

COUNCIL MEETING

April 5 - 7, 1972 – Vienna, Austria

TABLE OF CONTENTS

COUNCIL MEETING ATTENDANCE

1. OPENING OF MEETING
2. READING AND APPROVAL OF MINUTES
3. OFFICER REPORTS
 - 3.1 PRESIDENT
 - 3.2 SECRETARY
 - 3.3 TREASURER
4. TECHNICAL COMMITTEES AND IAG
 - 4.1 TC 1 TERMINOLOGY
 - 4.2 TC 2 PROGRAMMING
 - 4.3 TC 3 EDUCATION
 - 4.4 TC 4 MEDICINE
 - 4.5 TC 5 COMPUTER APPLICATIONS IN TECHNOLOGY
 - 4.6 TC 6 DATA COMMUNICATION
 - 4.7 IAG
5. NEW TC's and SIG's
 - 5.1 TC 7 OPTIMIZATION
 - 5.2 ARTIFICIAL INTELLIGENCE
 - 5.3 COMPUTERS AND SOCIETY,
COMPUTER APPLICATIONS IN THE HUMANITIES
6. COMMITTEE REPORTS
 - 6.1 GENERAL REVIEW OF COMMITTEES
 - 6.2 FINANCE
 - 6.3 ACTIVITY PLANNING
 - 6.4 STATUTES & BYLAWS
 - 6.5 ADMISSION
 - 6.6 INTERNATIONAL LIAISON
 - 6.7 EDUCATION POLICY
 - 6.8 IFIP SEMINAR FELLOWSHIPS
7. IFIP CONGRESS
 - 7.1 CONGRESS 71
 - 7.2 CONGRESS ORGANIZATION
 - 7.3 CONGRESS 74
 - 7.3.1 Programme
 - 7.3.2 Organizing

- 8. FUTURE EVENTS
 - 8.1 MAN AND MACHINE CONFERENCE
 - 8.2 OTHER EVENTS
 - 8.2.1 Joint IFIP/IBI-ICC Second International Symposium on the Automation of Data Banks
 - 8.2.2 Rio Symposium on Computer Education for Developing Countries
 - 8.2.3 TC 7 Conference on Optimization Techniques
 - 8.2.4 Working Conference on Machine-Oriented Language
 - 8.2.5 Latin American Conference on Computer Science

9. FIACC

10. GENERAL CONSIDERTATIONS

10.1 FUTURE COUNCIL AND GENERAL ASSEMBLY MEETINGS

ACTION LIST

ATTACHMENTS TO MINUTES

- 1. TC 4, Medicine, Report (C1-Vienna – 72, TC 4-1, Annex I, Annex II, Annex III, Annex IV and Annex V)
- 2. Report of the First Meeting of the Organizing Committee of the IFIP Working Conference, "Principles of Computer Aided Design" (C1-Vienna – 72, TC 5-8)
- 3. Letter regarding TC 7, Optimization.

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COUNCIL MEETING

April 5 - 7, 1972 – Vienna, Austria

ATTENDANCE

COUNCIL Members Present

| | |
|------------------|--------------------------|
| H. Zemanek | President |
| A. A. Dorodnicyn | Past-President |
| S. Sem-Sandberg | Vice-President |
| E Goto | Vice-President |
| A.S. Douglas | Vice-President |
| P.A. Bobillier | Secretary |
| E. L. Harder | Treasurer |
| D. Chevion | Trustee |
| S. D. Duyverman | Trustee, Chairman I.A.G. |
| R.I. Tanaka | Trustee |

COUNCIL Members Absent

| | |
|-----------------|---------|
| Y. Mentalecheta | Trustee |
| R. Moreno-Diaz | Trustee |
| I. Plander | Trustee |

Invitees Present

| | |
|-------------------------------------|---|
| A.V. Balakrishnan (as of 6.4.72) | Chairman, TC 7 |
| F.L. Bauer | Liaison between IFIP Committee for International Liaison and Activity Planning Committee |
| R.A. Buckingham (as of 6.4.72) | Chairman, TC 3 |
| F. Gremy (only 5.4.72) | Chairman, TC 4 |
| H. Freeman (as of 6.4.72) | Chairman, Congress 74 Programme Committee |
| J.Y.S. Luh | Chairman, WG 5.1 |
| P. Renard (as of 7.4.72) | Chairman, Admissions Committee |
| P. Svenonius (absent 7.4.72) | Chairman, Congress 74 Organizing Committee |
| T.J. Williams (absent 7.4.72) | Chairman, TC 5 |

Invitees Absent

| | |
|--------------------|--|
| M. Osreckar | Chairman, Executive Committee, Congress 71 |
| W.L. van der Poel | Chairman, Finance Committee |
| T.B. Steel, Jr. | Chairman, TC 2 |
| A. van Wijngaarden | Chairman, TC 1 |

Observers Present

| | |
|--------------------|-----------------------------|
| M.C. Ashill | British Computer Society |
| N.I. Bech | Individual Member |
| J.M. Forsythe | Secretary, TC 4 |
| B. Sendov | TC 4 |
| L. Ingström (Miss) | Assistant to S.Sem-Sandberg |

In attendance

| | |
|---------------------|----------------------------|
| Miss Erika Bosshard | Secretary to Mr. Bobillier |
| W. Donat | Assistant to Mr. Zemanek |
| Mrs. S. Prato | Administrative Secretary |
| Mrs.V. Schimmel | Secretary to Mr. Zemanek |

1. OPENING OF MEETING

The President opened the Council meeting and welcomed all participants and observers.

COUNCIL unanimously APPROVED the Agenda of the meeting.

2. READING AND APPROVAL OF MINUTES

Mr. Bobillier noted the following modifications to minutes C.GA –Ljubljana-71:

- a) Mr. Williams proposed that the second paragraph of Section 4.5.4, Publications, Co-operation with IFAC, read:

“Mr. Zemanek suggested to publish the proceedings of the two IFAC Conferences approved in Section 4.5.3, under one cover, have IFAC edit it, but have it published as an IFIP book”.

- b) Mr. Dorodnicyn proposed that the fourth paragraph of Section 7.4.2, Admissions, U.A.R. National Computer Committee, read:

“To the knowledge of those present, such cases took place in the first years of IFIPS existence when applicants were the Academies of Science of countries”.

COUNCIL unanimously APPROVED the minutes including modifications, C.GA.-Ljubljana-71.

3. OFFICER REPORTS

3.1 PRESIDENT

The President presented an oral report in which he indicated his personal IFIP activities such as meetings and visits. He then proceeded to list the appointments which had been made:

Congress 77 Site Selection Committee: K. Samelson (replacing J.N.P. Hume)

Congress Organization Committee: D. Thomsen (Chairman)

Congress 74 Organizing Committee: P. Svenonius (Chairman)

Publications Committee: F. Genuys
Z. Pawlak

*Committee on Computer Applications
In the Humanities: J. Raben (Chairman)

*Committee on Computers and Society: P. Armer (Chairman)

(* ad hoc committees charged with investigating what should be done by IFIP in their particular area and reporting to the President).

The President requested that the utmost support be given to appoint the right people to the Public Information Committee. He then enumerated the projects which were of prime importance and these were: policies, Congress 74, FIACC, Computers in Society, Congresses 77 and 80, and the Information Bulletin.

The President felt that care should be taken in creating new Technical Committees as this would become a major burden for the Member Societies.

Council NOTED the report.

3.2 SECRETARY

Mr. Bobillier presented the report (C1-Vienna-72, Secr. 1) in which he noted that the first months of the Secretariat's operation had been encouraging. He stressed that suggestions or complaints should be made as soon as they arose as this was the only way of improving the Secretariat. It was noted that the overrun of expenses which had occurred in 1971, amounting to approximately US\$ 9,000.00 had been rectified and that 1971 expenses would be well within the budgetary limits. Regarding the Information Bulletin, this was to be distributed free of charge to interested people outside IFIP. Lists of addresses of appropriate people who would like to receive the Bulletin on a regular basis were requested. Bulletin No. 5 was scheduled to appear by mid-May and the Secretariat will make all efforts to publish three Bulletins per year, one after each meeting and one in the interim.

Mr. Bauer suggested that a printed form be prepared to communicate the errors of each previous Bulletin, and that another be sent out 6 to 8 weeks before each Bulletin to request contributions.

In the ensuing discussions, it was suggested that two mailing lists be established: one for internal distribution including members of IFIP, its Technical Committees, Working Groups and Committees, and the other for external distribution which should include 500 to 2,000 addresses comprised of such groups as national professional societies, press, journals, academies of science, etc. The Public Information Committee could assist with this task once this Committee was established. Any Member Societies requesting extra amounts of the Bulletin should be billed for them.

Mr. Duyverman offered to send a list of international events of IAG on a regular basis to the Secretariat. This would be published in the Bulletin.

Regarding the IFIP Summary, Mr. Bauer wished to know whether this was to be reprinted and at what intervals.

The President explained that another Summary would be prepared in 1974 prior to the Congress, but that it would prove too costly to print each year. In the meantime, a Corrigendum to the Summary was being prepared and would be sent along with the next Bulletin.

Regarding the IFIP Correspondents, Mr. Bobillier expressed his disappointment that not more than five Societies had appointed their Correspondent.

Mr. Bobillier concluded by noting that the Secretariat was working in the best possible way within the given financial limits.

The President thanked Mrs. Prato and Mr. Bobillier for the good work performed by the Secretariat.

Council NOTED the report.

3.3 TREASURER

Mr. Harder presented the reports (C1-Vienna-72, T-1, T-1.2, T-2, T-3, T-4, T-5, T-6, T-7)

- 3.3.1 T-1, 1971 Audit Report. Net assets at the end of 1971 amounted to \$137,178.82. Total expenses were \$52,157.95 and total income was \$30,912.70. It was to be noted that no provision had been made in these accounts for accrued expenditures and receipts, except for membership dues outstanding at 31 December 1971. Also these accounts did not reflect the full results of IFIP Congresses 1968 and 1971 which were expected to show further surplus.

