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ABSTRACT

This is a report on the International Schools Association (ISA) workshop which was intended as a high-level conference concerned with new educational thinking in Britain and the U.S., and also as an interdisciplinary experience for participants. The report contains summaries of talks by the principal speakers and a list of the discussion groups. Many of the speakers stressed the need for "humanness" in all educational development and made a plea for community living, respect for others, the sharing of responsibility, and the nobility of work. Others expressed the need for a greater "exactness" in the approach to learning, indicating the importance of interaction, integration, and careful evaluation of progress made. Another speaker emphasized the philosophical nature of the educational process and demanded a transfer of knowledge by students to the outside world so that they might answer their own questions about "relevance" in a practical manner. One speaker showed the importance of a properly organized school situation. Another participant spoke of the organization planning, self-questioning, and honesty required in the teaching of mathematics. Finally, one of the participants demonstrated that "survival techniques" for education in the seventies were already being used in many schools. The report also contains an appendix which includes working and other bibliographies by some of the participants, books and sources for audiovisual methods of teaching, and commercially available curricula from the Learning Research and Development Center at the University of Pittsburgh. (BD)

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# BULLETIN SPECIAL WORKSHOP REPORT EDITION

**ISA** INTERNATIONAL SCHOOLS ASSOCIATION  
ASSOCIATION DES ÉCOLES INTERNATIONALES

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"WILL YOUR TEACHING SURVIVE THE SEVENTIES?"

A REPORT ON THE INTERNATIONAL SCHOOLS ASSOCIATION  
FIRST TEACHERS' IN-SERVICE TRAINING WORKSHOP HELD  
AT THE INTERNATIONAL SCHOOL OF GENEVA, SWITZERLAND,  
FROM 8 - 19 JULY 1974.

"Human history becomes more and more a race between  
education and catastrophe."

H. G. Wells.

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The first Teachers' In-Service, Training Workshop sponsored by the ISA took place from 8 to 19 July 1974 at the International School of Geneva by kind permission of the Director-General, Dr. R.-F. Lejeune.

The Workshop was opened on behalf of UNESCO by Professor Bent Christiansen, Programme Specialist in mathematics, Division of Pre-University Science and Technology Education, who later in the Workshop gave a talk to the participants on 'Problems in the Teaching of Mathematics.'

There followed a reception to which were invited, as well as the participants, co-workers in the field of international education and friends of ISA.

Some fifty participants attended the Workshop from seventeen countries. Observers came from the International Bureau of Education, the International Baccalaureate Office, the Universities of Geneva and Lausanne and the American Women's Club of Geneva. The 'Times Educational Supplement' had two correspondents at the Workshop.

The theme of the Workshop was: 'Will your teaching survive the seventies?'

The Workshop was intended as a high-level conference concerned with new educational thinking in Britain and the United States, and also as an interdisciplinary experience for the participants.

Extract from what the compiler, of the Report said about the preparation of the Workshop:

"Quite a long time ago now I suddenly found myself preparing for a Workshop in Geneva. I began to like the idea. Perhaps I could realize a dream. What kind of workshop? I thought of people who might speak at it. I began to write to speakers and ask them to come. I thought of a historian who had written one of the most significant books of our time, but I also knew that he had another interest which consumed him like a passion - ornithology, the shape and flight of birds in strange corners of the earth. He could not come because the time of our workshop was the time when he would be with his birds, and would turn off for a week or two his dreadful communication with our tormented world, I thought about a man who had written against oppression, and about present-day Britain, and a re-born Europe. But he was called to the United States to cover a darkening problem for his newspaper, I wrote to scientists until I found JEFF THOMPSON in Oxford. I thought of Bob Glaser at the University of Pittsburgh whom I had met some years ago at a conference in Bulgaria. I remembered him as gentle and kind and compassionate, believing in what his teaching machines could do. He sent me his co-director, BILL COOLEY. It was fascinating to think what the speakers might look like - from their letters - those from the heart of the Rupert Brooke countryside in Cambridgeshire which DAVID HOLBROOK wrote. He kindly suggested other speakers to me. I began to read 'Towards Deep Subjectivity' so that I could say that I had read his book when I wrote to the deep-thinking ROGER POOLE. I wrote to George Steiner because I thought I had him trapped since he was coming to teach at the University of Geneva. But I did not manage to trap him. I knew that PETER LOMAS must come because his address was so lovely - Lynwood, June Lane, Midhurst, Sussex. Right in the north of England, in the country of moorland and dark houses that children draw, in Yorkshire, there was a man, GRAHAM CAREY, who worked with his hands and had a dream of how we could live together with dignity and love. He was going to come to the Workshop. There was ALEC PETERSON, whom I had known for a long time, and whose determination and vision I knew the Workshop needed. There was JOAN DEAN. From her letters I did guess that she was competent and sure and nice to look at. And then I went across the Atlantic again and corresponded with CHARLES MERRIFIELD whose letters back to me probed what the workshop was all about, and I tried to help him. I could never know until he came to us how much he would give to me in the daily running of the Workshop."

There is no doubt that participants accepted the Workshop as an interdisciplinary experience. But there was probably not a sufficiently urgent reaction to the theme of the Workshop - "Will your teaching survive the seventies?"

The speakers tried to be interdisciplinary in their approach, and to draw attention to the urgency of the educational problem which we have with us in 1974.

David Holbrook, Roger Poole and Peter Lomas stressed the need for 'humanness' - a subjectivity approach in the face of objective authoritarianism - in all educational development. Holbrook and Poole were also concerned about the reverse side of the subjectivity coin as expressed in pornography and cultural nihilism. Holbrook, with wonderful success, used poems, whether the work of children or established poets, to illustrate and determine his ideas.

Graham Carey made his plea for community living, respect for others, the sharing of responsibility, and the nobility of work.

Bill Cooley and Jeff Thompson felt the need for a greater 'exactness' in the approach to learning, indicating the importance of interaction, integration and careful evaluation of progress made. Cooley was particularly successful in showing that the further away from the individual we taught the less the known achievement would be. He had difficulty, however, in preventing participants from thinking that he was offering only 'machines' for the purpose of teaching.

Charles Merrifield, like Poole, emphasized the philosophical nature of the educational process, and demanded, as did Cooley, a transfer of knowledge by students to the outside world so that they might answer their own questions about 'relevance' in a practical manner. Merrifield condemned, without hesitation, the traditional authoritarian curriculum.

Joan Dean, although deliberately at the Workshop trying to involve primary teachers, showed the extreme importance of a properly organized school situation, developing such themes as the correct use of 'time', grouping of children in the teaching process, the proper involvement of the 'professionalism' of the teacher, and the vital theme of motivation.

Ben Christiansen spoke of the organization planning, self-

questioning and honesty required in the teaching of mathematics, pointing out very clearly what is valuable and what is not.

Finally, Alec Peterson's talks, while including much of what Cooley and Merrifield in particular were saying, were based on two very substantial foundations - vast experience and the bold and imaginative syllabus of the International Baccalaureate - so that participants could see that 'survival techniques' for the education of the seventies were already into the classrooms of a widening number of schools.

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The compiler of this report has decided to offer his summaries of the speakers' talks as they came over to audiences, subjectively, and not as pure transcriptions, objectively. The complete talks of the speakers will be available as cassettes. The compiler, therefore, accepts full responsibility for any errors of judgement or accuracy which may become apparent in his summaries.

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## SUMMARIES OF TALKS BY SPEAKERS:

### A) Opening of Workshop

by Professor Bent Christensen  
of UNESCO.

The vitality of international co-operation;

Co-operation through books and reports. Reading  
what other people are doing in education.

The need for international meetings

Personal interaction by seminars, symposia, open-  
ended reports

The necessity to study abroad

Activities which mean for a teacher work in another  
country

In a workshop the need for discussion between person  
and person

Small groups talking about world-wide issues

The real experience is the work in another country

---

"Culture is the passion for sweetness and light,  
and, what is more, the passion for making them  
prevail."

Matthew Arnold.

### B) Children's Writing

by Mr. David Holbrook of Downing  
College, Cambridge University.

Mr. Holbrook developed the themes of all his four  
talks through the reading of poetry, an original and  
highly stimulating method of presentation.

Contrast between creative energies of children and  
the false solutions(nihilistic)

A dehumanized society

A commercial and brutalized exploitation of children by the newsreels and other media

Egotistical nothingness

Purely hedonistic approach - what can I get out of it?

The dynamics of hate, whereas love is creativity

The child's search for a sense of existence - an awareness

What am I? Why am I here? I am afraid

The need for a true existentialism

The theories of Rollo May, etc.

The anonymity of living among concrete buildings

Culture at large is nihilistic

We must assert 'humanness'

Martin Buber says we do not live in world like animals

We have imagination which sets us out of ourselves

Between human beings there must be confirmation and inter-action

D.W. Winnicott says that the primary need for man is to find meaning (not just sex as with Freud)

Mother and child relationship is closer than instinct

Mother, replaced perhaps by teddy-bear, points towards culture

Teddy-bear symbol is both union and separateness

Becomes a rich personal culture, 'humanness' and union with other humans

What is the point of life?

What does 'I'?

Roger Poole says culture is a primary need of man

But it is inaccessible to objective attitudes

Children produce their own symbols when they write poetry

Teacher-child relationship must be like a mother-child relationship

We need the capacity to understand other people and to enter into the lives of others

We cannot 'live' from package-sensation to package-sensation

Again the questions: What is to be human? What is the point of life?

Crime is associated with literacy failure

The child needs fun, not the new phenomenon  
of 'ripping bodies open'  
The failure to recognize the imagination  
( 'Black Paper' against 'messaging about' in education)

C) The Need for Subjective Disciplines

by Mr. David Holbrook.

Science itself is not clear about subjective and  
objective situation

Empirical psychology is not working (in the  
Cartesian fashion)

You are asking, for example, what is the symbolism  
of the monkey's behaviour - just like the symbolism  
of the child's poem

It is not just measurement, but an imaginative  
assessment - anthropomorphic

This rejects the rational scientific tradition

Marjorie Grene says if you have the parts you  
have the whole

It is a question of divide and conquer

But behavior is not in parts, it is a whole

Categories of living cannot be learned in the Cartesian  
tradition

So there is a crisis in present-day scientific thinking

There is no body of objective knowledge, only scientists  
knowing, persons knowing - always subjectivity, not  
objectivity

It is a question of dwelling in the mathematical  
structure

An extension into the things beyond

The relationship between self and the world is far  
more complex than simple

Living creatures are living in the world

We have 'intentionality', not a passive reception of  
stimuli

(The dragonfly moves)

Buber says we live in a mansion of the consciousness  
It is a creatively complex situation  
Creative imagination shapes the kind we are  
You cannot reduce life to inertia which is not life  
The obscuring of the creative forward-looking elements  
Roger Poole: we confer meaning on the world, and  
do not have meaning thrust upon us  
It is a world of interacting subjectivity  
Massive re-integrating of subjectivity into objective  
research  
We must recognize the irrational  
Subjective qualities needed in research  
'(We will bury you' says the scientist to the poet)  
Existentialism is needed to put back man as a whole  
It is a question of going more deeply into the nature  
of man in the world  
Not just learning fragmentary subjects, but discussing  
man as a whole  
Wedding the disciplines into a whole  
The specialist makes an exclusive claim  
Biologism  
Nihilism which debases what is human in man  
Man seen as a thing made of drives, forces, etc.  
not an organism only  
Culture-bearing animal is man, unlike other animals  
Not an agglomeration of functions is man  
Not a functionalized world  
An increasingly inhuman social order  
The sadness of pictures of functional (sexual) man  
(sex education films)  
Love, uniqueness, meaning, etc. are obliterated. Pro-  
duces a scepticism  
A terrible 'real-politik'  
Impersonal science must be against the personal  
In the arts - not as in the 'naked ape' - man has an  
impulse towards a higher being  
Science undermines man's moral being  
Evolution etc. and energy theories where annihilation  
is the only hope  
(Man is 'a bag of bones' as in Ted Hughes 'Crow')  
An inert, irresponsible environment where man is  
abandoned  
Man, frightened by his own shadow, the light of the

mind of man makes the universe  
(Prospero's dream-world of man's culture)  
Hate (Sylvia Plath) and meaninglessness  
We must recognize that the heavenly bread is  
passed from man to man  
(Also in Hughes there is intentionality)  
Universe can be humanized.  
Intentionality and the creative giving of meaning  
Why did Hughes give himself up to the cynicism of 'Crow'?  
Children in schools have no training in the study of  
babyhood  
(See Coleridge's 'Frost at Midnight')  
PHILOSOPHICAL ANTHROPOLOGY

---

"Poetry is as exact a science as geometry."

Gustave Flaubert.

#### D) Cultural Pollution

by Mr. David Holbrook.

The situation is very grave  
There is a refusal by people to be concerned  
Trying to be objective, not being concerned with  
what is happening in consciousness  
The film: 'A Clockwork Orange' described as a  
marvellous experience  
But otherwise described as a militant and malicious  
assault on human values  
As with terrorism - the willingness to maim women  
and children  
A distortion of love  
A fantasy and symbolism in this  
Back to the Nazi theories of the thirties  
A media to corrupt values  
It is our business to protect cultural values  
The predominance of a mass culture

Pornography has been described as a hatred of man  
It is all the pollution of the cultural environment  
Look nowadays at every cinema in England and Europe  
(Once again the Love/Hate moral inversion)

The problem of the vulnerability of the human being  
Disturbed people, anxiety, blankness, 'blousons noirs',  
'Hell's Angels', etc.

