


e) Publications on Symposia, etc.:

1. Problems of Cosmical Aerodynamics, Proceedings of the Symposium on the Motion of Gasous Masses of Cosmical Dimensions held at Paris, France, August 16—19, 1949, organized by IUTAM and IAU. Published by: Central Air Documents Office, Army-Navy-Air-Force, UB Building, Dayton 2, Ohio, USA. Copies can be obtained from the Secretary, U.S. National Committee on Theoretical and Applied Mechanics, Room 1101, 29 West 39th Street, New York 18, N. Y., USA, and from the secretariat of the Inter. Astronomical Union (address: University Observatory, Osterfeldgade 3, Copenhagen, Denmark).

---


3. Colloquium on Plastic Flow and Deformation within the Earth, Sunray, Pennsylvania, USA, September 12—14, 1950, organized by IUTAM and IUGG. Published by the American Geophysical Union in the "Transactions American Geophysical Union", vol. 32, no 4, pp. 497—543, 1951. A few copies can be obtained from the Secretary, American Geophysical Union, 1530, P. Street, N. W., Washington, D. C. (USA).


7. Colloquium on Photorelaxation and Photoelasticy (Bruxelles, Belgueme, 29—31 July 1954). Published by: Imprimerie D'Occre, Chaussee de Boondael, 602—602a, Ixelles-Bruxelles (Belgium).

8. Colloquium on Faragor (Stokholm, Sweden, 29—27 May 1955), organized by IUTAM. Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, West Berlin (Germany), 1956.

9. Colloquium on Deformation and Flow of Solids (Madrid, Spain, 26—30 September 1955), organized by IUTAM. Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, West Berlin (Germany), 1956.


13. Symposium on Non-Homogeneity in Elasticity and Plasticity (Warsaw, Poland, 2—9 September 1958), organized by IUTAM. Published by Pergamon Press, Ltd, 4 & 5 Fitzroy Square, London W1 (UK), 1959.


f) Proceedings of the International Congresses for Applied Mechanics. Until September 4, 1964 the organization of the International Congress for Applied Mechanics was supervised by the "International Committee for the Congresses of Applied Mechanics" and for each Congress separately entrusted to a local Organizing Committee undertaking also the publication of the Proceedings. Consequently, there is no central point from which Proceedings can be ordered, and for each volume, application must be made to the publishers who took care of that particular volume.

Since October 4, 1964 the same task will be fulfilled by the Standing Congress Committee of IUTAM, and local Organizing Committees to be established.

The titles of the volumes and the names of the publishing firms are given below.

1st Congress, Delft (Netherlands), 22—26 April 1924.

2nd Congress, Zürich (Switzerland), 12—17 September 1926.

3rd Congress, Stockholm (Sweden), 24—29 August 1932.


8th Congress, Istanbul (Turkey), 20—28 August 1952. Proceedings published by the Organizing Committee (Vol. I, Vol. II). Faculty of Sciences, University of Istanbul, P. O. Box 245, Istanbul (Turkey), 1953. Copies can be obtained on application from the Secretary of the Congress Committee, Prof. W. T. Koiter, Mekelweg 2, Delft (Netherlands).


---

**G. Payment of Annual Dues**

(as of 31 December 1966)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Hungary</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>France</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Czecho-Slovakia</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Norway</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Italy</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Belgium</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>USA</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Denmark</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Sweden</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Turkey</td>
<td>—</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>India</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Switzerland</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Germany</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Israel</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Spain</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Austria</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Japan</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Yugoslavia</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Poland</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Netherlands</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Finland</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Romania</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>USSR</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Argentina</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Canada</td>
<td>—</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Australia</td>
<td>—</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

---

**P. Bank Accounts of IUTAM**

Treasurer: Prof. W. T. Koiter, Mekelweg 2, Delft (Netherlands)

National Provincial Bank Ltd,
High Street Branch, Oxford, UK

Chemical Bank and Trust Company,
Brooklyn Branch, New York, N. Y., USA

Crédit Lyonnais,
20, boulevard Malesherbes, Paris, France,
Agence XB-453, N° de compte 718,025 F

N° 930417, R. Mees en Hope, Oude Delft 165,
Delft, Netherlands
Q. Donations in 1966

At the 3rd General Assembly of IUTAM it has been decided to publish every year a list of persons and institutions who rendered support to IUTAM during the course of the past year. The Bureau is pleased to publish the following list for the year 1966:

1. The German Research Association provided generous financial support to defray all expenses of the office of the Secretary of IUTAM in Freiburg i. Br.

2. Funds in support of travel expenses for participants of the "IUTAM Symposium on Rotating Fluid Systems" (La Jolla, California, March 28—April 1, 1966) were generously made available by the U.S. National Science Foundation through a grant to the University of California. Generous support was also received from the Royal Society of London.

3. Financial support for the "IUTAM Symposium on Irreversible Aspects of Continuum Mechanics" (Vienna, June 22—25, 1966) and for the "IUTAM Symposium on the Transfer of Physical Characteristics in Moving Fluids" (Vienna, June 27—28, 1966) was kindly provided by the Austrian Ministry of Education.

4. Financial support for the "Joint IUGG/IUTAM Symposium on Boundary Layers and Turbulence Including Geophysical Applications" (Kyoto, September 19—24, 1966) was generously provided by the U. S. National Academy of Sciences — National Research Council, and by the Science Council of Japan as well as by some non-governmental organizations in Japan.