INTERNATIONAL MATHEMATICAL UNION

Executive Committee

(1 January 1971 - 31 December 1974)

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Professor K. Chandrasekharan</td>
</tr>
<tr>
<td>Vice-Presidents</td>
<td>Professor Nathan Jacobson</td>
</tr>
<tr>
<td></td>
<td>Academician L.S. Pontrjagin</td>
</tr>
<tr>
<td>Secretary</td>
<td>Professor Otto Frostman</td>
</tr>
<tr>
<td>Members</td>
<td>Professor M.F. Atiyah</td>
</tr>
<tr>
<td></td>
<td>Professor Y. Kawada</td>
</tr>
<tr>
<td></td>
<td>Professor N.H. Kuiper</td>
</tr>
<tr>
<td></td>
<td>Academician M. Nicolescu</td>
</tr>
<tr>
<td>Past President</td>
<td>Professor H. Cartan</td>
</tr>
</tbody>
</table>
REPORT OF THE 33RD MEETING OF THE EXECUTIVE COMMITTEE

Hotel zum Storchen, Zürich, March 7-8, 1974

All members of the Executive Committee were present at the meeting.

Approval of Reports.

The financial report for 1973 that had been sent out in advance to the members of the E.C. was approved. The Auditor's remark about prepaid dues (see below) was noted for future guidance. The scientific activities of the Union in 1973 and in 1974 until January, reported on below, were discussed. Reference was made to the reports, already published in the IMU Bulletin, No. 5, on the Bombay Colloquium in January 1973 and on the Tokyo Conference in April 1973.

International Colloquium on Infinite and Finite Sets, Keszthely, Hungary,

The Colloquium was organized by the Bolyai János Mathematical Society, Budapest, and co-sponsored by IMU. There were 218 participants from the following countries: Australia 3, Austria 4, Canada 9, Czechoslovakia 11, Denmark 3, Fed.Rep. of Germany 5, France 16, German Dem. Rep. 3, Hungary 94, Iran 2, Mexico 2, Netherlands 2, Poland 4, Portugal 1, Switzerland 2, UK 9, USA 41, USSR 2, Yugoslavia 5. Further ref.: IMU Bulletin, No. 4, p. 4.
List of addresses by invited speakers in Appendix A.


The Symposium was organized by the University of Cambridge and co-sponsored by IMU and the Royal Society, London. There were 92 participants from the following countries: Australia 1, Belgium 2, Denmark 2, Fed. Rep. of Germany 1, France 7, Italy 3, Netherlands 6, Switzerland 3, UK 56, USA 10, Yugoslavia 1. Further ref.: IMU Bulletin, No. 4, p. 4.
For the detailed scientific programme, see Appendix B.

Second International Conference on the Theory of Groups, Canberra, Australia,

The Conference took place at the Australian National University in Canberra, and it was jointly sponsored by the University, the Australian Academy of Science and IMU. The Chairman of the Organizing Committee was Professor B.H. Neumann and the IMU representatives on this Committee were Professors A.A. Albert and J.G. Thompson and, after the death of Professor Albert, Professor N. Jacobson. There were 127 participants from the following countries: Australia 75, Canada 6, Fed. Rep. of Germany 3, India 2, Israel 2, Japan 2, Lesotho 1, New Zealand 2, Papua New Guinea 1, Singapore 1, Switzerland 2, UK 11, USA 16, USSR 3.
For the titles of invited lectures, see Appendix C.

The Conference was organized by the Stefan Banach International Mathematical Center i Warsaw and co-sponsored by IMU and the Polish Academy of Sciences. IMU paid contributions to the travel expenses of a few of the invited foreign speakers. There were 36 foreign and 54 Polish participants.

Only half-hour lectures by invitation were given; they are listed in Appendix D.