5000 HP men: cf. the terrorist

The spread of pornography' under a guise of enlighten-  
ment

Milton: 'Hate stronger under the show of love well-feigned'  
Hate now at the centre of sexual meaning

A child's expression of nihilism

Desperate obsession with 'blood and guts' - the adolescent  
schizoid

(sullied flesh of Hamlet)

The destruction of nihilism

This element comes from the anxiety of nothingness

Boredom, fear and anxiety

Exploitation of fear and anxiety

Poems of children express the problem

The present human predicament leading to envy of the  
dead and the insane

Magazines like 'Mayfair' etc., films like 'Straw Dogs',  
'A Clockwork Orange', 'Last Tango in Paris' etc.

Rape, combat, murder

A world of false solutions

To insult the body is to insult the freedom within it

The destruction of the 'creative being in love

And the depersonalization of sex

When parents describe certain 'pop' singers as 'filthy  
swine' children turn against the parents

It is the world of the 'New Hun' (Roger Poole)

See 'Crow' by Ted Hughes (a functional view of sexual  
intercourse as in his poem 'A Childish Prank.')

In 'Last Tango' sodomy = destructive nihilism,  
cultural nihilism

It is the morality of the SS in Nazi Germany

Pornographers try to confuse human beings by sexual  
displays as in Solzhenitsyn's 'Gulag Archipelago.'

The tremendous amount of money involved in the  
dissemination of pornography

We must control the nihilists because people are only

too willing to join in the nihilism  
We must reject the sexual fascism of the porno-  
grapher who is also a hypocrite  
Finally, there is the very real danger of a mass-  
cosmopolitan culture destroying a local, native culture.

E) The Poetry of Sylvia Plath

by Mr. David Holbrook.

The poem: 'The Night Dances'

A very difficult poem

What is it about?

About a baby

Winnicott says there is no such thing as a baby -  
only a baby with a mother

(reflecting an emerging psyche)

Sylvia Plath is opening up this study

The mystery and complexity of the baby

The puzzle of the baby

Baby is sending out gestures

The rippling movements of the baby - the night dances

How do you receive the gestures of the baby? O

The poet is puzzled about human interaction

'A smile from somebody who loves us'

Night dances - mathematical abstractions

(cf. Coleridge's experience in 'Frost at Midnight')

The baby's is a psychic growth

Schizoid emptying of gestures

'Nowhere' - failure of creative process

Strange, sad feeling of a baby as a responsibility

The poem: 'You're'

Full of play

But author of poetry full of nihilism

The poem: 'Lady Lazarus'

A hymn to suicide

The poem: 'Daddy'

Written not long before she committed suicide

Hatred of 'daddy': what is this hate?  
 Hatred of falsehood  
 Feeling of a lack of confidence in one's identity  
 Powerful seductive dynamic of false religion (self)  
 Associated with Sylvia Plath is the idea of suicide  
 The poem: 'Edge'  
 Kill her children and turn them back into her body  
 Seductive nihilism  
 The anguish of creative reflection  
 Everywhere she is looking for the mother's eyes  
 It is a failure of a female element  
 There are bits of male symbols in her poetry  
 The poem: 'Elm'  
 'This dark thing that sleeps in me' (baby)  
 Remember the schizoid suicide does not want to die  
 The same image in Dylan Thomas  
 The idea of being re-born, not remaining dead  
 A new beginning  
 The poem: 'Poem for a Birthday'  
 In a psychiatric ward  
 'Blackberry stems' = electric wires  
 Poem: 'Dark House'  
 Puppy-like creatures  
 The poem: 'Maenad'  
 The old man = 'Daddy'  
 She could not identify with her mother, took an  
 image of daddy  
 Poem: 'The Beast'  
 The creature is oneself that goes on living  
 Poem: 'The Stones'  
 Coming back to life after a suicide attempt  
 All this poetry is a 'mad experience'  
 The comparison with Dylan Thomas of whom Sylvia  
 Plath was very fond: Thomas's fears as shown in his  
 poem: 'Fern Hill' - 'the owls were bearing the farms  
 away' and in the poem: 'Do not go gentle into that  
 good night'  
 Dylan Thomas: 'I want to return to the Garden of Eden',  
 to be reborn  
 Sylvia Plath wrote about our time, but vision rooted  
 in her subjectivity  
 Great care must be taken in teaching her poetry to  
 students

They are seduced by nihilistic 'avant-garde' fashions  
Students are able to identify with her state of mind  
in resolving their own problems  
Some students have had the same feelings as she had  
Sylvia Plath's need to be reborn is her problem  
deep within herself  
The parallel cases of Sylvia Plath and Virginia Woolf.  
Both of them treated for their mental illnesses by  
men psychiatrists  
This male influence upset them more  
The danger of Sylvia Plath's poetry being taught  
by non-experts  
The moral inversion of love and hate (see Michael  
Polanyi : 'Knowing and Being')

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"Mathematics possesses not only truth, but supreme  
beauty - a beauty cold and austere, like that of sculpture."  
Bertrand Russell

F) Problems in the Teaching of Mathematics  
by Professor Bent Christiansen.

Introductory remarks on value judgements.

What do 'we' want? Who are the 'we' in that question?

What do 'we' mean by 'good', 'bad', 'better', 'worse'?

Are there basic human needs? And, accordingly, basic  
values, basic problems, and basic aims?

What are their relationships between national values and  
such 'basic' values?

'Answers to', or maybe better, 'reflections on' such  
questions are necessary as a background for answers  
to many of the following questions:

1. What is mathematics?
2. What is mathematics education?
3. The teacher's involvement in curriculum development
4. The tools of the mathematics teacher
5. New mathematics?

1. What is mathematics?

- a) Epistemological considerations: Mathematics as a means for description
- b) Is mathematics, taken in this sense, different from other descriptive systems (e.g. from those belonging to Physics, History, Literature, Religion)?
- c) Are value-judgements involved in the 'definition' of the various subjects? To the same degree?
- d) The universality of pure mathematics at scientific level.
- e) Creation and application of mathematics
- f) The box of contemporary mathematics at scientific level:

Foundation of  
mathematics

Applied  
mathematics

Pure mathematics

Epistemology of  
mathematics

History of  
mathematics

2. What is mathematics education?

- a) The transfer of knowledge, skills and attitudes - as preconceived - to the learner?
- b) Which parts of the body of contemporary mathematics should be brought to the attention of the learners at the various educational levels?  
Is there a universal answer?
- c) And in greater detail in some national context:  
What are - in the present socio-economic context of this country - the mathematical topics to be dealt with, the knowledge, the skills, and the attitudes to be conveyed at each level?  
How is the answer established in such a context?
- d) A common problem area:  
To identify goals, to specify derived objectives  
To plan and organize the implementation, i.e. to decide on means to be applied to attain goals and objectives  
To execute the plans,  
To make appropriate adjustments and changes  
To evaluate

- e) Trends regarding goals
- f) Trends regarding contents
  - A core curriculum (in the broad sense)
  - For all? For which levels or groups?
  - Basic demands on mathematics achievements
  - Rôle of tests and examinations
- g) Trends regarding methods
  - Change of emphasis from teaching to learning, from teacher to learner. Interaction between teacher and learner
  - Utilization of theories on concept formation (concrete approaches, principles of variation, principle of contrast, multiple embodiment, deep-end principle, spiral organization, stages in development, indirect approaches, representational forms, discussion of language, etc.)
  - Individualization
  - Group work
  - Discovery method
  - Expository teaching

### 3. The teacher's involvement in curriculum development

- a) The rôle of the mathematics teacher
- b) Mathematics instruction, teaching education
  - What are the decisions of the teacher in each rôle?
  - His responsibilities?
- c) Consciousness of decisions desirable?
- d) The teacher as curriculum developer?

Objectives for course  
or unit in question

Background in  
the broad sense

Identification of derived  
objectives

Organization of subject matter  
and planning of details  
regarding all activities

Execution of the plans

Evaluation

Adjustment

### 4. The tools of the mathematics teacher

- a) Knowledge, insight and experience regarding:

Mathematics (see box of 1 f)

Psychology, pedagogy, didactics (seen in the context of mathematics education)

Teaching materials in the broad sense

Working methods (types of activities for teachers and learners)

Analyses of goals/means, relationships regarding main topics of mathematics and mathematics education

Procedures of evaluation

- b) Expertise in interaction with learners (e.g. built on professional experiences and on applications of theories regarding learning, cf. 2 g)

5. New mathematics

a) New terminology

b) New content

c) New methods

(NOTE: The views expressed by the speaker, the selection of facts presented and the opinions stated with regard to the facts are the responsibility of the speaker, and do not necessarily represent the views of UNESCO)

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"I have taken all knowledge to be my province.."

Francis Bacon.

G) The Theory of Knowledge Course in the International Baccalaureate

by Mr. A.D.C. Peterson,

Director General, International Baccalaureate Office.

Suitable for upper secondary education

Not concerned with an examination

General education essential at the upper secondary level

Job-oriented education is not enough

It is a question of enjoying one's environment and making sense of the world in which we live  
Threat of the environment can be overcome with a sense of it

We must also be able to modify our environment  
(Marx said: it was not enough to understand the world but to change it)

Also to enjoy the environment (Christian approach)  
Certain kinds of understanding necessary for this  
(theories of Hirst, Whitfield, Bell)

It is not a question of accumulation of information  
(as in '9. c.)

(You must have in the IB a creative activity as well as a practical curriculum which is not entirely general. You must study mathematics, language, study of man and science)

Purposes of Theory of Knowledge course - answers student's complaint that his studies are not related to each other, or to life outside school or to what happens to student after he leaves school - the teacher does not say why he studies a certain subject - what do I study history for? What has it got to do with me?

The course is intended to lead students to reflect on what they are learning e.g. science students who do not know what the scientist is really about  
The question of the relationship between moral and aesthetic judgements

Students do not understand the nature of the evidence on which man bases his judgement  
The specialist in a subject is often so keen on subject that he does not realize that the student does not understand the nature of his subject  
Another purpose: Transfer of training, are they going to be different people at the end of the course?  
Facts are not important (e.g. in history), it is the interpretation of experience that matters

How are the school subjects going to help people to understand the world?

The Theory of Knowledge course will make students more conscious of the nature of the subjects they are studying

A good deal of what a child learns is in school,

but he is also considerably affected by things outside

It is a question of transfer of what a student learns in school to what student has to deal with outside school

Extreme difficulty of teaching the Theory of Knowledge course

Teachers who have become involved have become very enthusiastic

In some schools the students regard it as the most important course they have

One teacher or team of teachers? If one, what sort of one? Philosopher?

Probably best taught by team; mathematician, historian, scientist and a co-ordinator who is a) an enthusiast and b) has had some philosophical training

Should it be taught continuously or in blocks?

Two periods per week? Three weeks induction course? Month in middle of IB course? At end of IB course?

Lecture? Seminar? Problem-solving?

Course should contain real life problems

Course should not be too academic, nor too academic in its standard! 'Theory of Knowledge'

is it the best name for the course?

---

#### H) Integrated Courses in the Humanities

by Mr. A.D.C. Peterson.

What subjects are children being taught?

Nature study, scientific research/general science/chemistry or physics or biology/botany/zoology

Aim should not be the education of scholars since the great majority are not going to be scholars

For most secondary pupils scholarship is not required

Life's problems are not solved by academic principles

Hence the need for interdisciplinary systems  
These should begin in the 16-19 age-group after the rudiments of ordinary subject teaching have been dealt with

Statistics will be involved in an interdisciplinary programme so that mathematical training is needed first

Up till recently we assumed that higher education was always going to be tertiary

But this is changing. A high proportion of students do not apply for university education any more

For an increasing number of young people 16-19 age-range will be the final years of study

Therefore this age-group is the time for interdisciplinary course e.g. Arabic Studies, Eastern European Studies, Languages, etc.

The vital importance of transfer of training which will lead to a link-up with the world outside school

In the Humanities: an interdisciplinary course in addition to one course in a single subject

An interdisciplinary course is not enough on its own

Just combining courses is not enough, e.g. Physics and German Literature

An interdisciplinary course requires action as well as study

And the educational planning must be related to the modification of the environment

Example: The IB 'Culture of Cities' Course

Very fitting for the peculiar environment experience of students who attend international schools

Course draws on Geography, History, Economics, Social Anthropology, Psychology

Student studies three cities: His own and 2 from a) ancient centre of culture, b) 19 c. industrial city, c) new city in developing region, Lagos, Teheran, etc.

Practical work is within your own city

Student in each city prepares learning material about his own city which is sent to co-operating city (e.g. Geneva and Teheran)

A student from a third city studies both Geneva and Teheran

Methods of study: a) Normal way through books

b). Direct contact with the environment c) Understanding by correspondence

(The importance of Correspondence Courses  
Life-long education is the new idea in Europe -  
Faure Report - therefore more correspondence  
courses

The Open University was a major development in  
Britain and is a correspondence course)

Therefore there is now started correspondence  
instruction between the international schools in  
Geneva and Teheran.

The United Nations International School in New  
York has an integrated course in 20 c. History  
and Literature

The course is based on literature and history  
of Europe in 20 c. through the study of literature,  
also history with geography

Such courses are a great improvement on the  
enforced clash between Science and Humanities/Arts  
which has been the practice in Britain.

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1) The Concurrence of Aim in Psychotherapy and  
Education

by Dr. Peter Lomas, Psychotherapist,  
Sussex.

(It should be noted that there is significant relationship  
between the talks given by Peter Lomas, Roger Poole  
and David Holbrook although their talks are not, in  
fact, set down side by side in the report)

Although parents are best for bringing up their  
own children additional help is needed

Aim of psychotherapy is to help the child to fulfil  
his talent and potentialities

A great similarity between psychotherapy and  
education

True growth. What constitutes growth?

