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1. Science clubs may be general or specific. Among younger members ⁽⁹⁻¹⁵⁾ on a variety the interests are ~~varied~~ of science fields. These boys and girls are curious about everything. Therefore they usually choose to have a General Science Club in which they may study any or all fields of science.

Members past the age of 14 or 15 have usually settled on a few fields of specific interest. They want to have a Microscopy, Radio, Photography, or Aeronautics Club, etc.

Find out first of all what the members of your club want to do. Start there. Never discourage them in any project because it seems simple to you. Remember they cannot want to do certain things ^{until} ~~unless~~ they have been introduced to them. Thus a club may begin in one field and have progressed into an entirely different field within a few months as the knowledge of the members grows.

2. The first requisite for any member should be, "Is he interested in science?" If so, there should be room for him in ^a the club. If not, he is hardly science club material. It is well to be careful from the very beginning

It is desirable to have members fairly near the same age. as they are likely to be able to progress at the same rate of speed. This obviously is not always true. There is much benefit from having different levels of advancement in a club. Those not so advanced learn more rapidly from those more expert than if they had to ferret out all information for themselves.

3. A club seeking a sponsor should consider science teachers in schools, colleges, universities; members of the staff of science museums; scoutmasters; citizens with science training; professional or amateur scientists; research workers; parents - especially those in scientific trades or professions; or members of other clubs who are sufficiently advanced to serve as sponsors.

4. A good science club sponsor is a highly skilled leader. Sponsors must first of all know their science,

The desire to respect and admire a leader is strong among in teen age youth. It is destroyed by incompetence

5 11 9
or by bluffing.

A good sponsor is willing to realize that there may be members in the club who are better informed on one or several subjects than he.~~is~~ This is to be expected in these ~~days~~ times when science moves fast and youth begins to specialize very early. But lack of knowledge is not a crime. A ~~sp~~ponsor is wiser to admit ignorance and acquire the missing information than pretend to know and be caught short by a well-informed member.

Good health and an abundant sense of humour are desirable in a sponsor and do much to keep the club running smoothly.

Every member will work harder and keep his enthusiasm longer if the sponsor takes a personal interest in each but retains impartial judgment toward all. A word of appreciation when work is well done will spur members on to accomplish more than if an attempt is made to boss and push them.

Remember the sponsor sets the pace of the club.

If your decisions are rapid and full of common sense; if your part of the responsibility is carried out to the letter and promptly; if you are always ready to listen and learn something new; you will find your members following the same methods.

Since science clubs are ^{almost} always on a voluntary basis you must accomplish with good sense, good humour, enthusiasm and friendliness what persons with less leadership might do with ^{strict} ~~direct~~ discipline. A science club that "clicks" is a tremendously satisfying experience for all concerned. A successful sponsor learns the thrill of directing youth willing to work for the joy of working.

5. The Name of the Club. The name should be selected by the sponsor and the members. (High school) or (College) Science Club.

6. Simple rules and regulations for the work of the club should be prepared and observed by all concerned.

7. Your Club can learn the science in your city. Do you know where the water is obtained; how it is purified and

4 12/10
dispensed to homes? How does your city fight fire by water, by chemicals? What arrangement is there for the disposal of garbage in your city? How does your city control rats, mosquitoes? What are the industries in your city? How much science is there to the production of the main products from your city? How far do raw materials come to supply your city with food, homes, factory materials? How far are products shipped from your city and how? Visit the telephone exchange the fire department, the bakery, the ice plant, the city water works, the sewage disposal plant. Learn how much every phase of the functioning of your city is tied up with science. You will be amazed; you will learn a lot of science and you will get some respect and cooperation from those who make your city "work".

Learn similar things about your town or village also.

8. Plan Club Excursions - Several times during the year you should plan to take field trips. Plan to see the laboratories in a nearby college or university, arrange a guided tour through a big industry near you, see research laboratories. Go to a doctor's office instead of asking him to your meeting. All his equipment will be at hand and he will teach you a lot more in an evening than if he tries to tell it all to you. Arrange a visit to your local police station for a talk on crime and accident prevention. Go to a broadcasting studio and arrange to have the engineer show you what goes on behind the scenes. No matter how small the city there are places of scientific interest for several club excursions. Be sure to make your arrangements well in advance and do not waste the time of those who are visiting.

9. Get Acquainted with the facilities for Science in Your Community. Have you been completely through the local museums? Are your club members informed on how many things one can find in the school and public library? Do you keep posted the free courses being given in your city, the lectures, the movies on scientific subjects? Have you visited the libraries in the colleges and universities near you? Do you make use of the loan collections, the films, etc., they

close
use

(X)

E P H (1948) Department.

MS SERIES.

G.O. NO. 2128 E d n

Dated 30.8.48.

O. for R.S.
1/24-25/8 }
1/31-32/8 }
1/33-34/8 }

[Despatch Abstract.]

Schools and colleges - Organisation
of Science clubs of America - Orders
Passed.

5/13/11
offer free? Plan to have the club go as a group when there is a scientific lecture, movie, or demonstration anywhere near you.

10. Arrange Talks, Discussions, Lectures. All your club members will want to explain their own work to the club. Each member should have an assigned time when he will appear before the club and tell and demonstrate his scientific interest. If several are doing the same thing a whole meeting could be devoted to that subject and the round table method would be an easy method for presentation. Be sure to always allow time for questions and discussion from the club audience after a speaker finishes.

