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ANNUAL REPORT

1974

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NATIONAL SCIENCE COUNCIL OF SRI LANKA

A N N U A L R E P O R T  
of the  
NATIONAL SCIENCE COUNCIL OF SRI LANKA  
for the  
FINANCIAL YEAR 1974

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National Science Council of  
Sri Lanka (Ceylon),  
47/5, Maitland Place,  
Colombo 7  
8th December 1975

The Minister of Industries &  
Scientific Affairs,  
The Ministry of Industries &  
Scientific Affairs,  
48, Sri Jinaratana Road,  
Colombo 2.

Dear Sir,

Annual Report of the National Science Council of Sri Lanka  
(Ceylon) for the period 1st January 1974 to 31st December 1974

In terms of Section 28 of the National Science Council of  
Ceylon Act No. 9 of 1968, I have the honour to submit the Annual  
Report of the National Science Council of Sri Lanka (Ceylon)  
for the period 1st January to 31st December 1974 together with

- (a) A copy of the audited Income & Expenditure Account
- (b) A copy of the audited Balance Sheet
- (c) Auditor General's Report.

Yours faithfully,

(Dr. O.N. Jayaratne)  
Chairman  
National Science Council,

REPORT OF THE NATIONAL SCIENCE COUNCIL OF SRI LANKA  
COVERING THE PERIOD 1 ST JANUARY 1974 TO 31 ST DECEMBER 1974

I MEMBERS OF THE NATIONAL SCIENCE COUNCIL

CHAIRMAN

Dr. O.N. Jayaratne

(Appointed in terms of Section 7(1) of the  
National Science Council Act No. 9 of 1968)

VICE - CHAIRMAN

Mr. D.B. Pattiaratchi

(Elected in terms of Section 7(2) of the  
National Science Council Act No. 9 of 1968)

MEMBERS

Prof. D.A. Abeywickrema  
Dr. N.N. de Silva  
Dr. R.C. de Silva  
Dr. M.A.V. Devanathan  
Dr. L.H. Fernando  
Dr. L.P.D. Gunawardena  
Mr. S.F. Laurentius  
Mr. A.S. Mendis  
Mr. T.W. Mendis  
Mr. E.I. Munasinghe  
Dr. H.R.N. Nathanael  
Dr. C.R. Panabokke  
Dr. J.W.L. Peiris  
Dr. O.S. Peries  
Mr. M.M. Pillai  
Mr. N. Ranaweera  
Prof. K.N. Seneviratne  
Mr. A.E.K. Tisseverasinghe

SECRETARY-GENERAL

Dr. G.C.M. Jayasuriya

STAFF

SECRETARY-GENERAL

G.C.N. Jayasuriya - B.Sc.(Cey.), Ph.D. (Sheffield)  
F.R.I.C., F.I. Chem.C.

SCIENTIFIC OFFICERS

Mrs. Seetha I. Rodrigo - B.Sc.(Cey.), Ph.D. (Nottingham)  
F.I.Chem.C.

Mrs. Marina B. de Silva - B.Sc.(Cey.), M.Sc.(Manch.)

M.W.R.N. de Silva - B.Sc.(Cey.), Ph.D. (Liverpool)  
(resigned April 1974)

Mrs. M. Iranganie Thabrew - B.Sc.(Cey.), Ph.D. (Southampton)

N. Shanmugaratnam - B.Sc.Agric.(Cey.), M.Sc.Agric.(Japan)

Mrs. Swarna P. Prelis - B.Sc.(Cey.)

ASSISTANT SECRETARY

J.C.P. Jayasinghe - B.Com. (Cey.)

ACCOUNTANT

M.F. Hathy

LIBRARIAN/PUBLICATIONS OFFICER

Miss V.B. de Silva - B.A. (Cey.), Dip.Lib.(Cey.),  
A.L.A.

## II THE COUNCIL

The members of the Council who held office as at 31st December 1973 continued in office through the period under review. Eight meetings of the Council were held during 1974.

## III ACTIVITIES OF THE COUNCIL

### RESEARCH GRANTS AND SCHOLARSHIPS BOARD

#### 1. Research Fellowships, Studentships and Junior Research Awards (Health)

National Science Council of Sri Lanka Research Fellowships, Studentships and Junior Research Awards (Health) for the year 1974 were advertised in the Government Gazette of 7th June 1974, the closing date being 31st July 1974.

##### 1.1 Research Fellowships/Studentships 1974

Forty two applications for the above awards were received, of which seven were ineligible. Out of the thirty five applications, three were for Research Fellowships and thirty two for Research Studentships. All applicants were summoned for interview and thirty three presented themselves for interview. The Research Grants and Scholarships Board of the National Science Council recommended to Council the award of one Research Fellowship and four Research Studentships. These recommendations were ratified by the Council and approved by the Minister of Industries and Scientific Affairs.

#### Studentships

Name & Institution	Project	Supervisor
Mr. L.A.S.K. Fernando Vidyodaya Campus	"Extraction of thorium and the separation of rare earths from monazite sand using local materials".	Co-supervisors Dr. K.G. Dharmawardena Dr. R.H. Wijenayake Dept. of Chemistry (Vidyodaya Campus) Radio Isotope Centre Colombo Campus.

Name & Institution	Project	Supervisor
Miss S.C. Neerakkody Vidyalankara Campus	"Studies on the ecology of surface fungi in salvinia"	Dr. S. Widanapathirana Vidyalankara Campus Univ. of Sri Lanka Kelaniya.
එච්. ඩී. අභයසිංහ මෙනෙවියා විද්‍යාපීඨය	"ග්‍රැමීය අලෙවි රටා"	එච්. එම්. කරුණාතායක මයා විද්‍යාපීඨය
පී. ලියනආරච්චි මහතා පේරාදෙණිය මණ්ඩපය	"ශ්‍රී ලංකාවේ ධීවර සමුපකාර සමිති සහ ධීවර කම්බන්ගේ සංවර්ධන"	සුනිති ඔණ්ඩාරතා යක මිය පේරාදෙණිය මණ්ඩපය ශ්‍රී ලංකා විශ්ව විද්‍යාලය

Fellowship

Name & Institution	Project	Supervisor
Miss Sithy Fallis	"Biological and Ecological studies of the rice leaf folder <i>Cnephalocrosis medialis</i> "	Dr. H. E. Fernando Central Agricultural Institute, Gannoruwa.

1.2 Junior Research Award Health

No applications were received this year. One Junior Research Award-Health which could not be accommodated with the funds available for 1973 was awarded in 1974. (o.f. 2/RG/74/31 in Annexure III)

2. Research Grants for Approved Projects 1974

As referred to in the Annual Report 1973, the projects approved for 1974 are given in Annexure II.

3. Research Grants for Approved Projects 1975

Research Grants for 1975 were advertised in the Government Gazette of 7th June 1974, the closing date being 31st July 1974. The Council prepared a list of projects for which priority should be given (Annexure IV). The advertisement in the Government Gazette included a clause to say that

a list of projects for which priority will be given by the Council will be sent to applicants on request.

(Eighty three applications were received and scheduled. These applications were processed and projects evaluated by Sub-committees appointed by the Research Grants and Scholarships Board. Final recommendations were submitted for approval to the Minister of Industries and Scientific Affairs.) The policy of the National Science Council in recommending Research Grants for the year 1975 has been as follows:-

- (1) Give priority to projects advertised by the Council.
- (2) Consider projects which were relevant to the economic, social and educational development of the country. Priority was to be given to lines of investigation that could have a more or less immediate impact.
- (3) Promote post-graduate research which would eventually result in a young graduate being able to submit a thesis for a M.Sc. or Ph.D. degree in Sri Lanka. Thus the Council supported requests which would provide training for such post graduate students.
- (4) Not consider applicants who were already Research Grantees of the National Science Council and who have not completed these projects.

Analysis Of Applications Received for 1975

TABLE I

Group	No. of Applications Received	No. of Applications recommended
Agricultural Sciences	5	5
Biological Sciences	21	11
Chemical Sciences	2	1
Engineering Sciences	4	2
Medical Sciences	34	16
Physical Sciences	2	2
Social Sciences	13	4
Environmental Sciences	2	1
	<u>83</u>	<u>42</u>
TOTAL	<u>83</u>	<u>42</u>

4. Progress of Continuing Grants

4.1 Grants awarded in 1969/70

Out of the eighteen continuing projects at the end of the year 1973.

4.1.1 Three projects have been completed.

4.1.2 Eight projects are continuing to the satisfaction of the National Science Council.

4.1.3 One is being held up due to the grantee being away on sabbatical leave.

4.1.4 Two are held up due to delays in obtaining equipment and chemicals from abroad on licences issued against foreign exchange allocations.

4.1.5 One is continuing as grant No.2/RG/74/8

4.1.6 One grantee expired and no arrangements have been made so far for another officer to continue the work.

4.1.7 Progress reports for the year 1974 have not been received from two grantees.

4.2 Grants Awarded in 1970/71

Of the remaining twenty one continuing projects at the end of the year 1973.

