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for*

IMMUNOLOGY

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*de la Société Canadienne
d'IMMUNOLOGIE*

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BULLETIN

OF THE CANADIAN SOCIETY FOR
IMMUNOLOGY

DE LA SOCIÉTÉ CANADIENNE
D'IMMUNOLOGIE

Vol. 4, No. 1

December, 1970

CONTENTS

S. Dubiski: EDITORIAL	1
CANADIAN SOCIETY FOR IMMUNOLOGY	
President's Report	2
Minutes of the Annual Business Meeting, June 10, 1970	7
Treasurer's Report	10
Auditor's Report	11
New Members	12
Statement of C.S.I. Members as of May 14, 1970	13
1971 Elections - Important Announcement	14
IMMUNOLOGY IN CANADA AND ABROAD	
Fifth International Symposium of the C.S.I.:	
Biological Activities of Complement	15
International Union of Immunological Societies	16
The Terms of Reference for The Study of Basic Biology in Canada ..	19
SCITEC	20
APPLIED IMMUNOLOGY	
"Complete Solution" in Immunology	22
ANNOUNCEMENTS	
First International Congress of Immunology	23
Training Program in Clinical Immunology	23
Course on Current Methods of Immunological Research and Diagnosis	24
Immunology Research Program of the U.S. Navy	24
Monthly Newsletter of the British Society for Immunology	26
Immunology Training Program	26
Fifth International Congress of Pharmacology	29
Proceedings of the 8th International Congress of Biochemistry	30
The Annual Survey Course in Immunology	31
Twelfth Annual Basic Science Symposium on Immune Complexes and	
Disease	32
Heinz Karger Prize 1970	34
International Union of Immunological Societies: Symposium	
on the Biological Significance of Transplantation Antigens.....	35

EDITORIAL

It is almost a year since the last issue of the Bulletin has been published. This issue was intended to be published during the Summer, but had to be postponed because several articles were delayed or did not materialize. In this issue you will find some information which may be of interest to you: Secretary's Report, Treasurer's Report, various communications, information about the activities of the International Union of Immunological Societies, the First International Congress of Immunology and last but not least the article about the Fifth International Symposium of the Canadian Society for Immunology on Biological Activities of Complement which was held in Guelph on August 27 - 29.

It is fair to say that the Symposia organized by the Canadian Society for Immunology have now become a tradition. And traditional is also the nice and relaxed atmosphere during these symposia. These traditions were very strongly reinforced during the Guelph Symposium by the thoughtfulness and efforts of the Organizing Committee. The pleasant surroundings of the newly built lecture theatre, the evening concert, a visit to the birds' sanctuary were very pleasant additions to the superbly planned and exercised scientific programme.

S. Dubiski

PRESIDENT'S REPORT

(Presented at the Society's Annual Business Meeting on
Wednesday, June 10th, 1970 at
Institut de Microbiologie et d'Hygiène, Laval-des-Rapids, Québec)

I am glad to be able to report that since our last meeting in Edmonton the scientific and educational activities of the Canadian Society for Immunology have continued throughout this year with vigor and enthusiasm. Last August the Society launched with the help of Dr. D. Dufour the first laboratory course on "Advanced Immunological Methods" which was held at Laval University. This intensive two-week course was attended by over thirty young scientists from across the country and proved to be a most successful venture didactically and from an organizational point of view. In November, 1969, Drs. S.O. Freedman and Ph. Gold organized a most successful International symposium on cancer immunology in Montreal which was attended by over 400 participants from Canada, U.S.A. and many other countries. The large number of papers presented at the immunology sessions at this meeting represent in a tangible manner the intensified activities in research in immunology throughout the country. Obviously, it is important for all of us to make an effort to maintain high standards of excellence and originality particularly at this time when research funds are becoming scarcer and scarcer and when the competition for the budgets provided by government and private agencies among the different biomedical disciplines becomes stiffer.

Next month, close to forty Canadian investigators will attend the NATO Advanced Study Institute on "Cellular Differentiation and Regulation of the Immune Response" at Minaki Lodge, Lake of the Woods, near Winnipeg, which has been generously co-sponsored by the Medical Research Council of Canada and the University of Manitoba. During the month of August, Dr. D.G. Ingram will chair the International Symposium on "Biological Activities of Complement" at Guelph. Dr. E. Potworowski of the Institut de Microbiologie et d'Hygiène has taken the initiative of publishing a bulletin entitled "Histocompatibility Newsletter" to provide for a rapid exchange of information among investigators working in the area of transplantation.

Obviously, these activities are indications of our Society's good health. However, I am somewhat surprised to note that our membership has not increased significantly over the last year and it is the conviction of your Council that there are many investigators and professionals working in the different areas of immunology in Canada who are potential members of our Society. May I, therefore, ask that each and all of you canvass actively your professional friends in your own institutions or in other laboratories in your cities with the view to their joining the Society.

It is again my pleasure and privilege to express our sincerest thanks, on behalf of the Society, to Dr. S. Dubiski for the great service he has unsparingly rendered as the Editor of our Bulletin. In this connection, may I ask all of you to submit directly to Dr. Dubiski (The Toronto Western Hospital, Immunology Laboratories, Connaught Medical Research Building, 1 Spadina Crescent, Toronto 179, Ontario) any items of interest to members at large for publication in the Bulletin.

As you know, Dr. B. Cinader was elected last year at the meeting in Brugge, Belgium as the first President of the newly constituted International Union of Immunological Societies, which is now organizing the First International Congress of Immunology to be held in Washington early next August. For an orderly system of business procedures in the future, this Union is now in the process of drawing up its constitution. Clearly, each constituting society, and ours is one of them, should be represented by an elected member. I should like, therefore to move that we elect Dr. B. Cinader as the official representative of the Canadian Society for Immunology on the I.U.I.S.

(Dr. Bram Rose seconded this motion, which was carried unanimously)

The activities of local Antibody Clubs has continued in most centres with renewed vigor. Again it would be valuable for all members to know what is going on in other centres and this can be easily achieved by providing a list of local activities to Dr. Dubiski for publication in the Bulletin. In this context, the three Antibody Clubs in Western Canada in Edmonton, Saskatoon and Winnipeg, have joined forces this year in a new venture to bring distinguished immunologists to these three centres from the four corners of the world on a cost-sharing basis, under a scheme which will be known as the Western Tour Lectureship.

The format of meetings in the forthcoming First International Congress of Immunology in Washington will be unique, inasmuch as it will do away with the standard ten minute-contributed papers. It will consist of about fifteen invited symposium papers and of about eighty workshops on specialized topics, each to be open to about sixty active participants. You will be receiving soon a pamphlet giving exact information and registration forms and my suggestion would be that you should respond to this as soon as possible to ensure your place in a workshop. For further information and registration forms write to Secretariat, First International Congress of Immunology, 9650 Rockville Pike, Bethesda, Maryland 20014, USA.

Our Society Council approved last year that an International Symposium on "Immunological Advances in Allergy" be organized by Dr. Bram Rose, with my aid, in or near Montreal sometime in 1971. This matter will be considered in more detail and pertinent information will be forthcoming either in the Bulletin or in the form of a Newsletter sent to each member of the Society.