Are we teaching children the things they need?  
Are we teaching them to adapt to situations which  
will not develop their true potential?  
We must create the social being  
Shameful neglect of children  
Failure of society to interest itself in the actual  
world of the child (see David Holbrook)  
Good books are better than poor teachers  
Creating adults in a technological world  
We are not giving the child the tools he needs  
Miracle of dedication to reach the inner world  
of the child in the face of large classes in schools  
Guidance experts are very much in short supply  
Also a great shortage of psychotherapists  
The real problem is the sense of failure in  
the child (Piaget)  
The terrible pressures of reward and punishment  
In order to overcome the sense of failure the child  
will adopt the false standards of others

#### FALSE GROWTH

Adults do not care enough  
The child brings his most precious thing to school  
just to have it with him  
The child may be unhappy at his desk, in his  
classroom  
In school he finds himself just the same as every-  
body, as everything else  
His true self has died  
He is already losing the battle of life  
Because there is a taboo about failure  
The fear of failure destroys the personal identity  
Difference between psychotherapy and education -  
one is healing, the other is the imparting of knowledge  
Our social culture in which our children grow or  
fail to grow  
What is the assessment of the provision we make  
for our children?  
Surely the best of ourselves goes into our children  
After all, adults will give their lives for their  
children

"You're not a man, you're a machine."

George Bernard Shaw.

J) Current Research and Development in Individualized Instruction

by Professor William Cooley,  
Co-director,

Learning, Research and  
Development Centre,  
University of Pittsburgh.

What is individualized instruction?

It is really small group work, involving about half the class

But careful planning must be done

The development of the perceptual motor skills by meeting the individual needs

A great deal of laboratory work and the collection of data

Using an open classroom system but highly structured

Teaching self-management skills

Not only programmes but much branching

The rôle of teacher in the classroom is a kind of travelling

'Hardware' is needed - computers, which are now much cheaper

Children are happy doing this kind of work

This is the use of educational technology - not hardware only

It is applied psychological science

Psychological knowledge in the past not relevant. Instructional systems were not available

Each teacher does not have to be an expert, but instructional systems are essential

There is the subject matter and the response of the children to it

Students must interact with the subject matter

There must be a display of the subject matter, manipulation and display are necessary

And feed-back is essential

Display means how subject matter is presented

Manipulation is teaching strategy

We must create an educational environment  
Programme tests do not always take account  
of environment

There must be a) incorporation of the learning  
process and b) evaluation of the learning  
(in Pittsburgh two state schools are operated  
by this system)

Task analysis: what a good reader actually does  
There must be learning hierarchies; information  
about initial placement: the principle of reinforcement

Motivational variables: conditions under which  
learning occurs

Retention and transfer

Concept learning

Attention

Individualization: classroom to individual

There is the student's ability to learn to learn

Teachers must feel they are involved in the  
standardization of the learning process

The diagnosis of a learning structure

It must be a self-improving system

Computers control the environment, not the student  
in his environment

But all this process must be evaluated

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K) The Evaluation of Educational Change

by Professor William Cooley

The evaluation of programmes

To provide instructional materials for teachers  
In 1968 was carried out a first investigation of  
innovation

From innovation to evaluation

Have we got the evaluators?

There has to be the assessment of the inequality  
of educational opportunity

Differences between schools do not reflect the  
differences between students

Amongst 100,000 students tested the difference between schools did not reflect the differences in what children learned (tests of literacy, income groups, prison inmates) Evaluation is an extraordinarily difficult task Some techniques in the testing of scientific hypothesis It was found that there were some 648 ways in which an evaluation can go wrong

a) outcome measures b) a dialogue between consumer and evaluator c) identification of criteria measures with what consumer wants d) evaluation of individual instruction e) identification of the relevance of a programme e.g. 'Head Start' pre-school will move children out of poverty What is the learning in relation to the end-result in jobs?

School versus Post-School performance  
Better than IQ is General Intellectual Development  
Or General Academic Ability

There must be shown a relationship between measurements and success and satisfaction after school

The establishment of the validity of measures of children's abilities and their relationship to adult success

It is easy to see impact of different educational programmes

The identification of the desirable properties of education with what happens after school.

It is a question of in-school and after-school

What is the variety of application of new programmes? How rarely does the implementation of innovation ever occur?

There is also the measurement of variation from classroom to classroom

What factors measure school achievement? Initial status, outcome at the end of a year

For instance, four classrooms began with the same general initial ability

End-of-year results depended on: measures of classroom differences and the explanation of why students ended with different achievements

Amount of change which occurs is dependent on:

a) amount of opportunity to try out what is being achieved  
b) amount of motivation built into the environment  
c) structure of the curriculum  
d) structure events in the classroom, feed-back etc.  
e) amount of time available to students  
f) the efficiency of the instruction

There are always differences in the classroom process

Use of the wrong variables instead of studying the educational processes

If you go into a classroom you will immediately be aware of the quality of the interaction between teacher and children

Follow-through, feed-back and implementation are vital

Evaluation of a model: The transfer value to the adult world, a small number of outcome measures, the problem of dealing with varying implementation, problem of process measures with student differences

Evaluation of the Pittsburgh programme: The individual programme, when properly operated, shows a grade level increase of one grade. International schools might well use individualized programmes with students with individual differences

Programmes suitable for children who come from and go to different systems

Programmes must define the quality of self-instruction

Individualized instruction means that the teacher knows exactly the point reached by the child's learning (much better than in an ordinary classroom)

Until such a system has been developed teachers have not had the information about the children they teach that they require

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"Science is nothing but trained and organized common sense."

T.H. Huxley.

## L) Trends in the Teaching of Science

by Dr. J.J. Thompson of Oxford University

- a) Science teaching as it is in Europe at present
- b) what is going to happen in the British system
- c) in an international system e.g. the International Baccalaureate

One of the fundamental aims will be a knowledge of scientific processes

Experimentation and practical application

There is a growing participation by the teacher in the preparation of syllabuses

Average life-time of a syllabus is 5-7 years

Britain has an integrated middle school course in science

Individualized instruction is rare in European science teaching

Industry is helping a great deal with the science teaching in schools

In Switzerland there is very close contact between the chemical companies and the chemistry teaching in schools

Types of assessment: written, practical and oral tests with varied use in different countries

Considerable variation among countries in the time allowed and the number of questions for written papers

Oral examinations are becoming much more popular

Attitude varies in the time allowed for the preparation for oral examinations

The growth of In-Service Training for the science teacher

Trends in the British system: a) more application of principles of science to everyday life b) a greater degree of experimental skills taught c) an appreciation of social and environmental effects of science

Much more attention paid to what a scientist does

Pupils want to see something happening

Pupils must reflect the technology of the day in approaching a scientific problem

The development of intellectual skill and the lively mind

In the 11-13 age-group it is necessary to be active in the laboratory

In the 13-15 age-group it is a question of learning structural ideas and theories

The use of the discovery approach in the pre-13 group

New methods, of course, are hard on the teacher and time-consuming

Integrated science

11-13 a combined science course

(an integrated science course in Scotland)

13-16 three integrated science courses a) Nuffield Secondary Science for those who will not be taking an examination b) Schools Council Course leading to a double O-Level of the GCE and towards systematic problem solving c) Nuffield Physical Science Project

It is now possible to have an integrated course right up to the end of the secondary level instead of separate Physics and Chemistry

There is now a great deal more objectivity in examination papers

(multiple choice papers as used in the United States)

Teacher is playing an increasing rôle in the assessment of his pupils (continuous assessment)

A shift from external to internal assessment

Examination papers are now much more attractive

Questions which are living experiments

Evaluation of achievement; a) The interest of the children b) The understanding of the children

Teacher should be able to select his science from a kind of supermarket

Aims in the IB are to make science relevant and interdisciplinary. Keynote of the IB program is flexibility

Science is a way of inquiry of the environment

What the IB offers:

Biology

Physics

Chemistry

Physical Science

Scientific Studies

Marine Science

Photographic Science

Environmental Science

(Social and environmental factors)

Still more internal assessment available with the IB and with the use of films for moderation

"The Hun is at the gate!"

Rudyard Kipling

M) The Transition School-University  
by Dr. Roger Poole of Nottingham University

Attitude of some students

'Young hippy in psychedelic shirt, ragged blue jeans, no footwear, subtle smile'

'Caressed book like human flesh, inhabitant of a tactile world'

which precedes words'

A contempt implied for authors on the shelves as meaning all the same in 1974

An indictment of the 'logos'

A complete loss of literary background

George Steiner has written that Western literature is fading out of the reach of natural reading and is maintained only in scholarly conversation

'Lycidas is dead'

The entire classical literature is disappearing over the horizon

'The student reads Milton through his feet'

The student has become 'the New Hun'

He is antagonistic to learning as such

He puts his feet on the table without showing any concern for other people in the room, no writing materials, writes unhesitatingly in a library book, uses any object as an ash-tray, switches off his mind as he stubs out a cigarette

A book is a fetish which he keeps in a sort of 'swag-bag'

It is the fascist state which upholds the literary system

All books are irrelevant

It is a rejection of language

An exploration of tactile space

What he can get out of the five senses

'Flower-power', he gathers tactile experience like the pollen from flowers

Do not look like a medieval man, but turn your face to the sun

Be a pacifist and love everybody and everything

Words make demands upon the intellect, words  
are works of the devil

Drug experience is essential for him to induce  
his multi-cultural world.

To the 'New Hun' an hour in the classroom must  
seem a kind of eternity

And Milton is like a bully

The 'New Hun' must bear his cross

But what if the 'New Hun' was right?

After all, the price to pay for knowledge was  
disembodiment

'Will our teaching survive the seventies?' (in a  
post-literate society)

Gulf between teacher and taught in university and school  
'Children of the Sixth Form who come to university  
and change to the 'New Huns'

The children of June are the people who arrive in September

Their failure to change the model of learning:

- a) Teaching
- b) Information
- c) Note-taking (a kind of alienation)
- d) Infallibility of teacher (who becomes a man of straw)
- e) A false respect for the teacher
- f) Fear of expressing an opinion
- g) Inability to read (use Xerox instead)

But it is a mutual disappointment.

Staff expect learning involvement, independent work,  
a high degree of verbalization, an interest in wider  
implications of the subject, a willingness to discuss  
general ideas

But they get: students propelled into university by  
all sorts of self-interest, their work at school does  
not prepare them for university, only to get a place,  
they have not had any conceptual preparation, they  
are not prepared to take up a position with regard  
to some matter of consequence, they do not watch  
television nor do they read the papers, no interest  
in history, they have an inability to reflect for a  
long time on something, it is too egocentric to be  
a Union speaker

The lecture is a dying art because

- a) it is something the Gutenberg man does (Poole)

- b) you are talking to people who are largely non-verbal
- c) the lecturer must be judged
- d) by a popularity poll
- e) the lecture is élitist
- f) the audience's scepticism and 'sansculottism'
- g) the young people are judging the old

N) Objective Ideals and Subjective Realities - the teaching of Milton and Swift.

By Dr. Roger Poole.

'Samson Agonistes' and 'Gulliver's Travels'

Can you teach Milton and Swift?

We can go round them

Milton's conviction, but also his doubts  
Swift's bitterness; but also his sense of justice  
and reason

Subjective truths, objective laid-down criticism

The attitudes of the official biography of Milton  
and the sixth form edition of his works

Parker's 'Milton' - the pious Milton who was  
no more than a 'traditional' misogynist

There is only the dramatic relevance of the misogynist

The objective approach tells us not to believe in

what is most exactly shown in the poetry

Teach that Milton was the poet of faith, not someone  
visited by tremendous doubts

'Paradise Lost' is really an indictment of God's  
relations with man

Milton went blind as he wrote his justification of  
the behaviour of the regicides

We are told not to assume that 'Samson Agonistes'  
comes out of Milton's own experience

His constant preoccupation with his blindness -  
particularly in the great sonnet on his blindness

The schools edition tells you how you must read  
'Samson'

It is temptation overcome and the acceptance  
of God's justice

You must move away from the poet to what  
authority says about the poem

Milton is obviously constantly worried about  
his blindness

'Samson' has an outburst against women, expresses  
doubt, and complains at the injustice shown towards  
the regicides

The authorities forbid us to see that the Chorus  
in 'Samson' could represent Milton's (or Samson's)  
point of view - it is only the chorus

Always the objective approach by the critics

Not even subconsciously Milton's thoughts

We must not label anything autobiographical which  
does not occur in objective reality

We are forbidden to accept subjective meaning

Milton's first marriage caused him great suffering,  
but you must not assume that Milton's attack on Dalila  
was autobiographical

But whatever is 'traditional' misogyny?

There are powerful references in 'Samson' to his  
own marriage

He probably took twenty-five years to write 'Samson',  
obviously obsessed all the time by his blindness

We must refer to the subjective life of Milton

How do you teach the poem?

It was a moral and intellectual victory only, still  
to be achieved in 'Paradise Lost.'

The objective critics continue to stress the triumph  
of faith in Manoa's speech at the end

(There is a forbidden area in Miltonic scholarship)

The poems are surely a silent, dark struggle about  
the meaning of God's justice

Swift's 'Gulliver's Travels' has become almost a  
children's classic

Swift embodied subjectivity

Only a pious Anglican?

He suffered for much of his life from an intensely  
painful illness which fostered his misanthropy

But he was treated by the objective critics as a  
madman

They saw it as impossible for him to create  
un-Christian, devil-like people

But we, people with reason, can be absolutely  
bestial (in war, in politics)

Surely rational people do not do that?

Swift was not driven mad by his disease, only  
could not remember how to speak

He suffered from a deep melancholia

How did it affect his vision, a man from the  
age of Greece?

He hated the Yahoos which he created

But how do you criticize this objectively?

(Gulliver is taken for a Yahoo, becomes a Yahoo)

How do you teach this book?

The human being is capable of a perversion of  
reason as is Swift's view of man (as Gulliver)

A reasoning man capable of such enormities

Creature, reason, enormities, corruption,  
brutality where corruption is worse than brutality

Corruption is Gulliver, brutality is the Yahoo

The vision of Milton and Swift was fantastic,

and why do we reject them?

We do not reject their vision if we look at them  
subjectively

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#### O) Phenomenology (and Literature)

by Dr. Roger Poole.