T-1.2, IFIP 1971 Income-Expense vs Budget. The allotted budgetary receipts for 1971 amounted to \$28,400.00 whereas the actual receipts were \$30,912.70. The allotted budgetary payments or expense amounted to \$56,128.00 whereas in actual fact, expenses were \$52,157.95.

- 3.3.2 T-2, Financial Summary. This Summary indicated an actual income of \$30,913.00 for 1971 which did not include Congress surplus, not yet entirely transferred. Actual expense amounted to \$52,158.00. Net worth at year end amounted to \$137,179.00. Mr. Harder noted that the principle problem in 1971 was the overrun of the Secretariat budget, now under control. (Overrun amounted to \$9,000.00). Secretariat expenses this year were expected to be \$6,000.00 less than the budgeted \$23,000.00. Mr. Harder felt that the fact that a solution for such a problem had been found so quickly was a real credit to Messrs. Zemanek and Bobillier.

3.3.3 T-3, IFIP New Dues Situation. The 1972 expected schedule amounted to \$19,250.00, not including \$957.00 representing dues for Brazil which were written off. Dues received to date amounted to \$15,750.00 which was an excellent record. Dues in arrears were at the lowest level since 1964 and amounted to \$1,500.00.

3.3.4 T-4, Record of IFIP Loans and Grants Active in 1971 and 1972. In 1971, loans authorized amounted to \$29,351.00 whereas actual loans represented \$21,031.00. Authorized grants amounted to \$9,168.00 and actual amount granted was \$7,939.00. 1972 provided for authorized loans of \$37,425.00 and authorized grants of \$12,400.00. Mr. Harder stated that a sum of \$10,000.00 still remained to be paid back to the Congress 71 loan. Regarding the IAG Seminar Papers loan, \$7,500.00 was originally loaned which was to be repaid from royalties to be received after the Seminar. \$4,500.00 was repaid. It was agreed that IAG could feasibly reimburse \$2,825.00 during 1972. Mr. Harder therefore suggested that \$1,000.00 be written off, if not repaid within the next few months.

Mr. Harder therefore moved that the Treasurer be authorized to write off \$1,000.00 on this loan.

Council unanimously APPROVED the proposal.

After discussion, it was noted that there were still some unsold publications, but that these were rather outdated.

Council RECOMMENDED that IAG make all possible efforts to find some good use for the remaining documents.

Regarding the scheduled \$2,000.00 loan to the Shipyard Automation Conference, Japan, it was noted that this loan was no longer required.

3.3.5 T-5, IFIP Investments. During the period 1965 to March 1970, the total investment amounted to 195,640 \$-yrs. resulting in a net gain of \$1,222.00. From March 1970 through March 1974, IFIP reserves were invested in a Swiss Bank Corporation trustee deposit account. The total investment represented 228,350 \$-yrs. resulting in a net income of \$16,400.00. The budgeted investment income for 1974 was therefore \$8,000.00 this based on mid-1971 estimates.

3.3.6 T-6, Congress Financial Record. It was noted that the total surplus received from Congresses through 1971 amounted to \$124,585.00. Royalties received through 1971 on sales of Congress publications through 1970 amounted to \$19,354.00. The total amount received therefore from Congresses 62, 65 and 68 was \$143,939.00.

3.3.7 T-7, Revised Secretariat Budget. This revised budget represented a more accurate financial estimate and labelling of actual Secretariat expenses. Total budgeted expenditure amounted to \$17,200.00.

3.3.8 Mr. Harder then requested Council's approval of the three following changes in the 1972 budget:

- a) increase of budget item, TC 5, from \$1,000 to \$1,600;
- b) decrease of budget item, Secretariat, from \$23,500 to \$17,200; and
- c) insertion of budget item, Congress Organization Committee, \$500.

Council unanimously APPROVED these budget amendments.

4. TECHNICAL COMMITTEES AND IAG

4.1 TC 1 TERMINOLOGY

Mr. Goto presented the report (C1-Vienna-72, TC 1-1) which was a statement from Mr. van Wijngaarden indicating that there was no report from TC 1.

The President mentioned a letter received from Mr. Gould, Secretary of TC 1, in which he requested the co-operation of all IFIP groups with the aim of identifying new areas of IFIP work where terminology studies would be desirable. TC 1 would then include such areas in their future programme of work.

Council NOTED the report.

4.2 TC 2 PROGRAMMING

Mr. Douglas, reporting on the activities of TC 2, stated that its Chairman was active and had taken up his work again. The Working Conference on Graphic Languages was proceeding according to plan, the editors, Messrs. F. Nake and A. Rosenfeld having been appointed, and North Holland advised for publication. Regarding the ALGOL Bulletin, it was agreed that Mr. Duncan complete the current Bulletin, and that future Bulletins be produced under the direction of Mr. Lindsay and printing handled by Mr. van der Poel. WG 2.1 had had a problem with their Secretariat, but this was now solved satisfactorily. Concerning the Polish Conference being held by WG 2.3, the budget has been approved and invitations distributed. Organization of this conference was proceeding well.

Council NOTED the report.

4.3 TC 3 EDUCATION

Mr. Sem-Sandberg introduced the TC 3 report (C1-Vienna-72, TC 3-1) and drew attention to the new Working Groups:

WG 3.3, Instructional Uses of Computers, Chairman, Dr. S. Charp

WG 3.4, Post-Secondary Education and Vocational Training, Chairman, Professor A. Berger

Any persons interested in contributing to these WG programmes should contact the relevant Chairman.

- 4.3.1 Regarding the TC 3 booklet, "Computer Education for Teachers in Secondary Schools", translations into Russian and French had been prepared, and Danish and German translations would also be available. WG 3.1 was now working on a more extensive booklet describing material suitable for teacher training courses.

Mr. Buckingham requested that a general procedure be established for the printing and distribution of such booklets; TC 3 had included some proposals in their report.

- 4.3.2 Work on a curriculum for system designers was continued in a Workshop held in September 1971 in England. The main concern was that part of the curriculum dealing with information system design. It was hoped that a preliminary report on this curriculum would be issued in May.

The President then introduced Miss Louise Yngström, assistant to Mr. Sem-Sandberg.

- 4.3.3 Mr. Buckingham gave some details relating to the Second World Conference on Computer Education proposed for 1975. France had expressed an interest in acting as host to this Conference, and it was possible that the French Government would give some support. The Conference would nevertheless remain an IFIP conference with amounts resulting from proceedings and royalties coming to IFIP. Austria was an alternative host for the Conference. However, it was proposed that Council approve France as the primary choice for a site, and that AFCET be invited to submit a proposal accordingly. It was also proposed that a Steering Committee be set up immediately to direct the preparation of this Conference.

In the ensuing discussion, it was suggested that this Conference be held at the same time as Congress 74 in Stockholm.

Mr. Douglas felt that while the main IFIP event should be profitable, conferences of this kind could nevertheless fall within the main IFIP framework, resulting in less loss of finances and effort.

Mr. Chevion expressed worry that too many subsets would be included under the roof of one Congress.

After discussion on the general principle, Mr. Tanaka moved that if a conference was held within 12 months of Congress 74 and a) it included an exhibit or b) it had a program which did not use the same resources as Congress 74, then the organizers should first consider the possibility of holding the conference in connection with Congress 74.

Mr. Harder considered that any conference or symposia which was scheduled during the year of the Congress should automatically be given a chance to participate in the Congress.

Mr. Tanaka thought that small meetings with no financial risk should keep their independent nature.

Mr. Chevion requested that this be considered as an ad hoc policy and not a general rule.

Council APPROVED Mr. Tanaka's motion (with one abstention).

The President requested that the Steering Committee take note of this resolution and if the proposal for a 1975 Conference was followed up, then the case for it should be presented at the Sofia meeting.

Mr. Tanaka thought that these satellite conferences could be essentially independent meetings, having separate or segregated exhibits. They would nevertheless draw participants who would not normally attend Congress 74

Mr. Chevion, recapitulating the situation, noted that once the proposal from the French Government was received, then the Steering Committee must consider, along with the motion of Council, the possibility of having this Conference together with Congress 74, or else, upon mutual agreement, state the reasons why this would be impossible.

Mr. Harder pointed out that past policy was to hold no conference during the Congress year, but that this had now changed.

4.3.4 Regarding a joint project with Unesco/IBI-ICC on Computer Education, a contract had been submitted by IBI-ICC following the suggested scheme, and Mr. Buckingham proposed that this be accepted, noting however that some dates should be amended and that IBI-ICC should be asked to cover additional expenses incurred by IFIP up to a maximum of \$1,500.00.

4.3.5 In reply to a request from Mr. Harder for information on the Chile Seminar, Mr. Buckingham stated that since January he had received no news, and it was not yet clear whether the Seminar would have the desired international character. It was to be noted that the Seminar organizers had stated that they were unable to make use of the \$5,000.00 loan because of internal currency exchange problems.

Mr. Douglas felt that careful consideration should be given to further plans for this Seminar and it was important to be satisfied with its overall character and level. He suggested that a stand not be taken until more complete information was received.

4.3.6 Reverting to the Seminars organized by CEPIA, Mr. Harder enquired whether the loan of \$3,000.00 made to Cepia might be recovered. He also wondered whether the loan for Advanced Level Seminars, now reduced to \$3,000.00, should not be closed at the end of the year.

After a general policy discussion, Mr. Tanaka moved that all Technical Committees and IAG be requested to report on the status of all loans and grants made which were still outstanding, stating whether they considered that there would be a chance for recovery. In cases where immediate recovery did not seem feasible, a recommendation on action to be taken should be made.

Council unanimously APPROVED the motion and agreed that a letter to this effect, containing the specific amounts, be sent to all Technical Committees and to IAG.

The President thanked Mr. Buckingham for his report.