You will want to ask local authorities to visit your club and speak about their work. Ask the local printer to tell you how newspapers depend upon science for the production and printing of the newspaper. Invite the airport officials to come up for a discussion of local air and flying conditions. Ask a dentist, a doctor, a power engineer. Every city is filled with people whose work is partly or wholly scientific. Ask them to tell your club about it. Many times they would prefer to have your club visit their place of business to see as the speaker tells you of his work. Even those who are not accustomed to speaking will be glad to tell you what they do and answer your questions. Be sure to invite all visiting alumni of your club to speak;

11. Schedule Short Courses. If a number of members of your club want to learn more about a certain subject, why not plan a short course? Agencies like the Red Cross, will give first aid, home nursing, civilian protection courses, etc. free of charge. Arrange short courses with colleges, universities, museums, industry, on subjects they can give. Institutions of higher learning are interested in getting acquainted with your better students and these short courses are a means to that end. One member in a club more advanced can instruct the others.

11. Reserve Sound and Silent Films.

12. Keep up With Current Events.

- 6/14/12
13. Review New Science Books.
 14. Study Science Biographies.
 15. Encourage Individual Projects.
 16. Choose Continuing Club Projects.
 17. Make Arrangements To Meet Other Science Clubs in Your Area.
 18. Let the Public Know What Your Club Is Doing.
 19. Find Ways to Earn Club Funds.
 20. Have Good Times.
 21. Send In Science News.

This Note on "Science Clubs of Madras Province" is prepared on the lines of Science Clubs of America: How to organize and activate Your Science Club. There are many things we can learn from Science Clubs of America. I wish to express my thanks to Science Clubs of America. I wish to express my thanks to the Ministers of Education of the Provinces and States who have helped this work.

I make an appeal to the teachers to take interest in science clubs.

Who will fire the minds of the scientists of the future? You....you and your fellow teachers.

How will you do it? Pounding knowledge into unwilling young heads is tough going.

Letting them find the way to vivid interests in science activity lightens your teaching load, makes class work more satisfying for you and your pupils at the same time.

This is how: Encourage the formation of a science club of your own in your School and College.

I have requested the Hon. Minister for Education, Madras Province, to encourage the formation of Science Clubs of Madras Province." I hope this Note will serve a good cause.

I may end this Note with three quotations :

"The world is my country and to do good is my religion." Thomas Paine.

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"The cost of geographical ignorance is immeasurable."

Holdich.

I have suggested that documentary films may be prepared of all parts of India for teaching geography, history, the importance of science in modern life, the manners and customs of the people of different parts of India and also the of the different countries. Geographical ignorance has been the cause of many wars and much unhappiness and trouble to the world. In our science clubs much importance will be given to the study of geography, geology and other allied subjects.

"The truth which men of vision of all ages have felt is that the human family is a unit. Yet the practical consummation of this fundamental truth is inevitably ^a slow and gradual process. The thought has been cradled in the past, as it will be fostered in the future, by individuals in every nation who insist on looking about them and whose interests are not confined to their own home or to their own country." ("Ten Years in Japan" by Joseph C. Grew).

Ambassador Joseph C. Grew has suggested that there should be a Faculty for International Political Health. Just as medical men ^{and women} can detect the signs of cancer or any other disease so properly trained men and women can detect what are the danger signs in different parts of the world. Such information if collected in time and brought to the notice of the Faculty of International Political health would save the world from untold suffering. The cause or causes of the trouble would be diagnosed properly and the required remedies found at once. It is for this reason that Indians should encourage science clubs in the schools and colleges. From the very young age boys and girls will be interested in nature study and all the wonders of science. It is possible to give a list of 1,000 Science Projects. I will mention only a few main branches of science and request the teachers and members of the science clubs to fill in all gaps.

1000 Projects For Science Clubsof Madras Province

Agriculture

Seeds of Food-Producing Plants
Why certain parts of India lead in Tomato production
Relative values of Soils and Fertilizers on Plants
Products from Plants and Animals
Grains of India
Elements needed in the raising of Peas and Corn
Germination of Bean Seed
The Biology of Tomato Plant
Study of Wheat
Uses of Soybeans
Products from a Coconut
Milk and Milk Products
Cotton and its By-Products
Honey
Soil Chemistry and Management
Chemistry of Agriculture

Botany

Dendrology and Arboriculture

Reasons for the Conservation of Trees
Leaves of Common Trees
Twig Exhibit
Work of the Tree
Diagram of a Cross Section of a Woody Stem
Deciduous Trees
Climate shown by Tree Rings
A Chart of the Types of Buds and Branches
How Destruction of Trees may be prevented

Leaf Prints
Samples of various kinds of wood leaf, bark, and wood
display of our Native Trees
Fruit Tree Grafting

Herb Culture

Different Uses of Spices and Herbs and Their Origin
Geographically
Collection of Herbs
Poisonous Roots and Herbs of India
Indoor Herb Garden

Ferns

Life Histories of Ferns
Ferns and Aquatic Plants
The Ferns of India
Tree Ferns, Ancient and Modern

Horticulture

Rules of Landscape Gardening
Different Methods of Growing Plants
New Methods of Plant Culture
Modern Applications of Hydroponic
Elements Necessary for Plant Growth
Effects of Nutrients on Plant Growth
A Comparison of Bulbs Grown in Minerals Nutrient and in
Distilled Water
Effects of Different Colours of Light on Plants
Chemical Control of Plant Life
A Garden Club Programme
History of House Plants
Effects of Plant Hormones

8 17 / 15
BIOLOGY

Biological Principles

How To Test Seeds for Germination
Osmosis
Heat is Necessary for Life
Photosynthesis
Tropisms and How They Work on Animals and Plants
Climate and Life
The Plant and Animal Classifications
Different Methods of Plant Reproduction
How Plant Adapt Themselves to Diversity
Regeneration in Animals
Sex Organs of Plants
Germination of Pollen Grains

Bacteriology

Living Things do not Arise Spontaneously
Growth of Bacteria
Differential Stains and Why They Show
Culture and Identification of Bacteria
Bacteriological Techniques