The E.C. received a proposal from Japan to hold this Symposium on the same lines as the first one held in Moscow in December 1972, on the initiative of IMU. The E.C. felt that having started this kind of interdisciplinary activity, encouraged by ICSU, it would be proper to continue it. Although, technically, the Symposium fell within the purview of the new Executive Committee, the timing required action right now. Accordingly, it was decided that, on condition that IMU would be the principal sponsoring Union and that the grant would be payable in the calendar year 1975, a sum of $3,000 be allocated for the Symposium. This sum should be included in the request to ICSU for 1975. It was further resolved to nominate Professor D. Ruelle (IHES, France) and Academician V.S. Vladimirov (Moscow) as IMU's representatives on the Organizing Committee.

IMU Fellowship.

The E.C. decided to recommend to the General Assembly to create an IMU Fellowship Fund of $8,000 for the four-year period 1975-78, and to publicize this initiative at the General Assembly, through the National Committees and by announcements in mathematical Journals. The Fund should be open to contributions from outside.

Exchange Commission.

The E.C. decided that the present Exchange Commission could handle a proposal for exchange meant to take place early in 1975.

ICMI.

The President of ICMI had made a request for a grant of $2,000 for a Regional Symposium in India in 1975 (on curricula in Secondary Schools). These problems being important in that part of the world and IMU's support no doubt producing much bigger grants from other sources, the E.C. was in favour of the proposal. A final decision would be made when more information about time and place was obtained.

(i) Consultative Committee. The President reported that the Consultative Committee had completed its work in September 1973, and read out a summary report from its Chairman giving the structure of the programme. The President had already expressed the Union’s thanks to the Consultative Committee for having accomplished a difficult task in an efficient way at no great expense.

The E.C. resolved that the present system of preparing the scientific programme of future International Congresses, first applied for the Stockholm Congress 1962, should continue. The E.C. further adopted a Resolution, to be sent to all National Committees for Mathematics, requesting that National Committees should do their utmost to ensure the participation in the ICM 1974 in Vancouver of the mathematicians from their respective countries who have been invited by the Organizing Committee to give hour-addresses or specialized lectures. The Resolution also asks for cooperation of National Committees, especially in keeping the E.C. informed of mathematical developments, and related matters, in the countries concerned.

(ii) Travel grants to young mathematicians. The Secretary reported that a large number of applications had already arrived, both from members and non-members of the Union. The E.C. appointed a Sub-Committee to allocate the grants.

World Directory of Mathematicians.

The Secretary reported that the work on the printing of the 5th edition of the WDM was going ahead as planned, possibly with some delay and overstepping of estimated costs because of defects in the material received from the National Committees. The E.C. resolved that

(i) an edition of 2.000 copies will be printed;

(ii) the price will be US $ 10.00 a copy until the end of 1974, and US $ 12.50 from January 1, 1975 onwards.

Financial questions.

1. The Committee on Dues (IMU Bulletin, No. 5, p. 6) had made a report, unanimously recommending that the dues be fixed in Swiss Francs. The E.C. held a detailed discussion on the urgent need for increasing the Union’s income, barely to keep its scientific activities going, as against the rapidly rising costs of transportation, printing, postage, etc. The E.C. resolved to recommend to the General Assembly

(i) to fix the unit of annual subscription at 600.00 Swiss Francs;
(ii) to maintain five Groups of Adherence for members as hitherto, without any change in the number of votes assigned to members;

(iii) to fix anew the number of units of annual subscription, to be paid by members in each Group, as follows:

<table>
<thead>
<tr>
<th>Group</th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of votes</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Number of units</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>7</td>
<td>12</td>
</tr>
</tbody>
</table>

(iv) to make the necessary modifications of the Statutes in order to carry out (i), (ii) and (iii), including the deletion of the words "and fixed in gold weight" in § 15 of the Statutes.

II. The E.C. resolved to request the members of the Union, by postal ballot in advance of the General Assembly, to agree to a withdrawal of a sum not exceeding $10,000 from the Union's reserves to meet the expenditure in 1974. Members should observe that no provision is made in the four-year Budget, established by the General Assembly at Menton in 1970, for (i) the ICM 1974, (ii) the IMU Fellowship, (iii) the General Assembly at Harrison Hot Springs, (iv) the World Directory of Mathematicians.

