

# **F W C**

**NEWS LETTER**



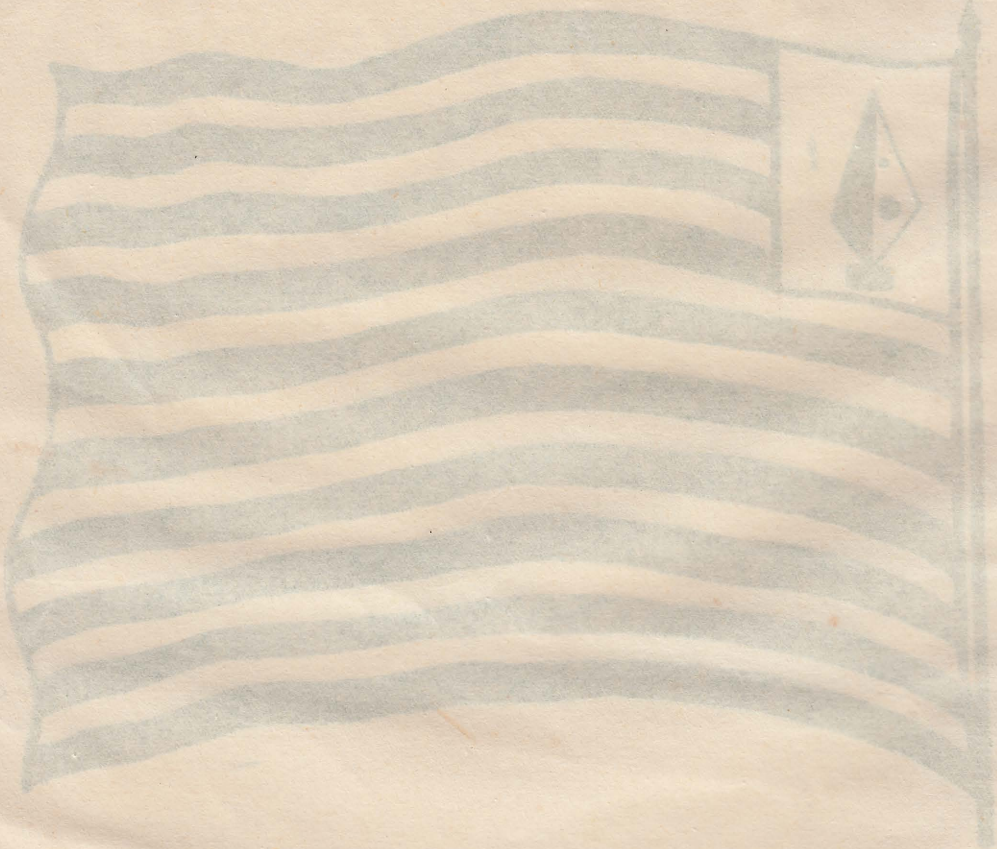
**1981**

**FIELD WORK CENTRE**  
**THONDAIMANARU (SRI LANKA)**



F W C

DEPT. OF...



FIELD WORK CENTRE  
THONDAMANARU (SRI LANKA)

1981

# FWC News Letter

Volume: XI

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- 1 Office Bearers
- 2 Energy and Man 3
- 3 Annual Report 5
- 4 Rural Schools Programme 10
- 5 Research Council Report 14
- 6 Science Field Studies  
in Horona 16

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# FWC - NEWS LETTER

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No. 1

## Energy and Man

Man's civilization started with the production of heat energy from the time of stone age. Even now the prime need of energy for Man, is in the form of heat for cooking food, the basic requirement for life. Secondly he used energy for lighting up the nights. Finally he harnessed the energy for Mechanical contrivances and this was the beginning of the era of great strides in the quality of life.