Microbiology

Biological Displays, Exhibits, and Methods of Prevention

ZOOLOGY

Entomology

Vertebrates Fish, Reptiles, Birds, Mammals,
Vertebrates in General

HOME ECONOMICS

Homes, Food, Refrigeration

~~Public~~ PUBLIC SERVICES

TRANSPORTATION

Land Travel, Marine, Geology

CHEMISTRY

PHYSICS

ELECTRICITY

MECHANICS

PHOTOGRAPHY

AERONAUTICS

MEDICAL

Nutrition, Diseases and Their Treatment, Anatomy and
Physiology, Clinical Tests and Procedures, Drugs and
Medicines, Medical and Biochemical, Heredity and
Evolution,

ARCHAEOLOGY AND ANTHROPOLOGY

10 / 18 / 16

ASTRONOMY
PSYCHOLOGY
CRIME DETECTION
CONSERVATION
HOBBIES AND DEMONSTRATIONS

A list of more than 1000 Science Projects is given by Science Clubs of America. In the case of Agriculture I have given details. In all other cases I hope Indian teachers interested in the different sciences will make their own lists and send them to the Director of Public Instruction, Madras. The D.P.I. may publish a complete list later on.

Science Clubs of America select 40 high school students (boys and girls) who pass the Science Test. The students write essays on science subjects in which they are working and in which they wish to devote their life time. There are other tests by which the high school students of U.S.A. are examined. The lucky 40 who pass the tests receive scholarships worth \$400, \$200, \$100 when they go to College.

I hope Madras Government may be pleased to test high school students every year and give suitable scholarships to the 40 students (boys and girls) who pass the necessary tests and whose essays are considered the best from all the essays received from the high schools of Madras Province. In this way it will be possible to know who are the boys and girls, the future Faradays and Curies, the Scientists of Tomorrow. I have had this plan in my mind since 1920 when I was a student at Bonn on Rhine, Germany. The Science Clubs of America were organised in 1921. I hope the Science Clubs of Madras Province will be organised soon and they will do useful work. The example of Madras may be followed by other Provinces and States. 100,000 Scientists Behind Humanity may become an accomplished fact. "The wishes of youth are garnered in age". ("Poetry and Truth" by Goethe). This leads us to humane geopolitics: the study of geopolitics as a means to establish world peace.

Nirvan,

Baroda, 1 February 1947

G.M. Jadhav

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64/12/47

C no. 9859 B1/47.

Schools and Colleges. Organisation of Science Clubs.

Memo no. 9859-B1/47-1 Etn D 11/2/47

2/11/47
pp 9-18

A Copy of the note on how to organise the Science Clubs of Madras Province sent by Sri S.M. Jadhav, Baroda, is forwarded to the D.P.G. for information and guidance in continuation of Govt. Memo no. 360 B1/46-2 Etn dated 27.1.47. He is requested to ^{state} whether he considers it worth while ~~the author to print~~ ^{to print} ~~five copies of the note to S.M. Jadhav, circulate his note~~ if it is proposed to print the note is printed for communication to the managements of schools

7/6/47

Approved
6/2/47

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The D.P.G. (with copy 1882
of pp 9-18 of). 6/2/47

7.2.47
11.2.47

15/3/47

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SECRETARY TO GOVERNMENT
227 TO
23304
SECRETARY TO GOVERNMENT

EDUCATION DEPARTMENT.

DR. S.R.U. SAVOOR, M.A., D.Sc., I.E.S.,
DIRECTOR OF PUBLIC INSTRUCTION, MADRAS.

THE SECRETARY TO GOVERNMENT,
EDUCATION AND PUBLIC HEALTH DEPARTMENT.

R.C.No.208-E.3/47 dated 19th March 1947.

Sir,

SUB:- Schools and colleges - Organization of
science clubs of America:

REF:- Your Memo.No.9859-B.1/47 Education,
dated 11th February 1947.

I have addressed the science service 1719 - N. street,
N.W. Washington, requesting to furnish me literature necessary
for the organization of science clubs. I shall submit my reply
on receipt of the same.

for DIRECTOR OF PUBLIC INSTRUCTION.

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The DPJ's reply may be awaited
till 15/5/47.

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Edy JPH (B) Dept.
Schols and Colleges - Organisation of
Science Clubs.

Ref: Government Memo no. 9859 B1/47-1 E dn p19 ante
dated 11.2.47.

Memo no. 9859 B1/47-2 E dn 31/7/47.

The Director of Public Instruction, Madras,
is requested to state when his reply to the memo
cited above may be expected.

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31/7/47

28/8/47

✓ The D.P.I.

C.F. 32.

In reply, please quote
number, date and
short title.*



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ENCLOSURES _____

SPARE COPIES _____

22/08/19
EDUCATION DEPARTMENT.

Received _____ Registered _____

From (Name) DR. S.R.U. SAVOOR, M.A., D.Sc., I.E.S.,

(Designation) DIRECTOR OF PUBLIC INSTRUCTION,

Post Box _____, (STATION) MADRAS.

Telegraphic Address _____

To

The SECRETARY TO GOVERNMENT,
EDUCATION AND PUBLIC HEALTH DEPARTMENT.

RC. No. 208-E4/47, dated 10th December 1947.

Sir,

*SUB: ORGANISATION OF SCIENCE CLUBS OF AMERICA IN SCHOOLS
AND COLLEGE.

REF: Government Memo. No. 366-B1/47-2 Edn., dated 27.1.47 and
9859 B/47 dated 31.7.1947 etc. p 21 ante

I have the honour to request you to kindly furnish me
with a copy of the Correspondence on the subject as this office file
is not traceable.

for DIRECTOR OF PUBLIC INSTRUCTION.