The meeting of the Canadian Federation of Biological Societies will be held next June in Toronto. In this connection, I am happy to report that the Federation Board, recognizing the explosive growth of Immunology and its impact on other biological sciences, approved that the next Federation Symposium be organized by our Society on an immunological topic of broad interest. This means that the cost of this future Symposium will be covered entirely from funds provided by the Federation as a whole, and not by the Society. In addition, we shall have our regular half-day Society Symposium and Dr. Cinader has agreed to set up and chair a local Committee in Toronto, which will be responsible for organizing these two symposia.

The nominating committee for the Society officers to be elected at our next annual meeting in Toronto in 1971 consists of

Dr. W.D. Armstrong (Edmonton)
Dr. G. Lamoureux (Montréal)
Dr. B. Cinader - Past President (Toronto)
Dr. A. Sehon - President (Winnipeg)

Please submit names of members who are prepared to act on the Council of the Society; clearly, the continuity and the standards of the affairs of the Society depend on the officers whom we elect to act on our behalf.

As you may recall, a questionnaire was circulated to biologists in Canada in 1967 with the aim of collecting statistical information for the preparation of a comprehensive report by the late Dr. K.C. Fisher, which was to be entitled "A Study of Basic Biology in Canada". This project was initiated under the terms of an agreement between the Science Council of Canada on the one hand, and the Biological Council of Canada and the Canadian Federation of Biological Societies on the other, and it had been anticipated to be completed by September 1968. (The original terms of reference for this report are attached.) Thirty-one panels were set up to interpret and review the statistical data which were to be tabulated according to a computerized program. Dr. Cinader was appointed as Chairman of the Panel on Immunology and coopted the aid of Dr. A.C. Wardlaw and my own. From an analysis of the questionnaire produced by Dr. Fisher and his staff, we became apprehensive about the meaningfulness of the questionnaire itself and we produced in turn a simpler questionnaire on the status of immunology in Canada which was circulated to Deans and departmental chairmen in all medical schools in Canada and all members of the Canadian Society for Immunology. Our report was published last year in the Bulletin of the C.S.I., Vol. 3, No. 1, July 1969.

The conclusions and recommendations contained in the preliminary report produced by Dr. Fisher towards the end of 1969 were not endorsed by the CFBS or the BCC and, unfortunately, before this Report could be revised, Dr. Fisher passed away. Under the circumstances, the Science Council Committee on Basic Biology commissioned Dr. P.A. Larkin to produce a report on "The Future of Biology in Canada". A draft of this report,

totalling over 160 pages was released on May 13, 1970 to members of the Science Policy Committee of the CFBS. A copy reached me on May 20th with the invitation that I, along with representatives of the other biological societies, appear in Ottawa on May 29th to discuss our reaction to this report with Dr. Larkin and Dr. F.C. MacIntosh, Chairman of this Science Council Committee and with Dr. W.J.D. Stephen, Project Officer of this Science Council Committee. Regrettably, this new report dealt exclusively with activities of biologists supported by the National Research Council, i.e. of investigators in the Faculties of Arts and Science. Apparently, these were the new terms of reference given to Dr. Larkin by the Science Council Committee since for administrative reasons this Committee considered that the research efforts in the area of biology in other laboratories be surveyed in separate reports on Agriculture, Forestry, Fisheries and Wildlife, Health Sciences, areas which may be defined as mission-oriented. Clearly, we must watch closely the further developments of these political decisions which will in all probability determine government policies as regards the overall financing of biology in Canada and the order of priorities among different branches of biology. All I can say at this time is that the Science Policy Committee of the CFBS has expressed its disapproval of these new terms of reference and Dr. Larkin has agreed to prepare another version, but it does not seem that the new terms of reference stipulated by the Science Council Committee will be modified to broaden the scope of the survey and to conform with the original agreement which was to be the basis of the Fisher Report. It is disappointing to think that under the circumstances the Panel Reports, which were prepared by the representatives of the different branches of biology, will not be incorporated in the final report of Dr. Larkin and that the recommendations made by the representatives of the different branches of biology in Canada will be simply swept under the carpet. Since most of the research in immunology is being conducted in departments within Faculties of Medicine, we cannot expect that our report would have a prominent place, if any, in the final report of Dr. Larkin.

My next few remarks will deal with another aspect of "science politics", namely with the newly formed national organization designated as SCITEC, which is the abbreviated form for

SCIENCE-TECHNOLOGY CANADA-

It appears that the main raison d'être for this national organization is the need for a strong voice and a consensus of opinion concerning advice that should be given to the Senate Committee on Science Policy and other government agencies concerned with the science policy in Canada. In short, the role of SCITEC would be to cover the areas of responsibilities divided in the U.S.A. among the three organizations, The National Academy of Sciences, The National Academy of Engineering and The American Association for the Advancement of Science. The Science Policy Committee of the CFBS elected its Chairman, Dr. J.W. Pearce of the Department of Physiology, University of Toronto, to represent CFBS on the steering committee of SCITEC.

Dr. Norman Grace, President of SCITEC Council (and of the Chemical Institute of Canada) gave yesterday evening an open address outlining the purposes and plans of SCITEC.* Early this week at the meeting of the Science Policy Committee of the CFBS, it was suggested that each Society provide SCITEC at this time a founding membership. The magnitude of our contribution will have to be decided by this meeting. All I know is that sums of the order of \$500. were provided as founding memberships by the Graduate Students' Association of the University of Toronto, by the Chemical Institute of Canada and the Association of Physicists, and \$1,000. by A.Q.F.A.S. May I propose that we contribute the sum of \$200. as our Society's founding membership.

(The motion was seconded by Dr. Dossetor and carried without discussion.)

Finalement je voudrais exprimer dans le nom de la Société Canadienne d'Immunologie notre appréciation au docteur Borduas pour ses efforts d'avoir organisé le programme du Symposium "Antilymphoid Specific Antibodies in Immunosuppression", qui suivra en quelques minutes, et nos remerciements profonds au docteur Armand Frappier pour l'hospitalité chaleureuse qui nous a été accordée à l'Institut de Microbiologie et d'Hygiène et pour son appui généreux concernant le financement de ce Symposium.

Alec Sehon

* Please see Appendix on SCITEC, which outlines its purposes as set up by Dr. N. Grace. (page 20)

THE CANADIAN SOCIETY FOR IMMUNOLOGY

Minutes of the Annual Business Meeting
June 10, 1970

The business meeting took place on June 10, 1970 at 1:30 p.m. at the Institute de Microbiologie et d'Hygiène at Laval des Rapides. The President, Dr. A. Sehon, as chairman of the meeting called upon the Secretary to give his annual report.