For all his energy requirements he has been using wood as the fuel for energy. This he continued to use for a long period for nearly 10,000 years. It was only since two centuries that the first transition in the use of fuel came when man started using natural coal as a substitute for wood on a large scale. This was also the time when man pushed ahead with the conversion of Energy for mechanical purposes. Within a space of one century came the second transition where petroleum pushed itself up, as a new and widely used source of energy that further improved the quality of life. Not even a century has come to an end we are in the threshold of a third transition looking for new sources other than coal and petroleum. But this does not mean that at the moment most of the world's population is

using petroleum or coal. It will be surprising to know that still nearly 2/3rd of the world's population depend on the "primitive source" of fuel namely wood. The rest depend on petroleum and it is only a fraction that harness primary sources like solar and nuclear energy.

### Sources of energy

If one uses a biological concept, the primary source of energy is sun and atom. Then there is the forest, wind, tides, waves, geothermal and hydropower that provides energy. These could be considered as the first level source, where these obtain their energy from the sun and transfer it when harnessed in the proper way. There are other sources like biomass, petroleum and coal where the energy from sun has passed through the first level and is in second level. Of all these, the one that is available in a non-polluted state and second level are not available in plenty and creates pollution hazards. Unfortunately man has been using mainly third level source of energy.

### Renewable source and Recycling

The renewable resource if they could be obtained cheap is one that could be used in Sri Lanka, forest and hydropower are two such sources. But forest needs re-

generation at a rate it is being destroyed. Further it also needs efficient management where only certain parts are to be used as fuel and other parts to be used as timber and food. Similarly hydropower needs water, sun, energy and forest. Recycling of biomass is another source that is commonly used in an agricultural country. Some of the common materials that can be used are paddy husk, saw dust, weed charcoal, coconut shell charcoal, palmyrah shell charcoal, cow dung, animal and vegetable waste etc.

### **SRI LANKA**

In Sri Lanka there is plenty of Solar energy throughout the country. Wind is also available in greater part of the country.

Sri Lanka being an island can tap ocean waves. Thermal gradient of oceans is another source that can be used. Though nuclear power is initially costly we have the fuel in the form of monozite which contain Uranium and Thorium.

Bio gas is another cheap venture in an agricultural country where materials such as sugar cane waste, cow dung, animal and vegetable remains are found.

### **Economic use of Energy**

While one strives to find alternate ways of obtaining energy we might also

re-examine our attitudes towards economising existing energy. Some of the lines in which one need to think are the following:

- 1) Use of florescent lamps and other energy saving devices in lighting.
- 2) Re-examine the traditional ways of cooking such as cooking substances that take a long time to boil. Using the same vessel to cook, curries, one after another so that heat required to heat different vessels can be saved. There is also an idea of cooking in more than one vessel at the same time when one wants to cook 3 or 4 curries.
- 3) Using materials that are cheaply available at different places instead of transporting them to all parts is another way of saving energy. For example coconut shell in coconut belt area, palmyrah shell in North of Sri Lanka.
- 4) Designing buildings that cut off heat by radiation is a new way to avoid using air conditioning and there by saving energy for air conditioning big buildings.

*(Introductory Note to our latest Bulletin:*

**Alternate ways of obtaining Energy & Recycling of Natural Resources - 1980)**

## Annual Report for the Year - 1980

It is with great pleasure that we are submitting this report about the activities of the Centre for the year 1980. The year under review was a very successful one in several aspects. The programmes organised by the Centre in order to achieve its multifaried objectives were very successfully conducted and commended well by the recipients of these programmes. Also the year under review was a happy one for many associated with the Centre, as many of them earned laurels and recognition in their walks of life.

The Centre was a hive of activities, with the various programmes conducted by the Research Council, Examination Council and the Junior Club of the FWC in addition to the continuous Rural Schools programmes and the A/L Schools programmes and normal residential camps for students and student leaders on themes of current Community and National interests.

A brief summary of the activities of the various programmes and the administration of the Centre is given below.

### Administration

The administration of the Centre as usual was conducted by the Executive Committee under the guidance of the Patron, the Director of Education, Jaffna. During the period under review Messrs T. Manickavasagar and K. Sivanathan have functioned as the Patrons of the Centre.