4.4 TC 4 MEDICINE

4.4.1 Mr. Gremy gave an oral report on TC 4 activities. The TC 4 report resulting from their recent meeting was to be issued along with the Minutes. TC 4 had had two meetings since Congress 71. Mr. Gremy reported on five points, the first of which was Working Conferences, past and present. A four-day Working Conference on Computer Applications on ECG and VCG Analysis had been held in Hanover. Many top leaders in the field had presented papers and the ensuing discussions had been beneficial. One disadvantage was that there had been a delay in issuing the proceedings. Nevertheless, the final text was to be prepared by 15 June 1972, sent to North-Holland with whom a contract had been agreed upon, and finally issued no later than November 1972. This was however rather late considering the evolution in this field.

Mr. Gremy then spoke of the TC 4 Working Conference on Mathematical Models in Biology and Medicine which was to be held from 6-11 September 1972 in Varna. Organization of this Working Conference had been delayed due to local factors, and this delay could possibly reduce the participation. The publication of proceedings for this Working Conference had been organized with Mr. Kroneberg.

The President noted that he would have preferred to see a more precise account of the forthcoming Working Conference.

Mr. Gremy explained that it had not been possible to define a precise plan due to TC'4s new relationship with WHO, whose plans were not yet known.

Mr. Forsythe stated that there had been some confusion as regards the Working Conference on Information Processing of Medical Records II to be held in Bordeaux. This Conference had never actually been approved by TC 4.

The President requested that in future a very definite difference be shown between approved and planned conferences, and that Technical Committee Chairmen indicate which conferences were "by invitation" only.

4.4.2 Mr. Gremy then brought up the subject of a new Working Group (4.2) and proposed that Professor W. Schneider (Uppsala) be appointed Chairman.

Messrs. Chevion and Douglas proposed that the title of the new Working Group be "Requirements for interfaces of software and hardware for input and output procedures in medical computer applications".

Mr. Williams mentioned the work already performed in the same field by the Instrument Society of America and recommended that TC 4 take this body into consideration.

Mr. Tanaka proposed that discussion be postponed until a written document was received, and then, at that point, vote on an ad hoc Committee which would define the charter and scope and present this to General Assembly.

As a follow-up to the discussion, Mr. Gremy submitted the Document (C1-Vienna-72, TC 4, Appendix 1) which defined the proposed title and scope of WG 4.2 as follows:

Title: "Requirements for interfaces for input and output procedures in medical computer applications".

Scope: The scope of the work will cover four main areas:

- tools needed in order to meet confidentiality and legal requirements;
- tools needed for presentation of computer-prepared information to doctors, nurses, hospital administrators and patients;
- tools needed for control of on line data input from instruments;
- tools needed for interaction between different kinds of computer systems.

The Working group will establish contacts with related international bodies.

The President appointed Professor W. Schneider ad hoc Chairman responsible for working out the aims and scope of this Working Group as well as presenting a list of possible members to the next General Assembly.

4.4.3 Mr. Gremy then presented the draft report (Document WCMI. 72.1, Annex IV) which defined a proposal for an IFIP World Conference on Medical Informatics which could take place from 18-22 June 1973 in Amsterdam in conjunction with IAG. Participation would range from 650 to 1,000 persons with a total budget of \$122,000.00. The main objective would be to provide a review on the current status of the main computer applications in biology, medicine, and public health illustrated by accomplishments and operational projects backed by the several years of experience. This should lead to a critical evaluation of the achievements in order to provide a guideline for the future. Regarding the budgetary aspects, Mr. Gremy requested whether IFIP would be prepared to approve a loan of \$20,000.00.

Mr. Tanaka questioned whether Council could authorize a loan of such magnitude, and it was noted that this was, in fact, impossible.

Messrs. Douglas and Goto recommended that TC 4 reconsider the date of this Conference with a view to holding it in Stockholm in 1974.

Mr. Sem-Sandberg confirmed that it would indeed be feasible to accommodate both Congress 74 and this Conference in Stockholm, at the same time giving each a separate identity. Participants would then have the opportunity to attend both conferences.

Mr. Bech thought that the idea of holding one or more conferences along with the Congress could represent a restructuring of the pattern of the 3-year Congress cycle. One fee could be requested for both Congress and conference, and the proceedings could be published in separate volumes.

Mr. Chevion felt that the Program Committee should be separate.

The President agreed with this idea.

Mr. Bech considered that this committee could be a subset with responsibility to the Programme Committee

Council unanimously RECOMMENDED that TC 4 reconsider plans for this international conference, and that a definite proposal be presented to the General Assembly in Sofia

- 4.4.4 Turning to the matter of collaboration with WHO, Mr. Gremy informed that IFIP had been accepted to enter into official relations with WHO. All conferences and activities would now be organized in accordance with the plans of both TC 4 and WHO

Mr. Douglas noted that the person in WHO to maintain official liaison with IFIP was Dr. Uemura.

4.5 TC 5 COMPUTER APPLICATIONS IN TECHNOLOGY

- 4.5.1 Mr. Williams presented the report (C1-Vienna-72, TC 5-1). He introduced Professor Johnson Y.S. Luh, proposed Chairman of the new WG 5.1 who then proceeded to explain his section of the report (C1-Vienna-72, TC 5-2), a proposal for the area of activities of WG 5.1. This new Working Group was entitled "Transportation Systems", and its goal was to assist workers of all nations in the area of transportation to achieve a common improvement of international transportation systems, and to promote and encourage the advancement of computer applications in technology in the fields of research, development, design, manufacture and operation of transportation systems. Activities would be initiated in the areas of transportation system design and development (the planning process, research information exchange on international transportation, and computer simulation and control methods), traffic flow characteristics and models, and lastly, economic, social and environmental effects. These suggested activities could be carried out in different channels – by sponsoring or cosponsoring international transportation symposia, in particular with other FIACC organizations, and by establishing and maintaining liaisons with other appropriate international organizations. One early task of this Working Group would be to supervise IFIP's part in the 1974 IFAC/IFIP International Symposium on Traffic Control, and to this regard, a programme of 21 technical topics was proposed (pages 12 – 15 of the report).

Mr. Douglas noted that the list of proposed members was tentative and that members from other countries should be solicited.

Council unanimously APPROVED the creation of WG 5.1, the nomination of Professor Luh to its Chairmanship, and requested that the aims and scope be finalized by TC 5 based on the authority given to Council at its last meeting (C.GA. Minutes, Ljubljana, 1971, Minutes Section 4.5.1).

- 4.5.2 Mr. Williams noted that work on the proposed Working Conference on Principles of Computer-Aided Design/Non-Electronic Systems was proceeding well. Regarding the Conference on the Use of Computers for Ship Operation at Sea and for Dockside Automation scheduled to be held in Oslo, Norway, from 2 – 5 July 1973, the Norsk Forening for Automatisering had proposed that the subject be ship operation and docking automation. Expected attendance was 400, with a registration fee of \$50.00. English preprints would be prepared, and it was suggested that joint proceedings be made of the most important papers from the symposia in Japan and in Norway. This proposal was to be discussed at the IFAC congress in June 1972 in Paris.

4.5.3 Mr. Williams then presented a report concerning the IFIP-IFAC-JSNA Conference on Computer Applications in the Automation of Shipyard Operation and Ship Design (C1-Vienna-72, TC 5-7). The scope of this Conference was to concern itself with all aspects of the application of computers to aid the modern technology of ship design and ship construction. The Conference was scheduled for 28-30 August 1973 in Tokyo and 150 participants were expected to attend. The tentative total budget was \$22,800.00. It was understood that Japanese authors could publish their papers in Japanese in the Journal of the Society of Naval Architects in Japan in addition to publication in English in the Joint Volume of North Holland. The Society of Naval Architects of Japan would publish a limited number of volumes of paper-backed preprints of the Conference for use by the Conference participants. Copyright for the papers (with exception of the above) resided with IFIP. Papers were to be submitted in English. It was noted that the Society of Naval Architects of Japan would neither require IFIP's \$2,000.00 loan, nor a share in the royalties.

Mr. Tanaka wished to know who would assume any possible loss.

Mr. Williams answered that this was completely guaranteed by the Japanese organization.

Council unanimously APPROVED the Conference plan.

4.5.4 Mr. Williams noted that the invitation to hold a Working Conference on Socio-Technical Aspects of the Computerized Automation of Industrial Plants and Processes at Riga had been turned down and that a new proposal would be developed at TC 5's next meeting. Regarding PROLAMAT II, organizational aspects of the conference were proceeding satisfactorily and 24 papers had been received.

Council NOTED the report.

4.6 TC 6 DATA COMMUNICATION

Mr. Sem-Sandberg presented the report (C1-Vienna-72, TC 6-1) in which he noted that efforts were being made to find a Chairman. Finland, Israel, England and South Africa had, to do this point, appointed representatives to TC 6.

Council NOTED the report.

4.7 IAG

Mr. Sem-Sandberg presented the report (Report of Chairman, C1-Vienna-72, IAG-1; Budget 1972, Appendix 1; IAG 1972 Activities Programme, Appendix 2). Financial matters had been of concern during the past year due to a decreased income from bulk subscriptions, a decreased income from activities because of a deficit on one conference and an increased expenditure in the area of general administration. Nevertheless, the net deficit of \$6,000.00 was expected to be recovered in 1972 through an intensified programme of activities and a limitation of expenses. Each activity was budgeted on its own merit. Regarding IAG publications, the IAG Quarterly Journal was to be published on a bimonthly basis under the new title, "Management Informatics", the publisher being Wolters Noordhoff. IAG Communications would be published eight times this year. Concerning desks, it was hoped that an Eastern European desk would be established in 1972 and a Far East desk in 1973.

Council NOTED the report.

The President thanked IAG for the excellent preparation of their report, and wished to acknowledge the considerable efforts being made by the Board of Directors to meet present problems. He conveyed a vote of thanks to the Board of Directors and the staff of IAG.