**General Assembly**

(i) The E.C. noted the items that had been proposed by various members of the Union for discussion at the General Assembly. It was intended that, in each case, the Proposer would be given an opportunity to introduce the subject, and after a short discussion in the Assembly, the matter might be discussed in greater detail within an appropriate Working Group appointed by the Assembly.

(ii) The E.C. also discussed the proposals for amendments of the Statutes that had arrived in due time.

(iii) The Agenda for the General Assembly and slates for Commissions and Committees were discussed.

**ICSU—UNESCO Relations.**

The E.C. resolved to oppose the proposed "grouping" of Unions for the purpose of determining the basic annual allocation to the Unions from the ICSU—UNESCO subvention, since this would result in a reduction of the present grant to IMU of $8,750, which had already been eroded in value by inflation and dollar-devaluation.

**New Member.**

It was reported that the members of IMU had approved, by postal ballot, the admittance of Nigeria as a new member, Group I, effective January 1, 1974.
Change of Group of Adherence.

It was reported that the members of IMU had approved, by postal ballot, the change of the group of Japan from IV to V, effective January 1, 1974.

MEMBERS OF IMU

The following 42 countries were members of the Union on January 1, 1974:

Group I  Argentina, Brazil, China-Taiwan, Cuba, Greece, Iceland, Ireland, Mexico, New Zealand, Nigeria, North Korea, Norway, Portugal, South Africa, Turkey;

Group II  Austria, Bulgaria, Denmark, Finland, Israel, Pakistan, Rumania, Spain, Yugoslavia;

Group III Australia, Belgium, Canada, Czechoslovakia, German Democratic Republic, Hungary, India, the Netherlands, Sweden, Switzerland;

Group IV  Federal Republic of Germany, France, Italy, Poland;

Group V  Japan, UK, USA, USSR.

This membership corresponds to a total voting strength of 99 and an income from dues in 1974 of US $ 14,996.00 (equivalent to 115 units). This means an increase of 2 votes and 4 units since January 1, 1973 (1 vote each for Japan and Nigeria and 3 units from Japan and 1 unit from Nigeria).
FINANCIAL REPORT
for the period January 1 to December 31, 1973.

1. INCOME
The Union had the following three sources of income during the year:
A Dues from the member nations;
B UNESCO/ICSU contribution;
C Interest on Bank Accounts.

A. During the financial year 1973, dues were paid at the

(i) Chase Manhattan Bank by

<table>
<thead>
<tr>
<th>Country</th>
<th>Quarter</th>
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</thead>
<tbody>
<tr>
<td>Argentina</td>
<td>I</td>
</tr>
<tr>
<td>China-Taiwan</td>
<td>I</td>
</tr>
<tr>
<td>Denmark</td>
<td>II</td>
</tr>
<tr>
<td>DDR</td>
<td>III</td>
</tr>
<tr>
<td>Great Britain</td>
<td>V</td>
</tr>
<tr>
<td>Greece</td>
<td>I</td>
</tr>
<tr>
<td>India</td>
<td>III</td>
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<tr>
<td>Ireland</td>
<td>I</td>
</tr>
<tr>
<td>Israel</td>
<td>II</td>
</tr>
<tr>
<td>Japan</td>
<td>IV</td>
</tr>
<tr>
<td>Nigeria</td>
<td>I</td>
</tr>
<tr>
<td>Poland</td>
<td>IV</td>
</tr>
<tr>
<td>Portugal</td>
<td>I</td>
</tr>
<tr>
<td>South Africa</td>
<td>I</td>
</tr>
<tr>
<td>Spain</td>
<td>II</td>
</tr>
<tr>
<td>USA</td>
<td>V</td>
</tr>
</tbody>
</table>

