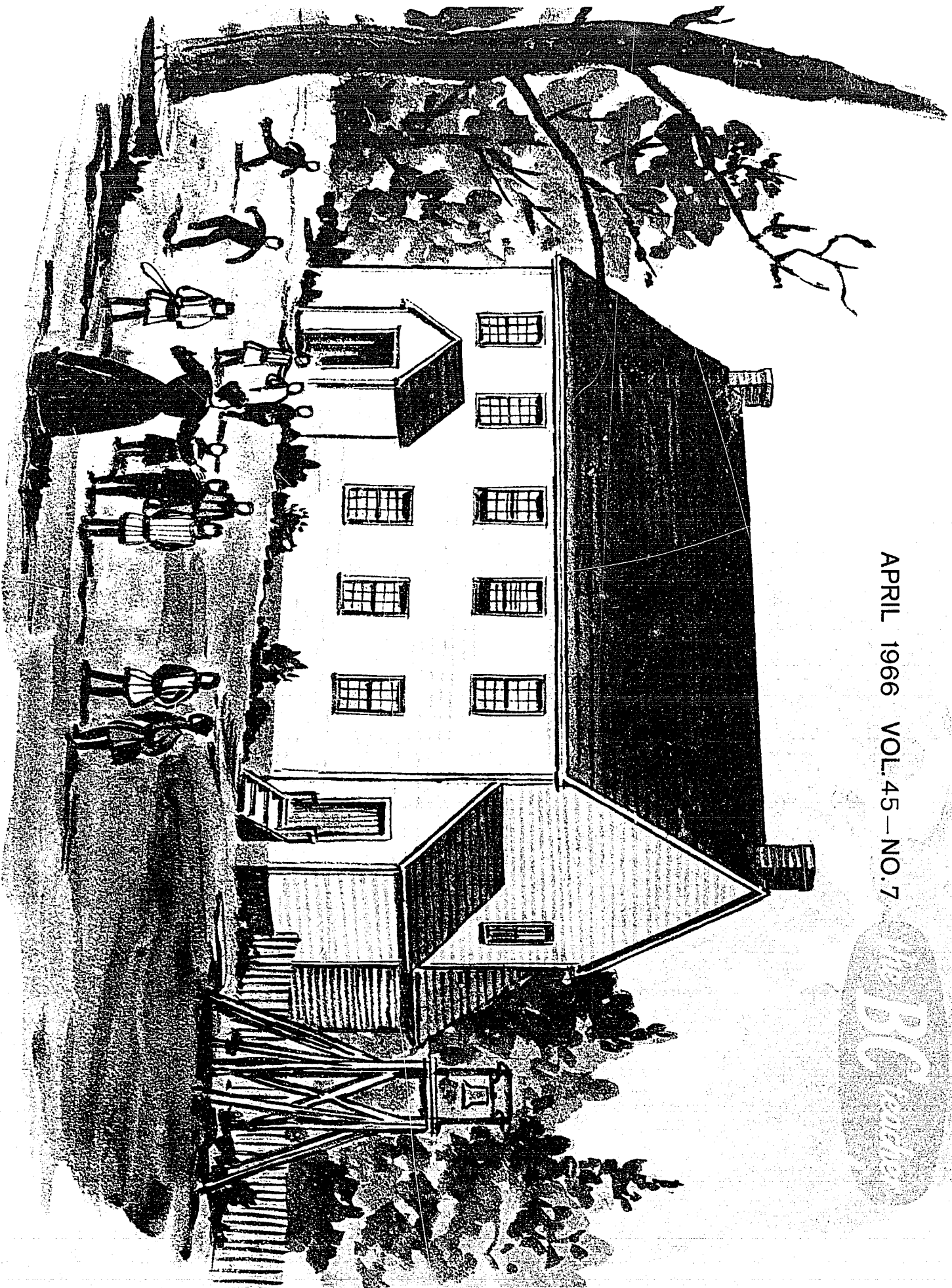


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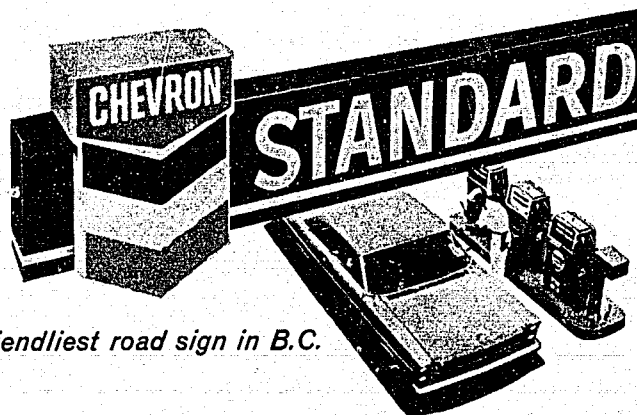
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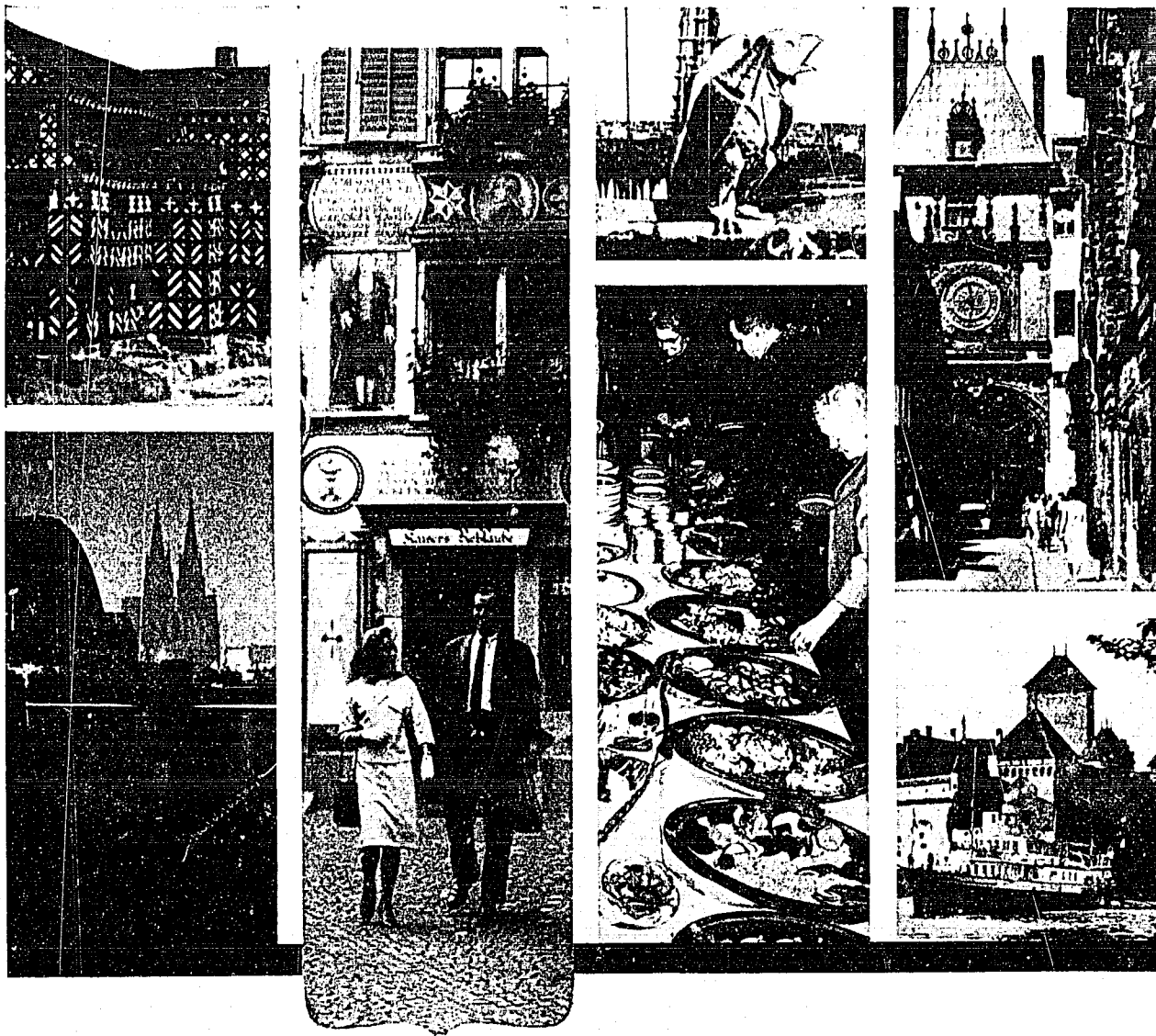
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EDITORIAL OFFICE: 1815 W. 7th Avenue, Vancouver 9, B.C. Published every month except June, July, August and September. Advertising copy received up to the 10th of the month preceding month of publication.

Notice of change of address, stating both old and new addresses, should reach the editorial office at least one month before publication date.

Annual Subscription, \$2.75;
Federation Members, \$2.00.

Authorized as Second Class Mail, Post Office Department, Ottawa, and for payment of postage in cash.

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Printed by Evergreen Press Limited

APRIL 1966

the BC teacher

PUBLISHED BY THE BRITISH COLUMBIA TEACHERS' FEDERATION
Affiliated with the Canadian Teachers' Federation

VOLUME XLV, No. 7

APRIL 1966

TABLE OF CONTENTS

Features

	Page
Teachers in the Nongraded School - - - Madeline C. Hunter	258
A New Look at Space - - - J. W. Lott	260
Like Ripples in a Pool - - -	262
Academic Programs at the British Columbia Institute of Technology - P. Coleman, W. S. Sims and W. Thumm	263

Departments

The Editor Comments - - -	257
A Matter of Opinion - - -	288
Quotes and Comments - - - Vito Cianci	291
From our Readers - - -	292
New Books - - -	296

Miscellany

Salary Summary 1966 - - -	267
A Unique Teachers' Organization - - - Tom Aldcorn	286
Cover Story - - -	289

Cover Picture

Craigflower School, Victoria, now a museum, is the subject of our cover picture this month. The painting is one of a series by Bob Banks, commissioned by the B.C. Centennial Committee of 1958. Permission to use the paintings was granted by the Provincial Archivist. The cover story is taken from material originally prepared by Dr. F. H. Johnson and W. H. Auld.

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congratulations vancouver school board

ONE OF THE MOST ENCOURAGING things we've seen in some time is a list of objectives for 1966 adopted by the Vancouver School Board.

To the best of our knowledge, no other elected body in the province has formulated such a list of objectives. The very fact that the Vancouver trustees have done so warrants commendation. But we are impressed, too, by the worthiness of the objectives.

The list includes eight important matters which the trustees want to study themselves, and another eight which they want studied by the officials of the Vancouver school system.

The trustees will study, for example, the possibility of developing a college preparatory program for Grades 11 and 12, gearing the content to the needs of adults rather than of adolescents. Such a program would, of course, have great appeal to adults who dropped out of secondary school but who now would like to go to university.

The Board also plans to improve its liaison with business, industry and community organizations. This move should have a twofold benefit. First, the community representatives should be able to assist the school system to keep its graduates geared to changing conditions. Second, the Board should achieve widespread community support for its projects, for the community will have played a role in their formulation.

Among the matters to be studied by the Board's officials are an experiment in continuous progress (non-grading), pilot projects in better utilization of school staffs, the establishment of special classes for gifted pupils and an experiment in three schools with educational television.

This small sample of the Board's objectives proves conclusively that Vancouver's trustees want to provide the best possible education for each child in their school system. Not that this is surprising; Vancouver has led the way in such other matters as hiring teachers above entitlement, providing remedial reading help for pupils and consultative services for teachers, pro-

viding specialist teachers for the elementary schools and authorizing experimentation (e.g., team teaching). The actions taken this year are, therefore, further evidence of the Board's obvious desire for quality education.

A proposed seminar of trustees and officials—another of the 1966 objectives—could well turn out to be the most significant project of all. The seminar will discuss the primary purpose of the school system and will examine the operation of the Vancouver schools in the light of that purpose. Let us hope that this evaluation will result in action to limit the number of students assigned to secondary specialist teachers, particularly those of English and social studies.

From time to time actions of the Vancouver School Board exasperate us. (Why, for example, do the trustees adamantly refuse to sign a collective agreement with their teaching staff?) However, we think Vancouver is fortunate in having as trustees people who are genuinely interested in education. Certainly the actions of those trustees are a convincing answer to the nonsense we sometimes hear about there being no real role in education for trustees.

It is a pleasure, then, to salute the members of the Vancouver School Board. Their list of objectives is another of many firsts in attempting to provide quality education for the children of our province's largest city. □

MADELINE C. HUNTER

Principal, University Elementary School, University of California, Los Angeles. Reprinted with permission from NEA Journal.

TEACHERS IN THE NONGRADED SCHOOL

258

CHANGES AND NEW DECISIONS bother all of us. I was beset with misgivings the moment I found that the ignition switch on my new car was on the left instead of on the right side of the steering wheel as it had been in my former car. These uneasy feelings started to compound as I began to suspect manufacturers of sadistic perverseness. The drive selector on this car was also in a different place, the drive positions were not what I was used to, and I had to set the emergency brake by hand instead of by foot.

As I fought through the maze of new 'feels' and places for my hands and feet, with typical human resistance to change, I regretted turning in my comfortable old model. It was too late to reverse my decision, however, so with the skills (and attitude) of a six-year-old with mixed dominance I decided to take my elderly mother for a ride while I got used to the recalcitrant mechanical monster.

'Whatever are you doing?' Mother asked in amazement as I lost my usual complacency and muttered a string of descriptive phrases which are best forgotten.

'I'm trying to decide which drive position to use,' I explained snappishly.

'I'm glad that when I was learning to drive, the horse made most of those decisions,' she said, primly smoothing her skirts.

Horse sense indeed! But oh how much more comfortable and effective is my new car, now that I am used to it.