Much of this talk is difficult. Considerable help comes  
from Dr. Poole's book 'Towards Deep Subjectivity' in  
understanding what he has to say. (Published by Allen  
Lane, The Penguin Press)

Subjectivity comes out of phenomenology

Dealing with the totality of phenomena

The things of the mind given unquestionably in  
mental experience

Started with idealism and positivism (see Charles  
Merrifield)

Links up with Berkeley

Psychology was monopolized by the object,  
phenomenology concerned with the thinking subject.  
Husserl's investigation into the problem of meaning  
out of mathematics

The importance of 'intentionality' which confers  
meaning

Intentionality was a new moment in thinking

The act of knowing was more important than the  
actual knowing

Rejection of Behaviourist Psychology and psychologism

It was a new scrutiny of the world

The creative side of perception

An act of intelligence which seeks for meaning

The essence of thought

Heidegger followed up Husserl with his 'Dasein',  
a kind of anthropology

Phenomenology moved to France with Merleau-Ponty  
and Sartre (existentialism)

Sartre's 'Being and Nothingness' - intentionality

To project our creative view over the world

To move to literature as in Sylvia Plath in her poem.

'Who' (phenomenology)

Subjective method works from inside not from outside  
as is vital for the understanding of Sylvia Plath's  
poetry

You see the method in David Holbrook's 'English  
in Australia Now.'

As in Peter Lomas's psychotherapy which is an  
interpersonal experience

The rejection of quantification

Towards the 'subjective objections to objectivity'  
(in Poole's book 'Towards Deep Subjectivity'.)

Phenomenology still not adequately historically  
treated

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(George Steiner is also close to the ideas behind  
Roger Poole's thinking in his talks M) and O). See  
'In Bluebeard's Castle' published by Faber.)

P) Social and Educational Philosophies. Some Curriculum Implications.

By Professor Charles Merrifield of  
California State University.

Will the Curriculum survive the seventies?

An examination-dominated curriculum, traditional classical subject matter, skill-centred, mores-reinforcing

No use as it stands at present

It is institutionalized and regurgitating; traditional

The problems of society must be faced up to:

literacy, poverty, brain-damage to young children, unemployment, the technology of force - the problems, in fact, of survival

Can the curriculum show relevance to these problems?

What has made our present curriculum?

Perhaps by: a) Theory of reality

b) Theory of human nature

c) Organization of social bond

d) Nature of progress

e) 'Who am I?'

f) (Greek culture)

g) Theory of value

Reality? a) Idealism - outside of man, essence of ideas

We cannot grasp reality, how do we reach this kind of truth?

Intuition; revelation? Through the Bible, Koran, etc.?

b) Unequal capabilities affect our status

Human nature unequal (the élite)

The exercise of sovereignty, the doctrine of freewill, but you must be controlled

Schools of philosophy: Idealists, Plato, St. Augustine, Dante, Calvin, Hegel, Kant, Emerson, Niebuhr

Positivists, Thucydides, Locke, Hume, Hobbes, Descartes

Reality is created by men for the Idealists and Positivists

Knowledge is created out of human experience

Subject-matter to make the knowledge to  
make experience

Competitive world produces the people of power  
The best people are those who win

We have equal ability to become unequal

What is success?

Plutocracy is control and manipulation

Conceptualism is new: William James, etc.

said that 90% of person's life is habitual (only  
a small percentage is when he is making sensible  
choices)

Involvement of the individual is interaction

Then the evaluation which means ideas which  
are proved up till now

Principles are not laws

Principles can change

There is a confusion nowadays between the  
biological and the social

Conceptualist says we are not born with traits

We all learn our behaviour

Culture is the way we do things

We need an enlargement of the range of  
options = freedom

There must be a constant re-construction of our  
society

Creative intelligence, challenging what now exists

There is something other than authority

We need a curriculum using biological and  
cultural theories

What is living?

a) Procreation

b) Replenishment of function

c) Policy-making and administration

d) Communication - pointing directions, signalling  
intentions

e) Social and Educational Function

f) (Propaganda seeks to narrow choices)

g) Function of psychic support (morale)

h) Technological problem-solving

A curriculum for mankind which is very much alive

A curriculum for true international citizenship

(the likeness of all mankind)

Much of what we are now teaching when re-constructed

in a functional form could be used in a  
different perspective  
(Idealist - Holbrook; Positivist - Cooley)

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Q) School Organization

by Mrs. Joan Dean, Chief Inspector of Schools,  
Surrey.

Every school must do what is right for itself  
What things are reasonably constant in our society?

- a) Process of adaptation to environment does not change much
- b) The self-image of the school
- c) The need for social conscience is constant
- d) Growth of knowledge
- e) Attitude-formation

(Mass media and advertising much better at attitude-formation)

You need study-skills to form a framework.  
Start looking at concepts and evidence at various stages

We must face up to variables and not just to constants

What about the hidden curriculum? Children learning what they do not get taught

What is the educated man?

- a) He has maturity and balance
- b) He can cope with major changes
- c) He is aware of the meaning of life
- d) He has a realistic image of himself
- e) He is independent
- f) Enjoys learning
- g) He can collect, classify, order, synthesize and generalize
- h) He is creative enough to deal with new ideas
- i) He has powers of communication
- j) He is interested in the arts and in craftsmanship
- k) He likes to live with and be sensitive to others

The curriculum is the whole way of life of the school

Personality training more important than learning facts

The importance of interaction with other people

School must look out towards the community

Learning from models

There is also communication by movement (Moving around in different cultures may mean not picking up all the clues)

There is also communication by charts and symbols

The process of learning and experience

Language is to be attached to first-hand experience

Basic ideas of exploration of the world

Building up a framework of basic ideas

Teacher is giving the child pre-digested material, nowadays it is a question of the restructuring of the material by the child

You must teach things which are transferable

Motivation must be discussed by teachers: expectation, co-operation, praise, etc.

a) Problems produce motivation

(You must move from problem to problem)

b) Creative behaviour is motivating

c) So is self-correcting material

d) Being the agent of one's own learning - independent of teacher

e) Novelty is motivating (e.g. Audio-Visual equipment)

f) Also resolving a conflict

Remember that formal teaching is appropriate at the right times

Discovery learning a) Closed problem solving

b) Open-ended problem solving

For some children individual learning is better e.g. in mathematics and in reading

We do not use enough groups or pairs learning.

Practice often gets left out these days, each child needs his own practice sessions

If six or less are in a group everybody has a chance to contribute

Size of groups is important

Composition of groups: we are far too  
age-group conscious

Ability grouping is clearly understood by  
children

And ability grouping is essential for some  
subjects - mathematics and reading

There should be training for discussion

Beware of team teaching hazards

And of 'soft options' in the afternoon and  
waste of idle material and equipment

It must be possible for children to have  
different amounts of time on a task

'Chunks' of time must be available

Children must be trained to use time according  
to their attitudes

And to work at their own time-needs

Teaching a correct use of time

How much can the child do without the teacher?

How much is the child dependent on the teacher?

Is it professional for the teacher to do things  
that somebody else can do?

There should be a true involvement of the teacher  
and an opportunity for decision-making

(Team teaching has produced joint problem solving)

There should be time for staff development

(in-service training)

If you want to evaluate you must know what you  
are doing

You must also explain to children why teachers  
do what they do

Get children to evaluate their own work

The teacher: what is professional about him?

He or she must have commitment and a kind of  
detachment (like a doctor)

Homework: children should collect information  
from outside school during homework time

## R) The Teaching of Reading

by Mrs. Jean Dean

Social terms of language

Language which you learn in schools

Teachers should have their own subject register

The reading environment: how good is it?

- a) Are there things that children want to talk about?
- b) How much do children use the language?
- c) To what extent do teachers work positively to help children to improve their vocabulary?
- d) How well do children talk?
- e) Is there a school language programme?
- f) What proportion of the children are reading below their age-level?
- g) What records of reading are kept?
- h) What action is taken with children who have difficulty?

The bridge between spoken and written word must be established

Breakthrough to literacy scheme: you start off with what the child himself uses

He learns from the words of his own language

Correcting the patterns of children's mistakes

Why do you learn to read? Ask this question of the child

A comprehensive language programme is needed by a school

(Children who do not learn to read by the age of eight are in danger)

Here is a check-list:

- a) Language of instruction
- b) 100 key-words to literacy
- c) Handwriting skills (they affect reading)
- d) Upper and lower cases
- e) What do children really do when they read aloud to teacher?
- f) Sonic knowledge

Left-handed writing has to be dealt with by somebody who is left-handed

Self-correcting materials very useful for reading problems

"Death closes all: but something ere the end,  
some work of noble note, may yet be done, not  
unbecoming men who strove with Gods."

Lord Tennyson.

S) Proposal for a New College: A Radical  
Alternative for Teacher Education

by Mr. Graham Carey of Bingley  
College of Education, Yorkshire.

It is the question of the art of living together  
As a simple community, with a philosophy, with  
work to do which is both physical and academic  
The therapeutic effect of such a college  
As, for example, Black Mountain College, Ruskin  
College and the Bauhaus (Gropius)

It is a fight against barbarism.

It is bringing people together to communicate

Work provided to enable people to live together

To be in charge of our environment

It is necessary, too, to have a clear outline  
of authority

What makes a community?

At the moment physical work is done for us  
by somebody else

A residential life is needed for this kind of  
college

The importance of shared responsibility

The present system of colleges of education  
is too negative

Teachers in training must be exposed to criticism

a) Sharing of work

b) Sharing of responsibility

c) Sharing of a family experience

A system of interdependence

(a similar experience occurred in the building  
of the International School of Geneva's 'Greek  
Theatre' by students and their teachers.)

Democratic principles will evolve out of the  
work carried out

There is the extreme importance of academic

work taking place at the same time  
There is the treasure of the craftsman  
Learning the correct use of time  
Time must be continuous, undisturbed and  
of long duration  
Feeling and intellect are interdependent  
It is the idea of the 'whole man'  
It has, of course, been done in religious  
communities.

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A talk was also given at the Workshop by Mr. Nick Carter on the building of a primary school in the nineteen-seventies, which happened to be the same building as housed the Workshop. Mr. Carter is headmaster of this primary school and was able to outline to the participants how such a school is constructed when an architect is willing to consult with teachers and parents as the building rises upwards from the site and when, at a later date, feed-back comes from the children who use the new premises.

Mr. Peter Gras, Librarian of the International School of Geneva, spoke about his library which is situated in an eighteenth century property. He let his theme of 'School Libraries and Culture' grow out of an environment first inhabited by Voltaire. Culture was the respect for history, scholarship, the arts, and our fellow human beings.

Mr. Michael Knight, Head of the Audio-Visual Department of the International School, drew the attention of participants to what is now available to teachers in the way of audio-visual equipment. (What is available is indicated in the annexes of this report.) He stressed very clearly that such equipment is never, under any circumstances, to be regarded as a substitute for traditional teaching, only as an aid to larger effectiveness on the part of the teacher whose use of the traditional 'blackboard' at present is nothing short of slovenly and quite without value. In some ways Mr. Knight's talk linked up with the attitude expressed on a much larger scale by Professor Cooley in his theme of the need for greater efficiency in setting in motion the learning process.

## Discussion Groups.

Although time was provided by each speaker at the end of his talk for questions and discussion, and this was seized upon with much enthusiasm by participants, discussion groups also met at other times either to follow up the talks or to branch out on to new teaching interests. Among the most important of these discussion groups, at which the main speakers were nearly always present and which were reported and issued to all participants, were the following:

Social Anthropology  
World Literature (especially in relation to the International Baccalaureate)  
English as a Second Language  
The Teaching of Mathematics  
The Theory of Knowledge Course in the International Baccalaureate  
Trends in Science Teaching  
History (particularly in the IB)  
Individualized Instruction  
Psychotherapy  
Objectivity and Subjectivity  
Children's writing  
The International Baccalaureate  
The Teaching of Reading  
Educational Philosophies

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## Annexes to Report.

Among the annexes are included:

Working and other bibliographies by William Cooley, Joan Dean, David Holbrook and Peter Lomas

Audio-Visual Methods of Teaching - Books and Sources

A Special Additional Report on the talks by Professor Cooley, and Commercially Available Curricula from the Learning Research and Development Center, University of Pittsburgh

A Report on the Workshop sent to the 'Times Educational Supplement'  
by Geneva correspondents, Lynne Armstrong and Russell Hay

Acknowledgements

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## ANNEXES

### Publications by W. W. Cooley

- Cooley, W. W. The application of a developmental rationale and methods of multivariate analysis to the study of potential scientists. Unpublished doctoral dissertation, Harvard University, 1958.
- Cooley, W. W. Attributes of potential scientists. Harvard Educational Review, 1958, 28(1), 1-18.
- Cooley, W. W. Identifying potential scientists: A multivariate approach. School Science and Mathematics, May 1959, 381-396.
- Cooley, W. W. National welfare and scientific education. In J. S. Roucek (Ed.), The challenge of science education. New York: Philosophical Library, 1959. Pp. ~~41-53~~
- Watson, F. G., & Cooley, W. W. Needed research in science education. In Rethinking science education, Fifty-ninth yearbook of the National Society for the Study of Education, Part I. Chicago: NSSE, 1960, Pp. 297-312.
- Cooley, W. W. Challenges to the improvement of science education research. Science Education, 1961, 45(5), 383-387.
- Cooley, W. W. Research methodology and modern data processing. Harvard Educational Review, 1961, 31(3), 257-263.
- Cooley, W. W., & Bassett, R. D. Evaluating innovation. Harvard Graduate School of Education Alumni Bulletin, Summer 1961, 11-15.
- Cooley, W. W., & Bassett, R. D. Evaluation and follow-up study of a summer science and mathematics program for talented secondary school students. Science Education, 1961, 45(3), 209-216.
- Cooley, W. W., & Klopfer, L. E. Test on Understanding Science. Princeton: Educational Testing Service, 1961.
- Cooley, W. W., & Reed, H. B., Jr. The measurement of science interests: An operational and multidimensional approach. Science Education, 1961, 45(4), 320-326.
- Cooley, W. W., & Lohnes, P. R. Multivariate procedures for the behavioral sciences. New York: Wiley, 1962.
- Cooley, W. W. Predicting choice of a career in scientific research. Personnel and Guidance Journal, 1963, 42(1), 21-28.