Total US $  6,031.40

(ii) Swiss Credit Bank by

<table>
<thead>
<tr>
<th>Country</th>
<th>Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>III</td>
</tr>
<tr>
<td>Austria</td>
<td>II</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>I</td>
</tr>
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<td>BRD</td>
<td>IV</td>
</tr>
<tr>
<td>Hungary</td>
<td>III</td>
</tr>
<tr>
<td>Japan</td>
<td>IV</td>
</tr>
<tr>
<td>Netherlands</td>
<td>III</td>
</tr>
<tr>
<td>Rumania</td>
<td>II</td>
</tr>
<tr>
<td>Sweden</td>
<td>III</td>
</tr>
<tr>
<td>Switzerland</td>
<td>III</td>
</tr>
<tr>
<td>USSR</td>
<td>V</td>
</tr>
<tr>
<td>Yugoslavia</td>
<td>II</td>
</tr>
</tbody>
</table>

Total Sw.Fr. 17,830.85
(iii) Swedish Postal Giro Account by
Belgium III 1971 rest and 1972
Brazil I 1972 and 1973
Canada III 1973
Cuba I 1973
Finland II 1973
France IV 1973
Italy IV 1972 rest and 1973
New Zealand I 1973
North Korea I 1972 rest and 1973 part
Norway I 1973
Portugal I 1972 part
Sweden III 1973 part
Yugoslavia II 1972 rest, 1973 and 1974 part

Total income from membership dues in 1973:

(i) US Dollars € 6,031.40
(ii) Swiss Francs 17,830.85 € 5,572.14
(iii) Swedish Crowns 20,527.41 " 4,633.68

€ 16,237.22

(Ex. € 1.00 = Sw.Fr. 3.20 = Belg.Fr. 39.50 = Sw.Cr. 4.43).

Subscriptions were due from the following countries at the end of 1973:

1966: Mexico (part)
1967-1969: Mexico
1970-1971: Mexico, Pakistan and Turkey
1972: Mexico, Pakistan, Turkey and USSR (part)
1973: Belgium, Bulgaria *), Iceland *), Mexico, North Korea (rest), Pakistan and Turkey.


B. UNESCO/ICSU contribution 1973 € 10,750.--
Balance 1971 - 1972 " 3,586.75

€ 14,336.75

C. Interest on Bank Accounts:
Swiss Credit Bank (private a/c)
Sw.Fr. 2,015.40 € 629.81
Banque Degroof
Belg.Fr. 24.- " 0.61 € 630.42
The total income received during the year 1973 was:

A. Membership dues $16,237.22
B. UNESCO/ICSU subvention + balance $14,336.75
C. Interest on Bank Accounts $630.42

$31,204.39

2. EXPENDITURE

A. Actual expenditure in 1973 compared with the amounts authorized by the Sixth General Assembly (Schedule A of the budget)

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<thead>
<tr>
<th>Authorized</th>
<th>Actual</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>1.a) Secretarial help, IMU office 2,750.00</td>
<td>1,006.23</td>
<td>1,743.77</td>
</tr>
<tr>
<td>b) Secretarial help, President 300.00</td>
<td>—</td>
<td>300.00</td>
</tr>
<tr>
<td>c) ICMI 300.00</td>
<td>300.00</td>
<td>—</td>
</tr>
<tr>
<td>d) CST 200.00</td>
<td>200.00</td>
<td>—</td>
</tr>
<tr>
<td>2. Office expenses (incl. postage) 800.00</td>
<td>1,610.96</td>
<td>— 810.96</td>
</tr>
<tr>
<td>3. Travel expenses of the E.C. 4,000.00</td>
<td>5,689.37</td>
<td>— 1,689.37</td>
</tr>
<tr>
<td>4. President’s and Secretary’s expenses 300.00</td>
<td>607.36</td>
<td>— 307.36</td>
</tr>
<tr>
<td>5. Contribution to ICSU (2 1/2% of dues) 300.00</td>
<td>313.71</td>
<td>— 13.71</td>
</tr>
<tr>
<td>6. Publication and Dissemination of the IMU Bulletin 300.00</td>
<td>450.01</td>
<td>— 150.01</td>
</tr>
<tr>
<td>7. Audit fee 100.00</td>
<td>135.44</td>
<td>— 35.44</td>
</tr>
<tr>
<td>8. Contingencies 850.00</td>
<td>87.50</td>
<td>762.50</td>
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<tr>
<td>10,200.00</td>
<td>10,400.58</td>
<td>2,806.27 3,006.85</td>
</tr>
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</table>