I had the same problem of adapting to change when I first started using the 'gear selectors' of nongrading. As a teacher in a nongraded school, it was up to me to make recommendations as to how each individual in my present class should be placed next semester. Which of my fellow teachers would bring out the best in Johnny? Should Mary and Sally continue to be in the same group or should they be separated? This decision-making brought into devastating visibility my lack of knowledge of that great middle group in my class—those children who learned just enough and conformed just enough that they never had received my full educational concern.

Once the students were assigned to instructional groups, major learning decisions became the responsibility of individual teachers, rather than of the curriculum council or the textbook committee. No longer could the same graded materials be dealt out to an entire class; every teacher had to make professional judgments as to which book and which level of content was appropriate for each child in his class.

The use of educator decisions rather than system decisions is the hallmark of the truly nongraded school. Why do I say 'truly nongraded'? Because if you are a teacher in an elementary school that assigns students to a levels program or that groups learners in different classrooms according to ability and achievement, you have eliminated astrology as the guiding principle for placement of children, but you have substituted something not much better. In place of

THE B.C. TEACHER

numerals representing the date of birth, you have substituted the numerals from the score of a reading, general achievement, or intelligence test. Such a score is designed to give normative data for large groups; it is not supposed to yield diagnostic data relevant to the optimal placement of individual children in instructional clusters.

Each September, those of us who teach in a non-graded school greet a group that differs radically from those in most other classrooms. The boys and girls have not all been born within a certain twelve-month period and teachers, therefore, do not have to depend on some fortuitous juxtaposition of the planets at the time of their birth for all to go well. Learners assigned to any one teacher have been diagnosed as responding well to that teacher's style of teaching. Likewise, the sociometric composition of each group has been designed to foster the optimal growth of individual members.

What a refreshing relief it is for teachers to know that each child is beginning the year with a fresh start; that they don't have to brace themselves in anticipation of one of those class groups that moves as an indigestible lump through the school.

Decisions regarding teaching style and peer group that have already been made about class membership help to eliminate such undesirable stereotypes as 'worst reader,' 'poor sport,' or 'sloppy worker.' Similarly, positive reputations such as 'best reader,' 'most popular girl,' and 'team captain' need to be re-earned in the new group, thereby strengthening an ability that has been manifested.

Everything possible has been arranged in advance to optimize learning and now it's up to the teachers. It is quite a responsibility! No longer can anyone take refuge in the excuse, 'He didn't even have fractions in her room so what do you expect me to do?' Teachers are expected to teach each pupil from wherever he is to as far as they can take him.

No longer is the goal to cover certain material (much of which should be 'covered' and appropriately laid to rest). The question changes from, 'Has the student done it?' to 'Has the student learned it?' We, as teachers, must be able to confidently answer 'yes' before moving on.

Selecting for the learner an appropriate task at the correct level of difficulty is the responsibility of each teacher in the nongraded school. This implies assessing the effectiveness of each day's teaching—a task not always conducive to the wellbeing of one's ego. The fact that a teacher thinks he has taught base ten gives him no license to go on unless he is sure it has been learned.

In a nongraded school, teachers facing, for the first time, a three-year age span of learners are appalled by the anticipated range of abilities. After a few weeks they are further shaken by the realization that they do not know which children are the youngest and which

the oldest without looking it up.

After changing to nongrading, one experienced first grade teacher came to her principal complaining, 'I can't teach five-, six-, and seven-year-olds in the same class. Why, some of them are not even ready to read, two can read at a third grade level, and one can read at a fifth grade level.'

Upon investigation it was discovered that those not ready to read and those reading at third and fifth grade level were all six-year-olds. In the typical first grade class the wiggly, twitchy little six-year-old boys would have been 'excused' from the reading group. ('John, take your book and sit over there until you can listen.') The able six-year-old readers would have willingly read 'Run, Sally, run,' to please such a nice teacher.

Because this teacher was in a nongraded classroom she was forced to the disquieting realization that the typical first grade reading program is inappropriate for some six-year-old children, yet perfectly appropriate for some five- and seven-year-olds. Nongrading does not necessarily assure a wider range of abilities; it does inexorably force teachers to make educational provision for the range they have.

Placement of children, using the criteria of teaching style and peer group composition, presents a new and often unexplored area of decision-making for teachers.

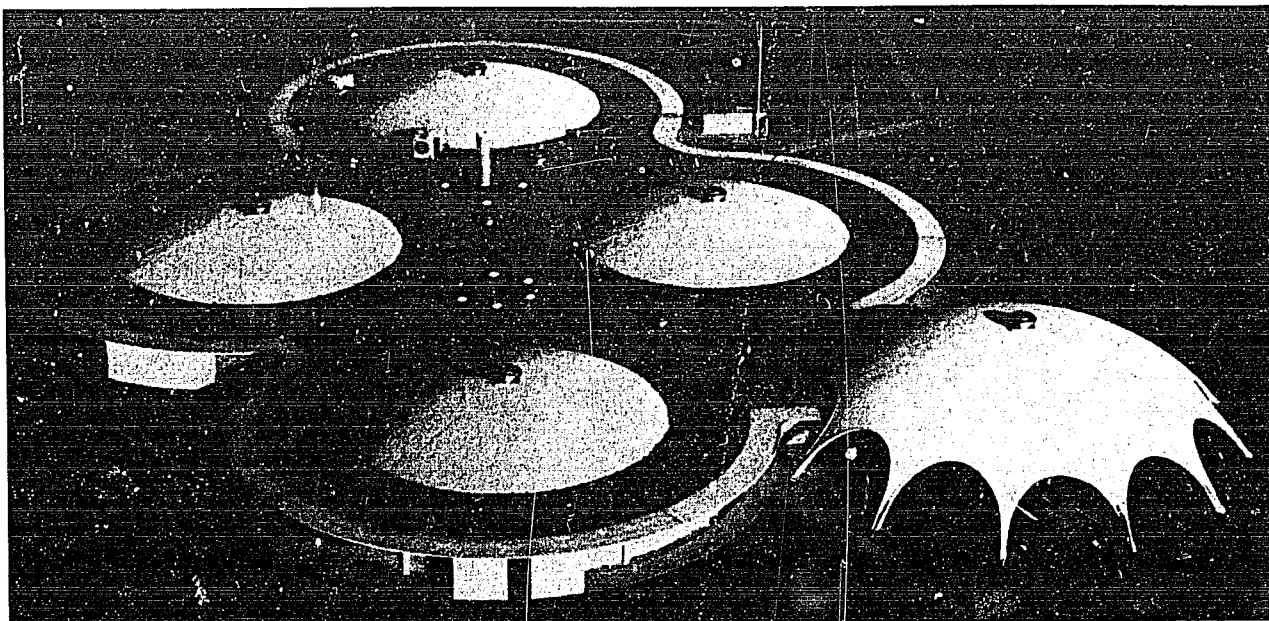
When a teacher in a nongraded school was asked what instructional group she would recommend for seven-year-old Howard in the coming year, she replied, 'Give him a teacher who will really get after him. His mother has babied him so that he needs someone who means business.'

The next day, however, Howard's teacher amended her recommendation by saying, 'I've been watching Howard. When I ran late in my art period and started snapping out orders for cleanup, he just went to pieces. I've decided that he needs a teacher who is not too strict and who will give him support. At the same time, he needs a peer group that will really push him intellectually. He has such a quick mind that the children in his present group never challenge him enough to force him to refine his ideas.'

The following day, Howard's teacher came to the office a third time. 'Someone told Howard, "Gee, that was a lousy picture you made" and Howard burst into tears, so I guess he's not ready for too much challenging.' She concluded with, 'You must think I can't make up my mind, but I'm not used to making these kinds of decisions.'

None of us is used to making these kinds of teaching decisions. They represent a new and rigorous dimension in the process of education. These decisions, also, represent the impact of recent research which indicates that a powerful educational environment can make significant and pervasive changes in the individual.

Continued on page 295



Three circles of this new elementary school in Greeley, Colorado, contain clusters of classrooms, all with easy access to a central resource center. The fourth circle has kindergarten rooms, a speech and remedial reading room, music room, cafeteria and kitchen, and offices.

A NEW LOOK AT SPACE

J. W. LOTT

BEFORE TOO MANY PHYSICISTS get involved in this article, the space under discussion is space for learning, not the space of the astronaut and the satellite. Although not as dramatic or sensational as the quest for knowledge beyond the limits of the earth, the search for answers to questions concerning the type of space in which learning can best take place is a vital one.

The setting of new aims for education, the introduction of curricula to achieve them, and the development of fresh teaching techniques, have made a reappraisal of space for learning necessary; modern methods of construction and a variety of new teaching materials have made the reappraisal possible.

It is doubtful that the ideal learning environment is about to be designed and probably undesirable that one should be. What might be an ideal space to learn in today will surely be undesirable tomorrow. In any event, it is unimportant whether or not we find the

The author is chairman of the BCTF School Buildings Committee.

ideal; what is important is that we be aware that existing learning space is inadequate and that we seek for something better.

The search is already producing stimulating new schools and classrooms. It has resulted in the modification of many old school buildings. It has created a demand for flexibility in the division of space which has produced classrooms with moveable walls and even a few without walls.

In B.C. with new aims, new curricula, and new teaching techniques, we have a particular need to take a new look at space for learning. Our province also provides the opportunity, in the many new schools and classrooms that must be built each year.

The BCRR has realized the need and recognized the opportunity. In 1964 it established a special committee on School Buildings, whose primary function is to consolidate teacher ideas on the environment in which they work, and to communicate these ideas to the Department of Education.

In meetings with officials of the Building and Plan-

THE B.C. TEACHER

ning Division of the Department, the School Buildings Committee has found that the Department, too, is approaching the problem of space with a new awareness. The standard plans published in the 'Black Book' are no longer intended to be prescriptive but are guides to planning and design. Innovation is encouraged and approval has been granted for several imaginative and exciting school plans. In producing new plans as guides for future classrooms, the Planning Division is guided by the demands of the new curriculum and will redesign learning space to fit redesigned programs. The recent space provisions for science are a good example of this, since they reflect the space needs of the new science curriculum.

Encouraged by this development in Departmental thinking on learning space, the BC School Buildings Committee has embarked on two projects aimed at producing new environments for social studies and primary instruction. The designing of a new primary environment was suggested by Dr. Henry Elder and Professor Robin Clark of UBC's Faculty of Architecture. The actual designs will be turned out by teams of architecture students working on ideas gleaned from interviews with primary teachers. Members of the Primary Teachers' Association have volunteered to work with students in Professor Clark's third year classes.

Primary teachers met with Dr. Elder and Professor Clark in February to discuss the project and interviews between teachers and design teams were planned. Toward the end of April or early in May the School Buildings Committee will be seeing the results

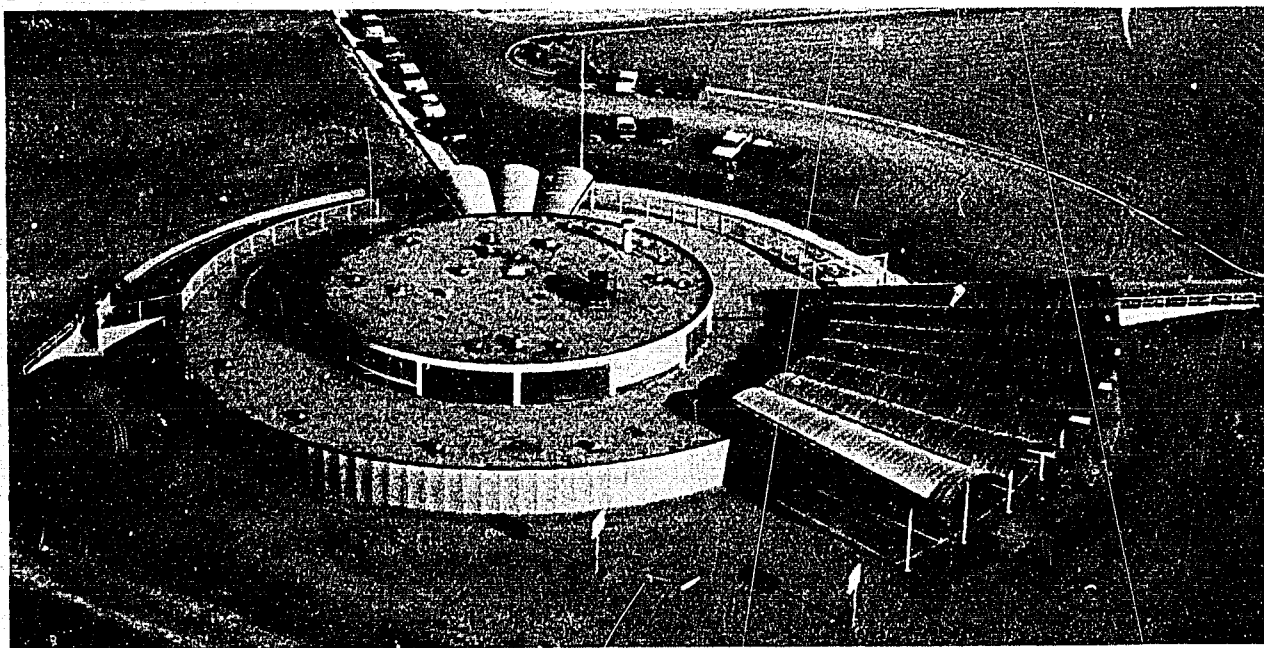
Both Dr. Elder and Professor Clark have supported the Federation's interest in tackling the space problem. The ideas they have expressed at several meetings with the committee are most refreshing and will no doubt influence their students to produce some exciting primary environments.

The social studies are currently under revision and the School Buildings Committee felt the time was ripe to examine the space requirements of the proposed curriculum. A project involving the B.C. Social Studies Teachers' Association has been launched to define the facilities and equipment of a social studies area. Plans developed some years ago by the Fraser Valley East social studies teachers have provided the base for the project. When the new social studies curriculum is announced by the Department, a teacher-designed plan for the space in which that curriculum will be carried out should be announced with it.