4.2.1 Two projects have been completed.

4.2.2 Twelve projects are continuing to the satisfaction of the National Science Council.

4.2.3 One project is being continued as 2/RG/72/10

4.2.4 The Progress Report for 1974 has not been submitted by one grantee.

4.2.5 Three projects were terminated due to the Grantee or responsible investigator leaving the country.

4.2.6 Two projects were terminated due to responsible investigator leaving to take up permanent employment.

4.3) Grants Awarded in 1971/72

Of the thirty nine grants awarded in 1971/72 :

- 4.3.1 Twenty six projects are continuing to the satisfaction of the National Science Council.
- 4.3.2 Two projects are continuing under different titles.
- 4.3.3 Three projects have been completed.
- 4.3.4 One project is held up due to delays in obtaining equipment and chemicals from abroad on licences issued against foreign exchange allocations.
- 4.3.5 Two projects were terminated due to responsible investigators leaving for permanent employment.
- 4.3.6 One project terminated due to the Grantee leaving the country.
- 4.3.7 Two projects held up due to responsible investigators leaving the country.
- 4.3.8 The progress reports for 1974 for two projects have not been received.

4.4) Grants Awarded in 1972/73

Out of the seventeen projects awarded in October 1973 :

- 4.4.1 Eleven projects are continuing to the satisfaction of the National Science Council.
- 4.4.2 The title of one project has been changed.
- 4.4.3 Two projects have been terminated due to grantees leaving the country.
- 4.4.4 Two projects have been completed.
- 4.4.5 The progress report of one project has not been received.

4.5) Grants Awarded in January 1974

Out of the thirty grants awarded in 1974 :

- 4.5.1 Twenty five projects have commenced.
- 4.5.2 Funds for two projects were not released as grantees left the country.

- 4.5.3 One project is postponed due to the responsible investigator leaving the country.
- 4.5.4 The progress report for one project has not been received.
- 4.5.5 One project is held up due to the lack of foreign exchange.

5. Publications for 1974 arising out of the Research Grants awarded from 1969/70 onwards and any previous years publication not published in any annual report of the National Science Council are listed in Annexure IV.

6. Junior Research Awards(Health)

Of the three projects for which junior research awards were made in 1973, one has been completed and the final report is expected soon, and two projects are continuing to the satisfaction of the National Science Council. No progress report for 1974 has been received from the grantee who was awarded the Junior Research Award-Health for 1974.

7. Summaries of Studentships

7.1. Studentships 1971/72

Three studentships were awarded in October 1971.

7.1.1 One research student left to take permanent employment at the end of one year and the project was terminated.

7.1.2 One research student left the country at the end of almost two year's work. The supervisor is hoping to continue the research project.

7.1.3 One research student left after two and a half year's work, to take up permanent employment. However, the student is hopeful that he will be able to submit a thesis for an M.Sc. degree on the work done.

7.2 Studentships/Fellowships 1972/73

Six research studentships and one research fellowship were awarded in October 1972.

7.2.1 The research fellow obtained the permission of the National Science Council to postpone the award to January 1974. Most of the work has been completed and the publication is being prepared.

7.2.2 Two Research Students obtained permanent employment and declined to accept the Studentships.

7.2.3 Two Research Students obtained permanent employment after two years work. However, they are hopeful that they may be able to continue the research work after office hours and to submit their thesis for the M.Sc. degree.

7.2.4. One Research Student left to take up permanent employment at the end of about nine month's work. Project was terminated.

7.2.5 One Research Student is in his third year of research - working for a M.Sc. degree.

7.3 Studentships/Fellowships 1973/74

One Research Fellowship and five Research Studentships were awarded in October 1973

7.3.1 The Research Fellow resigned after three months work and left the country for post-graduate research work abroad. The supervisor hopes to continue the project. So far, no alternate arrangements have been made.

7.3.2 One Research Student resigned due to ill health. The supervisor too left the country. Project was terminated.

7.3.3 Two Research Students are working on their research projects and satisfactory progress reports have been received.

7.3.4 One Research Student resigned after two months work due to personal reasons. Supervisor is continuing the project on a research grant.

7.3.5 One Research Student left to take up permanent employment after one year's work. Project was terminated.

#### 7.4 Studentships/Fellowships 1974/75

One Research Fellowship and four Research Studentships were awarded in October 1974.

7.4.1 The Research Fellow and three Research Students have started work on their projects.

7.4.2 One Research Student obtained permanent employment and declined to accept the award.

#### NATIONAL SCIENTIFIC AND TECHNICAL DOCUMENTATION CENTRE

It is planned to set up a Documentation Unit on a modest scale, initially as a Division of the National Science Council. Funds for 1975 have been requested for this purpose from the Ministry of Planning. It is hoped to submit a request for UNDP assistance for this project in the early part of 1975.

#### DIRECTOR OF SCIENTIFIC AND TECHNICAL PERSONNEL IN SRI LANKA

The survey was completed and the Director was published in 1974.

#### DIRECTORY OF SCIENTIFIC RESEARCH PROJECTS IN SRI LANKA

This survey was also completed and the Directory issued in 1974.

#### BIBLIOGRAPHY ON BEHAVIOURAL PRACTICES OF HEALTH AND HEALTH EDUCATION IN SRI LANKA

This was compiled at the request of the Health Education Division of the Ministry of Health and financed by the Ministry of Health under Sri Lanka/WHO Project 0104. The bibliography attempts to provide a guide to the literature available on health and health education as well as socio-economic and

socio cultural studies which have a bearing on this field. The emphasis is on publications issued during the period 1950-1974 and coverage includes both published & unpublished material. Editing and collation of entries was completed by the library staff. The 104 paged bibliography issued in July 1974, carries 539 entries, the majority of which are annotated. A revised version will be released to libraries in 1975.

#### BIBLIOGRAPHY OF SCIENTIFIC WORKS OF SRI LANKA

Work was initiated on this long-term bibliographical project. Entries were made for publications listed by scientists on completed questionnaires in response to the STP Survey conducted by the National Science Council.

#### SURVEY OF INFORMATION RESOURCES IN THE SCIENCES - PURE AND APPLIED SCIENCES AND SOCIAL SCIENCES IN SRI LANKA

This project involves a systematic collection, evaluation and interpretative analysis of data concerning libraries and information centres in Sri Lanka.

The data collected will relate to: (a) content, extent and types of material resources, (b) the operational framework including personnel, budgetary and spatial provisions and (c) availability and degree of accessibility of services.

The survey was initiated in 1972 under the sponsorship of the National Science Council by Miss C.L.M. Methsinghe, CISIR Librarian and the National Science Council Librarian, then attached to the National Museums Library.

Stage I: Field survey is in progress. Preliminary and full questionnaires have been circulated to 241 libraries and/or information centres (the returns as at 31.12.74 are 40.4% and 23% respectively) and interviews are in progress.

JOURNAL OF THE NATIONAL SCIENCE COUNCIL OF SRI LANKA

Vol. I No. 2 was published in January 1974 and Vol. II No. 1 in June 1974. Vol. II No. 2 is in press.

Twenty four scripts were submitted for publication during 1974. Of these, seventeen were accepted, three rejected and four are at the refereeing stage. The same Editorial Board continued in office. The Librarian/Publications Officer was appointed as Secretary of the Editorial Board.

NEW NATIONAL SCIENCE COUNCIL OF SRI LANKA BILL

The new National Science Council of Sri Lanka Law will be published in the Gazette of the Republic of Sri Lanka as a supplement to Part II of the Gazette of 3rd January 1975.

SCIENTIFIC MANPOWER PROGRAMME

The Council appointed a Panel consisting of the Secretary-General, Dr. L.H. Fernando, Dr. M.R.N. Nathanael, Prof. A.C.J. Neerakoon, Prof. I. Balaseoriya, Prof. M.D. Dassanayake and Prof. R.M. de Fonseka to administer the programme.

The Panel decided that teachers in all Science Faculties and the Agriculture Faculty were to be written to, to put up projects for this programme. These projects were discussed by the Panel and the implementation of some of these proposals will commence in 1975.

WORKSHOP ON NATURAL PRODUCTS

Preliminary discussions regarding a Workshop on Natural Products to be jointly sponsored by the National Academy of Sciences - U.S.A. and the National Science Council of Sri Lanka were held during the course of the year between Dr. V. Rabinowitch, Director of Board on Science and Technology of the National Academy of Sciences and Dr. G.C.M. Jayasuriya, Secretary General of the National Science Council. Approval for holding this Workshop has been obtained from the Ministry of Industries and Scientific Affairs and the Ministry of Defence and Foreign Affairs.

SRI LANKA UNISIST PROGRAMME

The National Science Council was nominated as the National Focal Point for the co-ordination of Scientific and Technical Information activities in Sri Lanka in response to the invitation of the Director-General of UNESCO to the Government of Sri Lanka. The UNISIST Programme is a long-term international programme, operating within the framework of UNESCO, designed to establish a world wide information system.