SECRETARY'S REPORT:

1. Membership of C.S.I. - Changes of membership which occurred during 1969-70 were reviewed. The names of 13 new applicants for elected or associate membership were read. The members were asked for approval of their application.
 - Dr. D. Osoba put the motion for acceptance
 - Seconded by Dr. B. Rose, and voted unanimously in favour.
A list of these members is given on page 12.
2. Finances - The statement of the accounts for 1969-70 was given as submitted by the Treasurer. The books were audited by Drs. W.B. Chodiker and G.H. Strejan.
 - Dr. D. Dufour requested for the sources of the credits to be read loudly.
 - Dr. A. Sehon suggested the report to be made available to any member upon request. It will also be published in the Bulletin. (See page 10)
3. Bulletin - To be published shortly.
4. Membership List - It was suggested that a new membership list be published together with the constitution, now including the amendments. Dr. A. Sehon made it known that the names of the C.S.I. members are included in the list of the C.F.B.S. which can be distributed by Dr. K. Carroll.
 - Dr. D. Dufour put the motion that a membership list be published at the cheapest possible way and be distributed to the members.
 - Seconded by Dr. P. Sacra.
 - Twenty-six members voted in favour of the motion and two against, and the motion was passed.

5. Information Retrieval - Dr. S. Fedoroff was asked to present the proposal for "information retrieval", through I.S.I. In order for this to become financially attractive, the largest possible number of members should show interest. Each interested member should submit a "profile" which should be of a narrow interest and the whole group as a profile of the Society could be submitted. Participating members will receive the titles of papers relevant to the profile.

The cost now per individual may be around \$100.00, however as Society profile may cost only \$40.00.

Members interested were instructed to contact further, Dr. S. Fedoroff, who will investigate the matter further and perhaps report later the results of his investigations.

6. Syllabus in Immunology for C.S.L.T. - Dr. P. Dent was asked to present briefly the view of asking the Canadian Society for Laboratory Technologists (CSLT) of recognition of Immunology as a separate sub-specialty, and prepare a syllabus.

The membership voted in favour of giving Dr. P. Dent the mandate to select a committee of six members to write the syllabus.

7. Canadian Immunology Journal - The Chairman informed the membership about a proposal from Dr. J. Bienenstock of publishing a Canadian Journal on Immunology.

At the suggestion of the President, Dr. J. Bienenstock will form a committee of three members to investigate the various aspects related to the above proposal.

MEMBERSHIP DUES:

According to the Constitution, the dues for membership should be collected at the beginning of the year. For various reasons the billing so far has taken place with some delay. In order to try to have the billing done earlier we have billed last year a few months earlier than previously (December 1969 for 1969), and this year we will bill in September for 1970. So that late in Spring the billing for 1971 will take place before the change of officers.

The treasurer will treasure your prompt response.

GROUP SUBSCRIPTION:

Last year the Journal of Immunology did not notify us of a change in their subscription rate. Since the collection of the increase was delayed, this caused an unnecessary delay in the delivery of this Journal.

So this year we asked the Journal of their price for 1971. Sorry to say that it has gone up to \$24.00. The subscription rates for the other Journals will remain the same. In order to collect the subscription promptly, please note that there is a DEADLINE for sending your cheque.

Many members last year made the cheques payable in various ways. Please, we appeal for you to help us in processing your orders easier by making your cheque for the subscription payable to that particular Journal and send it to the Secretary. Make separate cheques for each Journal, since your cheque will be forwarded directly to the Journal. Send only money orders in US funds for US Journals.

Last year it cost the Treasurer and myself considerable time to sort out these cheques, and it cost the Society about \$9.00 in Bank Exchange Charges.

The cheques for Membership dues should be sent to Dr. L.L. DeVeber, not the Secretary.

NEW MEMBERSHIP LIST:

A new membership list is in the process of being printed, together with the Constitution, including the amendments. This list is as updated as is possible. Since it is extremely rare that a member notifies us about the change of address, many addresses, we predict, are already wrong.

There is no remedy to this situation, until each one of us takes one minute of his valuable time to send a note informing us of any change that occurs.

The list and the Constitution will be mailed in the near future.

F. Paraskevas

Treasurer's Report CSI - As At May 14, 1970

	<u>Receipts</u>	<u>Expenditures</u>	<u>Balance</u>
CIBC London Balance at June 18, 1969			\$ 2,612.63

CREDITS:

Bank transfer from Toronto a/c.....\$			
Membership dues and federation levies..	2,426.07		
Subscriptions to Journals received			
from members.....	750.67		
Federation rebate.....	162.31		
Bank credit adjustments for US cheque			
exchanges, etc.....	4.42		
Bank credit re. adjusted cheques and			
'collection only' a/cs.....	77.00		
			6,090.04

DEBITS:

Subscriptions to Journals for members..	\$ 752.93
Federation levy for 1968 (June '69)....	805.00
Federation levy for 1969 (May '70).....	1,257.55
Federation levy late receipts 1968	
(May '70).....	145.00
Postage for Bulletin, dues and	
correspondence.....	178.53
Printing and stationery for Bulletin	
and forms.....	306.68
Telephone - long distance.....	7.10
Photostat machine.....	25.80
Addressograph machine and plates.....	176.71
Travel expenses for Dr. Cinader re	
Science Policy Committee meeting....	87.60
International Union of Immunological	
Societies.....	75.00
Excess payments by members and refunds	
of subscriptions to Journals, received	
too late, and forwarding of cheque for	
Journal.....	54.27
Bank debit adjustment charges.....	9.39
Bank debit for cheques from closed a/cs	
and 'collection only' a/cs.....	77.15

BALANCE IN ACCOUNT AT MAY 14, 1970

\$ 2,131.33

L.L. DeVeber
Treasurer, C.S.I.

Auditor's Statement
May 28, 1970

Dr. F. Paraskevas
Secretary
Canadian Society for Immunology
Department of Medicine
Medical Faculty and University of Manitoba
Bannatyne and Emily
Winnipeg, Manitoba

Dear Dr. Paraskevas:

We, the undersigned, have examined the books of the Society as provided to us by the Treasurer, Dr. L. L. DeVeber. For the period audited, June 18, 1969 to May 14, 1970, we find the records to be complete and appropriate, and the balance correct.

Respectfully submitted,

W. B. Chodirker, M.D.

G. Strejan, Ph.D.

New Members

The following members were approved by the Council at the Annual Business Meeting - June, 1970:

1. DR. I.R. TIZARD (Elected membership) Dept. of Veterinary Microbiology & Immunology, Ontario Veterinary College, GUELPH, Ontario.
2. MR. JOHN S. DURAVETZ (Associate member) Connaught Labs., Rm. 220, 1 Spadina Cres., TORONTO, Ontario.
3. DR. D.R. FORSDYKE (Elected membership) Dept. of Biochemistry, Queen's University, KINGSTON, Ontario.
4. DR. GEORGE HOLME (Elected membership) Dept. of Immunology, University of Manitoba, 795 McDermot Avenue, WINNIPEG 3, Manitoba.
5. DR. MICHAEL R. QUASTEL (Elected membership) Radiation Protection Div., Dept. of National Health and Welfare, Brookfield Road, OTTAWA 8, Ontario.
6. MR. JAMES TUCK FORBES (Associate membership) Immunology Research Unit, Dept. of Biology, University of Mississippi, MISSISSIPPI 38677, U.S.A.
7. MR. TIBOR O. KOLOS (Associate membership) Northwestern General Hospital, 2175 Keele Street, TORONTO, Ontario.
8. DR. RONALD D. GUTTMANN (Elected membership) Royal Victoria Hospital, 687 Pine Avenue West, MONTREAL 112, Quebec.
9. DR. JOHN ARTHUR DIMENT (Elected membership) Dept. of Immunology, Univ. of Manitoba, 795 McDermot Avenue, WINNIPEG 3, Manitoba.
10. DR. ROBERT LANNIGAN (Elected membership) Dept. of Pathology, Foothills Hospital, N.W. CALGARY 42, Alberta.
11. MR. A. FORGET (Associate membership) Institute De Microbiologie et D'Hygiène, De L'Université De Montréal, Case Postale 100, LAVAL-DES-RAPIDES, Québec.
12. DR. M.H.K. SHOKEIR (Elected membership) University of Saskatchewan, University Hospital, Dept. of Pediatrics, Section of Medical Genetics, SASKATOON, Saskatchewan.
13. DR. JOHN DAVID WETHERALL (Elected membership) Dept. of Immunology, Univ. of Manitoba, 795 McDermot Avenue, WINNIPEG 3, Manitoba. --New Address Effective January 1971-- Immunochemistry Unit, Princess Margaret Hospital for Children, Perth, WESTERN AUSTRALIA, Australia.

New Members

The following members were approved by the Council at the Annual Business Meeting - June, 1970:

1. DR. I.R. TIZARD (Elected membership) Dept. of Veterinary Microbiology & Immunology, Ontario Veterinary College, GUELPH, Ontario.
2. MR. JOHN S. DURAVETZ (Associate member) Connaught Labs., Rm. 220, 1 Spadina Cres., TORONTO, Ontario.
3. DR. D.R. FORSDYKE (Elected membership) Dept. of Biochemistry, Queen's University, KINGSTON, Ontario.
4. DR. GEORGE HOLME (Elected membership) Dept. of Immunology, University of Manitoba, 795 McDermot Avenue, WINNIPEG 3, Manitoba.
5. DR. MICHAEL R. QUASTEL (Elected membership) Radiation Protection Div., Dept. of National Health and Welfare, Brookfield Road, OTTAWA 8, Ontario.
6. MR. JAMES TUCK FORBES (Associate membership) Immunology Research Unit, Dept. of Biology, University of Mississippi, MISSISSIPPI 38677, U.S.A.
7. MR. TIBOR O. KOLOS (Associate membership) Northwestern General Hospital, 2175 Keele Street, TORONTO, Ontario.
8. DR. RONALD D. GUTTMANN (Elected membership) Royal Victoria Hospital, 687 Pine Avenue West, MONTREAL 112, Quebec.
9. DR. JOHN ARTHUR DIMENT (Elected membership) Dept. of Immunology, Univ. of Manitoba, 795 McDermot Avenue, WINNIPEG 3, Manitoba.
10. DR. ROBERT LANNIGAN (Elected membership) Dept. of Pathology, Foothills Hospital, N.W. CALGARY 42, Alberta.
11. MR. A. FORGET (Associate membership) Institute De Microbiologie et D'Hygiène, De L'Université De Montréal, Case Postale 100, LAVAL-DES-RAPIDES, Québec.
12. DR. M.H.K. SHOKEIR (Elected membership) University of Saskatchewan, University Hospital, Dept. of Pediatrics, Section of Medical Genetics, SASKATOON, Saskatchewan.
13. DR. JOHN DAVID WETHERALL (Elected membership) Dept. of Immunology, Univ. of Manitoba, 795 McDermot Avenue, WINNIPEG 3, Manitoba. --New Address Effective January 1971-- Immunochemistry Unit, Princess Margaret Hospital for Children, Perth, WESTERN AUSTRALIA, Australia.

Statement of C.S.I. Members as of May 14, 1970

289 members were billed for dues and levies
172 members are fully paid up. (2 have resigned)
27 members are fully paid and have WAIVED THE LEVY
6 members have resigned, unpaid.
4 members have paid dues and OPTED OUT OF LEVY
thus: 80 members have not as of this date paid their 1969 dues and levy.

NOTE: #1

Of the above 80 unpaid members, 23 still have not paid their 1968 dues and levy, 5 have not paid 1968 levy (dues were paid), 4 have not paid or opted out of 1968 levy or paid their 1968 dues, and 1 has not opted out of nor paid 1968 levy (dues were paid).

NOTE: #2

In addition, there are still 4 members who have not paid their 1967 dues, and of course are included in the above unpaid numbers for 1968 and 1969.

These unpaid members were sent a letter on May 8th, 1970 asking for payment and/or correspondence, etc., in the hope of reclaiming some of their dues and levies, or their resignations.

F. Paraskevas

International Union of Immunological Societies

The second meeting of the Council of the International Union of Immunological Societies has been held on September 2, 1970 in Merlingen, Switzerland, under the chairmanship of Dr. B. Cinader. The following national Societies were represented: American Association of Immunologists, British Society for Immunology, Canadian Society for Immunology, Dutch Society for Immunology, Gesellschaft für Immunologie (German Federal Republic), Israel Society of Immunology, Polish Society of Immunology, Scandinavian Society of Immunology, Société Française d'Immunologie, Swiss Society of Allergy and Immunology, Yugoslav Society of Immunology. The Australian Society of Immunology has been unable to delegate a representative. Representatives of the following Societies which are not yet members of the International Union were present as observers: Gesellschaft für Allergie und Immunitätsforschung (German Democratic Republic), Greek Society of Microbiology; Section of Immunology and Italian Society of Immunology and Italian Society of Immunopathology, Japanese Immunologists, Mexican Immunologists. The following international organizations and associations were also represented: World Health Organization, International Association of Allergology, World Association of Veterinarian Microbiologists and Immunologists and the Transplantation Society. Dr. M. Landy was present in his capacity as the Secretary of the First International Congress of Immunology.

The discussion at the meeting dealt with several problems which are of interest to the members of the CSI. A short summary of the minutes is given below.

1. Membership of the IUIS. Contacts have been established with groups of immunologists in Greece, Italy, Mexico, Hungary, Japan and East Germany who have all sent their representatives to the Council meeting. The Romanian immunologists, with whom contact has been established, were not able to send a representative. Contacts with immunologists of the USSR have not been satisfactorily established. Contacts with Czechoslovak immunologists have been established, but there has been as yet no formal permission from the Czechoslovak government to establish a national society.

2. Membership of the International Union in International Umbrella Organizations. IUIS has been accepted as a member of the CIOMS. Full membership is only possible after an International Union has been in existence for more than 6 years and has organized two international congresses. Furthermore, the support of 15 national bodies (usually the National Research Council or its equivalent in each country is required). However, all necessary steps are being taken and IUIS could become an affiliate member at the next session of the IUSU in December 1970.

3. Funds. Expenses for the administration of the IUIS come from contributions of the national societies (25¢ per member). Even if all societies contributed, some additional financial support will have to be found to cover the administrative expenses. Funds are also required to support the organization of symposia. As far as the funds for the First Congress are concerned, the news was rather encouraging: about half of the total budget (about \$250,000) is already covered by the donations alone.