Cooley, W. W., & Klopfer, L. E. The evaluation of specific educational innovations. Journal of Research in Science Teaching, 1963, 1, 73-80.

Klopfer, L. E., & Cooley, W. W. The history of science cases for high schools in the development of student understanding of science and scientists. Journal of Research in Science Teaching, 1963, 1, 33-47.

Cooley, W. W. A computer-measurement system for guidance. Harvard Educational Review, 1964, 34(4), 559-572.

Cooley, W. W. The potential scientist pool. Journal of Research in Science Teaching, 1964, 2(1), 24-32.

Cooley, W. W. Research frontier--Current research on the career development of scientists. Journal of Counseling Psychology, 1964, 2(1), 88-93.

Cooley, W. W., & Jones, K. J. Computer systems for multivariate statistical analysis. Educational and Psychological Measurement, 1964, 24(3), 645-653.

Cooley, W. W. The classification of career plans. In Proceedings of the 73rd Annual Convention of the American Psychological Association. Washington, D. C.: APA, 1965. Pp. 361-362.

Cooley, W. W. Further relationships with the TALENT battery. Personnel and Guidance Journal, 1965, 44(3), 295-303.

Cooley, W. W. The Project TALENT data bank. Journal of Educational Measurement, 1965, 2(2), 134-138.

Cooley, W. W. Project TALENT implications for science education. Journal of Research in Science Teaching, 1965, 3(3), 211-215.

Cooley, W. W., & Miller, J. D. The Project TALENT tests as a national standard. Personnel and Guidance Journal, 1965, 43(10), 1038-1044.

Lee, E. C., & Cooley, W. W. Career development of science teachers: A cooperative study with Project TALENT. Journal of Research in Science Teaching, 1965, 3(4), 300-306.

Cooley, W. W., & Becker, S. J. The junior college student. Personnel and Guidance Journal, 1966, 44(5), 464-469.

Flanagan, J. C., & Cooley, W. W. Project TALENT one-year follow-up studies. Pittsburgh: Project TALENT Office, University of Pittsburgh, 1966.

Cooley, W. W. Interactions among interests, abilities, and career plans. Journal of Applied Psychology Monograph, 1967, 51(5, Whole No. 640), 1-16.

Combs, J., & Cooley, W. W. Dropouts: In high school and after high school. American Educational Research Journal, 1968, 5(3), 343-363.

Cooley, W. W., & Glaser, R. An information and management system for individually prescribed instruction. Pittsburgh: Learning Research and Development Center, 1968. (Working Paper 44)

Cooley, W. W., & Lohnes, P. R. Predicting development of young adults. Palo Alto: American Institutes for Research, 1968.

Lohnes, P. R., & Cooley, W. W. Introduction to statistical procedures: with computer exercises. New York: Wiley, 1968.

Cooley, W. W. Computer-assisted instruction in statistics. In R. C. Milton and J. A. Nelder (Eds.), Statistical computation. New York: Academic Press, 1969. Pp. 337-347.

Cooley, W. W. Computer systems for guidance. In Computer-based vocational guidance systems. Washington, D. C.: United States Government Printing Office, 1969. Pp. 61-71. (Paper presented at the Fourth Symposium for Systems Under Development for Vocational Guidance)

Cooley, W. W. Data processing and computing. In R. L. Ebel (Ed.), Encyclopedia of educational research. (4th ed.) Toronto: Macmillan, 1969. Pp. 283-291.

Cooley, W. W., & Glaser, R. The computer and individualized instruction. Science, 1969, 166, 574-582. (Also, LRDC Reprint 53)

Cooley, W. W., & Hummel, R. C. Systems approaches in guidance. Review of Educational Research, 1969, 39(2), 251-262. (Also, LRDC Reprint 47)

Cooley, W. W. Computer assistance for individualized education. Journal of Educational Data Processing. 1970, 7, 18-28. (Also, LRDC Reprint 57)

Cooley, W. W. Computer-managed instruction. In L. C. Deighton (Ed.), The encyclopedia of education. New York: Macmillan, 1971. Pp. 400-404.

Cooley, W. W. Methods of evaluating school innovations. Pittsburgh: Learning Research and Development Center, 1971. (Publication 1971/26)

Cooley, W. W. Techniques for considering multiple measurements. In R. L. Thorndike (ed.), Educational measurement, (2nd ed.) Washington, D. C.: American Council on Education, 1971. Pp. 601-622. (Also, LRDC Publication 1971/15)

Cooley, W. W., & Lohnes, P. R. Multivariate data analysis. New York: Wiley, 1971.

Cooley, W. W. Evaluation in a research and development context. Pittsburgh: Learning Research and Development Center, 1973. (Publication 1973/17)

Glaser, R., & Cooley, W. W. Instrumentation for teaching and instructional management. In R. M. W. Travers (Ed.), Second handbook of research on teaching. Chicago: Rand McNally, 1973. Pp. 832-857.

Cooley, W. W. Assessment of educational effects. Educational Psychologist, 1974, 11(1), 29-35.

Cooley, W. W. Methods of evaluating school innovations. In H. Poyner (Ed.), Problems & potentials of educational r&d evaluation. Austin, Texas: Educational Systems Associates, 1974. Pp. 37-61.

Cooley, W. W., & Leinhardt, G. Evaluating individualized education in elementary school. In P. O. Davidson, F. W. Clark, and L. A. Hamerlynck (Eds.), Evaluation of behavioral programs in community, residential and school settings. Champaign, Illinois: Research Press, 1974. (Also, LRDC Publication 1974/14)

Cooley, W. W., & Lohnes, P. R. Evaluative inquiry in education, in preparation.

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#### Books by Joan Dean

##### 1. Room to Learn Series

Four books at present published:

Working Space

Language Areas

A place to paint

Display

One further book is in the press:

Room Outside

pub. by: Evans (Books) Ltd.,  
Montague House,  
Russell Square,  
London, WC1B 5BX

One more is in preparation:  
Storage

and Citation Press,  
New York.

2. Framework for Reading - Evans L 2. 80

Joan Dean and Ruth Nichols

3. British Primary Schools Today Series

This series is the outcome of a joint project between the British Schools' Council and the Ford Foundation, and is published by Macmillan, Basingstoke, England., and Citation Press, New York.

The whole series covers many aspects of primary education. My own book in this series is called "Recording Children's Progress".

4. Exploring your World

This is a series on environmental studies which is conceptually based. It is published by Holmes, McDougall Ltd., Allander House, Leith Walk, Edinburgh, Scotland.

There are 66 books in the series, which is planned in 13 units, each of which contains books to cater for children with a reading ability from about 8-12 years. 20 books in the series are now published.

5. Reading, Writing and Talking

Published by A and C Black Ltd.,  
4 - 6 Soho Square,  
London.

This book was not on show at the Conference, but gives a general account of one teaching language skills.

6. Art and Craft in the Primary School

A and C Black.

7. Religious Education for children

Ward Lock,  
Baker Street,  
London

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Changing Attitudes to the Nature of Man - A working bibliography  
by David Holbrook, with addenda by Masud Khan, Andrew Brick and  
David Boadella.

This is a working bibliography for students and others interested in developments in subjective disciplines: psychoanalysis, existentialism, philosophical biology, philosophical anthropology and other spheres in which thinkers are radically challenging predominant attitudes to human nature, culture and society.

The compiler is grateful to Masud Khan, David Boadella, Roger Poole and others for help.

This booklist is intended to help the reader find his way into the revolution of thought discussed by Marjorie Grene in her book The Knower and the Known. Professor Grene herself owes a debt to Michael Polanyi, the chemist turned philosopher. And his work in turn lies behind that of several writers who have sought to emphasise the need to pay attention to man's inward life and being, against the impress of 'objectivity' and reductionism \_\_\_\_\_ F.R. Leavis, Roger Poole, Theodore Roszak, and E.K. Ledermann. All these writers are seeking to restore vision and creativity to man. But there are no short cuts to this restoration: as Marjorie Grene says, the escape from established ways of thinking about man and nature will be 'slow and difficult': it requires a radical re-examination of the Newtonian-Galilean and Cartesian traditions, and involves us in 'conceptual reform'.

It thus requires no dropping-out, or taking of trips \_\_\_\_\_ no mere lapse into 'dissolutions', subversiveness, or 'self-expression' \_\_\_\_\_ but rather application to a daunting amount of relevant and exacting thought which we must try to grasp, urgently. The urgency is enhanced by the fact that the new views of man which are emerging from philosophical anthropology contrast strikingly with the views of man at present manifest in popular thought, and in our literary culture, film, 'pop' conditioning, avant-garde theory, and the areas of political protest and 'underground' culture. There, the 'naked ape' model is rampant, while man's make-up is still conceived in mechanistic terms, as if he were determined by 'real' primary impulses (of sex and aggression) and only unwillingly civilised. This model omits 'intentionality' creative choice, and vision \_\_\_\_\_ and the urgency arises because of a deepening crisis, in which 'without vision the people perish'.

There are various possible starting points:

HODGKIN, R. A. Reconnaissance on an Educational Frontier, OUP 1970

Mr. Hodgkin's Bibliography is especially useful.

POOLE, Roger. Towards Deep Subjectivity, Allen Lane, 1972

Chapter 4 is an attempt to spell out the immediate urgency of Husserl's philosophy; see below. Another attempt from the area of those seeking an 'alternative' culture is:

ROSAK, Theodore. Where the Wasteland Ends, Faber, 1973

Perhaps the best start is to shake up one's ideas of what science is, about how one knows, and what knowing is, in a systematic study of the 'objective' tradition:

GRENE, Marjorie. The Knower and the Known, Faber, 1966

This book takes one naturally into the discussions by Michael Polanyi of the "tacit" elements in knowing - which are those too often left out of account (as, for instance, by behaviorists).

POLANYI, Michael. The Tacit Dimension, Routledge, 1967

POLANYI, Michael. Personal Knowledge, Routledge, 1958

By now a number of further questions offer themselves for pursuit. First there is the question of the nature of science. Once one accepts the argument that science can be nothing other than "persons knowing", then science is a great act of faith. This is discussed in

POLANYI, Michael. Science, Faith and Society, University of Chicago Press, 1969

Related problems are also discussed in these distinguished books, too long neglected:

MACMURRAY, John. The Self as Agent, Faber, 1957

MACMURRAY, John. Reason and Emotion, Faber 1935

Having explored the problems of how knowledge is only established by persons experiencing their world, considerable problems are raised

of how we know. Of course, this has been the preoccupation of philosophers since philosophy began; but as Marjorie Grene indicates, significant questions asked in Plato's Meno have never been answered: "How can we ask for something if we do not so much as know what that something is? How can knowledge come of ignorance? How can we know the unknown, describe as our goal what is, as yet, undescrivable?"

The investigations of "whole persons" knowing a "life world" takes us in a number of directions. First, there is an especial development in thought about the observation of living things - in the philosophy of biology. Secondly, there are developments in thought about looking at man. And thirdly, since it is impossible to look at man without taking the problems of consciousness and meaning into account, there are developments in thinking about sign, meaning and symbolism. In these spheres of thought, we encounter the phenomenologists, the existentialist philosophers, and psycho-analysis.

First, then the philosophy of biology. A key work in the new thinking here is

GRENE, Marjorie. Approaches to a Philosophical Biology, Basic Books U.S.A., 1965

This book discusses the work of a number of philosophers of biology in Europe: Adolf Portman, Helmuth Plessner, F.J.J. Buytendijk, Erwin W. Strauss, and Kurt Goldstein. Themes discussed are the ways in which we observe animal behavior and make deductions from it; the special nature of living things; levels of being; the limitations of the Galilean approach to reality; the inward, self-directedness of living creatures and the "something like consciousness" in them; the special nature of consciousness in man and the existential problems that arise from this; the inherent cultural nature of man and the responsibilities and potentialities this involves; the nature of play; the origins of perception, and the sense of identity in the infant; the ethical nature of man, and many other themes closely related to problems of culture and education. Perhaps the two most relevant themes are the exposure of the fallacies of "conditioned reflex" (Pavlovian) thinking and the approaches of the Behaviourists (though this is extremely difficult to follow); and the discussion of the differences between the two main streams of existentialism. That is, the Heidegger-Sartre stream on the one hand which is a philosophy concerned with the "lonely individual, thrown into a threatening world, free to make the world his own, yet never succeeding, falling forever

tragically short of the world creation and self-creation at which he aims ..... a philosophy of isolation, alienation and despair". And there is the stream on the other which finds capacities in man to overcome his "nothingness" by love and creativity. Marjorie Grene traces this from the influence of Binswanger, who, she says "simply takes Heideggerian being-in-the-world, the very essence of which demands arrogance and hatred as the road from me to thee, and injects into it, with sublime incompatibility, a generous dose of love". The latter stream of existentialism is developed in Europe by Buytendijk and Erwin W. Straus; in America by Rollo May; in England by Roger Poole, E.K. Ledermann, and Peter Lomas, in their various ways. Important here are

STRAUS, W. W. Phenomenological Psychology, Basic Books, 1966

O'CONNOR, D. & LAWRENCE, N. eds. Readings in Existential Phenomenology, Prentice Hall, 1967

"Husserl's Phenomenology and its significance for Contemporary Psychology" on Buytendijk.

The existentialist stream which can find love and "meeting" (or creative reflection between persons) also runs from Husserl in Europe and Martin Buber in U.S.A. A significant figure in European thought is the late opponent to Sartre, Maurice Merleau-Ponty.