During the course of this year the Committee met fifteen times to plan out

the programmes of the Centre and to execute them effectively. The Committee meeting, were well attended and all the members of the executive committee had rendered valuable service in running the Centre and its programmes very successfully. The executive committee was well assisted by the two directors of studies and the supporting staff attached to the Centre.

### Residential Camps

Five residential camps on out-of-school activities on themes of academic interest and contemporary value were conducted this year. The themes for these Camps were -

- 1) Museum Techniques in Zoology  
- 33 teachers
- 2) Utilization of Palmyrah fruits  
- 27 students, 5 teachers & 7 officers.
- 3) Alternate ways of obtaining energy and recycling of waste.  
- 30 students, 10 teachers.
- 4) Herbarium Techniques & Ecological methods.

The above camps were financed by the Ministry of Education through Research grants. Two camps on herbarium techniques were held, one in collaboration with the Field Centre, Horana & the other in collaboration with the Field Centre, Kegalle.

### Seminars / Work shops

Several Seminars for teachers of Botany, Zoology, Physics and Mathematics in G. C. E. A/L classes were

organised at this Centre with the Support from the Curriculum Development Centre and the Department of Education, Jaffna.

The facilities and resources available at the Centre were used by the Science Inservice advisers to conduct field study programmes for teachers of Science in Grades 6 to 10.

#### Other Functions

The Centre hosted a batch of about 500 students from Kegale District who visited the Jaffna District as a part of the programme of exchange of youth organised by the Ministry of Education.

The Centre also received the Deputy Minister of Education, The District Minister, Jaffna and other members of this team at the Centre and provided a first hand information about the Centre and also submitted a memorandum listing the urgent needs of the Centre.

#### Rural Schools Programme

This programme has grown more popular than in previous years and to drawing in a larger number of Rural School children to the Centre for this programme. 2442 students & 154 teachers from 52 schools have participated in this programme.

#### A/L Schools Programme

This was also a very popular programme among the students and a large number of A/L students had participated in this Programme. Mr K. Sivapathasundaram as one of the Director of studies was in charge of the programme early this year. But with the promotion of Mr. K. Sivapathasundaram as performing Principal of J/Vigneswara College, the Centre was without the services

of an officer experienced in the A/L programme for some time. But with the appointment of Mr. K. Shanmugaratnam as Director of studies to fill Mr. K. Sivapathasundaram's vacancy. This programme has been organised and it is hoped that this programme will be conducted well again.

#### The Research Council

The Research Council headed by Dr. K. Chitravadeivel has been continuing the aquaculture programme in the Thondaimanaru lagoon and the students research projects. Further two other members have been conducting Research programmes as Social problems facing students.

#### Publications

The editorial board with Mr. P. Nadarajah as the Editor in Charge has published one News Letter and a Camp report sending them free to all members and other institutions connected with FWC. But due to increased costs in printing & newsprint, the Centre is finding it difficult to finance this project. It is hoped to obtain special funds to undertake the regular publication of the Newsletters.

#### Library

The library has been well used by the Clientele. New books have been added to the Library. The library has become congested with the increase in the collection of library books. For the better use and also for stocking of books a spacious library block is urgently needed at the Centre.

#### Examination Council

The Examination Council with the patronage of the Department of Education Jaffna was providing evaluation materials for the conduct of regional common



examination in science subjects for G. C. E. A/L classes and Grades 6 - 10. These evaluation materials were used by all the schools in Jaffna District. In addition a large number of Tamil medium out station schools from the Districts of Colombo, Batticaloa, Kandy, Mannar, Vavuniya, Kalmunai, Trincomalee and Anuradhapura obtained the evaluation materials for the Regional Common Examinations for the G. C. E. A/L Classes. As this evaluation materials are based on the common schemes of work prepared by the Field Work Centre, the outstation schools are also making use of this schemes of work from the Field Work Centre. About 27 outstation schools along with the 34 Jaffna District Schools, are participating in the Common Exam. programmes for A/L classes arranged by the Centre. This programme has helped to maintain high standards of attainment among the students and high levels of teaching of these subjects in the school.