There is a multitude of other space problems to be tackled; many special learning areas need a new look. The more general areas of the school, outside the actual classrooms, should be re-examined. The School Buildings Committee plans to examine them, to gather and consolidate teacher ideas, and to communicate its views to the Department.

The opportunity exists for teachers in many districts to express their ideas and take part in school planning. They should take advantage of this opportunity. Guidance and information can be obtained through the committee. As new learning space develops in the schools of B.C., the ideas of teachers should be the major feature in its design. □

The top half of the central core of Brentwood Elementary School in Greeley contains the cafeteria and kitchen, a mechanical equipment room and one kindergarten room. This frees the ground floor space for purely instructional use. The school is built on a sharply sloping site.



Mr. Mattenje and Mr. Hibberd demonstrate a Malawi handshake for Mr. J. Devlin, principal of J. P. Dallos Elementary School, and one of his pupils.



LIKE RIPPLES IN A POOL

LIKE THE RIPPLES that spread from the spot in a pond where a stone is tossed, the influence of a good deed spreads. It crosses oceans, climbs mountains, breaks communication barriers and, most important of all, touches the hearts of people. It can foster understanding and goodwill between the peoples of different nations and different races—and it can do all this without the intervention of governments. It can happen between 'ordinary' people.

Article supplied by Canadian Teachers' Federation Distribution Service.

It can make it possible for a young man from the center of Africa to walk down the street of a Canadian town and be greeted with affection and respect by children. It can open doors and hearts, and change for the better the lives of people on two continents. And those who are doubtful can ask Dick Mattenje or Dick Hibberd, for they were present when the 'good deed' started to spread the ripples, and they have seen just how far those ripples spread.

Dick Mattenje is a school teacher from Malawi, one of the new, young countries of Central Africa. He is

Continued on page 285

ABOUT ONE-FIFTH OF THE CLASS graduating on the Academic and Technical Programs in 1967 and subsequent years will seek higher education at the British Columbia Institute of Technology. Few of the present teachers of these students have had an opportunity to find out what the BCIT will demand. Consequently they have no idea how best to prepare their students for a type of higher education which differs extensively from the traditional university offering in objectives, curriculum, and even to some extent in teaching methods.

The stated objective of the Institute is to provide trained workers, in the semi-professional category, for industry and business. This objective is reflected in the attitudes and motivations of the students who tend to be single-minded in their interests, and work very hard—50 hours a week in classes and on assignments seems to be about average.

Both the curriculum and the teaching methods follow from this central objective. The curriculum for each 'Technology' (e.g., mining) is the outcome of recommendations by an advisory committee of experts in the field, and the teaching of the curriculum emphasizes laboratory work very heavily. The laboratory sessions, in general, present facsimiles of business and industrial situations (in, for instance, a miniature plywood mill or a fully equipped TV studio) within which context students are required to solve realistic problems.

In addition to work in their technology, all students take 'core' courses offered by the Academic Departments (English, mathematics and physics), and in these courses the student depends very heavily on his high school preparation. The statements which follow were prepared by the heads of these departments and emphasize the differences between University and Institute requirements and approaches in these core courses.

ENGLISH

The *Applied Science and Technology Index* abstracts 222 journals. The technical report written during the development of the antenna system for the Titan III space booster makes a stack almost five feet high. Of 55 colleges and universities surveyed by students in a Technical Writing course, 50 offer a course in technical writing. Obviously, in businesses and industries which rely increasingly on technology, more and more people are going to be required to read and write technical material. Our schools have not yet taken this into account in their English curriculum.

Joe Smith-Jones graduated on the university program 1965, Any Secondary School, B.C. Joe is less than enthusiastic about English, and has written about five essays a year. (Sample topics: *The Kon-Tiki Expedition*. Book Report No. 2; *The Nurse in Romeo and*

The authors are heads of the English, Mathematics and Physics departments, respectively, at BCIT.

P. COLEMAN, W. S. SIMS and W. THUMM

academic programs at the british columbia institute of technology

Juliet.) Joe registers at BCIT, and at the first English seminar is given a reading test. He is average for BCIT entrants, a Grade 10 reader. He badly needs remedial reading work, to reduce his study time, but his 35-hour class-week leaves little time for remedial work in English. In the second seminar he is asked to write a verbal description based on a diagram of a simple object. (See Figure 1.) In 50 minutes he fails to work out an accurate way of describing the notches. At this point Joe's academic future looks gloomy. He has been prepared to some extent for English 200, but not at all for a course in technical writing.

Training in writing in the secondary school is subordinated to training in literature, and what writing students do is often closely associated with the study of literature. The value of the ability to write good description of objects and processes, and its importance as training for any kind of writing, has commonly been underestimated by teachers. Consider the following topic: 'The diagram shows an exploded view of a flashlight. Write a complete and precise description of the object, and (b) the process of assembling the object.'

The advantages of such topics to the teacher are substantial:

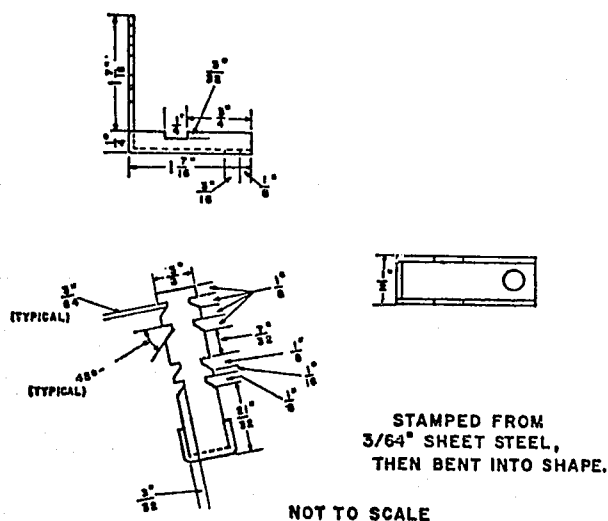


Figure 1*

1. Working with concrete objects helps the student develop concepts which form the logical bases of writing—concepts of categories, of co-ordination and subordination, sequences, and so on.
2. The job of illustrating organization in written material becomes very much simplified. The components of the object, or the steps in the process, become the parts of the essay.
3. Marking is simplified, and can easily be carried out by students, on the basis of a model answer and a simple point system for mechanical errors.

The students, too, will appreciate such topics. The frustration with abstract topics which require sophisticated analysis of personal experience is ended, and the complaint 'I can't write an essay because I can't find anything to say' is no longer heard. In addition, the task of justifying the grades he receives to a weak student is simplified and such students gain confidence from understanding what they did wrong.

A program of about 30 technical assignments, carried out over two or three years and linked with a reading improvement program, could not fail to produce a secondary school graduate who was a competent writer. He would be very much better prepared than the present graduate for employment, for enrollment at BCIT, and even, perhaps, for university work.

At the present time this fundamental training is carried out at the Institute in the first year. Only in the second year do the students undertake any advanced work in technical writing, and the level of proficiency achieved is far from satisfactory, in view of the importance of technical writing in modern industry.

MATHEMATICS

In most of the technical programs at BCIT the mathematics courses extend over the full two-year period, for five hours a week. The students are brought to-

gether in groups of about 120 for three one-hour lectures a week, while the remaining time is spent discussing the subject matter of these lectures in small 'sets' of 15 to 30, each set having all its students from the same technical program.

The main topics presented in the courses are: (a) algebra, trigonometry, and analytic geometry, beyond the Grade 12 level; (b) descriptive and inferential statistics; (c) the calculus, to differential equations. Such special topics as the algebra of switching circuits and harmonic analysis are included where necessary. At various points throughout the whole program appropriate items from the field of numerical analysis are introduced, and at an early stage the students are taught how to set down the associated manipulative work in a logical pattern for systematic evaluation on electric desk calculators and programmed electronic calculators using the punched card system. In the second year the students have a course, separate from the mathematics course, on programming for the IBM 1620 computer. The Fortran language is taught and there are laboratory periods for applying mathematical problems to the 1620.

In technological training the direction in which the mathematics discussions have to be steered is quite clear. It is of first importance that the students appreciate the applicability of mathematics in the various technical fields and develop the facility to describe certain situations in mathematical terms. From the beginning the students are made to understand that quite often their mathematical problems will commence with verbal or diagrammatic descriptions of physical situations and that their task in dealing with such problems is threefold. Step one is to translate the given details into a mathematical symbolism; step two is to manipulate the symbols to obtain the desired mathematical solutions; and step three is to interpret these solutions as physical answers. The initial difficulty is almost invariably with the first step, that of formulating mathematical expressions and equations from the technical details presented. The Mathematics Department is concerned about this, for clearly the person who has little ability to analyse basic physical situations by mathematical means cannot be rated a first-class technologist. Hence particular emphasis is placed throughout the program on the analysis of technical problems, and in this connection close liaison is maintained with the Technology and Science Departments for information on the types of problems introduced there in which mathematics is an important feature.

With much of the mathematics teaching at BCIT centered on physical problems, there is continual need for sustained thought on the part of the student to follow through the stages of formulation, manipulation, and

*From *Casebook for Technical Writers* by James Brown, c1961 by Wadsworth Publishing Company, Inc., Belmont, California. Reprinted by permission of the publisher.

interpretation. Test and examination questions are largely of the longer essay type, to check the students' ability to apply continuous thought to such a problem and to present the pattern of its solution in a careful and logical manner. It must be added that the emphasis placed on the application of mathematics at the Institute is not to suggest that little importance is attached to pure mathematical theory when the various topics are presented. There is definite concern that the discussions shall contain as much rigor as time and student ability permit, and it is insisted that the student exhibit throughout his work a precise use of the mathematical language as far as this has been developed. It is important to know the limitations of the general student-body in regard to mathematical rigor, for too much abstract content at one time can cause the interest in the subject matter to fall off quite rapidly.

The principles underlying the teaching of technical mathematics at the Institute, as outlined above, are also applied within the courses for the Business and Medical Laboratory divisions. In these programs a study of further algebra, graphical work, and some calculus, is followed by a detailed discussion of descriptive statistics, statistical inference, and quality control. Additionally the Data Processing option of the Business Management program, which devotes almost a quarter of its time to computer programming, carries topics such as symbolic logic, Boolean algebra, and numerical methods. Here again the effort is made to maintain throughout the curriculum a proper balance between the theoretical and the applied so that, in the time that the students are at the Institute, a useful mathematical training for the chosen career is provided.

PHYSICS

At the B. C. Institute of Technology, physics, like mathematics and English, is essentially a service subject in that it is designed to provide a certain amount of common knowledge which would extend the view of students beyond their own particular technology while providing them with the necessary specific physics relevant to their own technology.

There are some exceptions to this general approach in that we do offer some second year courses in physics which are highly specialized and directed toward a particular technology. Examples of these are 'Electricity in Modern Physics' as offered to the Electronics Technology, and 'Geophysical Methods of Prospecting' for the Mining Technology.

Other specialized courses include a short series of lectures in the Medical Laboratory Technician Program and a course in the Physics of Medical Radiography which concerns itself only with topics directly related to medical radiography, that is, electricity and radiation physics.

Details of the above courses are to be found in the Institute Calendar and consequently there seems little

merit in discussing them further from that viewpoint.

Our largest commitment in physics is as indicated in the first paragraph: a general course which is required by most of the Engineering Technologies as a background subject. This particular course is approximately up to the Physics 101 level although in some topics we go to higher and in some to lower levels, both in the lectures and in the laboratory exercises. At the moment this course is handled by lectures given in large groups, for example 200 students, while the laboratory work is carried out in sections of 30. We are fortunate enough at the moment to have two fully qualified instructors working in the laboratory with each group of 30 students.

This favorable staff-student ratio in the laboratory allows for a definitely positive teaching situation in the laboratory and, further, it introduces periodic opportunities for a tutorial atmosphere which follows monthly quizzes. These quizzes count substantially toward the student's final assessments and we feel that we are making good use of them not only for grading, but also, more significantly, for learning. Immediately after the quiz the correct solutions to the problems are discussed, whereupon those students receiving first and second class honors marks in the quiz may sometimes be excused while the remainder are always required to pursue a certain amount of remedial work until the end of the three-hour laboratory period.

As far as the laboratory work is concerned, we insist that all students perform the required experiments at a satisfactory standard but we give no numerical grading. The exercises are planned so that a student may complete the entire assignment during his three hours in the laboratory, provided he has spent something like half an hour in preparation prior to entering the laboratory. Four times a year we ask students to prepare a detailed submission, which we call a technical report, on a designated laboratory experiment, and these reports are graded numerically, thus counting toward the final mark.

One of these four technical reports is based on a laboratory project which the student undertakes during the last two or three weeks of the first year. In this project he receives a maximum of freedom of choice as to what type of experiment he wishes to undertake and a minimum of specific directions. In a way we might consider this as an attempt at the so-called 'open-ended' experiment.

The consequence of our approach is that the student acquires a substantial part of his final mark during the term work and the harassment often faced at some universities of having the entire mark rest on a single examination is somewhat obviated.

We do have two technologies which as yet do not require secondary school physics as a prerequisite but which would like their students to have a general physics background. For these students we offer a

special course in what for me is a particularly exciting venture, in that the attempt is being made to bring these people approximately to the first year college level by means of programmed instruction. In this course the book *Fundamental Physics* by J. Orear and the associated *Programmed Manual* are being used.

Instead of the normal three lectures a week, as in the general course for those people entering with secondary school physics, in this special course only one lecture a week is offered. At this lecture some historical aspect may be expounded upon, some of the more difficult mathematical developments in the program may be approached from a different viewpoint, but mostly the lecture is used to perform relevant demonstration experiments. These students have another hour during the week at which they may voluntarily attend to ask any questions relating to the work in the *Programmed Manual* or the associated textbook. After some seventeen years of teaching, I find this hour as exciting as anything I've ever done. Finally, the students using the *Programmed Manual* assemble compulsorily for one hour during the week in relatively small groups, during which period they continue with their work on the *Programmed Manual*, while an instructor is available to check the progress of each student weekly and give individual help. (By and large, students may work on their *Programmed Manual* as and when they see fit and consequently a student has some measure of freedom to proceed at his own pace. The Physics Department interferes only to the extent of suggesting a reasonable minimum pace.)