Ram. 11/12.

Back Papers.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Further Papers.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

From G.M.Jadhav

Nirvan, Shivaji Road, Baroda,
December 17, 1946

Hon. Minister of Education,
Madras.

Dear Sir,

I am enclosing a copy of the Circular re: organisation of science clubs sent by the H.B.P., Allahabad, to the high schools, colleges etc in U.P. I hope you will take the same interest in this subject as that taken by the Ministers of Education of other Congress Provinces. I hope your D.P.I. will also send a Circular re organisation of science clubs to the high schools and colleges in Madras Province. I will soon send you a note on how to organise "Science Clubs of Madras Province" and do all the work in the languages of the people concerned.

2. The Secretary of the All India Educational Conference has informed me that I am elected to preside over the Military Studies, Recreation, Physical Education Section at the A.I.E.C. at Trivandrum. On my way back from Trivandrum I will stop for a day or two at Madras to have a talk with you and your Edu. Secretary re: National Cadet Corps, Science Clubs etc. I have here a letter from H.F. the Commander in Chief and also one from Admiral Sir Herbert Fitz Herbert. If your Government can arrangements for my stay at Madras even for a day or two, I shall stop and have a talk. Thank you.

Yours sincerely,

G.M.Jadhav

P.T.O.

Com. 9859 B1/47.

p 22 of
578
16/12

To
The DPIC with
a copy of pp 1-21 of.

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13/12/47

Edm + PH. (B1) Dept.

23
Organisation of Science Clubs
of America in schools and colleges.

From the Director of Public Instruction,
Re. no. 208 E4/47 dated 10.12.47.

Memo no. 9859-B1/47-3 Edm D 15/12/47.

A copy of the correspondence
on the above subject is forwarded
to the Director of Public Instruction
and he is requested, ~~in this connection~~
to submit his final report at an
early date, as the matter has been
pending for a very long time.

13/12/47

C.F. 32 (a).

Education Department
From (Name) Sri D.S. Reddi M.A.,
(Oxon)
Designation Director of public
Instruction,
Station Madras.

Received Registered

To
The Secretary to Government,
Education and public Health Dept.,
Fort St. George,
MADRAS.

Enclosures:

No. Rc. 208 14/47 dated 18th February 1948.

Sir,

Sub:--Organisation of Science clubs of America in schools
and Colleges of this province.

Ref:--Government Memo No. 9859 B1/47-3 Bdn.
dated 15.12.47.

In enclosing herewith a copy of the book "Science Clubs of
America--Spencer hand book" received from the Director of Science
Clubs of America, Washington. I suggest that Government may get a
large supply of the hand books and distribute them free to schools
and colleges. The formation of science clubs in High schools would
be very useful specially as the optional subjects will be abolished
under the reorganised scheme of Secondary Education and the students
will have no opportunity of doing any experiments. If the schools
take this up as an extra curricular activity the equipment which

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would become superfluous on account of the abolition of the optional group could be used for these science clubs.

P.S. 18/2

M. A. D. M. S. S.
For Director of Public Instruction.

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G. m. 9859 B1/47.

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pp 24-25 of

22 26
E + PH (21) Dept.

Schools and Colleges - Organisation of Science Clubs of America.

From the Director of Public Instruction, R.C.
no. 208 E4/47 dated 18.2.1948.

Memo. no. 9859-B1/47-5 EPM of 5/3/48

The Director of Public Instruction is requested to report whether the organisation of Science Clubs ~~of America~~ in the schools and colleges of this Province will result in any expenditure ^{to Govt and} if so, to what extent. ^{The Director is also requested} and to furnish an estimate of the ~~cost~~ ^{expenditure involved in the purchase of copies} of the ~~cost~~ ^{of the} Sponsor Hand Books ~~for free distribution free of cost to ed. institutions~~ ^{to be purchased, assuming that a copy will be}

by Govt

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be supplied free of cost for each school and college. He is also requested to state whether it will not be possible for him to obtain the required number of copies of the books ~~and arrange for their distribution on the above basis~~ ~~instead of Government purchase and transferring them to the Director for distribution to the schools.~~

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to
The D.P.I.
16.3.48

Exp. sent.
on 27.4.48

28/02/23

C.F. 32 (a).

EDUCATIONAL

From (Name) Sri. D.S. Reddi, M.A., (Ox.Eng.)

Designation Director of Public Instruction, The

Station Madras.



Received.....Registered.....

Secretary to Government,
Education & Public Health
Department,
FORT ST. GEORGE, Madras.

Enclosures: R.O. No. 208 E/4/47 dated 15th March 1948.

Sir,

Sub: Schools and Colleges - Organisation of Science Clubs of America.

20064

Ref: Govt. Memo No. 9859-B.1/47-5 Education dated 5th March 1948.

The enclosure's submitted with my letter R.O. No. 208-E.4/47 dated 18th February 1948 may be kindly returned to me for my reference.

pp 24-25 ante

For Director of Public Instruction, Madras.

S.N./16.3/

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Com. 9859 B1/48.

128 of
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1/2 24-25 of

The DPG with the
book placed below 7.3.48
Dys with
a book
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E & PH (BD) Dept.

Schools and Colleges - Organisation of
Science Clubs of America.

From the DPG, RC. no 208 E4/47 D 15.3.48

Memo no 9859-B1/47-6 E4 D 18/3/48.

The copy of the book "Science Clubs
of America - Sponsor Hand Book" received
with the letter RC-no. 208 E4/47 D 18/2/48
from the DPG is enclosed herewith.

1/2
18.3.48

Sept 1948

to Mr. J. P. H. (B.1) Dept.

to Mr. J. P. H. (B.1) Dept.

to Mr. J. P. H. (B.1) Dept.

to Mr. J. P. H. (B.1) Dept.