B. Scientific activities of the Union and its Commissions and Committees (including ICMI, Exchange, Colloquia, Symposia, Conferences. IMU Fellowship, Lectureships)

<table>
<thead>
<tr>
<th>Authorized</th>
<th>Actual</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>6,000.00</td>
<td>11,186.70</td>
<td>—</td>
</tr>
</tbody>
</table>

$16,200.00 21,587.28 2,806.27 8,193.55
C. Details of expenditure under UNESCO/ICSU/IMU Grant (Schedule B of the budget)

(i) UNESCO/ICSU Grant

International Symposium in Bombay, January 1973 (rest) $ 1,553.92
International Colloquium on Infinite and Finite Sets in Hungary, June 1973 (part) $ 1,782.83
International Geometry Symposium in Cambridge, July 3-10, 1973 $ 2,000.00
The Second International Conference on the Theory of Groups in Australia, Canberra, August 13-24, 1973 $ 7,000.00
IMU Fellowship $ 2,000.00 $ 14,336.75

(ii) IMU Grant

Mathematical-Physical Conference in Moscow, December 12-19, 1972 $ 998.23
International Colloquium on Infinite and Finite Sets in Hungary, June 1973 (part) $ 210.39
International Conference on Manifolds and Related Topics in Topology in Tokyo, April 1973 $ 5,956.60
IMU Lectures $ 2,000.00
Exchange Commission $ 289.69
Consultative Committee $ 1,731.79 $ 11,186.70

TOTAL EXPENDITURE

a) under IMU Budget (Schedule A) $ 10,400.58
b) under IMU Budget (Schedule B) $ 11,186.70
c) under UNESCO/ICSU (Schedule B) $ 14,336.75

Total $ 35,924.03

Total income 1973 $ 31,204.39
Total expenditure 1973 $ 35,924.03

Deficit $ 4,719.64

<table>
<thead>
<tr>
<th></th>
<th>$</th>
<th>Sw.Fr.</th>
<th>Belg.Fr.</th>
<th>Sw.Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>a) 1. Bank balance in current a/c on 1.1. 1973</strong></td>
<td>193.98</td>
<td>52.934.70</td>
<td>18.755.00</td>
<td>3.936.61</td>
</tr>
<tr>
<td>2. In a private a/c with Swiss Credit Bank</td>
<td></td>
<td>88.589.63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Add.: Receipts during 1973</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Membership dues</td>
<td>6.031.40</td>
<td>17.830.85</td>
<td>20.527.41</td>
<td></td>
</tr>
<tr>
<td>2. UNESCO/ICSU Grant</td>
<td>34.722.50</td>
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</tr>
<tr>
<td>3. Interest on Bank a/c</td>
<td>2.015.40</td>
<td>24.00</td>
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<td></td>
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<tr>
<td>4. Inter Bank Transfer</td>
<td>6.000.00</td>
<td></td>
<td></td>
<td>2.732.00</td>
</tr>
<tr>
<td>5. Cheque exchange</td>
<td></td>
<td></td>
<td></td>
<td>27.707.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>12.225.38</td>
<td>196.093.08</td>
<td>18.779.00</td>
<td>54.903.02</td>
</tr>
</tbody>
</table>