MERLEAU-PONTY. The Phenomenology of Perception, Routledge, 1966

Merleau-Ponty is a much more serious philosopher than Sartre, and may well prove more important in the end, despite Sartre's literary influence and his present predominance. But he is extremely difficult to read, and is perhaps best understood through Marjorie Grene's use of him, and the convergence between his thought and Polanyi's.

Before we leave the philosophy of biology behind, however, we need to note that some serious observation of animal behavior goes on in a very different spirit from either the popular misinterpretations made by writers like Robert Ardrey or the absurdities of the "skinner cage" behaviourists. This is not only to point to the genuine work of K. LORENZ, and even the work of Desmond Morris on animals (what is false is his extrapolation of findings there to philosophical anthropology which are a kind of poor poetry or facile speculation); but to other observers who approach animal behavior in a quite different spirit:

- TAYLOR, C. The Exploration of Behaviour; Kegan Paul, 1969
- \*THORPE, W. H. Learning and Instinct in Animals, Methuen, 1956
- THORPE, W. H. "Ethology and Consciousness", chapter 19 of Brain and Conscious Experience, ed. J.C. ECCLES, Springer Verlag, U.S.A., 1966
- THORPE, W. H. The Uniqueness of Man, ed. Roslansky, North Holland, Amsterdam, 1969
- PORTMANN, Adolf. Animals as Social Beings, Utilunson, 1961
- PORTMANN, Adolf. Animal Camouflage, Ann Arbor, 1959
- LORENZ, K. King Solomon's Ring, Methuen, 1964
- LORENZ, K. On Aggression, Methuen, 1966

See also:

- PORTMANN, Adolf. New Paths in Biology, Harper and Row, 1961
- DOBZHANSKY, T. The Biological Basis of Human Freedom, Columbia, 1956
- The Biology of Ultimate Concern, Rapp, 1971
- PANTIN, C.F.A. Science and Education, Cardiff, 1963
- TOWERS, Bernard, and LEWIS, John. Naked Ape - or Homo Sapiens? Garnstone 1969

It seems a great shame that Buytendijk is largely untranslated, as he makes devastating demolition of analytical methods in the approach to the exploration of behaviour. The same is true of Von Weizsäcker's Gestaltkreis. We should perhaps reflect on the predominance in English thought in this area of behaviourist theories and theories derived from experimental psychology (as in Penguin paper backs) when a whole range of works offering devastating criticism of these approaches remain untranslated and unavailable. Marjorie Grene gives an excellent account in her Approaches however, and this is at least a start.

Philosophical biology impinges of course on philosophy proper - not least in the rejection of Cartesian dualism. We should perhaps study

RYLE, G. The Concept of Mind, (Hutchinson, 1949)

This contains the famous "ghost in the machine" discussion, a contemporary philosopher's case against dualism. See also chapter VI on "self-knowledge".

Marjorie Grene, however, suggests that it is possible to get yet deeper into such problems. She refuses, as Austin, Ryle and others habitually do, 'laboriously to approach a philosophical problem, only to turn one's back on it when it comes plainly into view .....'  
Approaches, p. 166.

So, we need to explore the problem of the rejection of dualism more deeply.

POLANYI, Michael. Knowing and Being, Routledge, 1969

SPICKER, Stuart, F. The Philosophy of the Body, Chicago, 1970

BUYTENDIJK, F.J.J. Pain: Its Modes and Functions, Chicago, 1943

BUYTENDIJK, F.J.J. "The Body in Existential Psychology", Review of Existential Psychology and Psychiatry, Vol. 1, No. 2 (1961)

JONAS, Hans. The Phenomenon of Life: Toward a Philosophical Biology, Harper and Row, 1966

BINSWANGER, Ludwig. Being-in-the-world: selected papers, ed. Jacob Needleman. Basic Books, 1963

PLESSNER, Helmuth. Laughing and crying, Northwestern, 1970

That man exists, thinks, feels and seeks meaning in a body that has a history, and is indivisible from a "psychic tissue" and a "formative principle" in his creative existence is a theme of recent psycho-analytical thought. Here we may distinguish between "object-relations" schools, which explore the origins of identity in being "creatively reflected" by the mother, and see the "ultimate goal of the libido" not as pleasure, but as "the object" - the "significant other" (to use a term from Euber) in love; and the existentialist schools, which find the primary need in man not to be the will-to-power, but the will-to-

meaning. These are not conflicting schools, but complementary - though they do imply a rejection of much in Freud (his metapsychology, his psychic determinism, his social pessimism, his insistence on sexuality, and his death instinct dogma).

FREUD, S. The Future of an Illusion, Hogarth, 1926

A fundamental criticism of Freud was made by

SUTTIE, Ian D. The origins of love and hate, Penguin, 1935

See also:

RIEFF, P. Freud - The Mind of the Moralizer, Gollancz, 1960

The most valuable findings of Freudian psychoanalysis, as they have influenced thought about child care, are found in such books as

BOWLBY, John. Child care and the growth of love, Penguin, 1953

CHALONER, Len. Feeling and Perception in Young Children, Tavistock, 1963.

ERIKSON, Erik. Childhood and Society, Penguin, 1965

It is important to try to group some of the significant revisions made by later thinkers, notably by Melanie Klein:

KLEIN, Melanie. The Psychoanalysis of Childhood, Hogarth, 1932

Contributions to Psychoanalysis, Hogarth, 1948

Developments in Psychoanalysis, Hogarth, 1952

New Directions in Psychoanalysis, Tavistock, 1955

Envy and Gratitude, Tavistock, 1957

Our Adult Society and its Roots in Childhood, 1963

A useful exploration of the relevance of psychoanalysis to thinking about man in society was the early work by

KLEIN, Melanie and RIVIERE, Joan. Love, Hate, and Reparation, Hogarth, 1938

For an account of Melanie Klein's contribution see

SEGAL, Hannah. Introduction to the work of Melanie Klein, Tavistock, 1964

The Kleinians tend to be somewhat orthodox, and inflexible; one of their fundamental principles is a belief in the death instinct and a kind of psychic entropy. For a detailed critique of this legacy from Freud see GUNTRIP'S Personality Structure mentioned above and my own attempt to summarise these theories:

HOLBROOK, David. Human, Hope and the Death Instinct, Pergamon, 1971

Other writers on psychoanalysis belonging to the English schools are:

BALINT, Michael. Primary Love and Psychoanalytical Technique, Hogarth, 1952

The account of the nature of love and hate in this study is most valuable.

FAIRBAIRN, W.R.D. Psychoanalytical Studies of the Personality, Tavistock, 1952

This contains a classical account of the nature and origins of schizoid states, and the moral inversions that arises from these - an analysis of great importance for culture and philosophy.

GUNTRIP, Harry. Schizoid Phenomena, Object, Relations and the Self, Hogarth, 1968

This employs Fairbairn's approach and model of human nature to draw attention to the schizoid problem of identity that underlies all other problems. The book gives an excellent account of some important recent work by Winnicott, and a most useful historical summary of the development of psychoanalytical thought.

One of the most significant figures in British Psychoanalysis was the late D.W. Winnicott, whose books take the problem into the heart of the earliest infant-mother relationship, and the origins there of identity, the capacity to perceive, and of culture - which, in his theory, now becomes primary.

WINNICOTT, D.W. Collected Papers through Paediatrics to Psychoanalysis, Tavistock, 1958

The Child and the Outside World, Tavistock, 1957

The Child and the Family, Tavistock, 1957

The Family and Individual Development,  
Tavistock, 1965

The Maturation Processes and the Facilitating Environment, Hogarth, 1966

The Child, The Family and the Outside World,  
Penguin, 1964

"Mirror-role of Mother and Family" in The Predicament of the Family, ed. Lomas P., Hogarth, 1967

"Male and Female Elements to be found Clinically in Men and Women", discussed thoroughly in Guntrip, H. Schizoid Phenomena, q.v. Published as 'Creativity and its origins' in Playing and Reality, Tavistock, 1971.

Here I believe it would be useful to refer to the films produced by James Robertson and his wife on Young Children in Brief Separation (Tavistock Child Development Research Unit).

Other British (and some other) Psychoanalytical writings worth study in are:

HOME, H.J. The Concept of Mind, in Rycroft, C. (op.cit.)

BOADELLA, David. Wilhelm Reich, the Evolution of his Work. Vision Press, 1973

MON, W.R. Learning from Experiences. Hogarth, 1962

LOMAS, Peter. The Predicament of the Family, Hogarth, 1967

True and False Experience, Allen Lane, 1973

MILNER, Marion. On Not Being Able to Paint, Heineman, 1950

In the Hands of the Living God, Hogarth, 1969

MASLOW, Abraham. Towards a Psychology of Being, Van Nostrand Reinhold, 1968

MENNINGER, Karl. Man Against Himself, Harvest, 1938

JUNG, C.G. Contributions to an Analytical Psychology, Kegan Paul, 1928

Modern Man in Search of a Soul, Kegan Paul, 1933

WILHELM, R. The Secret of the Golden Flower, Routledge, 1931

WESTMAN, H. The Springs of Creativity, Kegan Paul, 1961

SUTHERLAND, J.D. Psychoanalysis and Contemporary Thought, 1958

KHAN, Masud, R., The Function of Intimacy and Acting Out in Perversions, in Sexual Behaviour and the Law, ed. Slovenko, Thomas, Illinois, U.S.A., 1968

Perversion and Alienation, 1973

Existentialist Psychoanalysis, in its links with phenomenology, is known in Britain through the work of R.D. Laing.

LAING, R.D. The Divided Self, Tavistock, 1961

The Self and Others, Tavistock, 1961

LAING, R.D. and ESTERSON, Aaron. Families of Schizophrenics, Vol. 1 of Sanity, Madness and the Family, Tavistock Press, 1964

This book is a piece of achieved praxis in the field of subjective method, and represents the best that Laing's approach, when applied, can produce. (This is quite independent of his cultural-theoretical position, which has yet to become clear). Lacking, however, are insights into the intrapsychic vulnerabilities which make some people foci of such confusion; see LOMAS, Peter, on Laing and Estheron in True and False Experience, Allen Lane, 1973.

Unfortunately, Laing has tied his own brand of existentialist thought to the tail end of French nihilism, and to Sartre's immoralism. In The Politics of Experience he urged an insurrectionary attitude to culture and society together with the desire to drive people "out of

their wretched minds", as if intelligence and civilized values were inimical to spiritual "release". Lurking beneath this approach, it would seem, is Freud's instinct theory, and the denial of two thousand years of created civilized values. The influence of David Cooper on Laing seems to have been disastrous. With Esterson Laing offered valuable insights into the families of schizophrenics. But although Laing had edited some valuable work by existentialists and phenomenological writers, he has not advanced the new subjective disciplines advantageously by his influence, as Rollo May has in America.

A more adequate form of existentialist psychoanalysis seems to be developing in America:

FARBER, Leslie H. The Ways of the Will, Constable, 1966

MAY, Rollo. Existence - A new Dimension in Psychiatry, New York, 1960

Love and Will. Souvenir Press, 1970

Another important writer on existentialist psychotherapy is the Professor of Psychiatry at the University of Vienna

FRANKL, Viktor. From Death camp to Existentialism, Beacon Press, Boston

Psychotherapy and Existentialism, Souvenir Press,

1970

The Doctor and the Soul, Souvenir Press, 1970

The latter contains some valuable essays on The Meaning of Life, the Meaning of Death, the Meaning of Work and the Meaning of Love. Frankl insists on the "spiritual" dimension of man (but points out that he uses his word only in its specifically human dimension). Valuable criticisms of Frankl's approaches, and of many others including Laing are made in

LEDERMANN, E.K. Existential neurosis, Butterworth, 1972

The following will be useful in understanding existentialism itself:

KOHL, Herbert. The Age of Complexity, Merton Books, U.S.A., 1965

Useful on Husserl, Biswanger, and Wittgenstein.

KAUFMANN, Walter ed, Existentialism from Dostoevsky to Sartre  
(Basic writings). Meridian Books, 1956

GRENE, Marjorie. Introduction to Existentialism, (originally  
published as Dreadful Freedom) Chicago, 1959

Valuable on some of the absurdities of Sartre: "Sartre's philosophy  
seems to feed on perverseness", she says.

A useful book on existentialism and its implications for education is:

KNELLER, George F. Existentialism and Education, John Wiley &  
Sons U.S.A., 1958

In his "critique" at the end Kneller points towards the need for some-  
thing more positive, and less hopeless - as is perhaps suggested by  
Rollo May's work and that of Marjorie Grene since.

MURDOCH, Iris. Sartre, Bowes and Bowes, 1958.

WARNOCK, Mary. Existentialist Ethics, MacMillan, 1967

BUBER, Martin. I and Thou, Edinburgh 1937

Between Man and Man, London 1947

SCHLIPP and FRIEDMAN. The Philosophy of Martin Buber,  
Cambridge, 1962.

For a wider study the following are relevant:

HEIDEGGER, Martin. Existence and Being, London, 1949

Being and Time, London, 1962

KIERKEGAARD, Soren. Concluding Unscientific Postscript,  
O.U.P., 1941

Philosophical Fragments, O.U.P., 1941

SARTRE, Jean-Paul. Existentialism and Humanism, London, 1948

Being and Nothingness, London, 1957

Nausea, London, 1962

Sketch for a Theory of the Emotions, London  
1962

ROUBICZEK, Paul. Existentialism, For and Against, Cambridge,  
1964

WARNOCK, M. The Philosophy of Sartre, London, 1965

RUGGIERO, Guido de. Existentialism, Seole, 1946

HUSSERL, Edmund. Works published in English are:  
Ideas, Allen and Unwin, 1931

Cartesian Meditations, The Hague, 1960

But to approach Husserl by these works is heavy and difficult. (The translation, 1931, of Ideas etc., doesn't help matters, as it was undertaken before his main ideas had been grasped in England: a better translation is Ricoeur's in French). Ideas (1931) and Cartesian Meditations (1929-31) are works standing at the two opposed ends of Husserl's career, and Roger Poole believes that much of what he advances in the latter is opposed, at least implicitly, to what he was advancing in Ideas.