5, NEW TC's and SIG's

5.1 TC 7 OPTIMIZATION

Mr. Dorodnicyn presented the report (C1-Vienna-72, TC 7-1) which proposed the creation of TC 7 as follows:

- Title: Technical Committee on Optimization
- Aims:
- to provide an international clearing house for computational (as well as related theoretical) aspects of optimization problems in diverse areas and to share computing experience gained on specific applications;
 - to promote the development of necessary high-level theory to meet the needs of complex optimization problems and establish appropriate co-operation with the International Mathematics Union and similar organizations;
 - to foster interdisciplinary activity on optimization problems spanning the various areas such as Economics (including Business Administration and Management), Biomedicine, Meteorology, etc., in co-operation with associated international bodies.
- Scope: Computational aspects of Optimization problems arising in such areas as Aerospace, Biomedicine, Economics, Meteorology, and Public Services (Health, Environment, Police, Fire, Transportation, etc.). Some specific examples are:
- on line and off line computational techniques in modelling and control of dynamic systems;
 - trajectory analysis and computation;
 - optimization of decentralized systems (macro-economic systems) and systems with multi-criteria;
 - optimization of resource allocation in urban systems;
 - optimization of pollution control systems;
 - optimization of pattern recognition and classification systems;
 - optimization of man-machine systems;
 - optimization of power systems operation.

Mr. Dorodnicyn noted that the proposed Chairman was Mr. A.V. Balakrishnan.

Mr. Tanaka stressed the necessity that TC 7, even more than the other Technical Committees, and outside groups, co operate with other committees as overlapping of activities could very easily occur.

Council unanimously DECIDED UPON the creation of TC 7, APPROVED the scope of work and the appointment of Mr. Balakrishnan as Chairman, and NOTED the report.

Mr. Bobillier congratulated Mr. Balakrishnan on his appointment and suggested that he prepare a letter to all General Assembly members requesting representatives for TC 7. This letter could be attached to the Minutes.

5.2 ARTIFICIAL INTELLIGENCE

Mr. Bauer indicated that he would present a complete report on Artificial Intelligence to the General Assembly in Sofia.

Council NOTED this fact.

5.3 COMPUTERS AND SOCIETY, COMPUTER APPLICATIONS IN THE HUMANITIES

The President stated that reports on Computers and Society and Computer Applications in the Humanities would be presented to the General Assembly in Sofia by Mr. P. Armer and Mr. J. Ragen respectively.

Council NOTED this fact.

6. COMMITTEE REPORTS

6.1 GENERAL REVIEW OF COMMITTEES

No report was presented.

6.2 FINANCE

No report was presented.

6.3 ACTIVITY PLANNING

Mr. Tanaka presented the reports (C1-Vienna-72, APC-1 and APC-2).

Committee objectives which would be fulfilled and described in time for the General Assembly in Sofia were the six-year plan for IFIP, suggestions for some additional activities for the immediate future, establishment of regulations for planning and for conducting conferences, symposia and seminars, co-ordination of the IFIP schedule of activities, and recommendations for technologically-oriented meetings held in conjunction with Council and General Assembly meetings.

The report included a list of technical subject areas for IFIP activities with an attempt at assessing the importance of each subject, the information required in order that Council and General Assembly approve Technical Committee Working Conferences, categories of IFIP involvement in conferences (IFIP major involvement, little involvement, and co-operative blessing meaning no name lending or involvement). The geographical expansion of IFIP activities was defined in a list of methods by which IFIP might help ensure that its activities were not confined to a narrow geographic area.

The Committee considered the calendar of events an important factor, and recommended that various IFIP Committees be urged to inform the Secretariat of all changes and that meetings or conferences should be planned well in advance. A list of possible technical topics for the 1972 General Assembly meeting was enumerated.

Mr. Tanaka noted that the role of the Committee was to set up mechanisms or policies to assist IFIP in decision making and planning. It was to set up a structure for evaluation, and a time table that indicated the activities which should presumably occur. The Committee would appreciate comments on the subjects brought up in the report so that it could respond to the different views.

Mr. Tanaka explained that the Committee planned to submit a first draft of the six-year plan to the General Assembly in Sofia, but that this would only represent 30 -40 % of the overall activities. The report would be more complete in one-year's time.

Mr. Tanaka then presented the report (C1-Vienna-72, APC-2) which was a preliminary schedule of suggested action or time-table of events set up to initiate action in some technical topic areas. This time-table also included possible reviews and evaluations of the work of Technical Committees and Working Groups which should be scheduled at least every six years.

The President thanked the Activity Planning Committee for its work and proposed that Document APC-2 accompanied by an appropriate covering letter, be sent to all General Assembly members.

Council NOTED the report.

6.4 STATUTES & BYLAWS

Mr. Tanaka presented the report (C1-Vienna-72, SBC-1) which informed that the Committee was preparing a revision of the Statutes and Bylaws with a view to eliminating inconsistencies in wording and superfluous wording that may exist.

Regarding IFIP policy and procedure documents, a hierarchy was established listed in descending order of scope and formality: statutes, bylaws, standing orders and guidelines. Statutes and Bylaws were already in existence. The standing orders however were to be in the form of a short document listing procedures and practices which should be known to anyone who is involved with IFIP activities. A suggested set of guidelines included such headings as Congress Organization, conference and symposia regulations, finances, regulations for hosting Council and General Assembly meetings, publications, admissions and operating rules (Technical Committees, Working Groups and Committees).

The President fully supported the list of subjects suggested for the Guidelines and hoped that some sections could be drafted in time for the General Assembly meeting.

After discussion on the different ways of preparing a final form of the Statutes and Bylaws,

Council RECOMMENDED that the Statutes and Bylaws be prepared in the most complete form possible, that photocopies be taken and sent to all General Assembly Members prior to the General Assembly. After General Assembly decision, the Statutes and Bylaws could then be printed in final form. For this purpose, the Committee could spend up to but not more than \$500.00 (to be taken from the President's account).

6.5 ADMISSION

Mr. Renard presented the report (C1-Vienna-72, AC-1) in which he underlined that no new applications had been submitted to the Admissions Committee. Following decision of the General Assembly (Ljubljana), ABRACE was allowed a time limit until 31 December 1971 to pay dues in arrears. This was not done, so ABRACE's membership was terminated, as of January 1st, 1972. However another Brazilian society, SUCESU was very interested and had forwarded their Statutes which were presently being translated from Portuguese. A formal request for admission would be sent by them to IFIP.

Concerning the United Arab Republic and Romania, no further information had been received. Ghana had shown no reaction to IFIP since their admission in October 1970.

Regarding the question of denomination of countries, information had been gathered from various international organizations and would be presented to the General Assembly in Sofia.

The President requested that formal letters of admission be forwarded to the Secretariat.

Mr. Bobillier stressed the difficulties to communicate with Ghana and U.A.R. and suggested that IFIP be very careful when admitting a new member.

The President stated that the Executive Body would investigate the case of Ghana and report to General Assembly.

Mr. Harder proposed that the admissions procedure include payment of the first years' dues.

Mr. Dorodnicyn proposed that admission should be done in the presence of a representative from the country to be admitted.

Council NOTED the report.

6.6 INTERNATIONAL LIAISON

Mr. Douglas presented the report (C1-Vienna-72, LIAS-1).

It was suggested that this Committee be called "IFIP Committee for International Liaison (ICIL)". The principle actions called for under the General Assembly resolution relating to CLIGO had been completed. The IBI-ICC had notified that they would be forming a Technical Committee and would invite IFIP participation. They also hoped to invite IFIP to appoint a representative to their Executive Body. Regarding IFIP's suspended relationship with Unesco, it was considered that this would be resumed shortly. Relationships with other NGO's, IBI-ICC, and Unesco projects such as UNISIST should be strengthened. Concerning Document E/4800, it was recommended that the Committee concur with the request of the United Nations Office of Science and Technology to assist in the preparation of a further report on Computers and Development. To this end, it was proposed that a body of two to three persons be appointed to prepare the official reply which was due in approximately one months' time. Regarding the Rio Symposium on Computer Education in Developing Countries, Mr. Douglas had, in consultation with the President, offered a grant of \$2,000.00, and Council was requested to endorse this action. The Committee was satisfied with the progress made in the organization of this Symposium. The Committee noted Mr. Bauer's appointment as official liaison between ICIL and Activity Planning Committee, a post which assumed the status of a Committee Chairman.

The President asked about the consequences of IFIP's relationship with UN agencies.

Mr. Douglas felt that although IFIP did have definite contacts, these could nevertheless be more influential.

The President requested that the list of affiliates and the corresponding relationship held with each of them be printed in the Bulletin.

Council APPROVED the grant of \$2,000.00 to the Rio Symposium and NOTED the report.

6.7 EDUCATION POLICY

Mr. Renard presented the report (C1-Vienna-72, EDUC-1) which stated that the work of this Committee had not yet begun. Geographical distribution of Committee members made meetings difficult to organize. In agreement with the President, Mr. Renard resigned as Chairman of this Committee.

The President then appointed Mr. Chevion as new Chairman of the Committee and requested that a report be prepared for the General Assembly meeting.

Council NOTED the report.

6.8 IFIP SEMINAR FELLOWSHIPS

Mr. Sem-Sandberg indicated that there was no report from this Committee.

7. IFIP CONGRESS

7.1 CONGRESS 71

As Mr. Osredkar did not attend the Council meeting, a call was made to Mr. Dular regarding the financial situation of surplus remaining to be received from Congress 71. Mr. Dular indicated that \$5,000.00 had been forwarded to the Secretariat in Geneva. The remaining \$10,000.00 minus the amount representing preprints paid to North-Holland was to be transferred no later than end June 1972.

Council expressed disagreement with this solution, and it was decided that a letter to this effect would be sent to Magistrat in Ljubljana.

Mr. Bobillier recalled that 80% of the surplus should have been returned to the Treasurer within six months after the Congress, and wished to have more information on the surplus situation.