| **b) Expenditure** | | | | |
| 1. a) Secretarial help, IMU office | | 410.00 | | 3.890.00 |
| b) Secretarial help, President | | | | |
| c) ICMI | 300.00 | | | |
| d) CST | 200.00 | | | |
| 2. Office expenses (incl. postage) | 15.40 | 1.886.27 | | 4.457.07 |
| 3. Travel expenses of the E.C. | 39.00 | 8.360.98 | | 13.456.26 |
| 4. President's and Secretary's expenses | | 188.50 | | 2.429.65 |
| 5. Contribution to ICSU (2 1/2% of dues) | | 313.71 | | |
| 6. Publication and Dissemination of the IMU Bulletin | | | | 1.993.55 |
| 7. UNESCO/ICSU (Schedule B) | 8.321.15 | 17.736.40 | | 1.153.97 |
| 8. IMU Grants (Schedule B) | 2.601.00 | 10.007.00 | | 24.181.08 |
9. Audit fee 280.00
   10. Contingencies 19.220.00
   11. Inter Bank Transfer 19.900.00
   12. Cheque exchange
                    11.790.26
                    77.989.15
                    52.161.58
   Balance 435.12 118.103.93 18.779.00 2.741.44


<table>
<thead>
<tr>
<th></th>
<th>$</th>
<th>Sw.Fr.</th>
<th>Belg.Fr.</th>
<th>Sw.Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>In current account</td>
<td>435.12</td>
<td>27.512.90</td>
<td>18.779.00</td>
<td>2.741.44</td>
</tr>
<tr>
<td>In private account</td>
<td></td>
<td>90.591.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net assets</td>
<td>435.12</td>
<td>118.103.93</td>
<td>18.779.00</td>
<td>2.741.44</td>
</tr>
</tbody>
</table>

THE CHASE MANHATTAN BANK

Reconciliation Statement as on December 31, 1973.

Balance as per Bank Statement as on 31.12.1973 $ 856.27

Less: Cheque issued but not presented as on 31.12.1973:

In favour of Hungarian National Bank $ 421.15

$ 435.12

SWISS CREDIT BANK

Reconciliation Statement as on December 31, 1973.

Balance as per Bank Statement as on 31.12.1973 Sw.Fr. 125.090.93

Less: Cheque issued but not presented as on 31.12.1973:

In favour of E. Brieskorn Sw.Fr. 927.00

In favour of César Camacho 6.060.00

Sw.Fr. 6.987.00

Sw.Fr. 118.103.93

Prepared by:
Otto Frostman
Secretary
International Mathematical Union

Audited with the qualification that prepaid dues amounting to $ 1,361.80 are posted as income instead of debt.

Bo Lillieström-Tjus
Authorized Public Accountant
Appendix A.

International Colloquium on Infinite and Finite Sets

Yu. A. Archangelskij (USSR): Application of infinite series in solving the Euler-Poisson equations.

J. Baumgartner (USA): Ineffability properties of cardinals I.

C. Berge (France): Coloring hypergraphs.

N.G. de Bruijn (The Netherlands): Set theory with type restrictions.

L. Bukovsky (Czechoslovakia): Strong partition relations, iterated ultrapowers and the distributivity in Boolean algebras.

K. Devlin (UK): A generalization of Martin's axiom.

F. Galvin (USA): A elementary proof of \( \omega, \rightarrow (\alpha^2) \).

R.L. Graham (USA): Ramsey theorems for graphs using many colors.


Z. Hedrlin (Czechoslovakia): Results different in finite and infinite algebra.

D. Kleitman (USA): Some new results on Dedekind problems.

D. Kurepa (Yugoslavia): On the system of all maximal chain (antichain) of a graph.

Jean Larson (USA): Partition theorems for certain ordinal products.

R. Laver (USA): On the consistency of Borel's conjecture.

E.C. Milner (Canada): Denumerable partition relations.

C.St.J.A. Nash-Williams (UK): Transversalt of infinite set systems.

A. Pultr (Czechoslovakia): Big cardinals and some problems of representations of categories.

R. Rado (UK): Anti-Ramsey theorems.


E. Specker (Switzerland): Combinatorial problems.

J. Spencer (USA): Nonconstructive methods in combinatorics.

E. Strauss (USA): Some combinatorial theorems in Euclidean geometry.

A.A. Zykov (USSR): Färbungen und Zusammenziehungen von Hypergraphen.

Appendix B.