Cm. 9859-B1/47.

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Schoals and Colleges - Organisation of Science Clubs of America.

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Ref:- Govt. Memo no. 9859-B1/47-6 E.D. dated 18.3.48.

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Memo. No. 9859-B1/47-7 E.D. dt 5/7/48.

The Director of Public Instruction, Madras, is requested to report when his reply to the memo cited above may be expected.

To the Secy.
9/7/48

2/2/48
1/2/48
3/7/48

5/7/48

In reply, please quote
number, date and
short title.*

31/08/48
Education DEPARTMENT. 17

Received _____ Registered _____ 28

From (Name) Sri D.S.Reddi, M.A. (Oxon.),
(Designation) Director of Public Instruction,
Post Box _____, (STATION) Madras.
Telegraphic Address 'Instruction'.

To

6- AUG 1948
The SECRETARY TO THE GOVERNMENT OF MADRAS,
EDUCATION AND PUBLIC HEALTH DEPARTMENT,
FORT ST. GEORGE, M A D R A S.
R.G. No. 208-E4/48 dated 31st July 1948.

Sir,

SCHOOLS AND COLLEGES - Organisation of
Science clubs of America.
* Reference:-Your Memo.No.9859-B1/47-5 Edn.,
dated 5.3.1948. pp26-27 cf (ante)

ENCLOSURES

SPARE COPIES.

In submitting herewith a copy of letter No.
G-11-1651/XVII-34 dated 25.6.1948 of the Director
of Education, Allahabad, I suggest that a similar
method may be adopted in respect of the organisation
in this province also.

Yours faithfully,

For Director of Public Instruction.

ks38.

Copy of letter No.G.11.1651/XVII-34 dated 25th June 1948
from the Director of Public Instruction, United
Provinces, Allahabad to the Director of Public
Instruction, Madras.

Subject:-Organization of Science Clubs of America in
schools and colleges in United Provinces.

pp3-4 ante
With reference to your R.O.C.No.208-E/47 dated
April 5, 1948 I have the honour to say that in
pursuance of the instructions issued in this office
letter No.G.8345/46-47, dated October 23, 1946, several
institutions specially Intermediate colleges started
Science Associations which flourished and did some
useful work in connection with the spread of
Scientific Education and interesting Scientific dis-
coveries and inventions. Mostly these clubs were institu-
tions confined to the college or school itself and on
occasions eminent men of science were asked to in-
augurate or give talks on topics of interest from time
to time. Some of these clubs or associations also
subscribed scientific magazines and journals such as
'Popular Science', 'Scientific American', 'Wood
Worker', 'Nature', etc. which were circulated among
the members. But none of these institutions could
secure any help from the Science clubs of America. This
is not surprising considering difficult times in which
the movement was inaugurated. Below is given a serial in
reply to points raised in the letter under reference:-

P.T.O.

1. The Chief item of expenditure is the subscription to the magazines and this was met by a membership fee from all members of the Association.
2. The expenditure is met as stated above and no Government grant for the purpose is provided.
3. None of these clubs subscribed to journals, published by Science clubs of America.
4. The hand-book is not distributed free to all institutions.
5. The Government undertakes no liability in this connection nor do the managements of private institutions. It is solely run by the staff and the students of the institutions depending upon the interest taken by the head of the institution.

/True copy/.

For Director of Public Instruction.

3/4/8

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Edn & PH (B1) Dept.

G. no. 9859 B1/48

13/30/4

pp 24-25 cf

pp 31-32 cf

Schools and Colleges. Organisation of Science clubs of America - Orders passed.

From the D.P.S., R.C. no. 208 - Enj 17 d. 18. 2. 48.

Do , Do 31. 7. 48.

Order Ms. no. 2128 Edn d. 30. 8. 1948.

The Government approve the suggestion of the Director of Public Instruction that the procedure adopted by the Government of the United Provinces ~~may be~~ for the organisation of the Science clubs of America in schools and Colleges may be followed in this Province also. The Director is accordingly p.T.O.

34/3

requested to issue instructions in the
 matter to all the educational institutions
 in this Province as ^{has been} done by the
 Director of Public Instruction, United
 Provinces.

W
 26/1/50

m
 25/1/48

24/1/48
 24/1/48

page 3 of 4

To ^{apd}
 The D.P.G. 1/4/48

28

COSMOPOLITAN CLUB,
 MOUNT ROAD,
 MADRAS. 2.

16-11-50

To
 the Hon. Secy.



Enc. 1
 Will you please
 have the annexure A
 examined.

Kindly ack.

Yours truly
 S. Veerasingharam

Encl 1

pram

M. P. TO START SCIENCE CLUBS IN SCHOOLS

NAGPUR, Nov. 7.

With a view to promoting active interest amongst the students in the progress of science the Madhya Pradesh Government have decided that science clubs should be organised in the Secondary Schools of the State.

The aim in organising such clubs in the Secondary Schools is to increase the knowledge of science among students and to make them realise its importance in the lives of the people and thus acquire a scientific outlook on life with the object of service to the country and in order to help the cause of education and world peace.

Government have also sanctioned the award of annual prizes in the shape of books to outstanding students of the science clubs.—U.P.I.

Education Department-
(15)

Subdroylo
D

29

Letter Ref. no. 36553-B/50-1 Edn D 23/11/50.

To

Mr Sri P. Veevaraghavan, Cosmopolitan Club,
Mount Road, Madras.

Sir,

Subj.: Schools - Secondary - Organisation
of Science Clubs.

Ref: Your letter to the Hon. the Minister for
Edn. & Law, dated 16.11.50.

I am directed to acknowledge
the receipt of your letter cited.