The President requesting the assistance of Mr. Dorodnicyn, Past President, stated that steps would be taken to obtain an accurate account.

Mr. Bobillier also drew attention to the dissatisfaction of many Congress participants following the unnotified cancellation of several speeches. He asked Mr. Dorodnicyn what had happened in the case of several speakers from the U.S.S.R.

Mr. Dorodnicyn replied that after having checked, he found that most of these speakers had not applied for a visa, and this fact could probably be interpreted as a lack of financial resources.

Mr. Bech suggested that steps be taken to ensure the attendance of those persons who had agreed to present a speech. He also thought that the programme should not be printed until speakers had confirmed their participation.

Council AGREED that further steps were to be taken to obtain the remaining surplus from Congress 71 and felt that the Congress Organization Committee should pay particular attention to the problem of attendance of speakers at future Congresses.

7.2 CONGRESS ORGANIZATION

No report was presented regarding Congress Organization.

7.3 CONGRESS 74

7.3.1 Programme

Mr. Freeman presented the report (C1-Vienna-72, C 74 PC-1). Eleven persons were proposed for membership to this Committee and currently, eight had replied affirmatively. The Committee planned to hold three major meetings, one in September/October, 1972 in Eastern Europe, one in March 1973 in Western Europe and the third in March 1974 in Denmark or Sweden. The final programme for IFIP Congress 74 would be assembled at the March 1974 Committee meeting. A preliminary plan would, however, be presented to the General Assembly in Sofia.

Council NOTED the report.

7.3.2 Organizing

Mr. Sem-Sandberg introduced the report (C1-Vienna-72, C 74 OC-1) and asked Mr. P. Svenonius (Chairman of the Congress 74 Organizing Committee) to present the report.

Mr. Svenonius noted that other members of the Committee were: Mr. Sem-Sandberg, Mr. H. Rällfors, Mr. K. Hultman and Mr. T. Wikland. He indicated that the Swedish Government was prepared to provide a guarantee of \$100,000.00 in the case of loss. This sum would be allocated to the Co-operation Committee of the Swedish Society for Information Processing. Both Messrs. Sem-Sandberg and Svenonius were members of this Committee. The Committee would handle local arrangements, the exhibition, finance, public information and transactions and members would act as a link to IFIP. A legal body responsible for the execution of finance and business transactions – IFIP Congress 74 AB – would be established. The Congress and exhibition would take place at St. Erik's Fair from 5- 10 August 1974. An estimated minimum participation of 2,500 would be necessary to cover all expenses.

Mr. Sem-Sandberg noted that regarding the exhibition, reasonable average space to be considered was 3,500 m², the limits ranging from 2,500 m² to 4,400 m². Marketing efforts through IFIP channels were considered to be a decisive factor in obtaining a surplus. The revised budget would be prepared on the basis of expenses for 4,000 participants and income for 2,500 participants. A drop in the participation could endanger the surplus, especially when one considered present inflation and the dollar devaluation. The Committee would nevertheless make all possible efforts to keep the budget within limits.

During the following discussion, it was noted that the company, IFIP Congress 74 AB, was registered in Sweden and that details were presently being established. Any surplus resulting from Congress 74 would be tax free.

With regards to the "hidden surplus" for the organizing body of the exhibition, Mr. Sem-Sandberg indicated that it was not possible to give a definite answer concerning this matter. The current arrangement was the result of much negotiation. It was originally proposed that IFIP rent the facilities for a flat amount and run the exhibition. This solution was rejected, and the current situation was to have St. Erik's Fair organize the entire event, paying surplus and royalties to IFIP.

The President proposed the creation of a Standing Exhibition Committee which would work closely with the Programme Committee.

Mr. Tanaka pointed out that such a committee could have two uses – that of advising for a specific exhibition and which would be dissolved as soon as the exhibition had been held; and the second, a policy-making committee which would define the rules for holding exhibitions, the task of which would be more demanding.

Mr. Freeman indicated that two specialists in this domain were Messrs. Welch and Coaten.

Mr. Harder said that surplus was calculated by firstly removing expenses of the Programme Committee and the loans. He therefore requested that these expenses be included in the report to be presented to General Assembly in Sofia.

Mr. Svenonius stated that although this point had not been considered in the Amsterdam document, he would have this included in the Congress accounts.

Following a suggestion by Mr. Freeman,

Council CHARGED the Congress Organization Committee to make a proposal as to the nature and scope of the exhibition and present this to the General Assembly.

With regard to exhibitors, Mr. Tanaka noted that AFIPS placed much importance on the difficult problem of restimulating larger companies' interest in exhibiting. He further requested that a reasonably early deadline be set by Council to receive an updated proposal of anticipated costs, revenues, and surplus for the Congress.

Mr. Sem-Sandberg stated that this would be sent to the Secretariat by 30 June 1972.

Mr. Tanaka asked for an explanation regarding the registration fee. He pointed out that the devaluation of the dollar should not be the only justification for such an increase in fee.

Mr. Svenonius noted that an increase in the fee would result in a higher surplus.

Mr. Freeman wished to know whether any competitive conferences were scheduled during that same period in Scandinavia.

Mr. Sem-Sandberg stated that there were none scheduled for 1974.

The President presented the following new ideas for the Congress, all of them aiming at the same objective, that is, to increase chances of success:

- Area O: full set of the state-of-the-art reports showing progress made during the past years and the current state-of-the-art;
- Each Area: Vice-Chairman should concentrate on focusing, summarizing, and reviewing papers with a view to presenting the subjects of most interest to his specific community. The area Vice-Chairman should introduce and explain why each paper had been taken into the subject. An announcement should be made in the Call for Papers;
- Special 2-day Conference for decision-makers in the computer field. This would require a special Programme Committee. One should take the opportunity of having the exhibition to attract a new group of participants;
- Exhibition Committee: (3rd IFIP Congress Committee). This Committee could, among other things, concentrate on how to attract, for instance, software companies whose participation in exhibitions is less common;
- Exhibition lecture programme committee (4th IFIP Congress Committee);
- Movie programme: This should reach more than the normal participants who would already be involved with lectures, etc.

Mr. Freeman stated that these ideas would be studied by his Committee and requested that further suggestions be sent to him.

Mr. Sem-Sandberg thought that the General Assembly in Sofia should be a target for establishing the principles and guidelines to be followed.

The President asked Mr. Sem-Sandberg to handle and co-ordinate the problem of interfaces between the various institutions and Committees dealing with Congress 74.

Council NOTED the report.

8. FUTURE EVENTS

8.1 MAN AND MACHINE CONFERENCE

The President indicated that backing of some international body was sought. ILO had been approached and had subsequently refused to support the Conference. Mr. Armer was negotiating with other bodies and a report would be presented to the General Assembly.

8.2 OTHER EVENTS

8.2.1 Joint IFIP/IBI-ICC Second International Symposium on the Automation of Data Banks

Mr. Chevion presented the report on a proposed Joint IFIP/IBI-ICC Second International Symposium on the Automation of Data Banks (C1-Vienna-72, AUT of DATA BANK-1) to be organized by the Information Processing Association of Israel in Jerusalem from 21-26 October 1973. The Symposium was to encompass all aspects of Automation of Population Register and also data bank problems. Organization would be handled by a Steering Committee, a Programme Committee, both having large international representation, and an Organization Committee. The total budget, under the assumption that there would be some 800 participants, amounted to \$30,000.00 contributed by the Government, IBI-ICC, and other international organizations. To this effect, a contribution of \$2,000.00 was requested from IFIP which could be divided into the 1972 and 1973 budget years. Preprints would be prepared for participants and proceedings were to be published by North-Holland according to the established IFIP rules.

Mr. Tanaka asked whether IFIP held the leading responsibility for losses and royalties.

Mr. Chevion replied that the royalties would be shared with IBI-ICC on a 50/50 basis.

Mr. Bech considered that the Programme Committee should be jointly appointed by IFIP and IBI-ICC.

Mr. Bauer remarked that this project was an example of individual action which had not been considered in IFIP's overall programme of activities, and that in future, such matters should be handled more systematically.

The President asked Mr. Chevion to act as ad hoc Chairman of the Task Group on Data Banks.

Mr. Chevion accepted to prepare the establishment of such a group and propose candidates for membership and a Chairman.

Mr. Tanaka thought that before a decision was taken regarding support of this conference, more information should be presented dealing with scope, Programme Committee, budget, disposition of surplus, who was to share any possible loss, and royalties on publication. A clear distinction should be made between the roles of IFIP and IBI-ICC.

Mr. Tanaka then moved that the subject area and the timing of this Conference be approved.

Council unanimously APPROVED the motion and NOTED the report.

8.2.2 Rio Symposium on Computer Education for Developing Countries

Mr. Chevion reported orally on this Symposium which was to be held from 6-12 August 1972. The programme concentrated on aspects of computer education – professional, vocational – and accentuated the problem of developing countries. A participation of 300 to 500 was expected. The First Announcement, including the list of sponsors, had been sent to Council members.

Council NOTED the report.

8.2.3 TC 7 Conference on Optimization Techniques

Mr. Balakrishnan presented the report (C1-Vienna-72, TC 7-1) proposing a conference entitled "Optimization Techniques" dealing with modelling and simulation of large systems. This conference was to be held from 23-27 March 1973 in Rome. * Expected attendance, mostly by invitation was 150 to 200. It was hoped that this conference would be self-supporting but a loan of \$1,500.00 was requested.

* This date was confirmed after the Council meeting by Mr. Balakrishnan.

Mr. Tanaka moved that this proposal be approved subject to the following:

- that the required \$1,500.00 be defined as "loan";
- that a suitable budget be submitted to the Executive Body;
- that the proceedings be published in accordance with IFIP policy; and
- that a full report be presented to the General Assembly in Sofia.

Council unanimously APPROVED this motion.