THE 1 ST UNISIST MEETING OF EXPERTS ON REGIONAL INFORMATION  
POLICY DEVELOPMENT IN SRI LANKA - COLOMBO, SRI LANKA  
13 - 15 DECEMBER 1974

The meeting convened by UNESCO, was organized by the UNESCO Field Science Office in South Asia with the assistance of the Government of Sri Lanka represented by the National Science Council and the Sri Lanka National Commission for UNESCO with the active collaboration of the Sri Lanka Foundation Institute. It was held in Colombo, from 13-15 December, 1974 at the Sri Lanka Foundation Institute. The technical aspects of meeting organization were handled by the National Science Council.

Information Specialists from National Focal Points and/or members of UNISIST National Committees from Afghanistan, Bangladesh, India, Iran, Pakistan and Sri Lanka as well as observers from organizations interested in scientific and technical information and documentation attended the meeting. The meeting was formally declared open by Mr. T.B. Subasinghe, Minister of Industries and Scientific Affairs.

The meeting explored the feasibility and desirability of the development of regional co-operation at a technical level between South Asian countries, primarily on the basis of a comparative policy and management review of main problem areas, trends and relationships in the field of scientific, technical and industrial information. Agreement was reached on the main elements of a programme for the development of regional information policy and the areas for future regional action; and measures

for follow-up action and mechanism for co-operation were delineated.

Sri Lanka was represented at the meeting by Dr. G.C.H. Jayasuriya, Secretary General of the Council who is also the Chairman of the Sri Lanka UNESCO Committee, and Miss V.B. de Silva, Librarian/Publications Officer of the National Science Council who is the Secretary of the Sri Lanka UNESCO Committee.

Dr. G.C.H. Jayasuriya was elected Chairman of the Meeting.

UNESCO / COSTED MEETING ON THE PRESENT ROLE OF UNIVERSITIES  
IN SCIENTIFIC DEVELOPMENT

Preliminary arrangements were made for holding the above meeting in January 1975. The meeting will be hosted on behalf of the Government of Sri Lanka by the University of Sri Lanka, the National Science Council of Sri Lanka and the Sri Lanka National Commission for UNESCO.

9 TH MEETING OF THE COMMONWEALTH SCIENTIFIC COMMITTEE - COLOMBO  
SRI LANKA - NOVEMBER / DECEMBER 1976

The invitation of the Government of Sri Lanka to host the 9th Meeting of the Commonwealth Scientific Committee in Sri Lanka had been accepted by the Commonwealth Scientific Committee at its 8th meeting held in Lusaka in July 1974. The meeting is scheduled to be held in Colombo in November/December 1976. At the 8th meeting of the Commonwealth Scientific Committee, the Secretary General of the National Science Council was elected Chairman of the Commonwealth Scientific Committee for the period 1974-1976.

"BRAIN DRAIN"

The National Science Council appointed a Sub-committee with Dr. O.V. Jayaratne as Chairman, Prof. H.L.T. Kannangara, Prof. P.P.G.L. Sirivardena, Dr. R.O.B. Wijesekera and Dr. Soetha Rodrigo to study this problem and submit a memorandum to the Cabinet sub-committee on the "Brain-Drain".

The Cabinet Sub-committee invited oral representation from the National Science Council on the 30th July 1974 and the following gave oral evidence before a committee on behalf of the Council - Dr. C.L. Jayaratne, Dr. G.C.H. Jayasuriya, Dr. M.O.B. Wijesekera and Dr. Soetha Rodrigo.

#### INTERNATIONAL MEMBERSHIP

The Council is the adhering member for Sri Lanka on the following International Organizations.

- (a) Commonwealth Scientific Committee (CSC)
- (b) International Council of Scientific Unions (ICSU)
- (c) Union Radio-Scientifique Internationale - International Union of Radio Science (URSI)
- (d) Association for Science Co-operation in Asia (ASCA)
- (e) International Union of Physiological Sciences (IUPS)

The Council decided to seek membership of the International Foundation for Science, while at the same time, deciding to withdraw from membership of the URSI.

#### NATIONAL COMMITTEES

The Council co-ordinated the working of the following Committees.

- (a) The National Committee on Man and the Biosphere.
- (b) National Committee on Radio Science, Astronomy and Space Science.
- (c) National Committee for UNESCO.

#### The National Committee on "Man and the Biosphere"

On the recommendation of the Committee, the National Committee on Man and the Biosphere had been re-constituted. Funds have been allocated for project 3 of the UNESCO sponsored International MAB Programme.

#### COUNCIL VISITORS

Dr. R.N. Gonzales, Director, Scientific Research Council of Jamaica visited Sri Lanka for two weeks, beginning 1st March 1974 as a Commonwealth Foundation Lecturer. Local arrangements for his visit were made by the National Science Council.

Dr. V.G. Podoinitsin, Director, Field Science Office for UNESCO in New Delhi visited the Council on two occasions for discussions with the Secretary General regarding the UNISIST meeting and the COSTED Meeting.

Mr. D.G. Thomas, Executive Secretary of the Commonwealth Scientific Committee visited the Council in December 1974.

Mr. A.L. Winters of the Division of Scientific and Technical Information, UNESCO, visited the Council in September 1974 and had discussions with the Chairman and Secretary of the Sri Lanka UNISIST National Committee.

#### OVERSEAS VISITS

A Workshop on Research Planning and Administration was organized by the Commonwealth Scientific Committee for the African Commonwealth countries. Two Observers, one from the Asian region and one from the Caribbean region were invited for this Workshop. The Secretary General was invited as the Observer from the Asian Region and he attended this Workshop which was held in Nairobi, Kenya from the 25th to the 29th March 1974.

The Secretary General represented Sri Lanka at the 3rd Meeting of the Association for Science Co-operation in Asia from the 1st - 11th April 1974 in New Delhi, India.

The Secretary General represented Sri Lanka at the 8th Meeting of the Commonwealth Scientific Committee held in Lusaka, Zambia from the 8th - 19th July 1974.

Dr. Seetha Rodrigo, Scientific Officer of the National Science Council attended the Asian Seminar on Science and Technical Policy held in Jakarta, Indonesia from the 8 - 12 October 1974. She presented a paper on "Future Development Problems and Basic Research" at the Seminar. This Seminar was organised by UNESCO.

Miss J.B. de Silva, Librarian/Publications Officer attended the "UNESCO International Training Course on Information Retrieval and Information Retrieval Systems" held from the 4 - 24th August 1974 in Katowice, Poland which was organized by UNESCO in collaboration with the Government of the Polish People's Republic.

#### IV LIBRARY

During the year under review, the major activities were :

Organization : Systematic professional procedures were initiated and maintained for all processing and service activities of the Library. All holdings, both retrospective and current acquisitions were inventorised and conventional reader services - loans, referral, inquiry and literature searches - to the Council and Secretariat maintained. Increase floor space was made available and this enabled the Unit to be centralised and the collections to be effectively filed for retrieval purposes.

Acquisitions : Receipts for the year 1974 are detailed by category and quantity in Table I, which also indicates the total holdings as at 31 December 1974.

Subject coverage : The small but specialized library collection relates primarily to 2 subject areas (1) Science policy, research and development, and (2) Environment. The scope was widened to cover (3) a collection of reference tools and bibliographies and (4) material on information science for use of the SEP Unit to be established in 1975 and (5) indigenous S & T report literature, both published and unpublished with particular emphasis on the latter fugitive material. The intention is to steadily build up a comprehensive collection on these fields.

TABLE I. LIBRARY ACQUISITIONS : 1974

Source	Type	Books and Report Literature	Serials
Purchases		127	27
Gifts		151	104
Exchanges		60	40
Total : 1974		338	171
TOTAL HOLDINGS AS AT 31 DECEMBER 1974		1,393	255

V ADMINISTRATION

The Secretariat

The ground floor of the new premises, 47/5, Maitland Place have been temporarily given to the Atomic Energy Authority.

The first floor is used by the Scientific Affairs Division and the Administration Division of the Council. The second floor is now being used by the Library/Publications Unit and the Accounts Division of the Council.

Staff

The staff at the end of the period under review totalled forty two. The Secretary General and five Scientific Officers continued in office. Dr. H.V.R.M. de Silva, Scientific Officer resigned his post in April 1974 to take up an appointment abroad.

Mrs. M.B. de Silva, Scientific Officer resumed duties in October 1974 after successfully completing the M.Sc. degree at the University of Manchester.

Additional secretarial assistance was also obtained during the period under review.