4. Future Congresses. Several national societies proposed to organize the Second Congress of Immunology in 1974. Feasibility studies were encouraged; final decision will probably be made in Washington in 1971.

5. Reports from the Committee Chairmen.

a) Symposium Committee -- Chaired by Dr. B.A. Askonas. The main object of the proposed meetings is to provide opportunities for young scientists to participate actively in the discussion at international meetings of limited size. It is intended that approximately two-thirds of the places should be reserved for more junior workers, who at present feel (with some justification) that it is extremely difficult to break into the closed circle of more senior immunologists who occupy the majority of places at meetings with restricted attendance. The IUIS Symposium Committee hoped that their annual meetings will help to rectify this deficiency. Each year, well-defined topical subjects will be selected and considered from various aspects. In general, the meetings will last four days; approximately half the time will be devoted to contributions from invited speakers and the other half will be available for discussion and informal brief communications. The proceedings will not be published. The attendance will be between a minimum of 100 and a maximum of 200, the exact size being tailored to suit the topic under consideration and the facilities of the locality in which the meeting is held.

It was also considered that the educational purpose of these meetings would be furthered if they were to be held in countries which would benefit from a greater development of immunology. An attempt will also be made to choose an environment which provides the greatest opportunity for contact and discussion between participants. The organizing committee would be comprised partly of members of the Symposium Committee of IUIS and partly of local organizers who would undertake the domestic arrangements and of any other suitable consultants.

Efforts will be made to raise funds in support of traveling expenses for invited speakers, where necessary, and to provide fellowships for some junior participants.

Plans for the first meeting are the following: a symposium on the Biological Significance of Transplantation Antigens to be held in Yugoslavia, May 1971, probably of the Red Island. Topics to be discussed are as follows: Chemistry, genes determining transplantation antigens, genetics of the immune response and correlation with histocompatibility antigens, enhancement and tolerance. Organizing committee: Prof. Simonsen, Dr. Howard, Dr. Reisfeld and local organizers.

The Terms of Reference for the Study of Basic Biology in Canada

The Biological Council of Canada and the Canadian Federation of Biological Societies will jointly carry out a study, the object of which is to provide a comprehensive account of all aspects of basic biological research in Canada, including a consideration of its organizational framework and its relationships to applied and developmental research in biology, for the purpose of clarifying its organization and structure and identifying its strengths and weaknesses, in order that recommendations for the improvement of the basic biological research effort in Canada may be soundly based. A conservative rather than an all-inclusive approach is to be taken in delimiting the field of study. The study will conform to the following general terms of reference:

- (1) It will outline under a maximum of 30 headings those branches of basic biology in which research is now being conducted in Canada.
- (2) It will name and characterize the agencies and institutions active in or supporting each kind of basic biological research.
- (3) It will estimate the number of independent investigators or project leaders concerned with basic biological research, and the number and qualifications of their assistants.
- (4) It will estimate the monetary costs of basic biological research and describe its sources of support.
- (5) It will assess the ability of the basic biological research community to maintain or expand itself.
- (6) It will identify the factors limiting Canada's research effort in basic biology.
- (7) It will determine what fields of basic biological research are neglected in Canada, and why.
- (8) It will present qualified opinion on future trends in basic biological research in Canada, estimates of future manpower and educational needs, and future capital and operating costs.

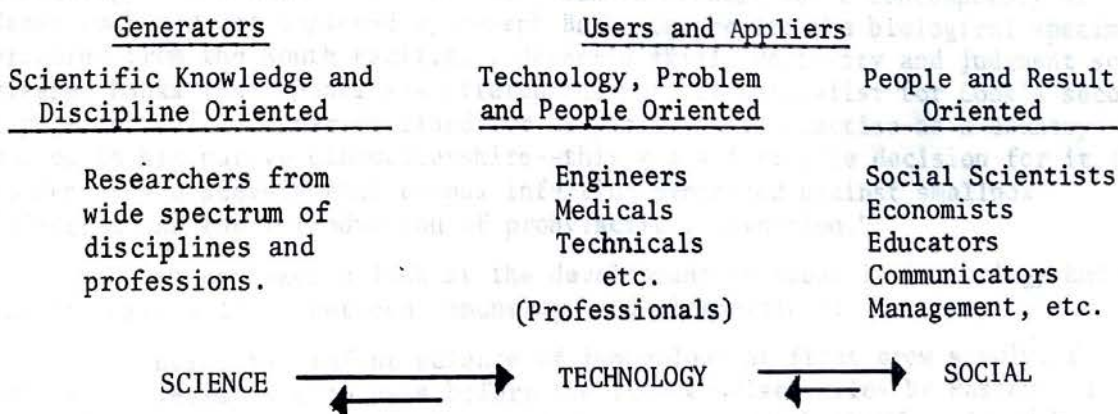
- (iii) Preparation for responsible consideration and constructive response to the Lamontagne Science Policy Report**.
 - (iv) Clarification of the role of the SCITEC community in environmental improvement.**
12. Supplemental and in parallel:-
- (a) Funding program.
 - (b) Creation of simple headquarters (as funds permit).
 - (c) Development of improved operational methods
e.g. Communication (audio-visual conference links, etc.),
judgment surveys (Delphi technique), approaches to complex
problems (relevance trees), etc.
 - (d) Resolution of membership relationships.
 - (e) Clarification of common problems of the founding organizations
where SCITEC might help (coordinating headquarters, etc.).
13. SCITEC is evolving and must remain sufficiently flexible to meet the challenges of a broad expanding program and not become "just another organization".

N. S. Grace
June, 1970.

* See table.

** Involving task forces, plus workshops, etc., at a core conference.

Who Is In The Scientific, Engineering and Technical Community?



APPLIED IMMUNOLOGY

"Complete Solution" in Immunology

Interesting considerations on the future of immunology and on the philosophy of immunological research appeared in Postgraduate Medical Journal (April 1970, 46, 182-190). In this article, Ian R. Mackay discusses the "Growing points of immunology" and quotes N.K. Jerne:

"At a time in history, when the earth was thought to be flat, a complete solution of geography was clearly not possible. Someone might have said: 'For each continent that is discovered there are ten continents beyond'. It turned out, however, that the earth is round, and by the time the explorers reached Australia on their way around the globe, it was evident that geography was, in principal, solved.... It follows that, similar to geography, biology is finite, and....in principle solved.... I predict that immunology will be completely solved within 50 years from now."

Next, the author observes that the link between geography and immunology had, by a strange coincidence, been deeper than just the above analogy:

"James Cook, F.R.S., ship's captain, navigator, explorer, geographer, mathematician and scientist, left England in the ENDEAVOUR in 1768 to observe the passage of Venus across the face of the Sun. This expedition led on to his meticulous explorations of the South Pacific and Australia in 1770 and the making of a major contribution to the 'complete solution of geography'.