Due to constant requests from schools to extend this common examination programmes to A/L Arts and Commerce courses also, the Centre has arranged similar common examinations for advanced level Arts and Commerce courses also for the forthcoming common examination in March. As the Common Examination programme requires a common scheme of work among the participating schools, the Centre proposes to draw up common schemes of work for the schools in Arts and Commerce subjects as was done for Science Subjects during the current year.

#### Junior Club

Science Clubs from 22 schools are affiliated to the Junior Club. Two representatives for each school had met at

their General Meeting and elected the Ex-Co. for conduct of their programmes under the guidance of Miss T. Thillai-ampalam, the convenor of the Junior Club.

The following programmes were conducted:

Essay Contest on Science Topics.

Science Quiz.

Debate on uses of Agro-Chemicals.

Camp on utilization of Palmyrah Fruit.

#### Employees of the Centre

We have three employees i.e. the watcher, labourer and the relief watcher paid out of the funds of the Centre and a part time laboratory attendant is released by the Education Department from a school to work for two days per week, at the Centre.

As the employment of the three employees on the Centres funds had been causing a severe strain on the Centre's funds. With the approval of D. E. Jaffna we have deposited Rs. 40,000/- with the National Savings Bank on fixed deposit to obtain a monthly interest to meet at least a part of the salary of these minor employees. It is proposed to increase this deposit to at least 100,000/- in the coming years, so that a regular monthly income is obtained to pay the three minor employees and also to meet recurrent expenses like electricity Bills etc. at the Centre.

#### Expansion programme of the Centre

With the expansion of the activities of the Centre, there is an urgent need for the expansion of premises as well as the building facilities at the Centre. The proposed expansion of the aquaculture

programme to be financed from the District Centralised budget and building expansion programmes need additional land space. Steps are being taken to obtain an additional half an acre of land adjoining the present premises. A request for lease of this land is to be sent to the District Minister, Jaffna.

The Centre needs a research laboratory unit and a spacious library block urgently. Already the Hon. Leader of the opposition has promised to the Ex-co. that steps will be taken to release funds for the putting of the library block. Steps will have to be taken to renew the request to the Hon. Leader of the opposition to make available the assistance promised by him.

#### Felicitation

We congratulate the following :

- 1) Mr. T. Manickavasagar our former Patron on his promotion to SLES Class I.
- 2) Mr. M. Ranaweerwa our adviser on his promotion to SLES Class I.
- 3) Mr. K. Sivanathan our Patron on his promotion to SLES Class II
- 4) Mr. W. S. Perera our adviser on his promotion to SLES II.
- 5) Dr. K. Chitravadivelu on his selection as Lecturer in Zoology, University of Jaffna.
- 6) Mr. K. Sivapathasundram on his appointment as performing Principal of J/Vigneswara College.
- 7) Mr. S. Sathiyamoorthy on his appointment as Education Officer in Zambia.
- 8) Messrs M Atputhanathan & K. Ratnasabapathypillai their appointments Education Officers at Seychells.

#### Condolensus

We record with deep sorry on the death of Dr. Marjan Zagar, ICC president at Yugoslavia after a prolonged illness. We convey our condolences to the breaved family.

#### Thanks

We Sincerely thank the following for their advice and assistance towards the running of the Centre last year.