ANNEXE I

MEMBERSHIP OF THE STANDING COMMITTEES AND PANELS 1974

I. Research Grants & Scholarships Board :

Mr. D.B. Pattiaratchi (Chairman)  
Prof. B.A. Abeywickrama  
Dr. H.A.V. Dovanathan  
Dr. G.C.N. Jayasuriya  
Mr. S.F. Laurentius  
Dr. J.H.L. Peiris  
Mr. M.H. Pillai  
Prof. K.N. Seneviratne  
Dr. Seetha Rodrigo (Secretary)

II. Establishments Committee :

Dr. Osmund Jayaratne (Chairman)  
Mr. D.B. Pattiaratchi  
Dr. G.C.N. Jayasuriya  
Dr. R.C. de Silva  
Mr. J.C.P. Jayasinghe (Secretary)

III. Journal of the National Science Council - Editorial Board :

Dr. G.C.N. Jayasuriya (Chairman)  
Prof. P.W. Epassinghe  
Dr. H.L.T. Kamangara  
Prof. S. Mahalingam  
Dr. R.C.B. Wijesekera  
Dr. C.R. Panabokke  
Mr. D.B. Pattiaratchi  
Dr. S.P.F. Senarathne  
Prof. K.N. Seneviratne  
Mr. A.E.K. Tisseverasinghe  
Miss Clodagh Methsinghe (Secretary)  
Miss Vijita de Silva (Secretary from 01-02-74)

IV. National Committee for Radio Science, Astronomy and  
Space Science :

Dr. M.L.P. Kumangara (Chairman)  
Mr. B.K.P. Manayake  
Prof. P.C.B. Fernando  
Prof. C. Dahanayake  
Mr. H.D.S.A. Gunawardena  
Dr. G.C.N. Jayasuriya  
Dr. O.N. Jayaratne  
Mr. W.M.G. Fernando  
Mr. G.S. Jayamaha  
Dr. Iranganie Thabrew (Secretary)

V. National Committee on Man and the Biosphere :

Prof. B.A. Abeywickrema (Chairman)  
Mr. K.D. Ariyadasa  
Prof. H. Cruz  
Prof. C. Dahanayake  
Dr. G.C.N. Jayasuriya  
Mr. E.E. Jayaraj  
Mr. A.S.A. Packeer  
Prof. P.P.G.L. Siriwardena  
Mr. A.E.K. Tisseverasinghe  
Mr. L.C.A.D. de S. Wijesinghe  
Mr. H. Athapathanathan  
Dr. H.W.R.M. de Silva (Secretary)  
Mr. N. Shanmugaratnam (Secretary from April 1974)

VI. Sri Lanka UNISIST National Committee :

Dr. G.C.H. Jayasuriya (Chairman)  
Dr. R.C. de Silva  
Mrs. Violet de Souza  
Mr. J.P. Senarathne  
Miss. C.L.M. Nethsingha  
Dr. S. Rajanayagan  
Mr. A.M. Ranawogara

Mr. M.A.P. Senadhira

Mr. K.D. Somadasa

Mr. D.K. Subasinghe

Mr. P.V. Thamber

Miss Manil Silva

Miss Vijita de Silva (Secretary)

ANNEXE II

RESEARCH GRANTS APPROVED FOR 1974

AGRICULTURE

Ref.No.	Name, Institution Title	Duration (Years)	Total amount approved
2/RG/74/1	Dr.C.S. Weeraratne, Faculty of Agriculture, Peradeniya Campus, University of Sri Lanka, Peradeniya. "Residual effects of Agrochemicals in soils of Sri Lanka"	2	Rs. 10,200/=

BIOLOGICAL SCIENCES

2/RG/74/2	Dr.D.E. Atapattu, Dr.C. de Silva, Department of Zoology, Colombo Campus, University of Sri Lanka, Colombo 3. "Studies on the edible bivalve molluscs off the south west coast, of Sri Lanka"	2	Rs. 23,400/=
2/RG/74/3	Mr.W.L.B. de Alwis, National Zoological Gardens, Dehiwela. "Economics of the tropical fish export industry"	1	Rs. 8,700/=
2/RG/74/4	Prof.A.C.J. Weerakoon, Head/Department of Bio- logical Sciences, Vidyodaya Campus, Univ- ersity of Sri Lanka, Nugegoda. "An attempt at farming Penaid Prawns and certain hydrobiological investi- gations incidental thereto"	3	Rs. 46,090/=

Ref.No.	Name, Institution Title	Duration (Years)	Total amount approved
2/RG/74/5	Dr.A. Sathesivam, Medical Research Inst- itute, Colombo 3. "Determination of wild animal reservoir of rabies in Ceylon".	2	Rs. 2,500/=
2/RG/74/6	Dr.N.N.de Silva, C.I.E. Research and Development Division, 21, Vauxhall Street, Colombo 2. "Handling and utiliza- tion of Cashew. 'Apples' (kaju puhulang) and Nuts"	1	Rs. 20,800/=
<b>PHYSICAL SCIENCES</b>			
2/RG/74/7	Dr. (Mrs.) W.S. Kumar, Department of Chemistry, Peradeniya Campus, Univ- ersity of Sri Lanka, Peradeniya. "To investigate the utilization of factory waste from the passion fruit industry".	2	Rs. 24,400/=
2/RG/74/8	Dr. N.K. Kodagoda, Department of Forensic Medicine, Faculty of Medicine, Colombo Campus, University of Sri Lanka, Colombo 3 "Estimation of alco- holic content & conta- minants in local into- xicant preparations".	1	Rs. 4,000/=
<b>MEDICAL SCIENCES</b>			
2/RG/74/9	Dr. T. Ponnudurai, Department of Parasito- logy, Faculty of Medicine, Colombo Campus, University of Sri Lanka, Kandy Road, Colombo 3. "Sero-Epidemiology of malaria in Sri Lanka"	2	Rs. 23,400/=

Ref.No.	Name, Institution Title	Duration (Years)	Total amount approved
2/RG/74/10	Dr.J.Hettiarachchi, Department of Medicine, Peradeniya Campus, University of Sri Lanka, Peradeniya. "The prevalence of anaemia in tea estate workers and its pre- vention".	1	Rs. 11,200/=
2/RG/74/11	Mrs.K.Senoviratne, Department of Medicine, Peradeniya Campus, Uni- versity of Sri Lanka, Peradeniya. "Urinary tract infections in surgical wards and catheterised patients"	1	Rs. 11,600/=
2/RG/74/12	Dr.S.Thambipillai, Department of Medicine, Peradeniya Campus, Uni- versity of Sri Lanka, Peradeniya. "Acute and chronic effects of insecti- cides on the heart kidney and liver in humans"	1	Rs. 8,200/=
2/RG/74/13	Dr.K.E.de S.Karunaratne, General Hospital, Ratnapura. "Prospective study of subjects exposed to insecticides and wood- ioides poisoning"	1	Rs. 1,500/=
2/RG/74/14	Dr.P.H.D.H.de Silva, Base Hospital, Kegalle. "A study of uterine mal- formations with reference to 1.Type & incidence, 2. Influence on fertility, 3, Early detection, 4, Com- plications & outcome of pregnancy, 5. Management"	1	Rs. 2,500/=

Ref.No.	Name, Institution Title	Duration (Years)	Total amount approved
2/RG/74/15	Dr.N.Gneshanathan, General Hospital, Ratnapura. "The study of carcinoma of the oesophagus, with special reference to its etiology"	1	Rs. 2,500/=
2/RG/74/16	Dr.(Mrs.)S.Rajakulendran, Department of Parasito- logy, Faculty of Medicine, Colombo Campus, Univer- sity of Sri Lanka, Kynsey Road, Colombo 8. "Investigation into the pathogenesis and epide- miology of amoebiasis".	1	Rs. 2,500/=
2/RG/74/17	Mrs.K.Seneviratne, Department of Medicine, Peradeniya Campus, Univ- ersity of Sri Lanka, Peradeniya. "The determination of the critical fluoride concentration for the prevention of dental caries and the mode of supply of fluoride to children in Ceylon"	1	Rs. 8,600/=
<u>SOCI/L SCIENCES</u>			
2/RG/74/18	Mr.A.Ratnavibushana, Department of Architect- ure, Katubedda Campus, Un- iversity of Sri Lanka, Katubedde. "Examination of the societal correlates of housing with a view to providing architects & others res- ponsible for housing plan- ning with a set of guide lines which would better enable them to design build- ings particularly for low income urban groups"	1	Rs. 14,250/=

ENGINEERING SCIENCES

Ref.No.	Name, Institution Title	Duration (Years)	Total amount approved
2/RG/74/19	Prof. A. Thurairajah, Department of Civil Engineering, Peradeniya Campus, University of Sri Lanka, Peradeniya. "Structural Forms-- Foundation for Light structure in reclaim- ed lands"	2	Rs. 25,000/=
2/RG/74/20	Dr. A. Ranjith T. de Silva, Faculty of Engineering, Peradeniya Campus, Univ- ersity of Sri Lanka, Peradeniya. "Development of local metallic products to standard for export and import substitu- tion"	2	Rs. 22,300/=

MEDICAL SCIENCES

2/RG/74/21	Dr. (Mrs.) M. C. Attapattu, Medical Research Insti- tute, Colombo 8. "Mycological studies of the pattern of fungal infection in School Children in Sri Lanka"	1	Rs. 1,310/=
2/RG/74/22	Dr. P. Abeykoon, Dept. of Preventive & Social Medicine, Peradeniya Campus, Univ. of Sri Lanka. Peradeniya. "Kap study of family planning among village leaders"	1	Rs. 2,025/=