By 1770 the science of geography was well established but the science of immunology was unknown. Its founder, Edward Jenner, was a contemporary of James Cook and was employed by Joseph Banks to prepare the biological specimens procured from the South Pacific....Jenner's skill, dexterity and judgment so pleased Banks that Jenner was offered the post of naturalist for Cook's second voyage in 1772. Jenner declined for he preferred to practise as a country doctor in his native Gloucestershire--this was a fortunate decision for it led to Jenner's discovery that cowpox infection protected against smallpox infection and the introduction of prophylactic vaccination."

Then he takes a look at the development of ideas in immunology and at the historical links between immunology and microbiology:

"Thus born, the infant science of immunology at first grew slowly, for nearly 100 years were to pass before the further discoveries by Pasteur on prophylactic immunization, cellular immunology by Metchnikoff, delayed hypersensitivity by Koch, the description of a selective theory of antibody production by Ehrlich, and discoveries leading to serodiagnosis by Bordet, Widal and Wasserman. So microbiology and immunology became linked as one science, and remain so even today in many traditionalist universities. But these sciences have now diverged, and many of the 'growing points' of immunology--transplantation, cancer immunology and autoimmunity--have little connection with microbiology. So, for immunology to progress to its 'complete solution' we must encourage the development of new, strong and independent Departments and Institutes of Immunology in Universities throughout the world."

ANNOUNCEMENTS

First International Congress of Immunology
Washington
August 1-6, 1971

Copies of the Advance Program of this Congress have been sent to all members of the C.S.I. Those who did not receive it, should write to:

First International Congress of Immunology
Secretariat
9650 Rockville Pike
Bethesda, Maryland 20014
U.S.A.

The deadline for the Active Member Advance Registration is
JANUARY 4, 1971.

Training Program in Clinical Immunology

An inter-hospital training program in Clinical Immunology is being offered in the Department of Medicine at the University of Toronto for physicians who have completed two core years of residency in general medicine. The content of the program is being designed to meet the forthcoming requirements of the Royal College for training in this sub-specialty.

Training in Clinical Immunology will be provided over a two-year period. This will include six months of clinical allergy and six months of laboratory-based clinical immunology. During these two aspects of the program, the trainee will obtain experience in the investigation, diagnosis and management of patients with allergic disorders, collagen diseases, dysglobulinemias, immunological deficiency states and other disease processes with immunological features. Subsequently a three-month rotation will be provided on the Chest Service to include training in the general field of chest disease, assessment of pulmonary function and management of respiratory failure. A further three months will then involve the Renal and Rheumatology Services, to provide experience in the use of immunosuppressive agents in the management of transplants and other clinical conditions. Finally, a six-month elective period will enable the trainee to have an additional rotation in one of the foregoing categories of his choice, or to participate in a clinical or laboratory immunology research project. The didactic program will include a series of Immunology lectures and Clinical Immunology Rounds.

This program will be ready to begin on July 1, 1971. For further information, please contact Dr. I. Broder, Department of Medicine Co-ordinator for Clinical Immunology, Room 220, Connaught Bldg., 1 Spadina Crescent, Toronto.

Course on Current Methods of Immunological Research and Diagnosis

The Center for Immunology of the State University of New York at Buffalo will again present a three-week course on current methods of immunological research and diagnosis from July 12 to July 30, 1971. It will consist of practical laboratory exercises supplemented by demonstrations, lectures and discussions, designed to provide the participant with a survey of presently available methodology and insight into the underlying immunological principles. The topics will include: antigen preparation methods, gel diffusion precipitation, active and passive agglutination, mixed agglutination, immunofluorescence, complement determination, hemolysis in gel, blood group determination and compatibility testing, immediate hypersensitivity, delayed hypersensitivity, and tissue typing. Attendance will be limited to 20 participants in order to give maximum opportunity for individual instruction. Limited fellowship support can be provided to applicants from abroad.

The course will be held on the campus of the State University of New York at Buffalo. Tuition has been set at \$300. Suitable living accommodations and opportunities for recreation are available. The faculty will consist of staff members of the State University at Buffalo, Roswell Park Memorial Institute, and affiliated hospitals. The course is supported in part by a grant from the World Health Organization.

Potential applicants should contact:

Professor Noel R. Rose, Director

The Center for Immunology

Room 203 Sherman Hall

State University of New York at Buffalo

Buffalo, New York 14214

Immunology Research Program of the U.S. Navy

The purpose of this letter is to acquaint you with the immunology research opportunities in the U.S. Navy. The Navy Medical Research Program supports both fundamental and applied investigations in the area of immunology. This program is directed both at the problems of immunity and the immunopathology of infectious diseases as well as transplantation immunity. Our interests include the study of tolerance, graft-versus-host disease, immunosuppression, bone marrow transplantation, and immunogenetics. The problems of actively and passively acquired immunity in both infectious disease and parasitic disease are also under study. New and modern techniques for detection of individual immunoglobulin components, soluble immune complexes, and cellular immunity, are each being studied in relationship to the pathophysiology of disease and its prevention.

The Experimental Immunology Division of the Naval Medical Research Institute at Bethesda, Maryland has an active program in most of the areas mentioned and has a group of scientists (both military and civilian) to deal with these problems. In conjunction with this work, a civilian fellowship program has been developed in cooperation with the National Research Council. All postdoctoral students (M.D., Ph.D., DVM) within 5 years of graduation, are eligible to apply for these resident research associate programs. We would encourage all interested candidates to contact us so that we may forward a brochure and detailed information concerning these fellowships. The date for final submission of completed application forms is 8 January 1971, therefore, we would encourage you to consider this program immediately. We also would welcome inquiries from postdoctoral students who anticipate appointment to active military duty.

A separate but related research contract program is under the direction of Dr. Elliot Postow, Project Officer, Immunology Program, Office of Naval Research. He welcomes letters of intent from established investigators, who feel they can offer new or innovative approaches to those problems which are of Navy relevance.

These letters (not full proposals) should be directed to Dr. Elliot Postow of the Immunology Program, Office of Naval Research, Department of the Navy, Arlington, Virginia 22217.

We welcome this opportunity to acquaint you with the Immunology Research Programs in the Navy and would hope that you, your colleagues and your students, would consider the research opportunities and postdoctoral fellowship programs in the Navy. Our funds and fellowships are limited; nevertheless, we encourage the widest possible participation.

4 December 1970
Naval Medical Research Institute
National Naval Medical Center
Bethesda, Maryland 20014
U.S.A.

KENNETH W. SELL, M.D., Ph.D., CDR, MC, USN, Director, Department of Clinical Medical Sciences Head, Experimental Immunology Division.

WILTON VANNIER, M.D., Ph.D., Head, Immunochemistry Branch.

JOHN CURRY, M.D., Ph.D., LCDR, MC, USN, Head, Tissue Bank and Immunobiology Branch.

ELLIOT POSTOW, Ph.D., Project Officer, Immunology Program, Office of Naval Research.

Monthly Newsletter of the British Society for Immunology

The British Society for Immunology will be sending out a monthly letter for an experimental period of one year. The object of the letter is to draw attention to:

- a) meetings, lectures, workshops and courses,
- b) scholarships,
- c) vacant posts

that may be of interest to members of the Society.