International Geometry Symposium

Shortly before the Symposium Professor P.R. Deligne (France) had succeeded in proving the celebrated Weil Conjectures; the Symposium decided to hear six lectures from Deligne on the subject. In addition the Symposium profited by I.M. Gelfand's visit to England; although the Symposium was not part of Gelfand's official programme, he stayed in Pembroke and had much contact with the participants, who were able to attend two formal public lectures by Gelfand and two informal evening meetings intended for a more restricted company.
The remaining speakers were:

M.F. Atiyah (UK): The work of Sir William Hodge and its importance for geometry today.
E. Bombieri (Italy): Complex surfaces without curves.
R. Bott (USA): Foliations and Gelfand-Fuchs cohomology.
N. A'Campo (France): The topology of the monodromy map.
P.A. Griffiths (USA): Homotopy type of Kähler manifolds.
N. Katz (USA): Congruences of modular forms modulo $p^n$.
G. Lusztig (UK): Representation theory of $GL_n$ over finite fields.
B. Mazur (USA): Isogenies of elliptic curves over $Q$.
D. Mumford (USA): Mixed Hodge structures and boundaries of moduli spaces.
G. Segal (UK): Nishida's proof of the nilpotence of stable homotopy.
I.M. Singer (USA): Spectral asymmetry and Riemannian geometry.

Appendix C.

Second International Conference on the Theory of Groups

S.I. Adjan (USSR): On periodic groups of odd exponent.
R. Baer (Switzerland): Imbedding relations of normal subgroups: the conclusion from the finite to the infinite.
G. Baumslag (USA): Finitely presented metabelian groups.
W.W. Boone (USA): Between logic and group theory.
R. Brauer (USA): On the structure of blocks of characters of finite groups.
R.A. Bryce (Australia): Metabelian varieties of groups.
P.J. Cossey (Australia): Classes of finite soluble groups.
M. Herzog (Israel): The influence of 2-Sylow intersections on the structure of finite simple groups.
D.G. Higman (USA): Rank 4 configurations.
G. Higman (UK): Non-simplicity criteria for finite groups.
M.I. Kargapolov (USSR): Some questions about soluble groups.
O.H. Kegel (UK): Simple locally finite groups.
A.I. Kostrikin (USSR): Some questions related to the theory of groups and Lie algebras.
R.C. Lyndon (USA): Non-euclidian crystallographic groups.
W. Magnus (USA): Braid groups.
J. McKay (Canada): Computation in finite simple groups.
B.H. Neumann (Australia): Some groups I have known.
P.M. Neumann (UK): Permutation groups of prime degree.
E.E. Shult (USA): Geometric characterizations of doubly transitive groups.
Appendix D.

International Conference on Mathematical Questions of Optimal Control Theory

H. Berliocchi (France): An Abstract Relaxation Theorem.
P. Brunovsky (Czechoslovakia): Local Controllability of Positionally Symmetric Systems.
P. Charrier (France): Degeneracy of Linear Discrete Systems with Lags and Applications to Control Theory.
M.H.A. Davis (England): A Note on the Poisson Disorder Problem.
J. Dolezal (Czechoslovakia): Open-Loop and Closed-Loop Equilibrium Games.
G.S. Goodman (Italy): The Convergence of Convex Sets and the Property Q in Infinite Dimensional Spaces.
H. Hermes (USA): On Local Controllability.
M. Jacobs (USA): Optimum Settling Problems and Controllability for Functional Differential Equations of Neutral Type.
J.P. Kernevez (France): Identification of a Biochemical System.
R. Kluge (GDR): Approximation Methods for the Solution of Nonlinear Problems with Constraints of the Type of Variational Inequalities.
S. Lojasiewicz Jr. (Poland): A Uniqueness Condition for Optimal Solutions for Control System.
K. Malanowski (Poland): Certain Method at convex Programming and Applications to Optimal Control with State Constraints.
A. Pliš (Poland): Convexity of Accessible Sets in Control Theory.
G. Szefer (Poland): Optimal Control of Consolidation Process.
C. Ursescu (Rumania): Tangent Sets and Differentiable Functions.

Beside lectures by invitation several informal seminars were held. Proceedings of the Conference will be published.