Since this is our first venture of this kind, it is hard to predict the degree of success that will be achieved. However, I feel very optimistic. Certainly, whereas we are not able to expect the students to achieve the mastery in terms of quantitative problem analysis that the other students who have had secondary school physics are required to achieve, we are able at least to expose these beginners to a degree of physics which is comparable in sophistication. But we do make our demands on these beginners, in terms of mastery, at a lower level. The alternative of this procedure would have been to give these students a lower level physics course, approximating the old Physics 91 course. We feel this alternative would hardly suffice in terms of present technological sophistication.

As far as laboratory exercises are concerned, probably our only significant innovation is that we have a preliminary section which points out the technological applications of the particular physical phenomena to be investigated and, insofar as possible, makes reference to actual industrial equipment of the relevant type which is seen by our students in other parts of our institution.

In due course, when we shall probably no longer have an appreciable number of first year students with the old Physics 91 course nor students without any secondary school physics at all, we intend to switch

from our present rather standard fundamental principle approach to a more applied presentation. This proposal is predicated on the fact that the new secondary school physics courses give ample emphasis to the fundamental approach to basic principles.

In the case of the Physics of Medical Radiography, the class numbers between 20 and 30. This situation is delightful insofar as equipment can therefore be acquired in sufficient quantities that all experiments are carried on concurrently with and relevant to the lecture material. Such is, of course, not the case with our major commitment of the general first-year course in the Engineering Technologies where we are at the moment running some 14 laboratory sections. These numbers preclude economically the possibility of all students doing the same experiment during the same week. However, this does not worry us too much because we feel that, with the new secondary school physics programs, the laboratory approach has been applied to develop the fundamental physical concepts, and our physics laboratory work in the Institute might thus justifiably have slightly different objectives. For example, these are our objectives in approximate order of importance (and they are not as one would usually expect them in a physics course for physicists or even engineers at the university, or in a physics course teaching basic fundamental principles in the secondary school):

1. ability to analyse technical problems in terms of physical laws;
2. ability to understand the principles and use of technical equipment in solving a problem;
3. an understanding of the terms 'accuracy' and 'precision' as used in reporting results;
4. ability to keep an adequate notebook and to write technical reports from these notes;
5. verification of physical laws.

How teachers in the secondary schools may aid us has been a question raised on several occasions. First of all, by encouraging those students planning to go into Engineering Technologies to take as much physics as possible. Further, by encouraging students planning to go into other programs, such as Medical Radiography, where physics is not yet a prerequisite, to take at least one course in physics in order to get the feel of some basic physical laws and the way these can be quantitatively expressed. And finally, by helping, somehow, to overcome the cultural bias vis-a-vis girls taking physics. There are increasing technical opportunities for women, which opportunities are often denied them by what seems in our society to be a cultural bias, that is, 'girls don't take physics.'

In closing, I should like to extend an offer to discuss our physics courses in detail, or any parts thereof, with any physics teacher interested; and what is more, I should be delighted to show any teacher our physics laboratory and, in fact, our entire facilities at BCIT. □

Summary of Salary Scales

April 1966

EXPLANATION OF CURRENT PRACTICE

The salary categories designated EC, EB, EA, PC, PB, PA are based principally upon the classification of teachers for their certification by the Department of Education. Generally speaking, the categories are based upon the number of years of preparation beyond graduation from high school (Junior Matriculation) subject to the provision that at least one of these years must be a year of specific training in teaching techniques. The categories are as follows:

CLASSIFICATION	MINIMUM REQUIREMENTS
EC — Elementary 'C'	First year standing, College of Education. (This was an emergency qualification, no longer offered.)
EB — Elementary 'B'	Second year standing, College of Education. (Since 1962 this is granted on an interim basis only. It is valid for four years and cannot be made permanent without additional training.)
EA — Elementary 'A'	Third year standing, College of Education. (Since 1962 this certificate represents the minimum level of qualification for permanent certification.)
PC — Professional 'C'	Fourth year standing, College of Education. (This certificate represents either a completed B.Ed. degree (elementary program) or the complete fourth year of a five-year program leading to a B.Ed. degree (secondary program).)
PB — Professional 'B'	Fifth year standing, College of Education. (This certificate is granted on completion of a B.Ed. degree (secondary program) or a B.A. plus one year diploma in Education.)
PA — Professional 'A'	Sixth year standing, College of Education. (This certificate is granted on completion of an M.Ed. degree or an M.A. degree in a teaching subject or in Education.)

Summary of British Columbia Salary Schedules (1966)

Special Note: All school districts have P.T.M.S. Plan "A" unless otherwise noted.
Number of teachers shown for each district is full-time staff in September 1965 (courtesy BCSTA)

DISTRICT No. Name	No. of Teachers	Category Min.	Max.	Increments	Principals' Allowances, Larger Schools	Remarks
1. Fertle	74	EB 4190 EA 4720 PC B.Ed. 5255 PB 5990 PA 6360 PA Mas. 6360	6550 7200 8100 9380 10070 10440	10 X 235 10 X 245 10 X 255 10 X 265 10 X 318 12 X 340	% of max. PC B.Ed. (elem.), PA (sec., elem.-sec.) incl. prin. 8% + 2% per year of experience to (over 15), + 1% (3-15) + 1/2% (over 16) + 2% per teacher (3-8) + 1% (9-16) + 1/2% (over 18). Vice-prin. 1/4 + 1/2% (over 18). Dept. Head: \$400 + 1 inc. of \$100	EC paid EB0. E in secondary \$300 plus \$35 in secondary \$300 plus \$35 per year of experience to \$150 per 3 units Summer School up to \$300. Full credit for Commonwealth and U.S. experience if recognized in part by Department of Education. IE with journeymen's papers plus a teaching certificate, paid scale + 3 increments to maximum.
2. Cranbrook	118	EB 4100 EA 4770 PC B.Ed. 5440 PB 6230 PA 6530 PA Mas. 6562	6400 7370 8240 9630 9970 10315	10 X 230 10 X 260 10 X 280 10 X 290 10 X 340 11 steps, PA + 3 1/2%	% of max. for certificate held. Elem.: 3% (1-5), 2% (6-10), 1% (11-20), 1/2% (over 20). Sec.: 3% (1-5), 2% (6-15), 1% (16-25), 1/2% (over 25). Vice-prin. 1/4 percentages on own certification. Dept. Head: \$400, Assistant \$200.	On appointment credit for EB, EA and PC limited to 9 increments; last increment granted after Summer School. Perm. EB + 9 units paid average of EA and EB for three years. PA for tuition paid for correspondence and extra-session courses. Tuition and residence costs \$50 per unit for Winter Session on leave of absence. Full credit for Commonwealth experience if recognized in part by Department. Teachers of slow learners or occupational one or two extra increments.
3. Kimberley	104	EB 4255 EA 4700 PC B.Ed. 5485 PB 6200 PA 6200	6575 7200 8335 8050 9375 9885	10 X 235 10 X 250 10 X 285 10 X 285 11 X 325 11 X 335	Elem.: over 10 div. 25% of (PC max. + 1 inc.) of PA max. 17%-25% (tr.). Sec.: 2% at 5%. Vice-prin.: Elem.: approx. 1/4 Sec.: 40%-60% in two years Dept. Head: \$350.	E over 50% in secondary paid PC. \$50 per unit below PB. Outside experience paid in full if recognized in part by Department.
4. Windermere	51	EB 4400 EA 4930 PC B.Ed. 5610 PB 6160 PA 6570 PA Mas. 6720	6725 7380 8410 8260 9560 10395 10645	5 X 275, 5 X 190 5 X 275, 5 X 215 5 X 350, 5 X 210 5 X 350, 5 X 210 5 X 400, 5 X 280 5 X 450, 5 X 315 5 X 450, 5 X 315	% of max. PC B.Ed. Elem., PA Sec. Elem.: over 5 teachers 6 1/2% + 1 1/2% per teacher. Sec.: over 5 teachers 12% + 2% (6-10), + 1% (11-20), + 1/2% (over 20). Two incrs. of \$200. Vice-prin.: 1/4.	EC paid EB0. EB certificated after 1962 restricted to EB7. E over 50% in secondary talking further training paid PC. Fees and \$50 a week for short non-credit courses. Full credit for out of province appointment on permanent re-appointment, payment retroactive to first year.

DIRECTOR	Name	No. of Teachers	Category	Min.	Max.	Increments	Principals' Allowances, Larger Schools	Remarks
7.	Nelson	159	EC EB EA PCB.Ed PC PB PA PA Mas.	2080 2180 4150 4950 5200 5200 \$100	4000 6350 7050 8150 7900 9200 10100	5 X 184 10 X 225 10 X 225 6 X 310, 5 X 248 6 X 295, 5 X 236 6 X 350, 5 X 288 6 X 400, 5 X 320	% of max. PC (Elem.), PB (Jr. Sec.), PA (other Sec.), 1% (10), 1% (over 20), to max. of 40%. Incr. of 3% on perm. appointment. Vice-prin.: 1/2. Dept. Head: \$350.	E in secondary taking further training. PC scale: other- wise \$300. Full credit for outside experi- ence up to 5 years for sec- ondary, then half credit. EC permanent paid EBO.
8.	Slocan	43	EC EB EA PCB.Ed PC PB PA PA Mas.	3660 4390 4840 5550 5305 6020 6230 6760	4600 6640 7290 8200 7855 9330 10250 10560	4 X 235 10 X 225 10 X 225 10 X 245 10 X 245 5 X 240, 5 X 274 10 X 350, 1 X 400	% of max. EA (Elem. and Sup.), PA (Sec. and Elem.-Sec.), 3% per teacher incl. principal if teach- ing 4 periods daily. 5 years service incr. for all principals with EA +.	E transferred to secondary paid FC. Master's scale: if teaching own subject, or holder of Master of Education degree with completed postgradu- ate work in subject which he is teaching, or qualified counselor. Summer School: \$50 per unit to maximum of \$300 for teachers below PB. \$50 per unit for other certificates provided courses related to subject taught. Winter Session: \$50 per unit. Return for two years. Full credit for outside experi- ence to 4 years, then half credit.
9.	Castlegar	113	EC EB EA PCB.Ed PC PB PA PA Mas.	3275 4200 4600 5200 5100 5700 6150 6460	3850 6450 7100 8170 7960 9360 10110 10420	4 X 150 10 X 225 10 X 225 11 X 270 11 X 260 12 X 305 12 X 330 12 X 330	Elem.: up to 10 rooms, 7% + 1% per teacher or EA max. Increments \$100, 2nd, 3rd, 4th yrs. Over 10 rooms, 15% + 1% per teach- er or EA max. Incr. of \$200 in 2nd, 3rd, 4th yrs. Sec.: 10% + 1% per teacher of PB Incr. of \$200 in 2nd, 3rd, 4th yrs. Vice-prin.: 1/2 of allowance and incre- ments. Dept. Head: \$300 + 2 increments of \$100.	E in secondary: PC less \$300 (EBO), \$200 (EB), \$100 (EA). Summer School: \$35/unit. Full credit for Commonwealth experience to 8 years.
10.	Arrow Lakes	34	EC EB EA PC PB PA	3400 4200 4650 5150 5740 6200	4200 6450 7160 8050 9370 10160	4 X 200 10 X 225 10 X 225 10 X 290 11 X 330 12 X 330	Elem.: 3% EB max. per teacher inc. prtn. Sec.: 3% PA max. (4), 1% PA max. (over 4) inc. prtn. Elem.-Sec.: 3% EB max. per elem. teacher + 3% PA max. per sec. teacher.	E over 50% in secondary paid PC. Summer School: \$100 per 3 approved units to maximum of \$200.
11.	Trail	253	EB EA PCB.Ed PC PB PA PA Mas.	4260 4700 5100 5450 5250 6250 6570	6510 7150 8150 7800 9250 10690 10470	10 X 225 10 X 245 10 X 245 10 X 265 11 X 310 12 X 320 12 X 325	Specified amounts, available at BCTF office.	E 50% in secondary \$300. Master's scale: if teaching own subject, or qualified counselor.
12.	Grand Forks	50	EC EB EA PCB.Ed PC PB PA PA Mas.	3450 4180 4640 5330 5085 5800 6155 6480	6430 7040 8050 7805 9200 9930 10215	10 X 225 10 X 245 10 X 245 10 X 275 10 X 275 11 X 310 11 X 310, 1 X 300	Amounts available at BCTF office.	E in secondary \$350. Permanent 2nd Class em- ployed as of Dec. 31, 1965. Paid \$4500, experience re- cognized by the Depart- ment.

13. Kettle Valley

31	EC	3450	6460	11 X 210
	EB	4150	7150	11 X 220
	EA	4650	7650	11 X 230
	PC	5250	8250	11 X 240
	PA	5850	8850	11 X 250
		6305	9305	11 X 335

Elem.: % of EB max. as below.
School Rate
In 100ms
1 2 3 4 5 6 7 8 9 10 11 12
1 2 3 4 5 6 7 8 9 10 11 12
Elem.-Sec. as above scale + 1% to 20%
Sec. Below 250 pupils: 10% to 20%
of PB max. Above 250 pupils: 15%
to 25% of PB max.
Elem.-prin.: 1/2
Vice-prin.: 1/2
E over 50% in secondary: two increments.
Qualification improvement bonus \$50/3 units while in employ of board. 5 year limit of payment on one scale.
Certification improvement credits obtained on leave of absence: \$50/3 units payments made at the rate of 1/4 total amount for 3 years.
Full Commonwealth and U.S. Experience as specialist or journeyman recognized up to 3 increments.