21/11/50. *21/11*

22/11/50

Yours faithfully,

W. J. 11

P.T.O.

pp 1-2 of

2

P.S. Baroda Government have nominated me a member of the Baroda Legislative Assembly. Our winter session began on Dec.16 and ends on Dec.21. I have ten resolutions on military training, cadet corps, model airplane clubs etc. I should like to know what your Department is doing about the National Cadet Corps. / Mr.B.G.Kher has written that I should have a talk with him and also with the Edu. Secretary when I am in Bombay. In the same way I should like to have a talk with you and your Secretary if that is possible. *G M Jadhav*

3

G-8345/ ^{XVII-453}/₄₆₋₄₇ , dated October 23, 1946

FROM

RAI BAHADUR CHUNI LAL SAHNEY, M.Sc.,
DIRECTOR OF PUBLIC INSTRUCTION,
UNITED PROVINCES,

TO

THE INSPECTORS OF SCHOOLS, U. P.,
THE CIRCLE INSPECTRESSES OF
GIRLS' SCHOOLS, U. P.
THE INSPECTOR OF
EUROPEAN SCHOOLS, U. P.
THE PRINCIPALS, GOVERNMENT TRAINING
COLLEGES, U. P.

SUBJECT: *Organization of Science Clubs*

SIR/MADAM,

I HAVE the honour to say that Mr. G. M. Jadhav (Nirvan, Shivaji Road, Baroda) has brought to the notice of Government the desirability of encouraging our schools to take advantage of the association known as "Science Clubs of America" administered by "Science Service," 1719-N. Street, N. W., Washington, 6 D. C. He has suggested that heads of educational institutions may be requested to form similar clubs in this Province.

The Science Clubs of America affiliate clubs organized by schools to assist its members in learning science. The age limit for membership is nine and above. Mr. Jadhav has informed the Hon'ble the Minister of Education, U. P., that the Science Clubs of America send, on application, the necessary literature to schools and also give guidance as to how to organize and activate a Science Club. I suggest that you may instruct the heads of all A. H. High Schools and Inter. Colleges

Schools and Colleges - Organisation of Science Clubs - Award of prizes for outstanding students of the clubs - Scheme sanctioned by the Madhya Pradesh Govt.

Memo. no. 36553 - B/50. D. G. D. 23/11/50.

A copy of the press cutting on the above subject is forwarded to the D.P.G. and he is requested to consider the feasibility of instituting annual prizes in the shape of books to outstanding students of the science clubs, if any, formed in the educational institutions in this State. The Director's attention is, in this connection, invited to G.O. no. 2128 G.D. 30.8.48. He may submit concrete proposals for the purpose, in due course, if he considers any action necessary on the suggestion.

21/11/50

p2 of

(E) 33-34 of

20/11

The D.P.G. (with a copy of p2 of)

E.P.H. (P.H.) Dept.

Cm. 360 B/1/46.

pp. 1-4 of

Schools and Colleges - Organisation of Science Clubs.

From S.M. Tadhav, Nirvan, Shivaji Road, Baroda, dated 17.12.46.

Please see the letter from S.M. Tadhav, Baroda, on pp. 1-2 of. He requests that a circular similar to ^{the} one on pp. 3-4 of may be issued to all high schools and colleges by the D.P.G. The All India Sci. Conference took place at Trivandrum in the last week of December and it is not known whether Mr. Tadhav has gone to Baroda. It is presumed that ^{H.M. (S.M.)} he does not ^{want to discuss with Mr. Tadhav now} intend to have a talk with him.

2. It is for order whether the receipt of the note at A may be awaited.
P.T.O.

For now whether the receipt

of the letter should be acknowledged. and the
note referred to at 'A' on pt of may be
awaited.

The receipt of the letter may be
acknowledged and he may inform what we await.
his further further note promised. for the

21/1/47
H.S.N.
21/1/47

H.I. 47 S

M. M. 22.

11/1/47

M. (C.M.)

asked D.P.I. to

And we may as well as contact the
Science Club organisation in America. This
may prove useful to our schools

T.S.A.

28-1-47



360-B1
16/1/47.

31

Please see the minutes of H.M. (Edy)
on p 2 ante. A draft letter to G.M. Jadhav and
a draft Memo to the DPG are submitted below
for approval.

25/1/47
25/1/47

25-1-47

pp 4-5 of

[Letter to Mr. G.M. Jadhav, no. 360 B1/47-1
Fm dated 27. 1. 47]

pp 6-7 of

[Memo to the DPG, no. 360 B1/47-2 Gm 27/1/47]

pp 8-18 of

From Sri G.M. Jadhav, dated 1.2.1947.

pp 9-18 of

Sri G.M. Jadhav have sent a note
on how to organise "Science Clubs of Madras
Province" and has requested that if the
note

note is ^{published} printed, 15 copies may be sent to him.

2. A copy of the note may be sent to the DPG for information and guidance and he may be requested send 15 copies of the note to Sri S. M. Tadhew, if it is proposed to print ^{as per the} the note.

3. A draft memo is submitted below for approval.

[Signature]
6/2/47

[Signature]
7.2.47

[Signature]
13/12/47
13/12/47
13/12/47

The draft memo as revised is for approval

[Signature]
11.2.47

[Memo. no. 9859 B1/47-1 Edy dated 11/2/47]. p19cf

p22cf

From the Director of Public Instruction, R.C. no. 208 E4/47 dated 10.12.47.

Please see the letter from the DPG on page 22 cf. A draft memo is submitted below for approval.