- 1) The Hon. Leader of the opposition for attending the last AGM as Chief Guest, for his valuable advice and his promise to help to put up the library block and to obtain a vehicle for the Centre.
- 2) The District Minister, Jaffna for his two visits to the Centre and obtaining first hand information regarding the Centre and for the proposed aid from the Decentralised budget for the aqua culture programme conducted by the Centre
- 3) The Deputy Minister of Education, for his visit to the Centre, when he visited Jaffna and for his sympathetic hearing to the memorandum submitted on behalf of the Centre and to his promise to help the Centre in the furtherances of its programme.
- 4) Mr. T. Manickavasagar, Range Director, Ministry of Education and our former Patron and Mr. K. Sivanathan, Director of Education, Jaffna, and present Patron for their interest in the Centre and the Guidance towards the successful running of the Centre
- 5) Mr. M. Ranaveera D/E. CDC, Mr W. S. Perera, D/E, Educational Planning Prof. V. K Ganeshalingam

Mr. S. B. Arumainayagam our adviser for their valuable expert advice to the Ex-co. whenever they are approached.

- 6) Prof. K. D. Arudpiragasam & Prof. S. Balasubramaniam, Prof. S. Theiventhirarajah and Mr. S. Kulasegaram Resident Engineer Water Resource Board and the staff members of the Zoology Dept. of Jaffna University for their

Guidance in the academic programmes conducted at the Centre.

- 7) Mr. V. V. Ramasamipillai for providing uninterrupted drinking water supply to the Centre from his mill.
- 8) To all members of the Ex-co. for their unstinted support to us for the successful administration of the Centre.

Thank you.

K. Ponnampalam  
N. Ganesapillai  
*Joint Secretaries*

## In Memorium

### *Prof. Dr. Marjan Zagar*

We record with great sorrow the painful news of the passing away of Prof. Dr. Marjan Zagar on December 11th 1980 after a long illness at the time of his death. Late Prof. Dr. Marjan Zagar was the President of the I. C. C., the institution to which the Field Work Centre, Thondaimannaru is affiliated to with the mutual interest of presenting out of school scientific activities.

Prof. Marjan Zagar's death is a great loss to international science education in general and out of school activities in particular the world over.

We the members of the Field Work Centre, Thondaimannaru join the ICG and the affiliated institutions in expressing our profound sorrow.

# Rural Schools Programme

**N. Ganesapillai,**

*Director of Studies,*

*O. I. C. Rural Schools Programme*

## Introduction

With the expansion for facilities for Science Education as Science Education have been made an essential component of general education at junior secondary level, teaching of science was extended to a number of rural schools that did not have facilities like laboratory, science room, laboratory furniture, equipment and chemicals for teaching Science. At the beginning science kits containing a few pieces of basic equipment were supplied to these schools and later supplemented with additional equipment and chemicals. Also a few schools were provided with science rooms and furniture. Yet many of the rural schools did not have all the facilities for teaching Science very effectively. Further many of the uncertificated Science / Mathematics teachers did not have the necessary confidence to handle equipment and do planned practical work for their science teaching. Hence the Field Work Centre launched on a Rural Schools Programme two years ago to supplement the faci-

lities for practical work in learning science and also to provide the necessary training and confidence among the science teachers teaching science in these rural schools.

## How the Programme works

The Schools had been informed about the facilities available at the Centre for supplementing their science teaching in their schools and were requested to book the Centre for a day or more to enable the students to visit the Centre along with their Science Teacher and work under the guidance of the Director of Studies (Rural School Programme) and supplement the Science learning.

According to the availability of the Centre for this programme dates are assigned to each schools applying to join this programme. Such schools visit the Centre on the date assigned but these dates are changed if requested by the school. Normally a group of 40 Students and two teachers will visit the Centre on the date assigned to them.

As soon as the party arrives at the Centre they are briefed about the basic facilities available in the Centre and the programme in general. With the help of the Science Teacher students are grouped preferably according to their grades comprising 4-5 in each group. Each group will be allowed to elect their own leader who will be responsible for the general conduct and discipline of the group. With the consultation of the Science Teacher each group will be given a suitable assignment in the form a **WORK CARD**. The leader will collect the necessary apparatus from the laboratory assistant and initiate the other members to work on the assignment. The science Teacher of the school and the staff of the Centre will give their assistance to each group wherever necessary.