14. Southern Okanagan

92	EC	3250	3275	5 X 125
	EB	3900	3925	11 X 205
	EA	4500	4525	11 X 220
	PC	5000	5025	11 X 230
	PA	5600	5625	11 X 240
		6075	6075	11 X 335

% of PB max.
Admin.: per division up to 15: 1.7%
Elem.: per division up to 205: 2.05%
Elem.-Sec. as above scale + 1% to 20%
Super.: 1/4% per teacher.
Extra 2% if SA or over.
Vice-prin.: 1/2
Dept. Head: \$300.
E in secondary taking further training: PC scale less \$1500 (EC), \$700 (EB), \$200 (EA).
University degree plus teaching certificate allowed 3 or 4 years' experience for Special Class: two increments.

15. Penticton

173	EC	3250	3275	5 X 125
	EB	3900	3925	11 X 205
	EA	4500	4525	11 X 220
	PC	5000	5025	11 X 230
	PA	5600	5625	11 X 240
		6075	6075	11 X 335

% of PB max.
Elem.:
Enrollment 1st yr. 2nd yr. 3rd yr. 4th yr.
109-222 7% 14% 16% 18%
223-236 14% 17% 19% 21%
237-450 17% 20% 22% 23%
451-650 20% 23% 25% 26%
Elem.-Sec. and Sec.: 15% + 1/4% per teacher, two incls. at 3%.
Vice-prin.: 1/2
Second/Class Permanent paid to EB.
E in secondary 50% of time paid 1 category higher: \$75 for non-credit courses.

16. Keremeos

29	EC	3500	4100	5 X 120
	EB	4100	4700	10 X 205
	EA	4600	5200	10 X 220
	PC	5100	5700	10 X 230
	PA	5600	6200	10 X 240
		6150	6750	11 X 360

% of max. sal. based on certificate
Elem.: 2 rooms 4%, 3 rms. 6%, 4 rms. 8%, 5 rms. 12%, 6 rms. 15%, 7 rms. 18%, 8 rms. 20%, 9 rms. 22%, 10 rms. 24%
One incls. 2%
Sec.: under 250 pupils: 15%; 250-400, 30%; 401-600, 34%; over 600, 39%
Two incls. of 3% to 5%
Vice-prin.: Sec. 1/2
Elem.-Sec.: \$2500.
Incls.: 3 at \$400.
Vice-prin.: 1/2
E over 50% in secondary: \$300.
Medical plan other than P.T. MS. School board pays 1/2.
Summer School: (max. 6 units) \$75 per 3 unit course in first year, \$100 per 3 units second year, \$125 per 3 units thereafter.
Non-credit courses and workshops: \$5 per day, max. \$150.

17. Princeton

33	EC	3600	4050	3 X 150
	EB	4100	4550	10 X 220
	EA	4600	5050	11 X 220
	PC	5100	5550	11 X 230
	PA	5600	6050	11 X 240
		6100	6500	10 X 335

Elem.-Sec.: \$2500.
Incls.: 3 at \$400.
Vice-prin.: 1/2
E over 50% in secondary: \$300.
Medical plan other than P.T. MS. School board pays 1/2.
Summer School: (max. 6 units) \$75 per 3 unit course in first year, \$100 per 3 units second year, \$125 per 3 units thereafter.
Non-credit courses and workshops: \$5 per day, max. \$150.

DIS-TRICT	No. of Teachers	Category Min.	Max.	Increments	Principals' Allowances, Larger Schools	Remarks
18. Golden	67	EC EB EA PC PB PA	4000 4200 4800 5300 5500 6450	8 X 250, 1 X 220 8 X 250, 1 X 280 8 X 325, 1 X 300 8 X 410, 1 X 320 8 X 440, 1 X 380	Stipulated amounts for various schools. Details available BCITF offices.	E 50% in secondary, taking further training. PC scale less \$600 (EC), \$400 (EB), \$200 (EA). University credit courses — tuition fees. Full credit for Commonwealth and U.S. experience.
19. Revelstoke	71	EC EB EA PC PB PA	3500 4000 4500 5140 5700 6250	10 X 230 10 X 230 10 X 230 10 X 230 10 X 350 10 X 350	% of max. PC (Elem.), PB (Elem.-Sec.), PA (Sec.) Elem.-Sec.: 3% + \$125 (1-10), \$100 (11-15), \$50 (over 15) Elem.-Sec.: 10% + \$125 (1-10), \$100 (11-15), \$50 (over 15) Sec.: 15% + \$150 (1-10), \$100 (11-15), \$50 (over 15) Elem.-Sec.: 15% Vice-prin.: \$150. Dept. Head: \$400.	Permanent EC \$3900. E in secondary PC scale, \$90 for 3 units to higher certification. Full credit for all outside experience.
20. Salmon Arm	129	EC EB EA PC PB PA	3500 4000 4500 5000 5500 6100	6 X 100 11 X 200 11 X 220 11 X 270 11 X 315 11 X 350	Elem.: 10-33% of EA max. Elem.-Sec.: 20% or 25% PA max. Pr. Sec.: 35% PA max. Sr. Sec.: 34% PA max. Vice-prin.: 1/2 PA max. Dept. Head: \$350.	E in secondary taking further training, next higher scale. Permanent Second Class paid EB to 7th step. PC, PB or PA in elementary, secondary, teaching 50% secondary, one increment. On appointment full credit for outside experience including U.S., up to 4 years and half credit beyond full credit, on permanent appointment.
21. Armstrong-Spallumcheen	34	EC EB EA PC PB PA	3380 4040 4530 5020 5500 6020	6 X 140 8 X 200, 3 X 205 11 X 220 10 X 235, 2 X 225 9000 12 X 290 11 X 310, 1 X 300	Elem.: \$1500; \$1000. Sec.: \$2000. Vice-prin.: \$1000.	Permanent Second Class paid EB to 7th step. \$33.33% per unit to max. of \$200 to higher cert. Fees or tuition for non-credit course. Recognition of trades experience.
22. Vernon	167	EC EB EA PC PB PA PA Mas. Figures rounded to nearest dollar	3585 4045 4548 5345 5683 6185 6522 3800 4285 4821 5421 5852 6352 6843 7387	11 X 214 11 X 235 + 11 X 262 + 11 X 282 + 11 X 321 11 X 357 + 11 X 387 + 11 X 226 + 11 X 259 + 11 X 277 + 11 X 277 + 11 X 310 + 11 X 357 + 11 X 387 +	Elem.: 1 room—1 increment; 2 teachers 8% PB max.; next 4—3%; next 6—1 1/2% balance 1% Sec.: (N + 35) % X PA max. + 10%. N = number of teachers supervised. Vice-prin.: 1/2.	Permanent Second Class paid EB to 7th step. \$35 per unit Summer School up to \$5665 salary. Lumpy Second bonus: \$7500. PB or PA: \$625 Home Ec. PB below PB; others: \$500. Full credit for Canadian and U.K. experience if holder of permanent P.C. certificate in the district. Appointments in the district. Specialists: eligible for 3 years' credit for other occupation experience.

23. Kelowna	2292	EC	3200	3825	5 X 125	Elem.: % of PC max.	Full credit for Canadian and Commonwealth experience.
		EB	4000	6285	11 X 205	Sec.: % of PA max.	E in secondary paid on previous years' PC.
		EA	4500	6920	11 X 220	Mo. of teachers	
		PC	4945	7938	11 X 253	7-12	
		PB	5500	9152	11 X 305	13-18	
		PA	6135	9884	11 X 339	19+	
						Vice-prin.: 1/4	
						Dept. Head: \$400.	
24. Kamloops	374	EC	3600			% of PA max.	Permanent EC with 5 years' experience paid EB plus 5
		EB	4000	6300	10 X 230	Elem.: over 7 teachers 70% of (13% + 1% per teacher).	Increment School: \$35 per unit
		EA	4500	7050	10 X 250	Sec.: 90% of (13% + 1% per teacher).	Summer School: \$35 per unit
		PC	5100	8340	12 X 270	Elem.-Sec.: 100% of (13% + 1% per teacher).	Summer EB
		PB	5650	9265	11 X 300, 1 X 315	Incrs.: 3 at \$225	Full credit for Commonwealth experience.
		PA	6150	10115	13 X 305	Vice-prin.: 1/4, 3 incrs. at \$175.	Up to \$300 in Grade 1 with 3 years' primary experience.
						Dept. Head: Major \$500; Minor \$300.	
25. Barriere	22	EC	3600			Elem.: 2 rooms \$300; 3 rooms \$400.	E in secondary PC scale.
		EB	4000	6300	10 X 230	4 divisions and more—13% EA max.	Permanent Second Class paid EB to 7th step.
		EA	4500	7050	10 X 250	Sec.: 12% per teacher supervised.	Summer School: \$35 per unit.
		PC	5100	8340	12 X 270	Sec.: 12% PB max. + 1% per teacher supervised.	Full credit for Commonwealth experience.
		PB	5750	9265	11 X 300, 1 X 315	Three incrs. at \$225.	Related experience not recognized by D.C. max. of 3 years credit.
		PA	6150	10115	10 X 305, 2 X 455		
26. Birch Island	34	EC	3725	4385	3 X 230	% of principal's base salary:	E in secondary, PC scale to \$60 per unit to higher certification.
		EB	4125	6425	10 X 250	6% elem., 5% sec., plus \$125 per teacher.	Full credit for experience in Canada.
		EA	4675	7175	12 X 270	Incrs.: 3 at \$225.	Continuity of Service Bonus: 2nd year \$100, 3rd year \$200, 4th year \$300.
		PC	5225	8465	11 X 300, 1 X 315	Vice-prin.: 1/2, 3 incrs. at \$175.	
		PB	5775	9390	13 X 305		
		PA	6275	10240			
27. Williams Lake	168	EC	3600	4160	4 X 155	Elem.: above 4 teachers \$975-\$2475 based upon enrollment. Two teachers to \$1275-\$1875. Below 5 teachers \$325-\$775, 2 incrs. at \$100.	E in secondary \$200, \$225 for one-room schools with 4 grades.
		EB	4100	6300	8 X 225	Sec.: \$2100-\$3500 based upon enrollment. Two incrs. to \$2500-\$4500.	
		EA	4600	7075	9 X 250		
		PC	5150	8340	11 X 280		
		PB	5700	9300	12 X 300		
		PA	6150	10115	13 X 305		
28. Quesnel	142	EC	3200	4100	4 X 225	Mo. of teachers	E in sec. \$300.
		EB	4100	6300	8 X 275	Incr. principal	\$180 per 3 units to higher cert.
		EA	4600	7075	9 X 300	1-10	Full credit for approved Canadian, the Commonwealth and U.S. experience.
		PC	5200	8300	12 X 285	11-20	\$10 per month for 6 grades in class.
		PB	5740	9340	13 X 300	20+	
		PA	6200	10100		Vice-prin.: 1/4 for three years then 2/3.	
						Dept. Head: \$600.	
29. Lillooet	48	EC	3650	4050	2 X 300	Admin.: 10% of superv. allowance.	E in secondary, PC scale.
		EB	4050	4950	10 X 240	Superv.: 1st year \$115 (14), \$70 (over 14), 2nd year \$145 (14), \$70 (over 14), 3rd year \$170 (14), \$70 (over 14).	min. EB and EA, PC scale to max. for certification held.
		EA	4500	7050	10 X 250	Vice-prin.: 1/4.	Own choice, have EC to PA.
		PC	5100	8340	12 X 270		Full credit for outside experience.
		PB	5650	9365	11 X 300, 1 X 315		Special Class: \$200.
		PA	6150	10115	13 X 305		Occupational: \$500.

DISTRICT No. Name	No. of Teachers	Category Min.	Max. Increments	Principals' Allowances, Larger Schools	Remarks
30. South Cariboo	72	EC 3550 EB 4000 EA 4500 PC 5050 PB 5500 PA 6150	6300 10 X 230 10 X 245 12 X 260 12 X 290 13 X 300	Elem.: % of EB max. 6% + 2% per E in secondary taking further teacher training \$100. Sec.: % of PB max. 13% + 1% per \$50 training unit for credits to teacher. Vice-prin.: %.	E in secondary taking further training \$100. E in secondary, PC scale to step 9 (EB), step 10 (EA). Full credit for Commonwealth experience.
31. Merritt	75	EC 3500 EB 4000 EA 4500 PC 5050 PB 5550 PA 6150	6300 10 X 230 10 X 250 10 X 270 10 X 290 10 X 310 10 X 340, 2 X 225	% of EA max. (Elem.) PB max. (Sec.) Elem.: 4% first two rooms, 2% (3), 1% (13). Sec.: 23%. Intra.: 1% at 1% to 5% (Elem.), 5% and 7% (Sec.). Vice-prin.: %.	E teachers certificated after 1962 restricted to EB4. E in secondary, PC scale to step 9 (EB), step 10 (EA). Full credit for Commonwealth experience.
32. Fraser Canyon (Arbitration Award)	68	EC 3500 EB 4000 EA 4500 PC 5000 PB 5500 PA 6000	3300 6200 6380 8025 9135 9960 2 X 200 10 X 220 10 X 248 11 X 275 12 X 303 12 X 330	% of base salary. Admin.: 1/2% Elem., 3/4% Sec. and Elem.-Sec. Intra.: 2% (6), 1% (13), 1/4% (over 15). Vice-prin.: %.	Elementary in Junior Senior High \$265. \$30 per unit up to PB.
33. Chilliwack	299	EC 3500 EB 4000 EA 4500 PC 5000 PB 5500 PA 6000	3300 6100 6200 6850 7915 9100 9960 2 X 200 10 X 210 10 X 235 11 X 265 12 X 300 12 X 330	Elem.: % of EB max. 3% (4), 2% (4), 1% (over 9). Intra.: 3% at 3% (up to 9 teachers), 2% (over 9). Sec.: % of PB max. 2% (6), 1% (11), 1/2% (over 18). Intra.: 2 at 5% of PA maximum. Vice-prin.: %.	E in secondary taking further training PC scale. Special Class: \$100 after 1 year's experience, \$200 after 2 years' experience. Journeyman experience 1 increment for 2 years.
34. Abbotsford	213	EC 3500 EB 4000 EA 4500 PC 5000 PB 5500 PA 6000	3300 6100 6200 6850 7915 9100 9960 2 X 200 10 X 210 10 X 235 11 X 265 12 X 300 12 X 330	% of scale max. PC (Elem.), PB (Jr. Sec.), R (Sec.), Admin.: 6% (Elem.), 10% (Jr. Sec.), 10% (Sec.). Super.: Elem.: 2% (6), 1 1/4% (8), 1/2% (over 12). Jr. Sec.: 1 1/4% (8), 1/2% (16). Sec.: 1 1/4% (8), 1/2% (16), 1/4% (over 24). Vice-prin.: %.	E in secondary taking further training PC to 10th step. \$25 per unit further training, up to \$100.
35. Langley	203	EC 3500 EB 4000 EA 4500 PC 5000 PB 5500 PA 6000 PA Mas. 6300	3300 6100 6200 6850 7915 9100 9960 10260 2 X 200 10 X 210 10 X 235 11 X 265 12 X 300 12 X 330	Elem.: (500-701 pupils) \$2060-\$2678. Sec.: (401-800 pupils) \$1967-\$2675. (801-1200 pupils) \$1223-\$2675. Vice-prin.: %.	
36. Surrey	848	EC 3500 EB 4150 EA 4600 PC 5050 PB 5500 PA 6150 PA Mas. 6150	4600 6350 6850 8170 9205 10150 10356 4 X 100, 1 X 700	% of max. PC (Elem.), PA (Sec.) Elem.: 23% (to 300 pupils), 30% (300-650), 33% (650-750), 36% (over 750). Jr. Sec.: 3 1/4% (to 450 pupils) + 2% per 100 pupils over 450 to max. of 37%. Sr. Sec.: 3 1/2% (to 450 pupils) + 2% per 100 pupils over 450 to 55%, above 550 pupils—51%. Vice-prin.: %.	5th step of EC scale limited to permanent Second Class salary 1962 on Jan. 1. E in secondary paid EA + B \$235. Special Class \$200.