The best book, the most easily comprehensible, the most relevant, the most absorbing, the least abstract, and the most culturally perceptive work of this philosopher is The Crisis of European Sciences and Transcendental Phenomenology, translated by David Carr, Northwestern University Press, 1970. In this, Husserl advances his view of the endemic sickness in our cultural-scientific-objective attitudes, traces them back to Galileo and Descartes, and sets out the philosophical task for today with brilliant elan and conviction.

There are one or two useful works on Husserl:

RICOEUR, Paul. Husserl, an Analysis of his Phenomenology, Northwestern University Press, 1967

Roger Poole has tried to spell out the immediate urgency of Husserl's case in Crisis in

POOLE, Roger. Towards deep subjectivity, (op. cit.), Chapter 4, Subjective objections to "objectivity", passim.

PIVCEVIC, Edo. Husserl and Phenomenology, Hutchinson, 1970

Is technically helpful. The main article in Sartre's phenomenological prise de position is his 1936 essay, available in paperback as

SARTRE, J.P. The transcendence of the Ego, Farrar, Straus and Giroux, 1957

In which he departs radically from Husserl and sets French phenomenology on its own independent path. The introduction of Merleau-Ponty's Phenomenology of Perception (op.cit.) is the follow-up to this (1945); what is phenomenology today? i.e. the question of what phenomenology was becoming, was still capable of, was still wide open to question in 1945.

GRENE, Marjorie. Martin Heidegger, Bowes and Bowes, 1957

VAN, DEN BERG, Jan H. The Phenomenological Approach to Psychiatry, Oxford, 1955

From existentialism and phenomenology we may turn to philosophers who have concerned themselves with problems of symbolism and meaning.

First there is Wittgenstein who said "meaning is use". Anyone with a tough enough appetite could tackle

WITTGENSTEIN, Ludwig. The Blue and Brown Books, Oxford, 1958

Philosophical Investigations, Oxford, 1958

MALCOLM, Norman. Ludwig Wittgenstein. A Memoir, O.U.P., 1958

WINCH, Peter, Ed. Studies in the Philosophy of Wittgenstein, Routledge, 1969

The link between the Wittgensteinian manner and psychoanalysis is perhaps made by:

WISDOM, John. Philosophy and Psychoanalysis, Oxford, 1952

The essay that most interests me in this book is the Review of C.H. Waddington's Ethics, on the location and existence of ethical values.

Since psychoanalysis has re-established culture and the problem of meaning as primary needs of man, one can see a link between object-relations and existentialist psychotherapy, and the post-Kantian philosophers who pursue the question, "what is man?".

CASSIRER, Ernst. Language and Myth, Dover Books, 1953

An Essay on Man, Yale, 1944

LANGER, Suzanne K. Philosophy in a New Key, a study in the symbolism of reason, rite and art, Harrad, 1957

Philosophical Sketches, O.U.P., 1962

Mind, an Essay on Human Feeling, Johns Hopkins, Baltimore, 1967

KUHN, T.S. The Structure of Scientific Revolution, University of Chicago Press, 1962

Other related books in various spheres are:

BURTT, Edwin A. The Search of Philosophical Understanding, Allen and Unwin, 1967

The Metaphysical Foundations of Modern Physical Science, Routledge, 1932

DE CHARDIN, Teilhard. The Phenomenon of Man, Harper, 1959

BROWN, Norman. Life against Death, Sphere Books, 1959

WILD, John. Existence and the world of Freedom, Prentice-Hall, 1963

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PHILOSOPHICAL ANTHROPOLOGY - A Booklist by David Holbrook.

Books mentioned in my lectures

CASSIRER, Ernst An Essay on Man, Yale 1944.

This is the book in which Cassier says natural science cannot give an adequate account of man and that he can be defined as the animal symbolicum.

MASLOW, Abraham. Towards a Psychology of Being, Vän Nostrard Reinhold, 1968

Defines the new kind of psychology based on a recognition of man's normal creativity and his higher strivings - and the moral implications.

MILNER, Marion. On not being able to Paint, Keinemann, 1950

Marion Milner was a scientist, sister of Lord Blackett, and this book records her discovery of the subjective realm. See also her remarks on the "formative principle" in: In the Hands of the Living God, Hogarth, 1969

POLANYI, Michael. The Tacit Dimension, Routledge, 1967

and Personal Knowledge, Routledge, 1958

Attempts by a scientist to investigate the subjective basis of all knowing, and how we "dwell in" the objects of our investigation and "subception" as the basis of knowledge.

See also:

GRENE, Marjorie. The Knower and the Known, Faber, 1966

Marjorie Grene has also investigated and presented the work of the newer kind of philosophical biologists in: Approaches to a Philosophical Biology, Basic Books, U.S.A., 1965 (on Adolf Portman, Helmuth Plessner, F.J.J. Buydendijk, Irwin W. Straus and Kurt Goldstein. Marjorie Grene also invokes the work of Merleau-Ponty and Ludwig Binswanger).

BINSWANGER, Ludwig. Being-in-the-World, Selected Papers, ed. Jacob Needleman, Basic Books, 1963

A good account of the historical background to Existentialist Psychotherapy, and of "Dasein" analysis is given in:

Existence - New Dimension in Psychiatry, ed. Rollo May and others, Basic Books, New York, 1960

A very readable existentialist psychotherapist is:

FRANKL, Victor, Professor of Psychiatry at Vienna,

From Death Camp to Existentialism,  
Beacon Press, Boston

The Doctor and the Soul, Souvenir Press, 1970  
and Penguin Books

See also:

MAY, Rollo. Love and Will, Souvenir, 1970

LEDERMANN, E.K. Existential Neurosis, Butterworth, 1972

GRENE, Marjorie. Introduction to Existentialism, Chicago, 1959

On values and "ethical living" see the review article on Waddington  
by:

WISDOM, John. Philosophy and Psychoanalysis, Oxford, 1952

See also:

LANGER, Susanne. Philosophy in a New Key, Harvard, 1957

Other Books and Papers

ROSZAK, Theodore. Where the Wasteland Ends, Faber, 1973

POOLE, Roger. Towards Deep Subjectivity, Allen Lane, 1972

THORPE, W.H. Coming Soon, Nature and Human Nature

TOWERS, Bernard, and LEWIS, John. Naked Ape or Homo Sapiens?  
Garnstone, 1969

MUMFORD, Lewis. The Myth of the Machine

WINNICOTT, D.W. Playing and Reality, Tavistock, 1972

LOMAS, Peter. True and False Experience, Alan Lane, 1973

ABBS, Peter (ed.) The Black Rainbow, Heinmann, 1970

Papers

ALLCHIN, W.H. Young People: Problems of adaptation to a fragmented Society

The Guild of Pastoral Psychology, Guild lecture no 157, Oct. 1970, 15p and 4/2p postage from 41 Redcliffe Gardens, London, S.W. 10

Life Transcending Physics and Chemistry.

POLANYI, Michael. Chemical and Engineering News, August 21, 1967, p. 54

Tract 10, The Politics of Education, 50 p from Gryphon Press, Brechfa Llanon, Aberystwyth, Wales.

Nuffield Lecture: Science and Man by Michael Polanyi

Proceedings of the Royal Society of Medicine. Vol 63 September 1970, page 969

For a characteristic phenomenological essay, see:

STRAUS, Erwin. A Historiological View of Shame in The Case against Pornography, ed. David Holbrook, Tom Stacey, 1973

See also:

DRURY, M. O'C. The Danger of Words, Routledge, 1973

HOLBROOK, David. The Masks of Hate, Pergamon, 1971

English in Australia Now, CUP 1972

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GUILD OF PSYCHOTHERAPISTS - A List of Books

We do not intend to provide a list of books which are required reading. The following constitutes a list of those books which some of us have found useful either because they are classical texts (as, for

instance, Freud's "The Interpretation of Dreams") or they expound ideas which in general, reflect those of the Guild, or they are readable and/or authoritative accounts of important viewpoints. They are books which, if and when we have a library of our own, we should like to see included. Some of the works on phenomenology make difficult reading and students may find them more useful if read in conjunction with Dr. John Heaton's seminars. Books which may be useful as introduction to various aspects of psychotherapy are marked by an asterisk. On the whole we have not included works of literature or poetry on the one hand or psychiatric books on the other, although we believe that these two areas (in their entirely different ways) are relevant to the practice of psychotherapy.

- ARENDDT, H.           The Human Condition. Doubleday Anchor
- BALINT, M., ORNSTEIN, P., BALINT, E. Focal Psychotherapy.  
Tavistock 1973
- BALINT, M.           The Basic Fault. Tavistock
- BATESON, G.         Steps to an Ecology of Mind. Paladin 1973.  
(A collection of essays, including the "Double  
Bind" theory)
- BOSS, M.            The Analysis of Dreams. (1956) Rider
- BOSS, M.            Psychoanalysis and Daseinanalysis. (1963)  
Basic Books
- \*BOWLBY, J.         Attachment and Loss, Vol. II (1973) Hogarth
- BRIERLEY, M.        Trends in Psychoanalysis. (1951), Hogarth  
(An acute appraisal of theory by a Freudian)
- BUBER, M.           I and Thou. T & T Clark
- BUBER, M.           The Knowledge of Man. Allen and Unwin  
(includes a discussion with Carl Rogers)
- BASTENEDA, C.      The Teachings of Don Juan. Penguin

Journey to Ixtlan. Bodley Head. These books constitute a very readable account of a Mexican Indian's initiation into "phenomenology".

- \*MILNERBERGER, H. The History of the Unconscious. 1970 Allen Lane Penguin Press
- BRINSON, E. Identity, Youth and Crisis. 1966. Faber  
Childhood and Society. Pelican
- FAIRDAIRN, W.R.D. Psychoanalytical Studies of the Personality. 1952 Tavistock
- \*FARBER, L. The Ways of the Will. Constable 1966
- \*FINE, R. Freud
- FORDHAM, Frieda. An Introduction to Jung's Psychology. Penguin
- FOUGAULT, M. Madness and Civilisation. 1967 Tavistock
- FREUD, S. Much, if not most, of Freud's writings are still relevant. We would recommend especially the Introductory Lectures, Papers on Technique, Case Histories and "The Interpretation of Dreams" and New Introductory Lectures.
- FROMM-REICHMANN, F. Principles of Intensive Psychotherapy. Phoenix Books
- \*FROMM, E. The Forgotten Language. 1951. Holt Rinehart and Winston. (A very readable and thoughtful study of dreams)
- \*GREENSON, R. The Technique and Practice of Psychoanalysis. Int. Univ. Press. 1968 (Probably the best account of psychoanalytic technique available)
- \*GOFFMAN, E. Asylums. 1961. Anchor Books
- GUNTRIP, H. Schizoid phenomena, object-relations and the self. 1968. Hogarth. (A Freudian's attempt to loosen himself from mechanistic thinking.)

- \*HALMOS, P. The Faith of the Counsellors. 1965. Constable.
- HEGAL, G. The Phenomenology of Mind. Allen and Unwin.  
(Difficult reading)
- HEIDEGGER, M. Being and Time. S.C.M. Press. (Difficult,  
but the most basic and influential in this field  
in psychotherapy)
- HUSSERL, E. Ideas. Allen and Unwin. (Difficult to read  
without help)
- JUNG, C.G. Analytical Psychology, its theory and practice.  
RKP. 1968  
The Practice Of Psychotherapy. Coll. Wks.  
Vol. 16, pp. 1-161  
Two Essays in Analytical Psychology. Coll. Wks.  
Vol. 7  
Memories, Dreams, Reflections. The Fontana  
Library 1973
- KIERKEGAARD, S. Purity of Heart. Fontana  
The Sickness Unto Death. Doubleday Anchor  
The Concept of Mind. Doubleday Anchor
- \*LAING, R.D. The Divided Self. 1960. Penguin  
The Self and Others. Penguin
- LAPLANCHE, J. and PONTALIS, J-B. The Language of Psycho-  
analysis. 1973. Hogarth (an authoritative and  
comprehensive dictionary of psychoanalysis)
- \*LIDZ, T. The Family and Human Adaptation. 1964 Hogarth
- \*LIDZ, T. The Person. Basic Books 1968 (A readable  
account of human development)
- \*LOMAS, P. True and False Experience. 1973. Allen Lane
- MERLEAU-PONTY, M. Phenomenology of Perception. Routledge.  
(Preface contains best short account of pheno-  
menology and book is on much more than per-  
ception - sections on body, sexuality and language)

- MEDEAU-PONTY, M. The Primacy of Perception. N.W. Univ. Press. (The essay, "The Child's Relationship with Others" is very important)
- MAY, R. Psychology and the Human Dilemma. 1967. Van Nostrand
- NIETZSCHE, F. Thus spoke Zarathustra. Penguin Beyond Good and Evil. Vintage
- \*POOLE, R. Towards Deep Subjectivity. Allen Lane 1972. (Can be used as an introduction to phenomenology)
- PASCAL. Pensees. Penguin
- \*RAYNER, E. Human Development. Allen and Unwin. (An account by a psychoanalyst)
- RECOEUR, R. Freud and Philosophy. 1970. Yale University Press
- RIEFF, P. Freud: The Mind of the Moralist. 1965. Univ. Paperback
- \*ROGERS, C. On Being a Person
- \*RYCROFT, C. Anxiety and Neurosis. 1968. Penguin A Critical Dictionary of Psychoanalysis. 1968. Penguin Imagination and Reality. Hogarth
- \*SANDLER, J., DARE, C. and HOLDEN, A. The Patient and the Analyst. 1973. Allen and Unwin (A concise definition of the theory of psychoanalytical practice)
- SARTRE, J-P. Being & Nothingness. (Difficult, but Part, III and IV on the body and sexuality are worth reading)
- SEARLES, H. Collected Papers on Schizophrenia and Related Subjects. 1965. Hogarth (a detailed account of

work with schizophrenic people by an original thinker)

- \*SEGAL, H. Introduction to the work of Melanie Klein. Hogarth
- \*SHARPE, E. Dream Analysis. Hogarth
- ST. AUGUSTINE. Confessions. Penguin
- \*STEINZOR, E. The Healing Partnership. 1968. Secker & Warburg
- \*STORR, A. The Integration of the Personality. Penguin
- \*SUTTIE, I. The Origin of Love and Hate. Penguin
- \*SZASZ, T. The Myth of Mental Illness. Paladin
- WINNICOTT, D. Collected Papers. 1958. Tavistock  
The Maturation Processes and the Facilitating Environment. 1965. Hogarth  
The Family and Individual Development. 1965. Tavistock  
Playing and Reality. Tavistock
- BETTELHEIM, B. The Informed Heart. 1960. The Free Press
- HOLBROOK, D. Human Hope and the Death Instinct. 1971. Pergamon
- WINNICOTT, D.W. Therapeutic Consultations in Child Psychiatry. 1971. Hogarth



Audiovisual Methods of Teaching

Books and Sources

Published by The National Committee for Audio-Visual Aids in Education, 33 Queen Anne Street, London, W1M 0AL.