Once the project is completed, the work cards are interchanged among groups or new cards are given to them. Students will record their findings in their own notebook but they will submit a composite report covering all the completed projects. A group will complete at least 3 or 4 projects in a day. During the off time preferably after lunch students

are exposed to new literature in Science at the Library. Science teachers are also allowed to refer these books in the Library. The Science Teacher select the apparatus that are not available in his/her school and the students will be given an opportunity to understand the working of such apparatus.

### Work Cards

25 work cards were prepared in some selected units of the new 6-10 science syllabus. These cards are designed and rewritten in such a way so that the students will engage themselves in the activity without much help from the teacher. Use of improvised apparatus are included in this project wherever possible.

During the course of 1980, 2442 students and 154 teachers have visited the Centre and participated in this programme. These children and teachers have come from 62 Rural Schools and the total number of days of visit by schools to the Centre is 62. There were applications from 104 schools to participate in this Rural School Programme but due to non availability of the Field Work Centre for this programme due to various other programmes being

also conducted at the Centre we were able to cater to only 52 schools.

It is hoped to cater to more schools in the current year with preference given to schools that were not provided with a chance to participate in this programme.

### Evaluation

An evaluation of the Rural Schools Programme was done by Director of Studies by visiting the schools that had participated in this programme through written tests, interviews, observation of students at work and also through questionnaires answered by teachers teaching Science in Rural Schools. Also the facilities available in these schools for teaching science were assessed.

### Summary of the data collected:-

1. Assessment of the Programme by schools

3. Improvised apparatus that are used for this programme are not available in many schools. The following table shows their availability:-

Name of items	available in No. of sch. out of 14	%
1. Wheel and axle improvised working model	00	nil
2. Hares apparatus improvised	00	nil
3. Motor improvised working model	2	14.2

14 schools were visited for this purpose:-

9 out of 14 schools stated that this programme is Very Good.

5 out of 14 Schools stated Good.

No one stated fair or bad.

2. Laboratory facilities in these schools  
In 7 schools out of 14 Laboratory is available

In 4 schools out of 14 Science Room is available

In 3 schools no laboratory or Science room is available.

Furniture facilities in these schools:-  
In 6 out of 14 schools furniture for students activity is not available

In 2 out of 14 schools only electricity is available.

Water supply is available only in 1 (one) school.

Gas supply or gas cylinder is not available in any school.

4. Height measuring instrument improvised 2 14.2

5. Improvised Stethoscope 4 28.5

4. Availability of chemicals necessary for this programme - random selection

Sulphur available in 7 schools out of 14

Dil  $H_2SO_4$  ,, 3 ..

$KMnO_4$  ,, 5 ..

$CuSO_4$  ,, 7 ..

**Conclusion**

The programme is very popular among the teachers and students and also has helped in the improvement of science learning and teaching. Hence there is an increased demand for this programme by more schools, this demand could only be met if additional personnel could be made available

at the Centre for the conduct of this programme, so that more than one school could be accommodated at the Centre on one day and their needs effectively attended to. Hence at least if one more Science Teacher is seconded for service at this Centre the demand from schools could be met with.

# Report of the Research Council

Dr. K. Chitravadivel

The student research grant scheme, aimed to foster research through out-of-school activities among students with aptitude for research was inaugurated with donations from :

1. Mr. K. Sivapathasundaram
2. Mr. I. Sankar and
3. Mr. K. Anandakumar

Mr. Logan Kanagaratnam of St. John's College, Jaffna, Miss Lilamani Benjamin of Chundukuli Girl's College, Jaffna and Miss Kalaivani Kumarasamy of Udupiddy Girl's College, Udupiddy were the first batch of Research Grantees. The research grant came into force on the first of June, 1980 and is tenable for 12 months. The research grantees are working under the supervision of Mr. M. Atpathanathan, Mr. K. Ratnasabapathipillai and Dr. K. Chitravadivelu. The grantees have been working on the following problems:

1. Mr Logan Kanagaratnam -  
"Preliminary observation on the effect of dumping wastes from the Jaffna Municipal area on the shore near Pannai."
2. Miss Lilamani Benjamin -  
"Some preliminary observations on the pollution at Pullukulam at Jaffna,"

3. Miss Kalaivani Kumarasamy -  
"Is couchal is on the disappearing list?" - a preliminary study.

The Research Council met on the 12th of October, 1980 at FWC along with the research grantees to assess their progress and sort out their problems. Grantees had the opportunity to work in the Laboratory of the Water Resources Board Jaffna, Pollution Laboratory of the Dept. of Labour, Colombo, the Department of Botany and the Dept. of Zoology of the University Jaffna, Wild life Junior Association of Bird Colombo. The Research Council is confident that experience of working in these laboratories under the direction of their supervisors with the guidance of specialists would give the grantees the basic training in research. Reports have been prepared by the grantees for presentation at the AGM of FWC on 15-02-1981.

Culturing of milk-fish (Chanos chonos) started on the 23rd of June 1980 in the pond at Thondaimanaru M. V. with fry supplied by the Ministry of Fisheries is still in progress. This is the first time that milk fish culturing in fresh water in cement ponds being tried out in Sri Lanka. Preliminary



observations have indicated that milk fish culturing in such pond is economically and technically viable.

Research Council is rendering its assistance in the fry survey of the Jaffna and Thondaimanaru lagoons and in the feasibility study of culturing prawns in floating cages. This research has been undertaken by Prof. K. D. Arudpragasam of the University of Colombo in collaboration with Dr K. Chitradavivelu and the research is being financed by the International Science Foundation of Sweden.

The Research Council is greatly handicapped by the lack of members willing to participate and assist in research. With the exodus of two of its active members Mr. M. Atputhanathan and Mr. K. Ratnasabapathipillai to Seychelles this problem is anticipated to the very acute. We request the Ex-co. to take suitable steps in the current year to enlist the support of our members to participate actively in research and support the Research Council.

With the nature of the research that we have been called upon to shoulder it have now become necessary to set up a research laboratory. We request the Ex-co. to initiate a Research Laboratory Fund take and suitable steps to set up one within the next two years.

Mr. M. Atputhanathan is working on the pattern of adolescent growth

among the Tamil youth with financial aid from Curriculum Development Centre, Colombo. Mr. Roy Kaatharaj is investigating on the Needs & Aspirations of the A/L School leavers with support from FWC.

**Our sincere thanks for support, assistance & Co-operation are due to:**

1. Mr. S. Gunasekaram, Resident Engineer and his staff of the Water Resources Board, Jaffna.

2. Dr. M. Ponnampalam and his staff of the Pollution Laboratory, Dept. of Labour, Colombo.

3. Prof. V. K. Ganeshalingam & his staff of the Dept. of Zoology, University of Jaffna.

4. Prof. K. Theivendrarajah and his staff of the Dept. of Botany, University of Jaffna, Jaffna.

5. Principal and Staff of Thondaimanaru M. V. Thondaimanaru.

6. The Ministry of Fisheries, Colombo.

7. Principal and Staff of St. John's College, Jaffna, Chundikuli Girls College, Jaffna and Girl's College, Uduppiddy,

8. Mr. K. Sivapathasundaram, Mr. I. Sankar and Mr. K. Anandakumar.

# Science Field Studies

## In Horana Field Studies Centre

We live in a world of knowledge explosion. Today, most of the developments of Science, scientific skills and attitudes cannot be transmitted to the younger generation merely by the contents of a school science curriculum. The pupils of today have to be aware of what scientists, science educationists, specialists etc. do in order for them to be in a fitting condition to the modern society. A Field Studies Centre is an appropriate institution which would promote these ideas in pupils.