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DISTRICT	No. of Teachers	Category Min.	Max.	Increments	Private's Allowances, Teacher Schools	Remarks
44. North Vancouver	712	EB 4150 EA 4200 EC 4250 PA 4300 PA Mas. 6150	6350 6950 8170 9205 10150	10 X 220 10 X 235 12 X 280 13 X 285 14 X 300	% of PA (Mas.) max. 1.1% 401-600 20 601-800 23 801-1200 26 Incrs.: Two at 4% Vice-prin.: 1/2 Elem., 1/2 Sec. Dept. Head: \$500.	EB in secondary paid PC EC 2nd class 8th year EB. EC and class 8th year EB. EC paid EB minimum certifi- Summer: \$968 \$100, 1967 \$150, per 3 units (with 2nd class). PB + 15 units paid PA. Special Class: \$250 Half credit for experience in U.S.A. Credit for trades experience.
45. West Vancouver	293	EB 4150 EA 4200 EC 4250 PA 4300 PA Mas. 6150	6350 7130 8385 9205 10350	10 X 230 11 X 235 11 X 285 13 X 300 14 X 300	% of PA (Mas.) max. 1.1% Elem.: 18% (260 pupils) add. 100 pupils to 650. Sec.: 37% (to 400 pupils) + 4% (each add. 400 pupils). (Elem.), 3% (Sec.). Incrs.: Two at 2% (Elem.), 50% (Sec.) of Vice-prin.: 55% (Elem.), 60% (Sec.) of alice and incr. Dept. Head: Major \$792, Minor \$627.	EA teachers certificated after 1932 restricted to EA. E + 20 years' experience aged 65 years or over receive \$200 above maximum. PB + 20 years' experience aged 65 years or over re- ceive \$250 above maximum. EB + 3 units EA scale (for EA teachers) PA scale (for 2 PC + 9 units PB scale (for 2 PB + 12 units towards Mas- ter's, PA scale (for 2 years). SA/PA + 12 units towards Master's, PA Mas. scale (for 2 years).
46. Sechart	81	EB 4200 EA 4250 EC 4300 PA 4350 PA Mas. 6300	6450 7175 8115 9125 10150	10 X 225 10 X 250 10 X 300 10 X 350 11 X 350	Elem.: \$175 per tchr. (3), \$50 per tchr. (over 3). Sec.: \$225 per tchr. (3), \$50 per tchr. (over 3). Prin. Incl. in staff total. Incrs.: \$100 at \$100 each. Plus 1% for 1966, 7% for 1967.	E over 50% in secondary tak- ing further training. PC scale. Credit courses approved by Board, tuition fees paid. Non-credit courses: fees in summer: \$10 per day and expenses for transportation at other times. Up to \$5000 per year for teachers on leave of abs- ence for study. Special Class 50% or more, \$100. Full credit for Canadian, the Commonwealth and U.S. experience.
47. Powell River	161	EB 4300 EA 4350 EC 4400 PA 4450 PA Mas. 6500	4340 4380 4420 4460 4500	4 X 185 10 X 230 10 X 260 10 X 295 10 X 340	% of PA median. Elem.: 3% (2), 2% (4), 1% (over 6 tchrs.). Sec.: Specific percentages for each sch. Special award Federation office. Incr. \$100 at \$100 (half credit for Canadian exp. outside the district). Vice-prin.: 60% alice, full incr. Dept. Head: 5% PA median.	E in secondary \$200. Summer School: \$50 per unit. Up to \$5000 per year for teachers on Detached Duty. Special Class: \$300; \$200 for Grade 1 with 2 years' ex- perience. PB + 15 units, one extra in- crement. Full credit for Commonwealth and U.S. experience.

48. Howe Sound	79	EC EB EA PC PC Ed PB PA Mas	3500 4250 4700 5150 5150 5800 6200 6400	6500 7300 7300 8000 8000 9200 10000 10300	9 X 250 10 X 250 10 X 250 10 X 250 10 X 250 10 X 340 10 X 350 10 X 350	% of PC B. Ed. (Elem.), PA (Sec.) 2.5% (5), 1.7% (5), 1.4% (over 10). Incr.: 1% for each year above 2 Up to 6 years, \$150/yr. Depl. Head: 1st \$550, 2nd \$400.	E 50% in secondary taking further training \$200. Summer School: \$50 per unit to maximum of \$300. Detached Duty: 2/3 pay to a max. of \$5,000-\$750. Part- time \$200. Special Class \$200 credit for Canadian and Commonwealth public school experience and for some private schools.
49. Ocean Falls	53	EC EB EA PC PB PA	3800 4350 4950 5550 6150 6750	4500 5750 7650 8550 9450 10350	4 X 175 8 X 300 9 X 300 10 X 300 11 X 300 12 X 300	1 1/2% of PA max. per teacher. Incr. of 7% of principal's allowance after two years. Vice-prin.: 1/2 admin. and superv. Incr. of 7% vice-prin. alic. after two years.	E in secondary \$400. \$50 per 3 units above perman- ent to higher certificate. Summer School: \$205 to \$310. Winter Session: Maximum of \$625. Full credit for approved Commonwealth experience.
50. Queen Charlotte	25	EC EB EA PC PB PA	3350 4500 5050 5650 6150 6700	4150 6340 7345 8350 9670 10550	4 X 200 8 X 230 9 X 255 10 X 275 11 X 320 11 X 350	10% of max. for cert. held plus 2% per teacher. Vice-prin.: 1/2.	E in secondary \$300. Summer School: \$50 per unit. Travel Allowance: \$100 to \$125. Service bonus 4% based on certificate and experience, paid 3rd, 4th years in district.
51. Portland Canal	5	EC EB EA PC PB PA	2800 3400 4000 4600 5100 5650	4380 5250 6250 7350 8400 10550	4 X 170 8 X 230 9 X 250 10 X 275 11 X 300 12 X 325	1 tchr. \$200; 2 tchrs. \$300; 3 tchrs. \$400; 4 tchrs. or more 10% of his max. + 2% per tchr.	Summer School: \$50 per unit. Moving allowance: one-way fare up to \$400. Continuous Service Grant: \$100 after one year + \$50 each year to six.
52. Prince Rupert	120	EC EB EA PC PC Ed PB PA PA Mas	3500 4200 4800 5350 5850 6350 6450 6450	4180 6040 7050 8375 8100 9200 10350 10675	4 X 170 8 X 230 9 X 250 11 X 275 10 X 275 11 X 300 12 X 325 13 X 325	% of \$4800 (EL), \$6450 (Sec.) 5% (10), 1% (over 10). 1-4 rm. schools \$100/rm. elem. \$200/rm. sec. Depl. Head: \$300.	E in secondary taking further training \$300. \$50 per unit to \$300. Commonwealth trained: full credit for Commonwealth experience, others: full cre- dit to 5 years. Moving allowance: one-way fare up to \$400.
53. Terrace	121	EC EB EA PC PB PA	3500 4200 4800 5350 5850 6450	4180 6040 7050 8375 8100 9200 10350 10675	4 X 170 8 X 230 9 X 250 11 X 275 10 X 275 11 X 300 12 X 325 13 X 325	Elem.: \$150 plus \$150 (7), \$100 (3). \$50 (10), \$25 (over 20). Sec.: \$250 plus \$150 (3), \$200 (5), \$100 (9), \$50 (5), \$50 (over 20). Incr.: 1% for each year above 2 Up to 6 years, \$150/yr. Depl. Head: 1st \$550, 2nd \$400.	E in secondary taking further training \$300. \$50 per unit to \$300. Commonwealth trained: full credit for Commonwealth experience, others: full cre- dit to 5 years. Moving allowance: one-way fare up to \$400.
54. Smithers	61	EC EB EA PC PB PA	3500 4200 4800 5350 5850 6450	4180 6040 7050 8375 8100 9200 10350 10675	4 X 170 8 X 230 9 X 250 11 X 275 10 X 275 11 X 300 12 X 325 13 X 325	Elem.: \$150 (10), \$110 (over 10). Elem. Sec. and Sec.: \$250 (10), \$110 (over 10). Vice-prin.: 1/2.	EC in sec. \$300, EB \$400, EA \$500. \$50 per unit for E cert., \$50 per 3 units for P cert., for perman. stat. 5 units per year max. Full Commonwealth exp. half U.S.A. experience.

DISTRICT No. Name	No. of Teachers	Category M.L.	Max. Increments	Principals' Allowances, Larger Schools	Remarks
55. Burns Lake	54	EC 3200 EB 4100 EA 4600 PC 5175 PB 5775 PA 6200	4100 6300 7075 8420 9375 10100	4 X 225 8 X 275 9 X 275 11 X 295 12 X 300 13 X 300	Elem.: \$170 (10), \$115 (over 10). Elem. Jr. Sec.: \$210 (10). Sec.: \$230 (10), \$110 (over 10). Supervising prin.: \$90 per tchr. for tchrs. in other schs. Vice-prin.: 1/2.
56. Vanderhoof	71	EC 3600 EB 4100 EA 4300 PC 5175 PB 5775 PA 6200	6300 7075 8420 9375 10100	8 X 275 9 X 275 11 X 295 12 X 300 13 X 300	Elem.: \$180 (10), \$105 (over 10). Elem. Jr. Sec.: \$215 (10), \$105 (over 10). Sec.: \$240 (10), \$105 (over 10). Supervising prin.: \$65 per tchr. not in his sch. Vice-prin.: 1/2.
57. Prince George	388	EC 3600 Int. EB 4100 EA 4600 PC 5175 PB 5775 PA 6300	4100 Perm. 6300 7075 8420 9375 10110 10250	8 X 275 9 X 275 11 X 295 12 X 300 12 X 300 12 X 330	Sec.: Admin.: Sr. 13%, Jr. 10.5% of basic sal. Superv.: \$150 (10), \$100 (over 10), \$50 (over 20). Elem. Jr.: as above. Elem. Admin.: 8% basic scale. Superv.: \$125 (10), \$75 (10), \$50 (over 20). Dept. Head: Major \$630, Minor \$420.
58. McBride	37	EB 4150 EA 4650 PC 5225 PB 5825 PA 6250	6350 7125 8425 9425 10150	8 X 275 9 X 275 11 X 295 12 X 300 13 X 300	Admin. Alice per tchr. including prin., \$220 (Elem.), \$200 (Elem. Jr. Sec.), Incrs.: Three at \$225.
59. Peace River South	212	EC 4000 EB 4150 EA 4650 PC 5200 PB 5750 PA 6300	6250 7159 8675 8800 9350 10050	4 X 260, 5 X 212 6 X 270, 6 X 230 6 X 290, 7 X 275 6 X 290, 6 X 275 6 X 320, 6 X 280 6 X 325, 6 X 300	Under 10 divisions: specified amount from \$335 to \$1400. 1-3 increments at \$150. Ex. Sec.: Jr. Sec. \$110, Sec. \$110. Enroll- ment below 425 425-532 533-640 641-748 above 749 3 increments of \$200 Vice-prin.: 1/2 Dept. Head: \$350 Incrs.: 8 at \$50

E in secondary paid PC to
maximum of 6th step.
\$50 per unit up to 7th.
Winter session bonus at rate
\$50/dy. for Canadian, the
Comp. wealth and U.S.A. ex-
perience.
Consecutive service: \$100 per
year for 3 years for perma-
nent staff excluding prin-
cips.

Permanent EC paid EB 2.
Summer session \$50 per unit.