Ref. No.	Name, Institution Title	Duration (Years)	Total amount approved
2/RG/74/23	Dr. L. Galappathi, Dept. of Biochemistry, Fac. of Medicine, Peradeniya. "Pathogenesis of endemic goitre in Sri Lanka"	2	Rs. 7,500/=
<u>BIOLOGICAL SCIENCES</u>			
2/RG/74/24	Dr. H. R. Breckenridge, Dept. of Zoology, Univ. of Sri Lanka, Peradeniya. "A Histopathological study of the effect of molluscicides on <i>Achatina fulica</i> the Kalutara snail"	1	Rs. 8,000/=
<del>2/RG/74/25</del>	<del>Dr. N. A. Samarasinghe, Medical Research Institute Colombo 6. "Study of Rice field breeding mosquitoes associated with the transmission of Japanese Encephalitis"</del>	<del>1</del>	<del>Rs. 5,000/=</del>
2/RG/74/26	Dr. S. A. Mulasooriya, Dept. of Botany, Univ. of Sri Lanka, Peradeniya, Cassara, Peradeniya. "Survey of blue green algae in rice soils of Kandy District and the estimation of nitrogen fixing types"	3	Rs. 37,600/=
2/RG/74/27	Dr. G. H. P. Bruin, Fisheries Department, Sir Mohamed Harkun Markar Nawatha, Colombo 3. "The eradication of the coral predator the crown thorns star fish"	1	Rs. 10,000/=

Ref.No.	Name, Institution Title	Duration (Years)	Total amount approved.
2/RG/74/28	Dr. Rasiah Satchuthan- anthavale, Rubber Research Institute, Agalawatta. "Plant Tissue Culture. Hevea and Coconut"	3	Rs. 39,173/15
<u>CHEMICAL SCIENCES</u>			
2/RG/74/29	Dr. K. T. D. de Silva, Dept. of Chemistry, Vidyodaya, Huggoda. "The Chemistry of some native medicinal plants and their pharmacological actions"	2	Rs. 14,400/=
<u>ENGINEERING SCIENCES</u>			
2/RG/74/30	Mr. A. E. K. Tisseveera- singhe, Forest Department, Colombo. "Staplin gun for the manufacture of tea chests"	1	Rs. 2,800/=
<u>JUNIOR RESEARCH AWARD - HEALTH 1974</u>			
2/RG/74/31	Dr. A. H. A. Weerakkody, District Hospital, Avissawella. "A trial of the corr- ection of Anaemia among the estate pop- ulation by the regular and compulsory admini- stration of oral iron"	1	Rs. 1,000/=

ANNEXE III

The Council in order to promote research which would be of immediate economic and social benefit to the country and also in order to encourage a multidisciplinary and interorganizational approach to these research problems, invites individual scientists or groups of scientists to submit applications for the following research projects. The Council will be given priority for these projects. The order in which projects are listed does not indicate the order of priority. However projects other than those listed below will also be considered by the National Science Council.

1. Research projects concerning soil biology (macro and micro).  
e.g. Effects of use of pesticides on the soil micro and macro fauna and flora under different cultivation systems such as rice, tea, rubber, vegetables and potatoes.
2. Studies of plant virus diseases and their control.  
e.g. Yellow leaf virus in Soya bean.
3. Study of damage caused by insect pests and methods of control.  
e.g. a) P. Cumingi and Trunk borer in cashew.  
b) Study of life cycles of insect pests and predators.
4. Tissue culture studies  
e.g. Clonal propagation of Coconut.
5. Studies on increasing the efficiency of the fermentation industry based on toddy.
6. Study of locally available raw material for their suitability in the perfumery industry.
7. Control of weeds.  
e.g. a) Biological Control  
b) Use of weedicides

8. Natural repellents for the control of insects in stored foods.
9. Storage packaging and transportation of fruits and vegetables for minimising spoilage.
10. Cultivation of sugar beet in Sri Lanka and its potential for sugar production.
11. Operational Research into the cost-efficiency of health care delivery systems.
12. Research into health care problems that arise with new development projects.
13. Research into overcoming health hazards arising from new industrial and agricultural techniques.
14. Studies on nutrition relating to the cost and availability of local resources, including the requirements of specific population groups.
15. Epidemiological studies with special reference to the communicable diseases - vector control and water hygiene and problems arising from environmental pollution.
16. Problems connected with population control and demographic studies.
17. Change in pattern of disease in Sri Lanka.
18. Research relating to clinical problems of special significance.
19. Problems arising from drug abuse and addiction.
20. Nutritional and socio economic aspects of community feeding.

21. Study of the major problems of implementation of prevocational studies, including its impact and repercussions.
22. The development of techniques for assessment of practical abilities such as manipulative skills.
23. Studies in respect of possible reduction in school overheads including the economic and social consequences of its distribution between urban and rural areas.
24. An economic study of the book printing and publishing trade with special reference to educational books.
25. Production of inexpensive science equipment for use at school level to meet the requirements of the new curricula.
26. Development of traditional and other building materials for low cost housing.
27. Study of the properties of reclaimed marshy land to evolve economic foundation design for housing.
28. Studies of the suitability of the technology used in Agriculture, Industry and the services.
29. Worker motivation, absenteeism and nutrition.
30. Case studies of underemployment in rural areas with emphasis on causes for such underemployment.
31. Maximum utilization of the available excess capacity in lorry transport.
32. A study of the problem of transporting produce in the rural areas.
33. Role of the middleman in the economy, with special reference to the problems of agricultural marketing.

34. Socio economic studies of selected villages.
35. Research on demand and market studies of wood raw materials.
36. Economic use of alternative sources of energy.
  - e.g. a) Microbiological production of methane as a source of domestic fuel.
  - b) Solar energy.
  - c) Wind energy.
37. Utilization and recycling of wastes.
  - a) Agricultural and Animal Wastes
  - b) Industrial and Chemical Wastes
  - c) Community Wastes
  - d) Building material Wastes
- ~~38. Metallurgy of production of knife edges and bearings for weighing scales.~~

ANNEXE IV

PUBLICATIONS OF RESEARCH GRANTEEES

1. NSCA/1/17/2: Prof. M.U.S. Sultanbawa
  - 1.1 BANDARANAYAKE, W.M., SELLIAH, S., SULTANBAWA, M.U.S. & GAMES, D.E. (1974) Chemical investigation of Ceylonese plants. part XI. Xanthones and 4 - Phenylecgonarins of *Mesua Thwaitesii* planch and *Triana* (Guttiferae). Phytochemistry. (in press).
  - 1.2 DAHANAYAKE, M., KATIGAMA, I., SOMANATHAN, R. & UVAIS, M. (1974) Chemical investigation of Ceylonese plants. part VII. Extractives of *Calophyllum thwaitesii* planch and *Triana* and *Calophyllum walkeri* Weight (Guttiferae) J. Chem. Soc. Perkin I. (in press)
  - 1.3 PAVANASASIVAM, G. & SULTANBAWA, M.U.S. (1974) Chemical investigation of Ceylonese plants. part IX. Betulinic acid in the Dilleniace and a review of its natural distribution. Phytochemistry : 13: 2002.
  - 1.4 PAVANASASIVAM, G., SULTANBAWA, M.U.S. & MAGESHARAN, R. (1974) Chemical investigation of Ceylonese plants. part X. New Chromenoflavonoids from the bark of *Artocarpus Nobilis* Thw (Moraceae). Chem. & Ind.: 875.
  - 1.5 SOMANATHAN, R., & SULTANBAWA, M.U.S. (1974) Chemical investigation of Ceylonese plants. part VIII. Trapezifolixanthone, a New Di-isoprenylated xanthone from the bark of *Calophyllum Trapezifolium* Thw. (Guttiferae) J. Chem. Soc. Perkin I. (In press)
2. NSCA/1/17/6: Mr. V. Pavanasasivam
  - 2.1 Thesis. Micronutrient studies on some soils in the montane grassland areas of Sri Lanka. (Submitted for the award of M.Sc. degree in Agriculture)
  - 2.2 PAVANASASIVAM, V. & KALPAGE, F.S.C.P. (1973) A review of Micronutrients in soils with reference to Sri Lanka. Trop. Agriculturist : 129 : 37-46.