[Signature]
13/12/47
13/12/47
13/12/47

[Signature]
13/12/47

p23cf

[Memo. no. 9859-B1/47-3 Edy dated 15(12/47)]

pp24-25cf

From the DPG, R.C. no. 208 E4/47 dated 18.2.1948.

placed below

The DPG has forwarded a copy of the book - "Science Clubs of America - Spencer Hand book" received from the Director of Science Clubs of America, Washington. The Director considers that the formation

of Science Clubs in High Schools would be very useful especially as the optional subjects will be abolished under the reorganised courses for Secondary Education and the students will have no opportunity to do experiments.

He also suggests that, if schools take up this as an extra-curricular activity, the equipment now used for the teaching of the optional subjects may be used for the purpose on the abolition of the optional subjects. Attention is, in this connection, invited to the circular issued by the D.P.G., United Provinces, to all his subordinates. In the circumstances, it is for orders whether the Director's suggestion that the organisation of the clubs in schools and colleges as an extra-curricular activity may be accepted and if so, whether he may be requested to issue a circular in the matter to all his subordinate officers

P.T.O.

p 24 of

p 25 of

p 3-4 of

May be accepted.

26.2.48

East 33

heads of secondary schools and colleges.

2. The Director has also suggested that the Government may get a large supply of the 'Sponsor Hand Books' and distribute them free of charge to schools and colleges. For orders whether this suggestion may be accepted. The Director may be asked to furnish an estimate of the cost assuming that a copy will be supplied free of cost for each school.

Finance may see for remarks before a reference is made to the Director

C.D.S.

125.2.48

252.48

26.2.48 S.W. 26.2.48
Finance (Exp. B)

Please see the notes from p.1 above.

2. E.S.P.H. may be requested to obtain information whether the formation of science clubs in High schools will involve

1/5 with
be
university
if we
are
the
handbook.
26.2.48
26.2.48



E.S.P.H. 26.2.48
9859 B/1/27-48
27/2/48
(with a note)

4/11.24-25.48

8

involve any expenditure to the Govt. and, if so, to what extent; and what the expenditure will be on account of distributing ^(copies of) the booklet 'Sponsor Hand book' free of charge to schools and colleges.

54. net
2348 2348

23/8/48

Estt.

EPH

Fin. V.O. 13063 F.B.1

2.3.48

E+PH (B) Dept.

16055

grs

Please see the notes on pages 5-8 above. With reference to para 2 on page 7 ante and the Fin note on pp 7-8 above a draft memo to the DPP is submitted below for approval. He may also be requested to state whether it will not be possible for him to obtain the required number of copies of the books as he got the sample book.

2. Orders may be issued later on with ref. to para 1 on pp 5-7 ante.

4/9/48

16/3/48

pp 26-27 of

pp 31-32 of

[Memo. no. 9859-131/47-5 EPH dated 5.3.48]

From the DPP, R.C. no. 208-E4/48 dated 31.7.48.



It may be seen from page 32 of that no expenditure is involved from Provincial funds.

10-8-48

E+PH no. 9859 131/47-8 EPH 11/8/48

9/8/48. 1684 25/8

Please see the letter from the Director of Public Instruction on pages 31-32 of forwarding a copy of the letter from the Director of Education, United Provinces on the organisation of Science clubs of America in that Province. The Director suggests that the same method may be adopted in this Province. ~~also in the matter~~. The suggestion may be accepted and the Director may be requested to issue instructions to heads of all institutions accordingly.

2. The file may be circulated to HM (Etn) before sending a reply to the Director. Finance may see prior to circulation.

10-8-48

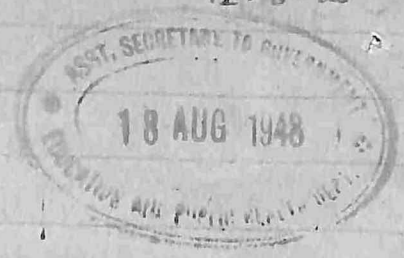
1/8/48

107 / Fin (Exp. Rs)
 Seen in Fin. The ~~file~~ apparently consists now
 of 15 or 20 handbooks now in distribution at Govt. cost.

As
 12-8-48

Exp. H.
 Bl.

File No. 77568 EB-1
 12-8-48



The notes from pages 5-10 above may
 be read. As the D.P.S. has suggested that the
 method adopted by the D.P.S., United Provinces
 may be ~~followed~~ in this Province also, it is not
 necessary to distribute the handbooks to all
 schools and colleges.

2. The file may now be circulated
 to H.M.C.E. (H) for orders on the proposal to ask
 the D.P.S. to issue instructions to heads of all
 educational institutions in this Province
 as has been done by the D.P.S., United

P.T.O.

35 11 9859 M/47
 Provinces - Vide the circular on pages 3-4 of.

19/8/48
 12/8/48
 13/8/48

14-8-48

S. H.
 16/8/48 (H. J. C. R.)

15/8
 24-8-48



A draft order is submitted
 below for approval.

25/8/48

25/8/48

AS I / 1/5
 24/8/48

24/8/48
 24/8/48

36

Schools. Secondary. Organisation of
Science Clubs.

11 of From Sri P. Veeraraghavan, Cosmopolitan Club,
Mount Road, Madras, dt 16.11.50.

The letter from Sri P. Veeraraghavan
and the press cutting on pages 1-2 of may be
perused. The receipt of the letter may be acknowledged.

2. At the instance of Sri G. M. Tadhar,
the question of organising the science clubs of
America in the schools and colleges in this state
was considered in 1947, in consultation with the
DPG. The Director recommended that the procedure
adopted in the matter by the Government of Uttar
Pradesh might be followed in this state also - vide
the letter on pages 31-32 of of no. no. 2128 G.D. dt
30.8.48. This suggestion was approved by Govt.
and the Director was asked to issue instructions
to all edd. institutions as was done by the DPG,
Uttar Pradesh. No expenditure is ^{to be} incurred from
Public funds on the organisation of the clubs.