After participating in several work camps at the Field Work Centre, Thondaimanaru, Jaffna and by the experience gained thereby in working with scientists and specialists along with teachers and pupils we were inspired to organise a similar institution at Horana too. We have thought of selecting the area along Kaluganga for our studies as there are a large number of fields for scientific investigation in this area, such as flora and fauna, perennial floods, methods adopted for soil and forest conservation & environmental pollution.

When we were seriously thinking of pursuing this idea, the five year educational development programme for Kalutara region (1979-1983) was proposed and it was found convenient to incorporate the contemplated Science Field Studies Centre for the development of science education within the same programme. It is with deep appreciation that we mention the corporation extended by Mr. H. K. Rupasinghe, D.E, Kalutara, in the pursuit of this idea.

Field Studies in Kaluganga were started with a preliminary investigation along the banks of Kaluganga, in which Mr. W. S. Perera, Director of Education, Education Research and Planning division of the Ministry of Education too participated. We have put forward a part of the flora studies we are doing along Kaluganga bank in a bulletin. We hope to print this paper with necessary amendments with the help of National Science Council of Sri Lanka.

*(Introductory note to : Science Field Studies-I  
Published by Field Studies Centre, Horana)*



## Programme of Work - 1981

### Continuous Programmes

1. Rural Schools Programme
2. G.C.E. A/L Schools Programme

### Special Programmes

- JANUARY : Work shop to draw up plans of work - Science & Maths - G.C.E. A/L
- FEBRUARY : Evaluation Seminar for A/L Teachers of Science & Maths
- Evaluation Seminar for Science teachers - G.C.E. - 10
- MARCH : In-service Training for G.C.E. A/L Teachers
- Annual General Meeting of Youth Club
- APRIL : In-service Training Camp for G.C.E. A/L Teachers
- Camp organized by University of Kelaniya & Sri Lanka Foundation Institute
- MAY : Youth Camp : Post & Pre-Examination
- Evaluation Seminar for G.C.E. A/L Science & Maths Teachers
- Evaluation Seminar for A/L Teachers
- JUNE : Science Fair
- Training Camp for Laboratory Assistants
- JULY : Work shop for A/L Science Teachers
- AUGUST : Practical Exam. in Science for G.C.E. - 10
- G.C.E. A/L Common Exam (New Syllabus)
- SEPTEMBER : National Youth Camp on Energy
- In-service Training to A/L Science Teachers
- OCTOBER : National Camp for Student Leaders
- Evaluation Seminar for Science & Maths Teachers
- NOVEMBER : Common Exam. for Grade 11 (New Syllabus)



**FIELD WORK CENTRE**  
THONDAIMANARU, SRI LANKA.

**Programme of Work - 1981**

**Continuous Programmes**

1. Rural Schools Programme
2. G. C. E. A/L Schools Programme

**Special Programmes**

- JANUARY** : Work shop to draw schemes of Work - Science & Maths. - Gr. 8.
- FEBRUARY** : Evaluation Seminar for A/L Teachers of Science & Maths.  
Evaluation Seminar for Science teachers - Gr. 6 - 10.
- MARCH** : In-service Training for G. C. E. A/L Teachers.  
Annual General Meeting of Youth Club.
- APRIL** : In-service Training Camp for G. C. E. A/L Teachers.  
Camp organised by University of Jaffna & Sri Lanka  
Foundation Institute.
- MAY** : Youth Camp : Pest & Pest Control  
Evaluation Seminar for G. C. E. A/L Science & Maths. Teachers  
Evaluation Seminar for A/L Teachers.
- JUNE** : Science Fair.  
Training Camp. for Laboratory Attendants.
- JULY** : Work shop for A/L Science Teachers.
- AUGUST** : Practical Exam. in Science for Gr. 6 - 10.  
G. C. E. A/L Common Exam (New Syllabus)
- SEPTEMBER:** National Youth Camp on Energy.  
In-Service Training to A/L Science Teachers.
- OCTOBER** : National Camp for Student Leaders.  
Evaluation Seminar for Science & Maths. Teachers.
- NOVEMBER** : Common Exam. for Grade 11 (New Syllabus)