- 2.3 PAVANASASIVAM, V. & KALPAGE, F.S.C.P. (1974) Polybdenum status of some organic matter rich montane soils of Sri Lanka. J. Indian Soc. Soil Sci. (In press)
- 2.4 PAVANASASIVAM, V. & KALPAGE, F.S.C.P. (1974) Status of zinc and copper in the wet-patana soils of Sri Lanka. Trop. Agriculturist (In press)
3. NSCA/1/17/7: Prof. S.N. Arsecularante
- 3.1 ARSECULARANTE, S.N., SAMARAJEENA, U. & WELLIANCE, L.V. (1974) 'Control of aflatoxin contamination - 1. Inhibition of aflatoxin accumulation in smoked substrates: Its possible use in field control of aflatoxin contamination' Proc. Ceylon Assoc. Advmt. Sci. : 30(1) : 35-36.
- 3.2 SAMARAJEENA, U. & ARSECULARANTE, S.N. (1974) 'Control of aflatoxin contamination - 2 Detoxification of aflatoxin contaminated coconut oil'. Proc. Ceylon Assoc. Advmt. Sci. : 30(1) : 36-37
- 3.3 SAMARAJEENA, U., ARSECULARANTE, S.N., TENNIAKOO, G.E. & BANDUNATHA, C.H.S.R. (1974) 'Natural and experimental aflatoxicosis in goats. Proc. Ceylon Assoc. Advmt. Sci. : 30(1) : 37-38
4. NSCA/1/17/11 : Prof. Y.D.A. Senanayake
- 4.1 SENANAYAKE, Y.D.A. (1974). The influence of cold sterate on the survival and flowering of field planted cabbage, carrot and beet in Sri Lanka. J. Natn. Sci. Coun. Sri Lanka. 2(1) : 1-11
5. NSCA/1/17/28 : Dr. W.R. Breckenridge
- 5.1 BRECKENRIDGE, W.R. & JESUDAS, S. (1973) Possible neurosecretory cells in the cerebral ganglia of Achatina fulica, (Gastropoda, pulmonata) Proc. Ceylon Ass. Advmt. Sci. : 29(1) : 105-106

6. NSCA/1/17/35 : Prof. S.N. Arsecularatne
  - 6.1 PINTO, M.R.H. & ARSECULARATNE, S.N. (1974).  
An investigation of Takahashi's antitubercle  
phosphatide kaolin Agglutination Test in Leprosy.  
42(1) : International J. of Leprosy. 42(1)
  - 6.2 PINTO, M.R.H. ARSECULARATNE, S.N., URAGODA, C.G. &  
WELIANGE, L.V. (1974) The sensitivity to thiocotazone  
of tubercle bacilli isolated from patients with  
pulmonary tuberculosis in Sri Lanka. Tubercle, London  
55 (2) : 129-134
  
7. NSCA/1/17/38 : Dr. R.S. Ramakrishna
  - 7.1 RAMAKRISHNA, R.S. & SEMARAT YAPA, D.A.T.A. (1974)  
Potentiometric and polarographic studies of the  
complexes of Titanium (IV) with hydroxy acids. Proc.  
Ceylon Ass. Advmt of Sci. 30(1) : 122-123
  
8. NSCA/1/17/46 : Dr W.E. Ratnayake
  - 8.1 JAYASURIYA, V.U. de S. & Ratnayake, W.E. (1973) The  
Mutagenic and chromosomal effects on *D. Melanogaster*  
of some pesticides commonly used in Sri Lanka. Proc.  
Ceylon Ass. Advmt Sci. 29(1) : 100-101
  
9. 2/RG/72/6 : Dr (Mrs.) M.P.D. Pereira
  - 9.1 BALASUBRAMANIAN, A. FERNANDO, J.N.O., JAYALINNE, D.T.  
KAHENDRAN, M. & PEREIRA, M.P.D. (1974) Studies on the  
chlorinated polymeric material formed in the chlorine  
plant at Paranthen. Proc. Ceylon Ass. Advmt Sci.  
30(1) : 109-110
  
10. 2/RG/72/9 : Mr. M.H.J.G. Mendis
  - 10.1 MENDIS, M.H.J.G. (1974) The need for management  
services in the development planning machinery with  
reference to Sri Lanka. J. Administrative Studies 4(1)

- 10.2 MENDIS, M.V.J.G. (1974) Economic Implications of Urbanization Trends in Sri Lanka. Proc. Ceylon Ass. Advmt Sci. 30(1) : 140-141
- 10.3 MENDIS, M.V.J.G. (1974) Spatial policy issue in the economic development of Sri Lanka. Sanwardana. June - 65.
11. 12/RG/72/16 : Dr. H.G. Nandadasa
- 11.1 SENARATNE, A.U. & NANDADASA, H.G. (1973) Observations on the Bronzing disease of paddy. Proc. Ceylon Ass. Advmt Sci. 29(1) : 103-104
- 11.2 SENARATNE, A.U. & NANDADASA, H.G. (1974) A Genetical Analysis of resistance to bronzing in paddy. Proc. Ceylon Ass. Advmt Sci. 30(1) : 90-91
12. 2/RG/72/29 : Prof. S.N. Arsecularatne
- 12.1 NAVARATNAM, C., WANASINGHE, D.D., PINTO, M.R.M., WELLANGE, L.V. & RAVINDRAN, K.V. (1974) Studies of tuberculin sensitivity in livestock in Sri Lanka. IV, patterns of sensitivity in sheep. Cey. Vet. J. 22(1&2) 25-31 (in press)
- 12.2 WELLANGE, L.V., WANASINGHE, D.D., PINTO, M.R.M., NAVARATNAM, C. & THIRUNAKARASE, S. (1974) Studies of tuberculin sensitivity in livestock in Ceylon V, patterns of sensitivity in pigs. Ceylon Vet. J. 22(3&4) 85-89 (in press)
13. 2/RG/73/8 : Mr. V.K. Ganesalingam
- 13.1 GANESALINGAM, V.K. (1974) Insect pests in rice stores. Proc. Ceylon Ass. Advmt Sci. 30(1) : 94-95
- 13.2 KULASOORIYA, S.A., GANESALINGAM, V.K. & KAHAWATTA, H.M.R.K. (1974) The relationship between the weevils sitophilus, zeamais and sitophilus oryzae L, and fungi, Aspergillus spp. Proc. Ceylon Ass. Advmt Sci. 30(1) : 95-96

14. 2/73/10 : Dr. S.N. de S. Seneviratne
- 14.1 SENEVIRATNE, S.N. de S. & WICKRAMASINGHE,  
(1974) Passion yellow blotch, a new virus disease of  
passion fruit. (Passiflora edulis var. flavicarpa)  
Proc. Ceylon Ass. Advmt. Sci. 30(1) : 65
15. 2/73/12 : Dr. K. Sundaralingam
- 15.1 RAMACHANDRAN, C. & SUNDARALINGAM, K. (1974) Building  
materials from coconut husk. Proc. Ceylon Ass. Advmt  
Sci. 30(1) : 104
16. 2/73/14 : Dr. N.L. Walloppillai
- 16.1 WALLOPPILLAI, N.J. & ATUKORALE, D.P. (1975) Myocardial  
infarction in young Ceylonese. J. Natn. Sci. Counc. Sri Lanka  
3(1) : 19-29
17. 2/74/7 : Dr. N.S. Kumar
- 17.1 ANANDARAJAH, J.A.G., CANAGARATNA, S.G. & KUMAR, N.S.  
(1974) Studies on Pectin, part I. Proc. Ceylon Ass.  
Advmt Sci. 30(1) : 120-21
18. 2/RG/72/9 : Dr. T. Ponnudurai
- 18.1 PONNUDURAI, T. & SIVANESARAJAH, Y. (1974) Malarial  
antibody among blood donors from different areas in  
Sri Lanka, Proc. Ceylon Ass. Advmt Sci. 30(1):13-14
19. 2/RG/74/15 : Dr. N. Ganeshanathan
- 19.1 GANESHANATHAN, N. (1975) Aetiological aspects of  
oesophageal carcinoma in Sri Lanka. Ceylon Med. J.  
20 : 3-19
20. 2/RG/74/28 : Dr. R. Satchuthandhavale
- 20.1 SATCHUTHANANTHAVALE, R. (1973) Tissue culture. Q. Jl.  
Rubb. Res. Inst. Sri Lanka 50(1&2) : 91-97

- 20.2 SATCHUTHANANTHAVALA, R. (1973) Tissue culture technique in Hevea breeding. R.R.I.S.L. Bulletin 8(3&4):46-47
- 20.3 SATCHUTHANANTHAVALA, R. (1974) Hormonal control of organ formation in explants of Hevea stem section. International Rubber Research and Development Board. Scientific Symposium. part I. Proc. Cochin, India 26-28 September 1974.
- 20.4 SATCHUTHANANTHAVALA, R. & IRUGALBANDARA, Z.E. (1972) Propagation of callus from Hevea anthers. Q.Jl.Rubb. Res. Inst. Sri Lanka. 49(3&4) : 65-68

As at 31-12-1973

Funds Not Lapsed

National Science Council Fund

Balance on 1st January, 1974

Add: Drawings from Treasury

Add: Treasury Deposit 1974 (Contra)

Less: Excess of Expenditure over Income

325,180  
602,493

602,492.44  
550,000.00  
1,152,492.44  
15,000.00

1,167,492.44  
436,283.67

731,208.77

Research Grants - Fund

Approved Projects Account

Drawings from Treasury

Less: Transfer to IAB Project 3

Less: Expenditure for the year ended 31-12-74

War & the Biosphere Account

Balance on 1st January 1974

Less: Expenditure for the year ended 31-12-74

W/3 Project 3 Funds transferred from Research Grants

Less: Expenditure for the year ended 31-12-74

Raw Power and Expenditure Account

Balance on 1st January 1974

Less: Expenditure for the year ended 31-12-74

Survey of Raw Materials Account

Balance on 1st January 1974

Less: Expenditure for the year ended 31-12-74

Scientific Raw Power Project Account

Drawings from Treasury

Less: Expenditure for the year ended 31-12-74

Current Liabilities

Creditors - Schedule No. 1

Provision for Research Grants - Schedule No. 2

Funds of S.C. to the Credit of Grantees - Schedule 3

666,200  
3,278  
19,062  
688,540

575,000.00  
201,708.15

373,291.84

410,914.77  
1,142,123.54

13,960.17  
58,881.28  
10,018.38

82,859.31  
1,224,983.38

92,482  
30,855  
61,625

1,641

2,000  
1,560  
440

688,540

REPRESENTED BY

NATIONAL SCIENCE COUNCIL OF SRI LANKA  
BALANCE SHEET AS AT 31ST DECEMBER, 1974

As at  
31-12-1973  
Rs.