60. Peace River North	147	EC EB EA PC PB PA	3500 4250 4750 5350 5900 6400	4300 6600 7300 8540 9350 10350	4 X 200 9 X 250 10 X 265 11 X 260 11 X 290 12 X 330	Admin. 5% of prin. base sal. (Elem.), 10% (Sec.). Superv. \$150 (10), \$100 (over 10). Incrs.: 3 at \$100 starting 3rd year. Vice-prin.: 1/2 inc. 3 at \$50. Dept. Head: 5% basic salary.	E in secondary \$200. Summer Session: \$50 per unit. Full credit for public school teaching experience in Commonwealth and U.S.A. Half credit for trades experience to 4 years.
61. Greater Victoria (Arbitration Award)	1023	EC EB EA PC PB PA	3325 4000 4500 5000 5500 6000	4105 6300 6900 8060 9205 10130	4 X 195 10 X 230 10 X 240 12 X 265 13 X 285 14 X 295	% of PA max. (% of PB max. if cert. is below PB). Teacher: Enlist- Ment- 1-25 1-25 31-35 36-40 41-45 46-50 51 and over Incr.: 3 after scale max. Vice-prin.: 1/2 alices., 1/2 incrs. Dept. Head: Enrollment 400-799 above 800	E teachers certificated after 1963 restricted to 900 EBs, BA1, Class: \$150. Special Vocat.: 1/2 credit for 10 years. Journeyman experience to 10 years.
62. Sooke (Arbitration Award)	142	EC EB EA PC PB PA	3225 4000 4500 5000 5500 6000	4105 6350 6950 8060 9150 10130	4 X 195 10 X 230 10 X 240 12 X 265 13 X 285 14 X 295	First 4 teachers Next 5, each Over 9, each Incrs.: three annual incrs. after perm. Vice-prin.: 1/2 alices., 1/2 incrs. after two yrs.	Beginnng teachers limited to 1000 EBs, BA1, BA2, BA3. E in secondary taking further 1/2 credit for public school teaching experience above EB. ID: 1/2 credit for journeyman experience up to 10 years.
63. Saanich	147	EC EB EA PC PB PA	3400 3950 4450 4950 5500 6000	3645 6400 6900 8010 9205 9930	1 X 245 10 X 245 10 X 255 12 X 285 13 X 295 14 X 295	Elem.: 12% PC max. + 1% for every 30 pupils. Sec.: 12% PA min. + 1% of PA max. Incr.: 3 in alt. yrs. at \$150 (3-5 yrs), \$200 (6-8), \$250 (over 8). Sec.: 3 in alt. yrs., 2 X \$300, 1 X \$350. Dept. Head: \$350.	EB or EA in secondary: one increment above scale.
64. Gulf Islands	27	EC EB EA PC PB PA	3330 4065 4565 5065 5565 6065	4170 6365 6965 8125 9270 10195	4 X 195 10 X 230 10 X 240 12 X 265 13 X 285 14 X 295	Specified amounts, available at BCTF Office. E in secondary taking further training PC scale. After 1 year, 1/2 raise to next higher certificate per 6 units. \$25 per unit to SA/PA or approved courses. Educational: 100% after 3 years, up to 2 1/2 salary, re-EB with 30 years and over 55 years old, \$200.	E in secondary taking further training, next higher scale. PB + 15 units: \$300. Special Class: \$300. Sick Leave Bank.
65. Cowichan (Arbitration Award)	189	EC EB EA PC PB PA PA Mas.	3340 4070 4570 5070 5570 6070 6190	4124 6360 6960 8100 9285 10190 10390	4 X 195 10 X 230 10 X 240 12 X 265 13 X 285 14 X 300 14 X 300	% of PA max. Admin. Sec.: 15% for 8 or more teachers. Elem.: 1% for 8 or more teachers. Superv.: 1% for each of (8), 1/2 % (over 8). Vice-prin.: 1/2. Incrs.: 5 at 3%. Dept. Head: \$325.	E in secondary taking further training, next higher scale. PB + 15 units: \$300. Special Class: \$300. Sick Leave Bank.

66. Lake Cowichan (Arbitration Award)	67	EC EB EA PC PB PA	3490 4180 4600 5180 5767 6190	4274 6510 7100 8300 9485 10390	4 X 195 10 X 223 10 X 223 12 X 280 13 X 285 14 X 300	Schools above 5 teachers: % of max. salary, EA (Elem.), PA (Sec.), 1% plus 1% per tchr. Incrs.: 5 at 1% Vice-prin.: 1/2	E teachers certificated after 1962 restricted to EC0, EB4, EA7. E in secondary, 2 increments above scale. \$90 per three units after perm. certification. Payment limited to three years EB, EA; five years PC, PB. Educational leave after 3 years, up to 2/3 salary, return for 3 years. Outside experience equal to Dept. recognized credit plus one year for each year in the district to scale max.
67. Ladysmith (Arbitration Award)	92	EC EB EA PC PB PA PA Mas.	3500 4000 4500 5250 5050 5550 6050 6250	6350 6950 8165 7965 9090 9770 9970	10 X 235 10 X 245 11 X 265 11 X 265 12 X 295 12 X 310 12 X 310	Elem.: % of PC max. Admin.: 16% (3-4 tchrs.), 18% (5-7), 20% (over 8). Super.: 1% per tchr. supervised. Sec.: 25% PA max plus 1/2% per tchr. supervised. Vice-prin.: 1/2 Dept. Head: \$300 + 2 incrs. at \$100.	E in secondary: PC less \$300 (EC0), \$200 (EB), \$100 (EA). Permanent Second Class paid EB to 7th step. \$110 per 3 units towards next certification. \$150 per 3 units for non-credit courses. PB + 15: \$200. Special Class: \$250. Occupational Class: \$300. Split-grades: \$200.
68. Nanaimo	303	EC EB EA PC PB PA PA Mas.	3340 4030 4450 4980 5567 5990 6190	4124 6360 6950 8100 9285 10190 10390	4 X 195 10 X 223 10 X 223 12 X 280 13 X 285 14 X 300 14 X 300	% of PA max. Admin.: 15% (Sec.), 7% (Elem. over 8 rms.). Super.: 1% (8), 1/2% (over 8). Incrs.: 5 annual at 3%. Vice-prin.: 1/2 Dept. Head: \$325.	Tuition fees and workshop fees. PB + 15: \$300. Special Class: \$300. Sick Leave Bank.
69. Qualicum (Arbitration Award)	61	EC EB EA PC PB PA	3400 4000 4500 5000 5500 6000	4100 6360 6950 8120 9140 9900	4 X 175 10 X 235 10 X 245 12 X 260 13 X 260 13 X 300	Admin.: \$325 (EL), \$350 (Jr. Sec.), \$375 (Sr. Sec.), \$400 (per teacher, Sec.). Super.: \$100 (over 8). Incrs.: at \$150 (over 8). Vice-prin.: 1/2 admin. and superv.	E in sec.: \$300. \$40 per unit advanced study.
70. Alberni (Arbitration Award)	243	EC EB EA PC PB PA	3450 4050 4550 5050 5550 6050	4050 6350 7000 8020 9090 9770	3 X 200 10 X 230 10 X 245 11 X 270 12 X 295 12 X 310	% of max. sal. EA or prin's scale, whichever higher (EL), PA (Sec.), Elem.: 4-9 tchrs. 12%; over 9, 18%; plus 1% per tchr. Jr. H.: 1-5 tchrs., 20%; over 5, 25%; plus 1/2% per tchr. Sr. H.: 30% plus 1/2% per tchr. Vice-prin.: approx. 60% (Elem.); approx. 65% (Sec.). Dept. Head: 5% PA max.	E in secondary taking further training, next higher scale. Full credit for Commonwealth experience for permanent cert. All teachers paid \$100 above printed scale.
71. Courtenay	200	EC EB EA PC PB PA	3400 4000 4500 5000 5500 6000	4100 6300 6900 7860 9090 9900	4 X 175 10 X 230 10 X 240 11 X 260 12 X 285 13 X 300	% of PA max. (Sr. Sec.) PB other (over 13). Super.: 3% (3), 2% (4), 1% (5), 1/2% (over 13). Admin.: Elem.: 20% of superv.; Sec.: 45% of superv. Vice-prin.: 1/2 Dept. Head: \$350.	E teachers certificated after 1962 restricted to EC0, EB4, EA7. E in secondary, 2 increments above scale. \$50 per unit in secondary. E 50% of time in secondary, scale position + \$300. \$35 per unit for each of first 12 units to higher certificate.

DISTRICT No. Name	No. of Teachers	Category Min.	Max.	Increments	Principals' Allowances, Larger Schools	Remarks
72. Campbell River	161	EC 3610 EB 4042 EA 4635 PC 5083 PB 5690 PA 6364	4321 4973 5685 6397 7109 7821	3 X 237 10 X 243 10 X 250 11 X 256 12 X 262 13 X 268	% of \$10000. Admin.: 5% (Elem.), 11% (Jr. Sec.), Super.: 3% (Sec.) Superv.: 1% (15) Incrs.: 3 at \$200 (Elem.), \$250 (Sec.). Vice-prin.: 1/2 Elem., 6/10 Sec. Dept. Head: \$300 and \$400.	E in secondary taking further training \$200. Professional Improvement Summer or Winter: \$100 + \$50 per unit. Detached Duty: Up to \$12000 total, 6 years in district re- turn for 3 years. Full credit for Commonwealth and U.S.A. experience. Half credit for up to 10 years trade or industrial exper- ience.
75. Mission	110	EC 3500 EB 4000 EA 4500 PC 5000 PB 5500 PA 6000	3900 4400 4900 5400 5900 6400	2 X 200 10 X 210 10 X 215 11 X 220 12 X 225 12 X 230	Elem.: Admin.: 5% of basic salary. Super.: 3% of EC max. 2% (6), 1% (6), 1/2% (over 12), 3% (4), 2% (3). Sec.: 2% of PA max. 3% (4), 2% (3). 1 1/2% (3), 1% (10), 1/2% (over 20). 80% of above allocated first year. Vice-prin.: 1/2 Dept. Head: \$300.	\$100 per 2 units for E teach- ers with less than 6 years experience or under 6 units prior to higher certi- fication are excepted.
76. Agassiz (Arbitration Award)	38	EC 3500 EB 4000 EA 4500 PC 5000 PB 5500 PA Mas. 6300	3900 4400 4900 5400 5900 10260	2 X 200 10 X 210 10 X 215 11 X 220 12 X 225 12 X 330	\$218 (8) \$109 (over 8, prin. exclud.). Vice-prin.: 1/2.	EB or EA in secondary tak- ing further training paid FC. Those ineligible for EB per- manent paid EB to 6th step. \$40 per unit advanced study.
77. Summerland	49	EC 3500 EB 4030 EA 4510 PC 5045 PB 5560 PA 6180	6230 6330 6430 6530 6630 6730	11 X 200 11 X 220 11 X 225 11 X 230 11 X 235 11 X 325	Specified amounts, available at BCTF office.	E in secondary next higher scale to maximum for cer- tificate held. Permanent Second Class paid EB to 7th step.
78. Enderby	35	EC 3500 EB 4000 EA 4500 PC 5050 PB 5650 PA 6100	6150 6250 6350 6450 6550 6650	10 X 215 10 X 220 10 X 225 11 X 230 11 X 235 11 X 340	Elem.-Sec.: (combined 401-600 pupils) 25% PB max., 2 incrs. of 5% PB max. Vice-prin.: Elem.: 12 1/2% - 17 1/2% of EA max. Sec.: 12 1/2% - 17 1/2% PB max.	E in secondary next higher scale to one increment under maximum. Permanent Second Class paid EB to 7th step. \$25 per unit to higher certi- fication above EB, marks over 60%. Full credit for Canadian ex- perience.
79. Ucluelet-Tofino	24	EC 3400 EB 4360 EA 4900 PC 5430 PB 5960 PA 6390	4200 4660 5120 5580 6040 6500	4 X 200 10 X 250 10 X 260 11 X 275 12 X 295 12 X 320	Elem.: \$180 per teacher (incl. prin.). Sec.: \$250 per teacher (incl. prin.).	Permanent second class paid EB to 6th step. Summer School \$100 per 3 units. IE half credit for trade xrn. to 5 years.
80. Kitimat	100	EC 3625 EB 4360 EA 4960 PC 5420 PB 5945 PA 6480	4345 4680 5020 5360 5700 6040	4 X 180 4 X 215 4 X 225 4 X 235 4 X 245 4 X 255	% of PA max. Elem.: 13% up to 10 rms., 18% (10- 18 rms), 25% (19 and over). Sec.: 33%. Incrs.: 3 at 2.75% Vice-prin.: Elem.: 1/2 Sec.: 6/11 Dept. Head: 4% 6 1/4% in three incrs.	Summer School: \$50 per ap- plicable unit. Full credit for outside exper- ience. Moving allowance and rental assistance under certain conditions. Special Class: \$300.

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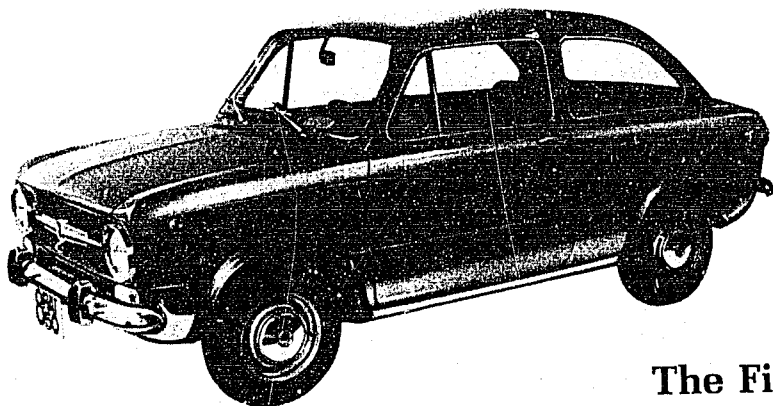
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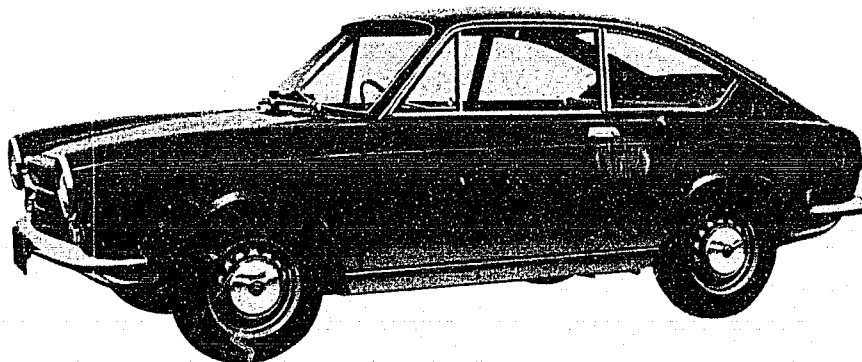
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THE B.C. TEACHER

Like Ripples in a Pool

Continued from page 262

currently attending the University of Ottawa. Dick Hibberd is a Canadian who teaches at Max Cameron Secondary School in Powell River, B.C. The two teachers met and became friends in the summer of 1964 when Hibberd took part in Project Africa. This is a program conducted each summer by the Canadian Teachers' Federation which sends top-flight Canadian teachers to Africa where they assist with courses designed to help African teachers upgrade their qualifications. Mattenje was one of the African educators who worked side-by-side with the Canadians on these courses. Together they worked to help teacher-colleagues. And they discovered something that Canadians and Africans discover each year in Project Africa—teachers on both continents have similar problems and similar hopes; each had something to contribute to the education and understanding of the other.