A Catalogue of Recorded Sound for Education

Catalogues of Audiovisual Aids - Part 1 Religious Education  
English  
Modern Languages

Part 2 History  
Social History  
Social Studies

Part 3 Economics  
General  
Physical and Economic  
Geography

Part 4 Regional Geography

J.D. Turner "Introduction to the Language Laboratory"  
Tony Gibson "Experiments in Television"  
A.H. Crocker "A Survey of Overhead Projectors"

also the bi-monthly magazine "Visual Education" (which despite its title deals with all audio-visual media, apparatus and materials, as well as practical ideas and applications)

Published by Evans/Methuen Educational for the Schools Council:  
"School Resource Centres" by Norman W. Beswick

Published by the Focal Press:

John Borwick "The Microphone Guide"  
Ronald Hack "The Tape Editing Guide"  
Joseph M Lloyd "The All-in-One Tape Recorder Book"

Pre-recorded Sound Tapes available from:

Sussex Tapes (The EP Group of Companies)

Bradford Road, East Ardsley, Wakefield Yorkshire WF3 2JN, England

Audio Learning Ltd.,  
24 Manor Court  
Aylmer Road, London N2

The British Council  
(Contact your local  
office)

The Open University  
Milton Keynes England

Guidance Associates  
Pleasantville, New  
York, 10570

BBC Enterprises  
35 Marylebone High Street  
London W1A 1AA England

NB. This is only a partial list of material available in English.  
Consult the publications of the National Committee for Audio-Visual  
Aids in Education for more details of materials and equipment.

Equipment mentioned

Slide and film strip projector (full and half frame)

Rank Aldis Tuto II

Automatic half frame filmstrip projector

Bell and Howell Autoload 745

Cassette recorder

Sony TC 95 (with built-in microphone, automatic level control)

Philips N 2205

Philips N 2000 (playback only - battery operation)

Open reel tape recorder

Philips N 4308

Uher Variocord

Record Player

Dual P51

Film loop projector (NB. standard 8 Or Super 8)

Technicolor 610 (incorporated daylight screen)

Technicolor 260 (for projection onto a screen)

16 mm automatic sound film projector

Bauer P6

Overhead projector

Beseler Portascribe 15702 DYR

Other suggested equipment

White Board      No3M Thermofax 'Secretary' heat stencil and transparency maker

Kodak Carousel automatic slide projector      Kodak Instamatic slide making stand.

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A SPECIAL ADDITIONAL REPORT ON THE TALKS by Dr. William Cooley on "INDIVIDUALIZED INSTRUCTION"

Dr. William Cooley is codirector of the University of Pittsburgh's Learning Research and Development Center. Since 1964, this Center has been working on:

- 1) The cognitive processes involved in the intellectual performances of children, and
- 2) The design of elementary school environments that are adaptive to individual differences.

Dr. Cooley led two sessions of the ISA Workshop on:

- 1) Individual differences; current research and Development, and
- 2) Evaluation of Educational change.

At these discussion sessions, the two topics were intermingled since both were involved with the work of the Research Center. This summary report therefore reflects the blending of the two sessions but should identify each topic sufficiently so that the reader can find references to each. The first portion will deal with individualized instruction, the last with evaluation of educational change.

**P A R T. I: INDIVIDUALIZED INSTRUCTION - Description of project at the Center**

**A. Aim of project**

To design an elementary school environment in which the child can be guided in the process of learning by learning how to learn so he may become increasingly self-reliant in managing his educational program.

## B. Definition of individualized instruction

That instruction which takes place when the teacher plans specific educational program goals and the means of attaining those goals for each of his pupils, taking into consideration the background and needs of each child. Instruction is individualized through the following action-reaction opportunities:

1. Teacher-pupil;
2. Pupil-pupil;
3. Small group discussion and project work;
4. Pupil interaction with A-V communication-access-response equipment; and pupil-older adult

## C. Assumptions underlying the project

1. The learning of academic skills can be positively affected if the proper conditions are established and maintained.
2. The class-room environment can be modified to provide many micro-stimulations for pupil interaction of the ecologically adaptive response nature.
3. Computer as well as other cybernetic-type relationships can be designed to provide the teacher with information on each pupil's daily progress.
4. The teacher can plan an action-reaction program (not problem solving) for each of his pupils employing the concepts of a developmental cognitive strategy for learning.
5. The teacher can specify and analyze educational goal outcomes into step-by-step learning sequences which lead to observable behavioral responses and/or measurable skill development.
6. The pupil can be motivated to accept the consequences of his action-reaction choices and to persist in his efforts to progress along his plan or program of learning tasks.

## D. Elementary School environment and learning process

The classroom's educational climate and organizational structure is designed to provide the maximum number of instructional events which may be used by the teacher in guiding each child through his individualized program of opportunities to learn.

The teacher also plans for each child to have a large number of opportunities to interact with other children, teacher-aids, laboratory equipment and automated equipment (A.V., microscopes, T.V., computer terminals etc.) in situations where the motivational climate of the experience is high. Special emphasis is placed on the action-reaction process of learning in which adaptive growth skills are stimulated and extended by the teacher who weaves a cognitive strategy of learning into each child's individualized educational program.

The teacher also plans for each child to have a large number of opportunities to interact with other children.

The teacher's desire to show concern for the child's affective nature as well as his acquisition of skills is immensely supported by the readily available computer printouts and individualized work sheets showing the status of each child's progress along his path of learning. This continuous "feedback" on the pupil's skills development lets the teacher make more precise plans for the pupil and also gives him more time to talk with each child about his problems and progress.

#### E. Evaluation of Project at its present stage

The research project studied the use of the stimulation-response-feedback factor process in many classrooms in which children from the lower socio-economic level of the U.S.A. were being educated. These classrooms represented various environmental models of organization and were managed by a variety of teachers.

Ultimately the focus of the research was directed toward a detailed analytical study of the processes of learning specific skills. Observations of the classrooms in daily activity were made over a period of at least one year in two categories, each having two variables as follows:

1. Pupil time spent in action-reaction activities,
  - Variable A. Opportunities for interaction
  - Variable B. Motivational aids; and
2. Efficiency of instruction (best use of time)
  - Variable A. Structure of classroom organization
  - Variable B. Number of instructional events.

Extensive statistical analysis and treatment of the data obtained from the observations of the variables in action plus pre-test and subsequent test scores on basic academic skills has led to the following results:

1. A research tool applicable to the measurement of basic academic skills was developed which can show the impact of an individualized instructional program on those skills by studying the stimulus-response-feedback process occurring during the learning process.
2. In the classrooms having a student population of lower socio-economic level children increases of one grade level per year were made in the acquisition of academic skills when the individualized stimulation-response instructional event process was used.
3. Promising individualized instructional programs in selected academic skill areas have been published for use by the public. These programs are non-computer individualized instructional programs.

#### Implications for International Schools

Since international schools often have a large number of transient students, opportunities to improve the individualization of instructional programs should be welcomed. It would seem that the research project presented at our (ISA) Workshop has merit in that it shows how a teacher must plan for each child's educational path and how cybernetic type, i.e. feedback, information can assist the teacher to guide the learner into an increasingly larger number of opportunities to participate in instructional events. Teachers in international schools who will experiment with this conceptual approach to individualized instruction will enrich their experience and survive the '70's'.

Reference: Toward the New Design of Adaptive Environments for Learning: Curriculum Aspects, a chapter in Individualized Instruction Delivery Systems, Chicago, Illinois, U.S.A.: National Society for the Study of Education. Publication date: 1975.

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LEARNING RESEARCH AND DEVELOPMENT CENTER  
COMMERCIALY AVAILABLE CURRICULA

INDIVIDUALIZED SCIENCE

Individualized Science (IS) is a nongraded, multimedia, self-contained science education program for students in grades 1 to 8. IS is individualized as to selection of learning activities, selection of content, and differences in learning style and pace. The program has five complementary goals: (1) student self-direction, (2) student co-evaluation, (3) affective, (4) inquiry, and (5) scientific literacy. Ten developmental levels, A through J, are included in IS, with each level leading to competencies under each goal. Levels A through D, now commercially available, cover processes of scientific inquiry and selected topics in biology, chemistry, and physics. Publisher: Imperial International Learning Corporation, Box 548, Kankakee, Illinois 60901.

IPI (INDIVIDUALLY PRESCRIBED INSTRUCTION) MATHEMATICS

IPI Mathematics is a system of elementary mathematics that manages instruction so that each child's work can be evaluated daily and so that teachers can make assignments (prescriptions) for each child that are tailored especially for him/her. The curriculum is based on a continuum of 359 instructional objectives grouped into 10 learning areas: numeration/place value, addition/subtraction, multiplication, division, fractions, money, time, systems of measurement, geometry, and applications. As a student moves through the curriculum, she/he is constantly tested to determine his/her achievement of each instructional objective and to prevent repetition of already mastered skills. Publisher: Appleton-Century-Crofts, 440 Park Avenue South, New York, New York 10016.

PERCEPTUAL SKILLS CURRICULUM

The Perceptual Skills Curriculum is an individualized program for teaching children the basic perceptual abilities essential for success in elementary-school instructional programs in reading, arithmetic, handwriting, and spelling. It is a comprehensive, easily managed curriculum designed to detect and correct children's perceptual

shortcomings before they can cause school failure. The program consists of 133 behavioral objectives paired with 133 criterion-referenced tests, four charts for recording student progress, and more than 1,800 correlated learning activities. The Perceptual Skills Curriculum is used as a year-long core program in preschool and kindergarten, and as a support to basal reading and arithmetic programs in grades 1 and 2. Publisher: Walker Educational Book Corporation, 720 Fifth Avenue, New York, New York 10019.

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From Lynne Armstrong and Russell Hay, Geneva 22nd July, 1974.

### ISA Workshop

The First International Schools Association 'Teachers' Workshop ended last Friday after two weeks of talks and discussions in Geneva. The organiser of the workshop stated that he was highly satisfied with the results and although there was some disagreement on how closely the theme of the workshop - Will your teaching survive the Seventies? - had been followed, the general feeling was that it had been a stimulating and worthwhile experience for the participants, teachers from schools all over the world.

One of the important points covered was the development and extent of acceptance by schools and universities of the International Baccalaureate. Mr. A.D.C. Peterson, Director General of the International Baccalaureate Office, addressed the workshop on the Theory of Knowledge course, and followed this by leading a general discussion for those unfamiliar with the I.B.

The I.B. was set up in the late 'sixties to provide an internationally acceptable school leaving qualification, especially for the mobile student population of the international and multinational schools, who, lacking a programme common to all schools, would have difficulty in maintaining continuity in their education. For administrative reasons at present it can only be taken in 25 schools, and there are more applying than can be accepted. Preference is being given to schools in developing countries and to state schools whose governments wish to experiment - as in Mexico where discussions are taking place to provide it for the new sixth form colleges which are being set up.

The I. B. O. is at present engaged in discussions with UNESCO, which may offer the I. B. as part of its services. Such a development would allow the I. B. to become far more widespread. Attainment of the I. B. has qualified students for places in more than 200 universities in 25 different countries, which indicates considerable success especially as the course is still in its introductory stage.

Another subject, dealt with at length by David Holbrook and Roger Poole, was the nihilism prevalent in our polluted culture, propagated by the 'New Hun', and the need to combat this if civilisation is to survive. An extremely interesting talk was given by Dr. Peter Lomas on the concurrence of aim in psycho-therapy and education, and one of the most relevant from the point of view of the participants was Graham Carey's exposé of his ideas for a radical alternative to the present system of teacher training.

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#### Acknowledgements

The compiler wishes to thank, in addition to the speakers at the Workshop and to leaders of discussion groups, those who made a very special contribution to the daily running of the Workshop. Those persons are:

Mr. Nick Carter, Headmaster, Senior Primary Division, International School of Geneva.

Mr. Russell Cook, External Affairs Officer of ISA.

Dr. David Heinlein, Headmaster, Rutgers Preparatory School, New Jersey, USA and Vice-Chairman of ISA

Professor Charles Merrifield, California State University, Hayward, USA and

Miss Esther Piette, Executive Assistant of ISA

Miss Claire Every, Secretary kindly put at our disposal by the International Bureau of Education.

Documentation for the Workshop was kindly provided by the International Bureau of Education and by the International Baccalaureate Office.

This report was compiled by A.D. Campbell, Honorary Secretary  
of ISA.

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