60,535
147,230
68,089
1,649
1,429
9,296
25,100
312,378

17,814
19,946
3,610
196,890
350
22
63,370
62,019
364,021

688,540

Fixed Assets

Buildings	62,674.15	20,514.80	-	10,199.11	72,989.84
Office Equipment & Furniture	174,526.65	21,919.05	1,831.25	43,774.86	150,869.59
Motor Car	70,437.32	-	-	9,156.85	61,280.47
Moped	793.25	-	-	209.18	584.07
Sports Equipment	1,504.00	-	-	218.08	1,285.92
Accessories & Miscellaneous	9,734.62	1,354.83	-	1,509.67	9,579.78
Library	25,099.08	12,159.59	-	-	37,258.67
	344,769.07	55,948.27	1,831.25	65,037.75	333,848.34

Malapne Installation of D.F.  
National Emblem  
Goodwill on Sale & Exchanges  
of Journal N.S.C.

Current Assets

Stocks - Schedule No.4	70,244.92
Debtors - Schedule No.5	59,540.05
Prepayments - Schedule No.6	3,211.81
Deposits - Schedule No.7	17,030.00
Cash & Bank Balances -	
Petty Cash	350.00
Monies to be banked	526.97
Cash in hand	1,184.00
Bank Account No.7572	119,077.91
" " No.7686	602,793.85
	723,932.73

Cost as at 01-01-1974 Rs.Cts. Additions during the year Rs.Cts. Disposal during the year Rs.Cts. Accumulated Depreciation at 31-12-1974 Rs.Cts. Net Balance as at 31-12-1974 Rs.Cts.

13,953.64  
451.64  
2,770.25

873,259.51  
1,224,983.38

Dr. O. M. Jayaratne  
Chairman  
National Science Council

Dr. G. C. M. Jayasuriya  
Secretary General  
National Science Council

NATIONAL SCIENTIFIC COUNCIL OF SRI LANKA  
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31<sup>ST</sup> DECEMBER 1974

For the year ended  
31-12-1973

	Rs.	Cts.	Rs.	Cts.
Income for the year	399	-	1,522	11
Interest on Distress Loans	-	15	431	08
Interest on Bicycle Loans	62	-	-	-
Discounts Received	1	-	-	-
Sale of Old News Papers	-	-	-	-
Telephone undercharges	-	925	38	-
Profit on Sale of Fans & Venetian Blinds-Schedule 8	-	256	65	-
Sundry Income	-	-	-	-
	477	-	3,135	22

Less: Expenditure for the year

Council Expenditure	243	558	90
Travelling (Council Members)	-	783	35
Sub-Committees & Panels	-	8,410	00
Printing & Publications	46,400	63,992	83
Research Studentships	16,787	12,741	68
Subscriptions to International Scientific Unions	-	4,046	19
Participation in International Scientific Work	128	1,175	85
Incidental Expenses for Visiting Scientists	300	-	-
International Hydrological Decade Prized	-	-	-
	63,858	91,708	20

Staff Emoluments  
Salaries & Allowances  
Employees Provident Fund (Council Contribution)  
Overtime

	153,931	230,939	02
	19,659	24,563	86
	11,197	5,718	86
	194,797	261,221	74

Office Administration  
Travelling (Official)

Stationery	2,418	2,013	95
Rent Payable	11,641	11,426	19
Electricity	3,750	-	-
Telephone	1,799	3,669	00
	10,981	10,981	94

Loss: Telephone Charges (Private Calls & Health Project)

	9,219	10,487	40
	-	2,735	60
	2,670	30,332	14
	31,527	352,929	94
	290,182	3,135	22

352,929.94 3,135.22

30,332.11

b/f

Office Administration (cont.)

290,132

Light Fees	500
Bank Charges	627
Sundry Expenses - Schedule 9	5,742
Conservancy	40
Entertainment	570
Medical Expenses	94
Advertising	6,273
Contingencies	2,769
Maintenance of Motor Car	745
Maintenance of Office Equipment & Furniture	208
Welfare & Recreation	974
Consumables	66
Surplus A/c.	18,508
	16,867
	16,867
	325,627
	325,180

Depreciation - Schedule No. 10

32,948.63

Excess of Expenditure over Income

53,540.32

439,418.89

436,283.67

Research, Approved Projects

470,000.00

Man & the Biosphere - MAB Project 3

30,000.00

3,145.50

9,008.90

6,000.00

3,322.98

4,006.25

600.00

26,083.63

Scientific Man Power Project

200,478.66

Expenditure on Man Power Projects

1,292.50

Advertisements on Man Power Projects

Survey of Raw Materials

1,560

Dr. G.C.M. Jayasuriya  
Secretary General  
National Science Council

Dr. O.J. Jayaratne  
Chairman  
National Science Council

NATIONAL SCIENCE COUNCIL OF SRI LANKA  
 JOURNAL TRADING & PROFIT AND LOSS A/C. FOR THE YEAR ENDED 31ST DECEMBER, 1974

For the year ended  
 31-12-1973

Sales, Leverages & Complimentaries  
 Less: Stock as at 1st January, 1974

5,982	Add: Expenditure on production	
	Purchase of Art Paper	
	" " White Printing	
	" " Manilla	
2,785	Cost of Printing Journal & Reprints - Vol. 1 No. 2	
	" " " " - Vol. 2 No. 1	
	" " Instructions to Authors	
	Sundry Costs - Translations	
	Designing	
	Transport	
8,802	Cost of Exchanges and Complimentaries	
398	Postage	
455		
9,665		

Less: Stock as at 31st December 1974

4,427	Art Papers	
	White Printing	
	Manilla Board	
	Journals - Vol. 1 No. 1	
	Vol. 1 No. 2	
	Vol. 2 No. 1 - Art Paper	
	White Printing	
3,644	Reprints	
142		
8,213		
1,152		
663		

Goodwill on sales and exchanges of Journal

Rs. Cts.

4,256.99

4,427.05  
 3,643.70  
142.50

8,213.25

15,980.00  
 6,162.50  
 3,010.00  
 9,232.00  
 7,749.40  
 268.00  
 73.92  
 --  
53.00

42,526.82  
 667.15  
 663.75  
52,070.97

17,865.68  
 4,440.45  
 2,799.30

3,448.65  
 9,382.60  
 1,391.48  
6,114.01

20,336.80  
460.00

45,902.23

6,168.74

1,911.75

SCHEDULE NO: 1

CREDITORS

	Rs. Cts.
Auditor General .. .. .	1,500.00
Ceylon Electricity Board .. .. .	1,200.00
Ceylon University Press .. .. .	7,749.40
N.S.C. Welfare Society .. .. .	1,389.70
Post Master General (Telephone) .. .. .	2,750.00
Personnel re UNISIST Conference .. .. .	<u>222.26</u>
	13,811.36
Subscriptions received in advance for Journal of the N.S.C. Vol. 2 No. 2 .. .. .	<u>148.81</u>
	<u><u>13,960.17</u></u>

SCHEDULE NO: 2

PROVISION FOR RESEARCH GRANTS

	Rs. Cts.
N.S.C.A/1/17/35 .. .. .	4,000.00
N.S.C.A/1/17/51 .. .. .	6,000.00
2/RG/72/30 .. .. .	5,400.00
2/RG/74/18 .. .. .	12,250.00
2/RG/74/31 .. .. .	<u>1,000.00</u>
	28,650.00
NAB Project 3 (1975 Allocation) .. .. .	<u>30,231.29</u>
	<u><u>58,881.29</u></u>

SCHEDULE NO: 3

FUNDS AT N.S.C. TO CREDIT OF GRANTEES

				Rs. Cts.
2/RG/72/12	..	..	..	3,471.99
2/RG/72/24	..	..	..	2,083.70
2/RG/72/38	..	..	..	1,000.00
2/RG/73/13	..	..	..	555.60
2/RG/73/19	..	..	..	1,000.00
2/RG/74/3	..	..	..	1,000.00
MB/P.3	..	..	..	107.02
				<u>10,018.38</u>