3. It will be observed from the cutting
on p. 2 of that the Govt. of Madhya Pradesh
have sanctioned the award of prizes in the shape
of books to outstanding students of the clubs in
their state. The DPG may be requested to consider
the feasibility of awarding such prizes in this
state and to submit concrete proposals in due
course, if the thinks ^{any action} necessary.

4. The drafts below are for approval.

21/11/50. 21/11

22/11/50
22/11

Blank lined page with faint horizontal lines and a vertical margin line.

37

20-10-1914
20-10-1914
20-10-1914

(2)

under you to take advantage of the facilities offered by the Science Clubs of America and consider the advisability of forming a Science Club in the school/college, in order to create interest in Science among the pupils.

I have the honour to be,
Sir,
Your most obedient servant,
C. L. SAHNEY,
Director of Public Instruction,
United Provinces.

OFFICE OF THE INSPECTORS OF SCHOOLS, DIVISION,
INSPECTRESS OF GIRLS' SCHOOLS, CIRCLE.

No. , date

Copy forwarded to the heads of all A. H. High Schools and Inter. Colleges for necessary action.

Inspector of Schools.
Inspectress of Girls' Schools.

PSUP-83 DPI-1946-800.

52-53
22/1
Cm 360 B1/47.

28/1 4 2 drafts
Letter Ref. no. 360-B1/47-1 E.D. D. 22/1/47

To

Mr. G. M. Tadhar,
Nirvan, Shivaji Road,
Baroda.

Sir,

Subj: Schools and Colleges. Organisation
of Science Clubs.

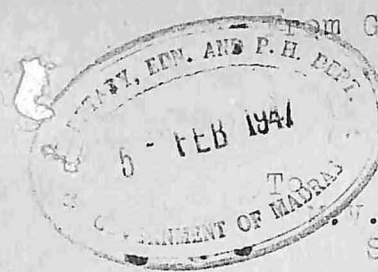
Ref: Your letter dated the 17th December 46

I am directed to acknowledge the receipt of your letter ~~letter~~ dated 17.12.46 on the subject mentioned above and to ~~inform~~ ^{say} you that ~~the~~ ^{your} note ~~promised~~ on how to organise " Science Clubs of Madras Province

7
~~To issue a circular to all heads of institutions
on the lines of the one issued by Government the
Director of Public Instruction, United Provinces.~~

28/1/47

To
The D P G (with a
copy of pp 1-4 of).



G.M. Jadhav
W. Subramanian Esqr I.C.S.
Secretary to the Government of Madras
Education and Public Health Department

Sir,

Reference my letter dated 17 th December 1946

" your letter No. 360-B.1/47-1-Edn dated 27 January 1947

Schools and Colleges - Organisation of Science Clubs

I hope the enclosed Note may be of use to you. In case the Note is published I should like to have 15 copies.

Indians should no longer neglect the study of science subjects.

I was invited to Trivandrum to preside over the Military Studies, Recreation, Health and Physical Education Section of the All India Educational Conference. I went to Trivandrum and did my duty.

I began this short Note at Bonn on Rhine, Germany, in 1920. "The wishes of youth are garnered in age." (Poetry and Truth by Goethe). I saw the sunset at Kanya Kumari. I saw a vision.... Poetry and Truth became a reality.

Thank you.

Yours sincerely,

G.M. Jadhav
G.M. Jadhav

This is sent by Registered Post. with the Note on Science Clubs of Madras Province.

Province" is awaited.

h
25.1.47
y. o. s.

Cm. 360 B1/47.

II 6 E JPH (B1) Dept.
Scholar and Colleges - Organisation
of Science Clubs.

Memo no. 360 B1/47-25th 27/1/47

A Copy of the letter from Mr. S. M.
Tadhar, ~~Niran, Shivaji Road, Baroda,~~
dated 17.12.46 and a copy of the circular
issued by the Director of Public Instruction,
United Provinces ^{on the above subject} have forwarded to the
Director of Public Instruction, Madras.
He is requested to ^(Hogarahai Kumaras) contact the Science
Clubs of America " ^{in the matter of} ~~administered by~~ with a
"Science Service", 1719 N. Street, N. W.,
Washington, 6 D. C., as it is considered
^{that} it may prove useful to scholars
in this province. ~~He is also requested~~
25.1.47

To
The D.P.I.
with copy pp1-4 of

SCIENCE CLUBS OF MADRAS PROVINCE
HOW TO ORGANISE AND ACTIVATE
YOUR SCIENCE CLUB

Every science club is organised to assist its members in learning science.

~~The~~ Every member of your club must have opportunity to develop so far as possible the skills, talents and aptitudes ~~h~~ he possesses. We must work diligently to keep up ^{with} the fast-moving developments in science.

No science club runs itself. Good clubs are the result of careful planning and efficient execution. Like all groups, a club requires some organisation to run smoothly - to be sure that every duty is assigned ~~and~~ accomplished on time. But organisation must be ^{a means} ~~an end~~ of economizing time and not so elaborate that it interferes with activity and defeats the goal for which the club ~~is~~ has been started.

In spite of the fact that the sponsor is the most potent force in the functioning of a good club, it is a mistake to have the club "run" by the sponsor. The responsibility for the operation of the club programme must be neatly partitioned among the members and the sponsor so that the latter is generally the adviser and the members have ample chance to enlarge their sense of responsibility to duty and to practice the methods of leadership which are so essential today.

This leaflet is no rigid recipe for conducting a science club. It is a guide of ideas and suggestions. It contains useful information collected from Science Clubs of America, 1719-N Street, N.W., Washington 6, D.C., U.S.A. Certain changes have been made to suit Indian conditions. We can learn much from Science Clubs of America. We hope that Indian science teachers will encourage science clubs in Indian High Schools and Colleges.