8.2.4 Working Conference on Machine-Oriented Language

Mr. Bauer proposed IFIP co-sponsorship of a Working Conference on Machine-Oriented Languages to be held in Norway in the spring of 1973, which had the same characteristics as a Technical Committee Working Conference.

8.2.5 Latin American Conference on Computer Science

Mr. Douglas indicated that IFIP had been approached to assist with a Latin American Conference on Computer Science to be held in May/June 1972. He suggested that IFIP offer sponsorship with no financial support.

9. FIACC

The President stated that it had been proposed to change FIACC into an international union similar to unions represented in ICSU. No agreement had been reached with UNESCO concerning this project. There were consequently still a number of problems to overcome.

10. GENERAL CONSIDERTATIONS

10.1 FUTURE COUNCIL AND GENERAL ASSEMBLY MEETINGS

The President noted that the forthcoming General Assembly meeting was to be held in Sofia from 24-27 October 1972, and drew attention to Mr. Bauer's offer to hold the spring Council meeting in Munich.

After discussion, Council unanimously APPROVED the following dates:

| | | |
|-------------------|------------------------|-----------|
| 6 – 7 April 1973 | Executive Body meeting | Stockholm |
| 9 – 10 April 1973 | Council meeting | Munich |
| 11 April 1973 | Technical session | Munich |

It was noted that the meeting in Sofia would be comprised of:

| | |
|--------------------------|--------------|
| Council meeting | one day |
| General Assembly meeting | three days |
| Technical session | one-half day |

There being no further business, the President closed the meeting and thanked all participants for their active co-operation. A special vote of thanks was directed towards Mrs. Schimmel and Mr. Donat for their help in organizing the meeting.

ACTION LIST

1. Congress 71 Organizing Committee Furnish accurate account of the remaining surplus to be received from Congress 71.
2. Executive Body Investigate the situation concerning Ghana and report to General Assembly.
3. Congress Organization Prepare the scope of the exhibition of Congress 74 and present to General Assembly.
4. Professor Bauer Prepare Artificial Intelligence report for General Assembly meeting.
5. Mr. Armer Prepare Computers and Society report for General Assembly meeting.
6. Mr. Raben Prepare Computer Applications in the Humanities report for General Assembly meeting.
7. Mr. Renard Prepare report on denomination of countries for General Assembly meeting.
8. Mr. Chevion Prepare IFIP Education Policy report for General Assembly meeting.
9. General Regarding Professor Zemanek's points in Section 7.3.2, Congress 74 Organizing, address any suggestions or ideas to Mr. Freeman.
10. Secretariat Send copies of correspondence regarding the relevant TCs or WGs to the Secretary of that particular group.

ACTIVITIES OF TC 4 BETWEEN THE LAST GENERAL ASSEMBLY MEETING

(LJUBLJANA – AUGUST 1971) AND THE 5th OF APRIL 1972

The 4th IFIP Technical Committee has met twice since the General Assembly meeting:

- 1 - in LJUBLJANA on the 27th of August 1971
- 2 - in Vienna on the 4th of April 1972

This report will be devoted to the following topics

1 – Working Conference

1.1. The Hannover Working conference on “Computers Applications on E.C.G. and V.C.G analysis” which took place from the 11th to the 14th of October.

1.2. The Varna Working Conference on “Mathematical Models in Biology and Medicine” which will be held from the 6th to the 15th of September.

2 – Working Groups

2.1. Report on activities of W.G.4.1. on Education of Medical and paramedical personnel in Computer Sciences.

2.2. Proposal of setting up a Working Group on “Standardization of interfaces for input and out put procedures in medical computer applications”.

3 – IFIP World Conference on Medical Informatics

Proposal for such a conference which could be held in Amsterdam in June 1973.

4 – Relationship with W.H.O.5 – Future of TC 41 - WORKING CONFERENCES1.1 Working Conference on Computer Applications on Electrocardiography and Vectocardiography analyses.

This Conference held at the Esso Motor Hotel of Hannover from the 11th to the 14th of October 1971 gathered about 60 participants.

- From the Scientific point of view, it was a great success: nearly all the leaders in the field were present; the presentations had an excellent level; the discussions were very lively and most interesting; all the main topics of the field have been covered (see annexe I).

The local organization was satisfactory.

The weak point is the publication of the Proceedings, for two main reasons:

- the papers have not been circulated, not even written for most of them, before the Conference,
- the discussions have been very active.

So it has been very long and difficult to type the whole Conference. At the present moment, a crude text has been typed, and is in the way of being sent to the participants for correction.

The final manuscript is expected to be sent to the publisher (North Holland) the 1st of July. A contract has been signed with the publisher with the supervision of Mr. KRONEBERG.

The issue of the Book will take place in November.

1.2 Working Conference on “Mathematical Models in Medicine or Biology”

This Conference will be held in Varna between the 6th and the 11th of September 1972. It will be a subset of the Third Congress of Bulgarian Mathematicians. (see Annexe II).

The main problem with this Conference is the fact that the invitations have been sent very lately, just six months before the Conference. So the participation of many specialists can be compromised, specially from America.

The papers are expected for the first of July, they will be circulated to the participants before the meeting. Contacts have been taken for a publication by North Holland.

2 - WORKING GROUPS

2.1. W.G.4.1.

This Working Group has met at the beginning of December 1971 in Paris. Six people attended the meeting (I. ANDERSON from London, Professor HEITE from Germany, J. ROUKENS from Holland, T.HUSAK from Tchechoslovaquia, J.C. PAGES and F. GREMY from France).

This meeting was very successful: a complete analysis of the answers to the questionnaire has been made. From them, appeared some definite opinions about the education of different kinds of health personnel.

The writing of some recommendations has been initiated.

The next meeting will be in London the 27, 28, 29th of April.

A more complete report will be made at the next General Assembly, but the work done seems to me to be excellent.

2.2. W.G.4.2.

The last General Assembly had accepted the principle of the creation of a second W.G. for T.C. 4 on "Input and out put devices and procedures" and made some provision in the 1972 budget for such a Working Group.

But, the final decision was postponed until TC 4 was able to make very definite proposals on the aims of this Working Group.

We took the advice of Professor W. SCHNEIDER from Uppsala, who is most interested in this field, and who accepted to report at the TC 4 meeting the 4th of April

After discussion, we propose the following title: "Requirements for interfaces for input and out put procedures in medical computer applications".

The scope of the work will cover 4 main areas:

- tools needed in order to meet confidentiality and legality requirements,
- tools needed for presentation of computer prepared information to doctors, nurses, hospital administrators, patients;
- tools needed for control of online data input from instruments by health personnel;
- tools for interaction of different kinds of computers system.

The Working Group will establish contacts with related international standardization bodies.

Professor W. SCHNEIDER is very active in this field, and very ready to international cooperation. Very forceful man, he could be an excellent chairman. And propose his appointment.

3 - WORLD CONFERENCE ON MEDICAL INFORMATICS

3.1 Need for such a Conference

During our last TC 4 meeting in LJUBLJANA, after a proposal coming from Mr. ROUKENS, Dutch member of TC 4, we examined the possibility of organizing a "World Conference on medical data processing" under the cosponsor ship of TC 4 and IAG. It would be a Conference comparable to World Conference on Education in 1970.

The need for such a World Conference had been unanimously accepted by TC 4, provided there was a good scientific preparation. Indeed there have been no such a good conference since a NATO

Conference held in Elsenore 1966. And everyone agreed that IFIP, and particularly TC 4, should undertake this task. We thought that a conference of 600 to 1000 participants is a reasonable enterprise.

3.2 Objective

As elaborated the 4th of April by TC 4, the main objective of Conference is to provide a review, followed by a debate (or discussions) on current statutes (state of the art) of main computer's applications (uses) in Biology (Medical Research) medicine (Hospital, general practitioners) and public health (Health Centers Preventive Medicine) illustrated by concrete accomplishments based on operational projects (backed by several years of experience) having in mind a critical appraisal (evaluation from the technical, human, financial, legal, ethnical and even political point of view) of the achievements with a view to provide a guide-line for the future.

The plans we have adopted and proposed to the Council are the following:

3.3 Data and Place

Thinking that 1974 is not a desirable date because of the IFIP Congress, and that 1975 is a too late moment, we propose the Conference will take place in 1973 June 18th to 22nd.

The place adopted is Amsterdam where there is a perfectly correct Congress Center with two big conference rooms (around 1000 and 400), several small ones at a big area for exhibition.

3.4 Financial problems

The budget goes up to 122 000 dollars according to the annexe No III, assuming 650 participants with a fee of 300 guilder (95\$) and expecting 32 000 \$ from exhibition.

At the beginning, we expected that IAG would take the corresponsability of the meeting and would make the necessary loan in order to initiate the preparation of the conference.

But according to a letter I have received the 24th of March, IAG does not want to be financially involved in such an enterprise.

So, we must ask from IFIP a loan of 20 000 dollars.

In order to avoid that neither IFIP nor individuals bear any risk in case of unfortunate results, the setting up of a legal entity authorized by the Dutch law (stichting) which could cover the financial risks.

3.5 Organizational aspects

For the organizational and local aspects of the Conference, we expect to pass a contract with the Dutch Studie Centrum who will take the responsibility of the organization.

Actually the Studie Centrum will ask his employee, Mr. VEENHUIS, to act as secretary general of the Conference (part time for 14 month).

Meanwhile, IAG who has withdrawn, still accepts to provide rooms for secretariat and meetings, and duplicating and communications facilities at the cost-price.

Several committees have been forecast as is mentioned in annex IV. Not every people mentioned here have already accepted.

3.6 Scientific aspects

The proposed program elaborated by F. GREMY, and J.M. FORSYTHE, and discussed by the former with different french, british and american personalities met in Toulouse can be found in Annexe III.

This program has been convincingly criticized by TC 4 finding that it could be offer the matter for too unrealistic considerations. So, it will be rethought within a few weeks by the executive program Committee (F. GREMY, J.M. FORSYTHE, W. SCHNEIDER, D.WHITE, and if he accepts P. REICHERTZ). This modification does not delay the first call for papers.