SCHEDULE NO: 4

STOCKS

				Rs. Cts.
Stationery	..	..		21,260.12
Art Paper - 1st Consignment	..	..	1,885.68	
2nd Consignment	..	..	<u>15,980.00</u>	
				17,865.68
White Printing - For Annual Report			573.50	
For Journal N.S.C.			<u>4,440.45</u>	
				5,013.95
Manilla Board	..	..		2,799.30
White Duplicating	..	..		400.00
Consumables	..	..		2,086.57
Postage	..	..		22.50
Journal - Vol.1 No.1	..	..	3,448.65	
Vol.1 No.2	..	..	9,382.60	
Vol.2 No.1-Art Paper			1,391.48	
White Printing			<u>6,114.07</u>	
				20,336.80
Reprints				<u>460.00</u>
				<u>70,244.92</u>

SCHEDULE NO:5DEBTORS

				Rs. Cts.
Distress Loans	2(a)	..	..	11,459.95
Vehicle Loan	2(b)	..	..	15,000.00
Bicycle Loans	2(c)	..	..	7,493.24
Festival Advances	2(d)	..	..	700.00
N.S.C. Welfare Society		..	..	<u>7,912.00</u>
				42,565.19
Advertising re UNISIST Conference				8,400.00
Funds & Supplies provided by N.S.C. for UNISIST Conference				<u>8,574.86</u>
				<u>16,974.86</u>
				<u>59,540.05</u>

SCHEDULE NO:6PREPAYMENTS

		Rs. Cts.
Insurance Corporation of Sri Lanka		756.50
Postmaster General (Franking Machine)		923.65
Postmaster General (Telephone)		<u>1,531.66</u>
		<u>3,211.81</u>

SCHEDULE NO: 7DEPOSITS

		Rs. Cts.
Felix Pereria & Son		100.00
Treasury Deposit (See contra in NSC Fund A/c)		15,000.00
Postmaster General. (Telephone)		430.00
Government Publications Bureau		<u>1,500.00</u>
		<u>17,030.00</u>

SCHEDULE NO: 8

PROFIT ON SALE OF FANS & VENETIAN BLINDS

Sale of Fans & Venetian Blinds		2,455.00
Add: Provision for depreciation to date		<u>301.63</u>
		2,756.63
Less: Cost of Fans	1,316.25	
Cost of Venetian Blinds	<u>515.00</u>	
		<u>1,831.25</u>
Profit on Sale of Fans & Venetian Blinds		<u><u>925.38</u></u>

SCHEDULE NO:9

ANALYSIS OF SUNDRY EXPENSES

			Rs. Cts.
Delivery Allowances	.. ..		280.00
Sundry Building Materials	.. ..		490.67
Consumables	.. ..		151.45
Contribution to Ministry Publications			600.00
Removal of Tar from H.S.C.Premises - Wages			1,200.00
Purchase of Materials for Driver	..		374.20
Membership Fees for Seminars	.. ..		687.50
Legal Fees re Bonds	.. ..		727.50
Miscellaneous items	.. ..		695.93
Postage	.. ..		10.90
Supplies for First Aid Box	.. ..		59.24
Miscellaneous repairs, wages & Maintenance of			
Building	.. ..		1,024.80
Bicycle Repairs	.. ..		104.85
Meals to Drivers & Watchers	.. ..		30.00
Tips to Porters & Airport Tax	.. ..		27.00
Laundry	.. ..		43.60
Telephone repairs	.. ..		74.50
Customs & other charges	.. ..		<u>13.70</u>
			<u><u>6,595.84</u></u>

SCHEDULE NO: 10

DEPRECIATION

				Rs. Cts.
Buildings	..	..	..	8,109.98
Office Equipment & Furniture	..	..	..	15,750.61
Motor Car	..	..	..	6,800.94
Bicycle	..	..	..	64.89
Sports Equipment	..	..	..	142.88
Accessories & Miscellaneous	..	..	..	<u>1,071.33</u>
				<u>32,948.63</u>

CERTIFICATE OF THE AUDITOR GENERAL

The accounts of the National Science Council for the year ended 31st December 1974 were audited under my direction in pursuance of Section 90 (1) of the Constitution of Sri Lanka read in conjunction with Section 13 (1) of the Finance Act, No. 38 of 1971.

My observations of these accounts which should be published in terms of Section 14 (2) (c) of the Finance Act No. 38 of 1971 are contained in my report of even date addressed to the Chairman of the Corporation/Board.

Auditor General

AUDIT OFFICE

COLOMBO 7

17th October 1975

C-18/NSC/74

Auditor General's Department,  
Torrington Square,  
Colombo 7.

17th October 1975

The Chairman,  
National Science Council of Sri Lanka

Audit Report on the Accounts of the National Science Council  
of Sri Lanka for the year ended December 31, 1974.

The Audit of the accounts of the National Science Council of Sri Lanka for the year ended December 31, 1974 was carried out under my direction in pursuance of section 90(1) of the Constitution of Sri Lanka and section 13(1) & 13(7)(a) of the Finance Act No. 38 of 1971.

My report in terms of Section 14(2)(c) of the Act appears in the paragraphs that follow:

2. Accounts

2.1 Opinion

I am of the opinion that the accounts presented have been satisfactorily prepared on the basis of generally accepted accounting principles applied on a basis consistent with that adopted in the previous year, subject to my comments in this report.

2.2 Financial Results

According to the accounts the excess of expenditure over income for the year ended December 31, 1974 amounted to Rs. 436,284 as against Rs. 325,180 for the year ended December 31, 1973.

The total special research expenditure channelled through the Council during the year under review amounted to Rs. 727,792 as against Rs. 32,416 for the year ended December 31, 1973.

A comparison of the income and expenditure of the Council and the special research expenditure channelled through the Council during the years 1973 and 1974 is shown below :

<u>Expenditure</u>	<u>Year to Dec.31</u> <u>1974</u>	<u>Year to Dec.31</u> <u>1973</u>
	Rs.	Rs.
Research Studentships	63,993	46,400
Other Council Expenditure	27,715	17,458
Staff emoluments	261,222	194,797
Office Administration	53,540	50,135
Depreciation	<u>32,949</u>	<u>16,867</u>
	439,419	325,657
<u>Less Income</u>		
Interest on loans	1,953	399
Profit on sale on fixtures	925	-
Other incomes	<u>257</u>	<u>78</u>
	<u>3,135</u>	<u>477</u>
	<u>436,284</u>	<u>325,180</u>

<u>Special Research Expenditure</u>	<u>Year to Dec.31</u> <u>1974</u>	<u>Year to Dec.31</u> <u>1973</u>
	Rs.	Rs.
Approved Projects	470,000	-
Man & the Biosphere Projects	56,084	30,856
Scientific Manpower Projects	261,708	-
Survey of Raw Material Projects	-	1,560
	<u>727,792</u>	<u>32,416</u>

2.3 Financial Structure

The financial structure of the Council as at December 31, 1974 and December 31, 1973 is shown below :

	<u>Dec. 31, 1974</u>	<u>Dec. 31, 1973</u>
	Rs.	Rs.
<u>Sources</u>		
Accumulated funds		
Bal. at Jan. 1	602,493	927,673
Add Drawings from		
Treasury	550,000	-
Add Treasury deposit	<u>15,000</u>	-
	1,167,493	927,673
Less Excess of expen- diture over income for the year	436,284	325,180
	731,209	602,493
Add Special Research Funds	<u>410,915</u>	<u>63,707</u>
	<u>1,142,124</u>	<u>666,200</u>
<u>Utilizations</u>		
Fixed assets (net book value)	351,024	324,519
Add current assets	873,960	364,021
Less current liabili- ties	<u>82,860</u>	<u>22,340</u>
	<u>791,100</u>	<u>341,681</u>
	1,142,124	666,200

2.4 Comments on Accounts

The following observations are made in regard to the computation and interpretation of the financial results and financial structure.

2.4.1 Goodwill on sale and exchange of Journal -  
Rs. 1912

This represented the excess of expenditure over income in respect of the production and sale of the Council Journal for the year under review.

This amount had been capitalised and shown in the Balance Sheet under fixed assets instead of treating it as a revenue expenditure item.

2.4.2 Profit on sale of fixtures - Rs. 925

Council had earned a profit of Rs. 925 by the sale of three electric fans and venician blinds bought for use but subsequently not required when the office was shifted to the new building at Maitland Place. This amount had been shown as an item of income for the year instead of crediting it to the accumulated fund of the Council.

2.4.3 Depreciation of Motor Car - Rs. 6809

Adequate provision for depreciation had not been made in respect of the Motor Vehicle the cost of which is Rs. 70,437.

2.4.4 Buildings - Rs. 72,990

This represented the capital expenditure on the Council building at Maitland Place which has not been vested in the Council by the Ministry of Industries and Scientific Affairs.

2.4.5 Stock of Journals - Rs. 20,336

This included Rs. 12,831 being the cost of 1691 copies of the 1973 issues of the Council Journal which remained unsold as at December 31, 1974.

Auditor General,

Copies: (1) Secretary / Ministry of Industries & Scientific Affairs,  
(2) Secretary / Ministry of Finance and Justice.