The letter is regarded as a service and will be sent free to members of the British Society for Immunology in Gt. Britain and Europe. Other overseas members who wish to receive it should write to Dr. P.C. Wilkinson.

There is no charge for the insertion of notices but the Society reserves the right to decline notices and to bring their phrasing into conformity with the usages of the letter.

Notices of scientific gatherings and posts vacant should be sent to:

Dr. P.C. Wilkinson
University Department of Bacteriology and Immunology
Western Infirmary
Glasgow W.1.

Immunology Training Program*
New York University School of Medicine
Department of Pathology

The purpose of this program is to train students at both the predoctoral and postdoctoral levels for careers in research and teaching in the fields of immunochemistry and cellular immunology. Graduate students will be selected among those enrolled in the second and third years of the Basic Medical Sciences Program of the Graduate School of Arts and Sciences. Postgraduate students will be selected among those candidates holding a Ph.D. or M.D. degree and who wish to engage in academic careers. The training will consist of immunology research in the laboratories of the staff members of the program. In addition, participation in special courses, seminars and journal clubs are a regular part of the academic life of this community. The wide variety of activities in the field of Immunology is due to the presence of a very active group of immunologists in the various basic sciences and clinical departments of the Medical School. Thus, for example, trainees this year attended the following courses:

* American Citizenship or resident visa required

Dr. Z. Ovary - Antigenicity and immunogenicity of well-defined compounds (happen on a defined position on compounds of which the amino acid sequence is known). Mechanism of anaphylaxis, especially that of PCA. Study of the production of different antibody classes in different species and strains (inbred), especially that of reaginic antibody.

Dr. M.E. Phillips - Transplantation immunology and tumor immunology.

Dr. J. Phillips-Quagliata - Cellular events in the induction and loss of tolerance in rats. Possible role for antibody and/or immune complexes in low dose tolerance. Mechanism of binding of cytophilic antibodies and function in immune reactions and cell-cell interactions. Maturation of lymphoid elements; factors influencing "homing" of lymphocytes. Genetic control of immune response. Experimental auto-immune disease.

Dr. G.A. Theis - Cellular interactions in immune response.

Dr. G.J. Thorbecke - Cell interactions in the induction of antibody formation: studies in vitro and cell transfer studies in inbred mice and chickens. Induction of immunological tolerance in vitro. Ontogeny of the proliferative responsiveness of various lymphoid cells in vitro to allogeneic cells, anti-allotype sera, and antigens. Fate of labeled thymus and bursa cells in inbred chickens. Mechanism of delayed hypersensitivity and tumor rejection in chickens rendered agammaglobulinemic by bursectomy. Sites of formation of complement components and of some other serum proteins. Sites of formation of soluble proteins from tumor virus in congenitally infected mice.

Applying: Those interested in the predoctoral program should apply before June 1 to start in September of that year. More information can be obtained from:

Graduate Student Advisor
Department of Pathology
New York University School of Medicine
550 First Avenue
New York, New York 10016

For information concerning postdoctoral fellowships, candidates should write to:

Dr. Victor Nussenzweig
Department of Pathology
New York University School of Medicine
550 First Avenue
New York, New York 10016

and include a curriculum vitae and two letters of recommendation.

Stipend Allowance

Predoctoral level

First year	\$2,400.
Second year	\$2,600.
Third and subsequent years	\$2,800.

Postdoctoral level

First year	\$6,000.
Second year	\$6,500.
Third year	\$7,000.

Dependency allowances

May be awarded for trainees at predoctoral and postdoctoral levels in the amount of \$500.00 for each dependent.

Fifth International Congress of Pharmacology

The Fifth International Congress of Pharmacology will be held in San Francisco, California, July 23-28, 1972. Its purpose is to promote pharmacological knowledge and the application of this knowledge to the health and well-being of man throughout the world.

The Congress is being organized in the United States by the American Society for Pharmacology and Experimental Therapeutics under the auspices of the International Union of Pharmacology. The first congress was held in Stockholm, Sweden (1961), and the second in Prague, Czechoslovakia (1963); both were sponsored by the Section on Pharmacology of the International Union of Physiological Sciences. Independent international status for Pharmacology was attained at the time of the third international congress held in São Paulo, Brazil in 1966 under sponsorship of the newly created International Union of Pharmacology. The fourth congress was held in Basel, Switzerland in 1969 under IUPHAR sponsorship.

Scientific Program

The scientific format of the Congress will be based on twenty three-hour symposia emphasizing the theme of the Congress. The symposia will be complemented by fifteen fifty-minute lectures on current topics. In addition, multiple sessions of free communications (volunteer short papers) will be scheduled in the five days. It is hoped that all free communications submitted can be scheduled for oral presentation. The Congress will open with a Plenary Session on Sunday evening, July 23, 1972, and close with a General Session on Friday afternoon, July 28.

Publications

Abstracts of invited papers and free communications will be distributed to scientific registrants at the Congress. The Congress Proceedings containing the invited papers in extenso will be available to registrants at a reduced price. They will be published as expeditiously as possible after the Congress.

Languages

English will be the official language of the Congress.

Exhibits

Exhibits of laboratory equipment, and of books and journals will be on display during the week of the Congress.

Social Program

A number of all-Congress social events will be included in the registration fee. A special program for social members (non-scientists) is planned.

Advance Program

A brochure containing more explicit details of the scientific program, general information, forms for submission of abstracts, advance registration, and hotel reservations will be mailed in May, 1971.

For Further Information, Write to:

Secretariat
Fifth International Congress on Pharmacology
9650 Rockville Pike
Bethesda, Maryland 20014
U.S.A.

Proceedings of the 8th International Congress of Biochemistry

Almost all sessions of symposia held during this Congress have been taped or filmed. Videotapes (1 inch) or monochrome films (16 mm) with optical soundtrack are available from Graduate Educational Network, Palo Alto, California. The prices are certainly not for those who cannot afford to attend Congresses: Symposium X "Immunochemistry" has been taped, the total length is almost 11 hrs. and the cost \$1,439.00.

The Annual Survey Course in Immunology
sponsored by The American Association of Immunologists

Supported by a training grant from The National Institute of Allergy and Infectious Diseases, to be held at The University of California at San Diego (UCSD), La Jolla, California, July 19 through July 30, 1971.

Co-directors: Charles G. Cochrane, Scripps Clinic and Research Foundation,
La Jolla, California 92037.
Dan H. Campbell, California Institute of Technology,
Pasadena, California 92037.
Sheldon Dray, University of Illinois, College of Medicine,
Chicago, Illinois 60680.