As for the calendar, the following timing is forecast; if the principle of the Conference is accepted:

- April 1972: distribution of call for papers
- 30th October 1972: receipt of full papers for review by Program Committee
- 15th December 1972: decision of Program Committee (acceptance or rejection)
- 31st January 1973: Copy to printers for publication of the Conference book before the Conference.

3.7. Conclusion

As complete precision cannot be still given for every aspects (financial, organizational, and scientific) a longer delay should be preferable. The best date being spring 1974.

But, this should suppose the acceptance by IFIP of two major IFIP world events in the same year.

4 - RELATIONSHIP INTO W.H.O.

A letter from Doctor CANDAU, Director General of W.H.O., dated February 1972 informed IFIP of its admission into official relations with the World Health Organization.

The implications of the decision will be the following for TC 4:

- invitation of representative of W.H.O. to every event at both the headquarters and the European level,
- communication to the headquarters and to the regional office for Europe of the minutes and proceedings of every TC 4 events,
- appointment of TC 4 member for official liaison with W.H.O: Mr. MARCHMANN from Denmark has accepted to act as liaison.
- mutual consultation for planned activities of both organization, leading eventually to coordination or cooperation (for instance: joint conferences)

5 - FUTURE OF T.C. 4

The circular letter made of J.M. FORSYTHE and A. MARCHMANN will study the problem and make a report to be submitted to the next meeting of TC 4.

The participation of an IFIP officer to this subcommittee seems to be highly desirable.

Vienna, 5th April 1972
F. GREMY
Chairman of T.C.4

ANNEX I

REPORT ON THE I.F.I.P. – TC 4 – WORKING CONFERENCE ON

COMPUTER APPLICATION FOR ECG AND VCG

Analysis from 11-14 October 1971 in Hannover

from B. SCHNEIDER

The Objective of the Conference was to give an overlook on the current status of Computer application in ECG and VCG analysis and discuss guidelines for further developments in this fields. The whole theme was divided in 4 main topics:

1 – Physiological background and current status of computer applications in ECG and VCG analysis.

2 – Technological problems and discussion of the lead-system.

3 – Programming problems

4 – Epidemiological problems

The Conference was prepared by a local organising committee, consisting of B. SCHNEIDER as chairman and Mr. ZYWIETZ as secretary and a program committee consisting of Professor PIPBERGER (Washington D.C) as chairman, Doctor DUCIMETIERE (Paris), Professor LOOGAN (Dusseldorf), Professor SCHNEIDER (Hannover), and Mr. ZYWIETZ (Hannover). The program committee nominated organisers of different sessions. The organisers invited main speakers for the different topics and decided on the acceptance or rejection of some contributed papers.

About 40 contributions were presented. The number of participants was about 60.

The main principle of the Conference was, to give the possibility of a broad discussion between the experts on the advantages and disadvantages of their approaches and developments of Computer systems for ECG and VCG analysis. Therefore the different themes were introduced by a short report or system presentation, which was followed by invited and free discussions. This made enormous difficulties for the preparation of the proceedings of the Conference. Only a short part of the proceedings was available as preprints of reports on presentations at the beginning of the Conference. The greater part of the proceedings consisted of discussions given during the Conference. These discussions were recorded by tape and typed later on. This typed text was crude revised by the editorial board. This crude revised version of the manuscript was finished at the end of February 1971.

In the mean-time IFIP made a contract with North-Holland Publishing Company. The manuscript was further sent to the chairmen of the sessions for further revision and approval of the text. It was decided that this revision should be done till the end of May with an absolute deadline of 1st July. At this date the approved final manuscript of the Proceedings should be submitted to North-Holland for printing. The book should be issued at November 1972.

B. SCHNEIDER
5th April 1972

ANNEX II

To: IFIP TC.4 Meeting in Vienna 4.4.1972
From: Bl. SENDOV
Subject: Working Conference, Mathematical Models in Biology and Medicine

According to the TC 4 Meeting in Ljubljana in August 1971 (Minute 5/71) the Working Conference on Mathematical Models in Biology and Medicine will be organized in the framework of the Third Congress of the Bulgarian Mathematicians, to be held in Varna from 6 to 15 September 1972. The Congress and its satellite events (including to TC 4 Conference) will take place in the International Scientists House Fr. JOLIOT – CURIE – Resort Drujba, near Varna. "The organization of our Conference will be easier, when placed in the framework of a bigger event. Participants in the Conference, if they wish, may register also as members of the Congress. Although the participants at the Conference are not expected to pay any participation fee, they should fulfil and send back in due time the forms (No 1-4), accompanying the Second communication for the above mentioned Congress. The second Communication will appear at the second half of April 1972 and will be mailed immediately.

A local Organizing Committee has been formed in Sofia, as a subset of the Organizing Committee of the Congress: Head: Bl. SENDOV, vice-head: Professor R. TZANEV, secretary: E. KOLAROVA.

About 50 inviting letters have been sent at the beginning of March 1972 to all TC 4 members and according to the list suggested by the Program Committee (see attached copy).

Suggestions from individual Members of TC 4 (according to the decisions taken in Ljubljana) have been received only from one person.

The list of people that have answered positively this invitation could not be prepared for the moment (the delay was April 1st) and we hope to have it ready at the mid of this month.

My recent meetings with Professor W. BOSSERT (Harvard), Professor F. GREMY (Paris) and Professor JURAVLEV (Moscow) made it quite hopeful to me that enough participants will attend the Conference.

Because of a shortage of travel expenses the program Committee could not gather together up to now and will take its decision by correspondence.

The papers to be held at the Conference will be sent to all participants not later than August 15 1972.

One of the two editors of the Proceedings of the Conference has not yet been nominated.

B. SENDOV

IFIP / T C – 4 WORKING CONFERENCE ON
MATHEMATICAL MODELS IN BIOLOGY AND MEDICINE
Varna, Bulgaria, 6 – 11 September 1972

Sofia, March 3, 1972

Dear Colleague,

On behalf of the Organizing Committee we have the pleasure to invite you to take part in the IFIP/TC-4 Working Conference on Mathematical Models in Biology and Medicine, which will be held in Varna, Bulgaria (in the International House of Scientists "Fr. Joliot-Curie" at the Black seacoast) from 6 to 11 September.

The Conference will be organized as a satellite of the Third Congress of the Bulgarian Mathematicians (6 – 15 September, Varna) and we expect that about 50 invited persons will attend it.

The problems proposed to be discussed are as follows:

- a) genetic control mechanisms and their role in the study of differentiation, cell-virus and carcinogenesis;
- b) biochemical control mechanisms and their role in cellular and physiological regulation;
- c) the kinetics of compartment models and their role in pharmacokinetics;
- d) physiological control mechanisms;
- e) populational or ecological control mechanisms;
- f) information theory in biology and medicine;
- g) medico-social control mechanisms.

If you wish to present a paper on any topic of the Conference a detailed instruction will be sent to you regarding the preparation of the manuscript since the papers will be published as Proceedings of the Conference by North-Holland Publishing Company. The full text of your paper should reach us not later than July 1, 1972.

In case you confirm your participation in this Conference you will receive also the information concerning the organization of the Third Congress of the Bulgarian Mathematicians, including accommodation, scientific programme and social events. The provisional cost of residence will be about 15 US dol. per day (board and lodging). We regret that IFIP is unable to offer you financial support for travelling and local expenses.

We shall appreciate very much your accepting this invitation and sending back the form enclosed not later than April 1.

Looking forward to meeting you in Varna, we remain,

Yours sincerely,

Prof. R. Tsanev

Prof. Bl. Sendov

ANNEX III

CONCISE BUDGET WCMI. 73

| | <u>Dfl.</u> | <u>U.S. Dollars</u> (Approxim.) |
|---|-------------------|------------------------------------|
| <u>EXPENDITURE</u> | | |
| 1. Programme Committee | 55.000,00 | 17.000,00 |
| 2. Publicity and Promotion | 46.000,00 | 14.000,00 |
| 3. Rent of Premises | 25.000,00 | 8.000,00 |
| 4. Secretariat; Organisation Costs | 120.000,00 | 37.000,00 |
| 5. Exhibition (see Income 3) | 50.000,00 | 15.000,00 |
| 6. Social Events (see Income 4) | 35.000,00 | 11.000,00 |
| 7. Miscellaneous | | |
| Unforeseen | 25.000,00 | 8.000,00 |
| Reserve fund / possible surplus | <u>35.000,00</u> | <u>11.000,00</u> |
| | <u>391.000,00</u> | <u>122.000,00</u> |
| <u>INCOME</u> | | |
| 1. Registration fees | | |
| Approx. 650 participants at Dfl. 300,00 | 200.000,00 | 62.000,00 |
| 2. Advertisements in Programme Booklet | 56.000,00 | 18.000,00 |
| 3. Exhibition (see Expenditure 5) | 100.000,00 | 32.000,00 |
| 4. Social Events (see Expenditure 6) | 35.000,00 | 10.000,00 |
| 5. Donations | <u>0</u> | <u>0</u> |
| | <u>391.000,00</u> | <u>122.000,00</u> |

The following flow of Expenditure and Income shows that an investment (loan) of some U.S. Dollars 20.000,00 will be needed until January 1973.

| | | | | | |
|---------------------|------------------|--------------|----------------|--------------|--------------|
| <u>Expenditure:</u> | April 1972 | \$ 1.800,00 | <u>Income:</u> | January 1973 | \$ 64.000,00 |
| | May 1972 | \$ 8.000,00 | | June 1973 | \$ 58.000,00 |
| | June '72 thr. | | | | |
| | March 1973 | \$ 18.000,00 | | | |
| | (every month | | | | |
| | \$ 1.800,00) | | | | |
| | April / May 1973 | \$ 14.000,00 | | | |
| | June 1973 | \$ 80.000,00 | | | |

Paris, March 10th, 1972
F. Gremy
Chairman TC. 4.

ANNEX IV

SOME ASPECTS OF THE ORGANIZATION OF THE PROPOSED
I.F.I.P WORLD CONFERENCE ON MEDICAL INFORMATICS

2. The responsibility for this Conference is proposed to be in hands of a joint TC.4/IAG Steering Committee, consisting of the following persons:

| | |
|----------------|--|
| Chairman: | F. Gremy, F |
| Vice-Chairman: | A.S. Douglas, UK S.D. Duyverman, NL |
| Members: | K. Fialkowsky, PL J.M. Forsythe, UK F.E. Heart, USA P.H. Kool, NL J. Roukens, NL and possibly others to be invited. |

The Steering Committee will be assisted by

- a) a Finance Committee: P.H. Kool, NL, Chairman; E.L. Harder, IFIP, H.G. Fient, IAG, and B. Wolfrat, IAG, members;
- b) a Publication Committee: J.M. Forsythe, UK, Chairman; J. Anderson, UK; F. Gremy, FR; and B. Scheepmaker, NL, members;
- c) a Programme Committee: F. Gremy, FR, Chairman; J.M. Forsythe, UK, J. Roukens, NL, W. Schneider, SW, and D. White, UK, members.

A Programme Advisory panel of experts from all countries will be set up to assist the Programme Committee.

- d) an Exhibition Committee of Netherlands experts will supervise and coordinate the exhibition policy;
- e) a Local Organising Committee will be in charge of all administrative and technical arrangements. This Committee will be chaired by J. Roukens with membership through the IAG.
- f) an Organising Agency will be charged with registration and administration of Conference participants as well as hotel reservation.

ANNEX V

OUTLINE OF THE PROGRAMME OF W.C.M.I.

Two main themes:

Theme 1: HUMAN ASPECTS OF MEDICAL AND HEALTH COMPUTERS

Proposed topics for 8 sessions:

1. Education of doctors and paramedical personnel in Computer Sciences
2. Methodology of evaluation of Information systems
3. Human relationship and the Computer
 - a) Implication for doctors of computer aided decision taking
 - b) Effects of computer on patient-doctor relationship
 - c) Patient-machine communication
4. Confidentiality and legality
5. The role of Central authorities in developing health computing
6. Management changes connected to the introduction computer
7. Medical thinking and computer
8. Strategies for introducing automatic data processing in health systems

Theme 2: APPLICATION AREAS

Proposed topics for 8 sessions:

1. Computer aided diagnostic procedures
2. Intensive patient care systems
3. EEG and neurophysiological data analyses
4. Pattern recognition of two dimensional images
5. Software for medical data banks
6. Linguistic problems in medicine
7. Standardisation of medical records
8. Information and communication systems for general practitioners
9. Medical population screening
10. Health statistics and epidemiology
11. Personal identification
12. Review of old and new I/O devices and man-machine
13. Computer aided instruction in medicine.

Paris, March 10th, 1972
F. Gremy
Chairman TC. 4.

JV/64

REPORT OF THE FIRST MEETING OF THE ORGANIZING
COMMITTEE OF THE IFIP WORKING CONFERENCE
"PRINCIPLES OF COMPUTER AIDED DESIGN"

The meeting took place at Mr. Llewellyn's office in Cambridge (U.K.) on March 14, 1972.

The meeting was attended by:

Mr. Llewellyn (C.A.D. centre Cambridge)
Mr. Vlietstra (Philips Research Laboratories, Eindhoven)
Mr. Wielinga (Philips Research Laboratories, Eindhoven)
Mr. Rosen (Monsanto Company, St. Louis) was absent.

During the meeting the following topics were discussed:

1. The organization of the conference
2. The facilities in Eindhoven
3. The allocation of the \$2000,00 IFIP grant
4. The proceedings of the conference
5. Dates and places of meetings of the organizing committee.

1. The organization of the conference

The total number of participants will be restricted to a maximum of 40 persons. This number includes the anticipate number of 16 participants, who will be invited to present a paper.

The conference will be held on three successive days:
October 16, 17, and 18.

During the first day four papers will be given. The subject of these four papers will be:

- a) Definition and analysis of C.A.D in order to identify those aspects of the design process and computer technology that combine to produce successful C.A.D. application.

It is felt by the committee that these papers should evoke a sound and fruitful discussion. The length of the presentation should not exceed 60 minutes.

On the second day six papers will be presented. The contents of these papers should deal with:

- b) Software philosophy related to C.A.D.; systems software; "methodology" of C.A.D. systems; C.A.D. oriented data structure and relation with more general data bases; the "package" concept; lifetime of C.A.D. software; the language in which the C.A.D. system is written; the "language" used in the communication with the system; the interface between the engineer and the computer programmer input / output organizations; coupling with testing and manufacturing systems.

The length of these papers should not exceed 40 minutes in order that a reasonable amount of time is left for discussion.

The third day will be devoted to:

- c) Analysis of particular C.A.D. applications, stressing essential features of wider potential use; economics of these applications; how to cost the various techniques of C.A.D.; cost returns ratio evaluated for means and techniques; how to treat intangibles like value of time saved, better design and product, overall improvement in the design/manufacture/sales systems; hardware configuration options; peripheral equipment; access-time considerations etc.

Six papers, not exceeding 40 minutes will be given during the third day. The committee would also prefer that two papers on each of the following subjects should be presented:

1. Environmental problems:
Examples include urban planning; architecture; high-way design; housing; schooling; pollution control.
2. Network design:
Examples include pipe routing; transportation systems; Process plant flow sheets.
3. Industrial product design:
Examples include die and mould design; surface design; automobile and ship design; domestic appliances design.

The papers and discussion of the papers will take place between 9.00 a.m. and 6.00 p.m. Obviously there remains the possibility of having continued discussion on special topics or sub-topics informally during the evenings.

A number of experts in the above mentioned areas have been invited to present a paper and twelve affirmative replies have been received. A list of potential speakers has been compiled and the committee will draw up a list of speakers before May 20.

The final invitations to the speakers and the other participants, who are qualified as experts in the field of participants, who are qualified as experts in the field of C.A.D. will be sent at the end of May. The speakers will be requested to provide the committee with a synopsis of their papers, which will be distributed to all the participants.

The chairman of the organizing committee will report to IFIP/TC 5 at their meeting proceeding the IFAC congress in June.

2. Facilities in Eindhoven

The conference will be held in the "Dr.A.F." hall, one of the conference rooms of "Philips Recreation Centre".

Visual aids, such as an overhead projector, a slide projector and a film projector are available.

Philips Research Laboratories will provide lunches on October 16, 17 and 18 and a formal dinner on the last day of the conference

The participants will receive an exhaustive list of the hotel accommodation in Eindhoven and the travel possibilities.

3. The allocation of the \$2000,00 IFIP grant

The committee decided to allocate \$500,-- for secretariat services, the rent of the conference hall, and the rent of special equipment. The remaining \$1500,-- will be used to cover part of the travel expenses of the organizing committee.

It is felt that only a part of the \$2000,-- will be used. The large amount of money allocated to cover travel expenses is justified by the fact that the committee members are subject to budgetary restrictions.

4. Proceedings of the conference

The chairman will investigate the possibility of editing and publishing the full text of the papers to be presented and any ensuing discussion which may contribute to the aims of the working conference. The chairman would like to receive the IFIP Council's comment on this subject.

5. Dates and places of meetings of the organizing committee

The following meetings are scheduled:

May, 23, Eindhoven, The Netherlands

September (during the week of September 11) – tentative -

October 15, Eindhoven, The Netherlands.

Chairman's remark

During the first week of December a letter was sent to all the members of the IFIP General Assembly and the members of the IFIP/TC 5 asking them to provide the organizing committee with a list of names of potential speakers.

The chairman would like to record his discontent at the lack of response to the letter of December.

Of all the people contacted a reply was only received from the General Assembly member from France.

Even if members of the General Assembly are unable to provide an IFIP organizing committee with the appropriate information, the almost unanimous lack of response, positive or negative, is utterly frustrating.

The chairman hopes that the Council will note with interest these remarks, and will do everything possible to activate the formally appointed General Assembly members.

Eindhoven, March 1972

J. Vlietstra
Chairman of the organizing
committee of the working
conference "Principles of
C.A.D.

SYSTEM SCIENCE DEPARTMENT
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
LOS ANGELES, CALIFORNIA 90024

May 9, 1972

T - C - 1

TO: ALL GENERAL ASSEMBLY MEMBERS, IFIP

SUBJ. TECHNICAL COMMITTEE 7: OPTIMIZATION

As Chairman of Technical Committee 7, it is my pleasure to request you to nominate a possible member representing your country on the Committee. If some of you have already done so, please disregard this letter.

The aims of this Committee are:

- ... to provide an international clearing house for computational aspects of optimization problems in diverse areas and to share computing experience gained on specific applications;
- ... to promote the development of necessary high-level theory to meet the needs of complex optimization problems and establish appropriate cooperation with the International Mathematics Union and similar organizations;
- ... to foster interdisciplinary activity on computational problems spanning the various areas such as Economics (including Business Administration and Management), Biomedicine, Meteorology, etc., in cooperation with associated international bodies.

Its scope includes:

Computational aspects of Optimization problems arising in such areas as Aerospace, Biomedicine, Economics, Meteorology, and Public Services (Health, Environment, Police, Fire, Transportation, etc.).

Some specific examples are:

- ... On line and off line computational techniques in Modelling, Simulation, and Control of Dynamic Systems;
- ... Optimization of resource allocation in urban systems;
- ... Optimization of pollution control systems;
- ... Optimization of pattern recognition and classification systems;
- ... Optimization of man-machine systems.

At the present time, Working Groups on the following areas are being formulated:

- 1) Modelling and Simulation of Large Systems
- 2) Numerical Analysis
- 3) Computer Networks

A.V. Balakrishnan
Chairman, TC-7

AVB:tc