Admissions: Howard M. Grey, Chairman

Course Planning and Faculty: Richard W. Dutton, Chairman

Publicity: Peter A. Ward, Chairman

Faculty and Subject Matter:

- F. Bach -- Immunogenetics
- B. Bloom -- Delayed hypersensitivity
- H. Claman -- Unresponsiveness
- F. Dixon -- Immune complex diseases
- R. Dutton -- Immune response
- K. E. Hellström -- Transplantation and tumor immunology
- R. Hong -- Deficiency states
- L. Hood -- Immunoglobulins
- L. Hayer -- Clinical Immunology - hematology
- F. Karush -- Antigen-antibody reactions
- D. Koffler -- Clinical Immunology
- M. Koshland -- Immunoglobulins
- L. Lichtenstein -- Clinical Immunological Anaphylaxis
- D. Marcus -- Techniques
- H. Müller-Eberhard -- Complement
- P. Paterson -- Autoimmunity

The Course:

Topics will cover the broad spectrum of present-day knowledge of immunochemistry and immunobiology. Basic fundamental concepts will be given for each subject. The Faculty will consist of specialists in each field and, in general, those with teaching experience. Some of the Faculty will remain in residence for all or most of the two-week period. All members of the teaching staff will remain for at least one day following their lectures in order to be available for informal discussion. Mornings and afternoons will be devoted to lectures with some time for questions raised by students to clarify specific points. Evenings will be programmed by the students, usually at the end of each afternoon session. There will not be any formal session from Saturday noon until Monday morning.

Immune Complexes in Viral Infections - Immune Complex Disease in
Chronic Viral Infection - M. B. A. Oldstone

Discussion: Infectious Virus-Antibody Complexes: Interaction with
Anti-Immunoglobulins, Complement and Rheumatoid Factor -
A. L. Notkins

Immunopathogenesis of New Zealand Mice Disease - Immunologic Responses
of New Zealand Mice - N. Talai

Discussion: Viral Infections in Autoimmunity in New Zealand Mice -
F. J. Dixon

Mediation of Immunological Injury - Chairman, C. G. Cochrane

The Deposition of Circulating Immune Complexes in Tissues - C. G. Cochrane

The Role of Complement - H. J. Müller-Eberhard

Discussion: P. A. Ward

The Interaction of Cells with Immune Complexes: Adherence, Release of
Constituents and Tissue Injury - P. M. Henson

Immunologic Release of Chemical Mediators - K. F. Austen

Discussion: G. Weissmann

Immune Complexes and Glomerulonephritis in Man - Chairman, D. Koffler

Systemic Lupus Erythematosus: Prototype of Immune Complex Nephritis in
Man - D. Koffler

Relationships of Streptococci to Glomerulonephritis - J. Zabriskie

Immunological Injury of Renal Homografts - F. Milgrom

Studies on Chronic Hypocomplementemic Glomerulonephritis - A. F. Michael

Ultrastructure of Immune Complex Deposits - J. Churg

Discussion: Studies on Rheumatoid Factor and Clq Precipitins in the Sera of
Patients with Systemic Lupus Erythematosus - V. Agnello

Diagnostic Value of Immunofluorescence in Glomerulonephritis -
R. McCluskey

Rheumatoid Arthritis and other Diseases - Chairman, C. L. Christian

Studies of Complement in Rheumatoid Arthritis - S. Ruddy

Discussion: Immunoreactants in Synovial Fluid - N. J. Zvaifler

Complexes of Gamma Globulin in Rheumatoid Arthritis Patients -

R. J. Winchester

Discussion: Immunohistologic Studies of Synoviocytes and Synovial
Exudate Cells - M. Ziff

Properties of Synoviocytes in Tissue Culture - C. Smith

Discussion: Virologic Studies of Connective Tissue Syndromes -
P. E. Phillips

Australia Antigen, Antibody and Antigen-Antibody Complexes - B.S. Blumberg

Discussion: Vasculitis in Association with Australia Antigen - D. Gocke

Seating capacity is limited. Registration fee \$10.00. No abstracts, papers or reprints will be available.

Proceedings will be published as a supplement to the Journal of Experimental Medicine. Single copies may be ordered at a discount price (\$5.00) up to the time of registration.

A reception will be held Friday afternoon from 6:00 to 7:00 p.m. Tickets \$4 each.

Address of the organizers: Miss Ivane Saulpaugh
New York Heart Association, Inc.
Two East 64th Street
New York, N. Y. 10021

Heinz Karger Prize 1970 -- The prize which is awarded every year in memory of Heinz Karger, the well-known Basle Publisher, for an outstanding scientific work has in 1970 been conferred to Vance X. Gledhill/John Mathews (Victoria, Australia) for their paper on "Computer Aided Diagnosis: A Learning Model."

The Heinz Karger Memorial Foundation invites the submission of papers on the following subjects:

- 1971: An original paper on "Biochemical Aspects of Immunology"
- 1972: An original paper on "Pulmonary Hypertension"
- 1973: An original paper on "Pathophysiology of purine metabolism in man"

Conditions: Manuscripts should not exceed 20 typewritten pages, including illustrations, tables and bibliography. Manuscripts marked "Competition" must reach the publishers, S. Karger AG, Arnold-Böcklin-Strasse 25, CH-4000 Basle 11 (Switzerland), not later than June 30. The manuscript must be typewritten on one side only, double-spaced, and is to be submitted in triplicate, and in accordance with the instructions contained in "The Manuscript" (Rules for the preparation of manuscripts and bibliographies of scientific papers). This booklet can be obtained free of charge from the publishers if the request is marked "Competition."

Language: English, German or French

Publication: The winning papers will be published in one of the Karger journals.

The award for the prize 1971 will be SFr. 5000.-, for the prizes 1972 and 1973 SFr. 7000.- each.

The Council of the Foundation will judge the papers and confer the prizes.

INTERNATIONAL UNION OF IMMUNOLOGICAL SOCIETIES

Symposium on the Biological Significance of Transplantation Antigens

This is the first of a projected series of International Meetings under the auspices of the International Union of Immunological Societies and will be held in Rovinj, Yugoslavia from 16th-21st May, 1971. Topics to be considered are listed below:-

Possible roles for transplantation antigens outside surgery.

Genes determining transplantation, tumour and differentiation antigens

Chemistry

Recognition of transplantation antigens

Antigenic strength

Genetics of immune response

Tolerance and enhancement

Speakers and Discussants will include: - F.H. Bach, D. Bailey, J.R. Batchelor, G. Biozzi, R. Ceppellini, J.-C. Cerottini, J. Dausset, D.A.L. Davies, E. Diener, D. Dresser, H. Festenstein, W.L. Ford, J.L. Gowans, G. Haughton, K. Hellstrom, W.H. Hildemann, J.G. Howard, A. Kastelan, P. Koldovsky, A. Lengerova, P.J. McCullagh, C.F. McKhann, H. McDevitt, N.A. Mitchison, E. Moller, S. Nathenson, L.J. Old, R.T. Prehn, K. Rajewsky, H. Ramseier, R. Reisfeld, I. Roitt, A.R. Sanderson, M. Sela, D.C. Shreffler, M. Simonsen, G.D. Snell, E. Thorsby, G. Voisin, J.J. van Rood, R. Walford, D.B. Wilson, H. Wigzell.

The number of participants will be restricted to 150, of which 80 places have been reserved for more junior scientists. A few scholarships for these will be available. Further details and application forms may be obtained on written application to:-

Dr. J.G. Howard
Department of Experimental Immunobiology
Wellcome Research Laboratories
Langley Court
Beckenham
KENT
Great Britain

Applications must be received by 15th February, 1971, so that the final selection and allocation of places may be made by 1st March.