Like all the Canadians who participate in Project Africa, Dick Hibberd continued to participate long after he returned to his own classroom. He corresponded with other Canadian teachers who were about to leave Canada, either with another Canadian Teachers' Federation Project Africa team or under the auspices of the External Aid Office. He gave talks and showed slides to various groups and organizations, close to 60 in all. And Project Africa became a part of school in Powell River; elementary and secondary pupils established pen-pal relationships through Hibberd's contacts in Malawi and senior students engaged in advanced project studies of East and Central Africa.

But Project Africa really made an impact on Powell River when Dick Hibberd invited Dick Mattenje for a visit last summer. School was out at Ottawa U. and Mattenje was happy to accept. And Powell River was soon happy to 'accept' Dick Mattenje.

'The visit was a far greater success than I had ever hoped for,' Hibberd was to remark later.

'I'll be back,' a happy Mattenje has vowed.

The African teacher appeared in 10 elementary and secondary schools where he taught lessons about Malawi to classes ranging from kindergarten to senior matriculation. He was guest speaker at school assemblies and at various adult banquets and meetings. His initial public appearance at a Commonwealth Day ceremony was a rousing success and he spoke to over 500 children and adults. The school choir even sang the Malawi National Anthem. Mattenje became so popular that the Hibberd home became a booking agency for his services.

In addition to his activities in the schools, Mattenje talked to Department of Education officials and External Aid appointees in Victoria, was a popular figure at International House on the UBC campus during the summer session he attended, went on a motoring holi-

day to the Okanagan Valley with the Hibberds and led a busy social life in Powell River.

'I was in the Hibberd family for six weeks,' the African teacher said. 'They accepted me both as a friend and as a member of their family. I felt very much at home and my six-week stay seemed to last only one week.'

'The Hibberds introduced me to their friends, who in turn were very friendly to me. They invited me to their homes.'

Dick Mattenje has undoubtedly seen more of Canada than many Canadians. He attended a meeting of Town Council as a special guest, accompanied the project engineer on a tour of a paper mill, took a guided tour over the mountains where logging is done and was taken on a plane ride so he could see more of the country around Powell River.

'I saw the building of roads, the felling of trees, the loading and transportation of logs,' Mattenje recalled. 'I was given vip treatment and I came to honor the people for what they had shown me and done for me.'

Powell River seemed convinced that their visitor rated vip treatment. There was hardly a soul in the community of 15,000 who hadn't met or heard of him and teachers praised his informative and easy way in the classroom.

'Project Africa certainly had its impact on this part of the Pacific Coast,' Dick Hibberd remarked.

Grade 6 pupils at one school made scrapbooks about Powell River and B.C. and Mattenje sent these to a school in Blantyre, Malawi. The Canadian children are now looking forward to receiving similar books from their African counterparts.

Dick Mattenje was no stranger when he walked the streets of Powell River. He was later to remark:

'When I was walking the streets I was amazed to hear children shout: "Hullo, Mr. Mattenje. Mummy, Daddy, that is Mr. Mattenje. He talked to my class about Africa"; and so on. These friendly shouts from the children will ring in my ears for a long time. I will remember these children.'

Powell River certainly remembers its African visitor.

'He left Powell River months ago,' said Dick Hibberd, 'and still a day never goes by in which enquiries are not made of him. Most people wish to know when he may return for a visit. It seems to me that Project Africa will have more than a token effect over the years on Canadian communities.'

Says Mattenje; 'I must say that what Mr. and Mrs. Hibberd have done for me is wonderful and I will always remember it. We all talk of how wonderful the world would be if people of different colors lived together but we do nothing beyond that. The Hibberds have proved something beyond mere talk—they have put it into practice. Their friends repeated this.'

And so the ripples spread. This year, the Canadian Teachers' Federation will send its biggest team ever on Project Africa. □

A UNIQUE TEACHERS' ORGANIZATION

TOM ALDCORN

THE CANADIAN COLLEGE OF TEACHERS is a national organization which draws its members from all levels of the teaching profession; elementary public and separate schools, secondary and private schools, administrative and supervisory personnel, teacher training colleges, faculties of education, universities, and departments of education. It is the one teachers' organization in Canada which provides a common meeting ground for all persons in the profession. This was one of the purposes behind its conception. Another purpose was to form an independent nationwide society of teachers which would be autonomous and unhampered by provincial restrictions.

In February 1966 the College was eight years old. The Canadian Teachers' Federation brought about the formation of the College of Teachers in the belief that such a body would be complementary to the federation. It was felt that the College could promote some ideas and concepts on a national scale because it was not constituted by

ten provincial affiliates and that it would bring about more articulation between and among the different levels of the profession.

The College has already, on eight occasions, been able to bring together teachers from all levels for a sharing of information and ideas pertaining to education everywhere in Canada. Ideas have been discussed on a professional and intellectual plane. There is no doubt that such meetings have led to a certain rapport between the groups. The meetings have been addressed by members of the College and by some friends from outside the society. Papers have been given on history, biography, research, philosophy, and methodology. Teachers from the public and secondary schools have discussed these with university professors and officials of departments of education. In these discussions the stature of a person is measured more by professional competence than academic attainment.

The aims and objectives of the College as set forth in the constitution are not unlike those of similar organizations. The College is interested only in the professional side

of teachers' lives and does not transgress on the prerogatives of teachers' federations, who originally concerned themselves with the protective aspects. The College hopes to establish a learned society within the teaching profession; to encourage the continued improvement in academic standing of teachers; to promote professional growth in teachers; and to improve the quality of public education at all levels. To establish the image of what is believed to be a good teacher of proven professional competence is one of the prime objectives of the College. It is hoped that the College will gain the confidence of departments of education across the country, so that just being a member of the College will put the stamp of approval on the individual. The College will eventually become a clearing-house for the dissemination and evaluation of new ideas. The hope is often expressed that the College will be a prestige organization, and that members will be given the same esteem as those of other professional colleges and academies. These, then, are the immediate objectives of the College of Teachers.

The author is president of CCT. The article is reprinted with permission from The Educational Courier.

All the papers and addresses given at past annual meetings have been published in a yearly journal of proceedings. The booklet is sent to all members each year. Current happenings each year are recorded in historical form and filed. These two articles will some day form the nucleus for a history of the College, and will be the basis of a reference and research library.

Requirements for admission to membership are a teacher's certificate, a degree from a recognized university, five years' successful teaching experience, good standing with other professional bodies, and contribution to educational, professional or community growth. A person without some of these requirements may apply and admission may be granted by the Council if the applicant is deemed to be a good prospective member. The membership committee screens all applications. If the applicant does

not measure up to the standards set, admission is deferred or refused. In this way the College is building a membership of the highest professional order.

There are two classes of membership: members and fellows. A member may apply for fellowship after two years if he holds an earned second degree at the master's level or higher. An applicant for fellowship must submit to an interview with three fellows of the College.

A Council of nine members is the executive body of the College. The Council is responsible to the membership for its actions. It acts for the College between annual meetings. From the members of Council, the president and the vice-president are chosen. The Council appoints a secretary-treasurer and an office assistant. There are four standing committees: membership, fellowship, editorial, and program. The office of the College is in the

Canadian Teachers' Federation House, 444 MacLaren St., Ottawa 4, Ontario.

Some names that have given support and dignity to the college are: Dr. S. G. McCurdy, FCCR, St. John's, Nfld.

Dr. Frank MacKinnon, Charlottetown, P.E.I.

George MacIntosh, Halifax, N.S.
G. Forbes Elliott, FCCR, East St. John, N.B.

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Dr. George Flower, FCCR, Toronto, Ont.

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ARE TEACHER EDUCATION PROGRAMS UNREALISTIC?

I. N. BERLIN

MOST TEACHERS ARE BEING TRAINED to teach children from stable homes, children who tend to stay in the same school district most of their lives, children whose parents' aspirations for them are similar to those which professors of education probably have for their own children. In many cases, these are not the kinds of children teachers find in modern classrooms. Psychotic disorders and severe character disorders appear to be increasing in early childhood. Antisocial, aggressive, hostile behavior seems to appear more frequently and the ties between parent and child seem

more fragile than ever.

Investigation has shown that in many cases the best teachers have had special training in teaching emotionally disturbed, retarded, or handicapped children. This seems to have prepared them more adequately for the 'normal' classroom of today.

The general belief that teachers must suppress their own feelings of upset, discouragement, and anger about difficult classroom situations and should always present a facade of loving calm is unfair to teachers. The emotional cost is too high. The prevalent expectation that new tea-

chers have of themselves is that they must love all their charges and that if they are good and effective teachers, their students will love them.

Teachers who have been taught that undying love will work miracles with children who are sullen, indifferent and angry have been done a disservice by their teachers and supervisors. The reality is that it is impossible for many teachers to love 35 to 45 students, many of whom are behavior problems. Expressing feelings of anger, frustration and hopelessness does not make a teacher a 'bad' teacher.

Unrealistic teacher education often stems from the fact that many professors and supervisors have been so far from classroom experience themselves for so long that they are applying educational principles to a hypothetical and often nonexistent child and classroom. The student-teacher too often practises on motivated children who have already been well started in their learning by an effective teacher. Classroom problems seem to center on curriculum. Rarely are student-teachers helped to learn how to keep their heads above water and to survive in an atmosphere of educational chaos.

The prompt expression of a teacher's annoyance and anger toward a disruptive child, coupled with some personal attention to help him begin to do some school work, may begin to settle such a child down, whereas an exasperated or sweet reminder without any follow-

The author, of the Department of Psychiatry, University of California, is psychiatric consultant to the San Francisco schools. The article was supplied by CTF Distribution Service.

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THE B.C. TEACHER

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through or help is like the water that runs off a duck's back. Direct expression and sharing of one's feelings with sympathetic colleagues is also an important safety valve.

Most new teachers are not prepared for the emotional immaturity of their pupils. They are not helped to understand that hyperactivity, truculence, indifference, and withdrawal may all be expressions of disordered parent-child relationships. Unless one is informed about such behavior, it is difficult to recognize it as a call for help and often a desperately expressed hope that some adult will provide the persistent concern that his parents, for various reasons, are unable to give.

Teachers are frequently told now that it is their job to diagnose and treat the emotional problems of their students. How teachers are to find time to carry out this function, to say nothing of learning new techniques and methods which take many more years of training, is a mystery. However, the educative efforts of skilled teachers play an important part in the recovery of even psychotic children. Beginning to learn academic material is one way of beginning to deal with the real world. In teaching, the teacher is performing an important mental health task.

Today's teacher education institutions must begin to help their students cope with parents who want to have nothing to do with their child's education. Many parents today place the whole problem of the child, his discipline and behavior, in the teacher's lap for solution. Teachers must recognize the existence of such parents and learn that one approaches these parents not with accusations which increase their feelings of frustration and helplessness, but with some statement of the child's potential for learning and a discussion which stresses some possibility of working the problems out. Helping dissatisfied, unhappy parents to feel important to their child is no small accomplishment. □

COVER STORY

Craigflower School

THE FIRST SCHOOL in British Columbia was a private one conducted by the Reverend Robert Staines, Chaplain of the Hudson's Bay Company at Fort Victoria in 1849. At about the same time Father Lamfrit, a Catholic missionary, started a Catholic school in Victoria. By 1855 there were schools in operation at Victoria, Esquimalt, Nanaimo and Craigflower, on the outskirts of Victoria. The Craigflower school-house is the only one of these pioneer schools that remains standing today. Indeed, it is

the oldest school building west of Winnipeg.

It stands among fine old maple trees beside the quiet waters of the upper arm of Victoria's harbor. Its first teacher was Mr. Charles Clarke, who came by sailing ship around the Horn. The rooms on the top floor of the school were the living quarters of the schoolmaster and his family.

Today the school building is preserved as an historical museum by the Native Sons and Daughters of B.C. □

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journalism to the rescue?

LAST MONTH I MENTIONED one or two areas in which English as communication seemed to me to be bogged down. There is no doubt in my own mind that those operating at the higher levels of English scholarship appear to have an aversion to the use of clear and concise language, preferring to dress up the simplest idea in ponderous, pedantic prose. They seem far more interested in *how* something is being said than in *what* is being said.

I have a feeling that one reason for so much dull writing on language at the higher levels is that most of the writers never had to compete on the open market with full-time professionals; have seldom had to get and keep the attention of editors and readers other than specialists like themselves.

When you are writing for a select group of specialists on topics of (let's admit it) limited appeal, and when you are assured of publication in a safe, non-competitive professional journal, you don't have to worry about clarity, precision or economy. You can be as woolly as you want—your readers are conditioned to it, and won't complain.

If all this could be confined to the world of specialists, no great harm would be done, but these people are supposed to prepare teachers of English who are supposed to help secondary school students to use their language effectively. The mandarins don't seem to

be aware of the fact that the purpose of the secondary school language program is not primarily to produce specialists in ever-narrowing fields of English scholarship. I can't see the connection between the possession of a Ph.D. for work on Shakespeare's use of the infinitive and the ability to show a secondary school student how to write.

How, then, do we plan a program for teaching the great bulk of our students who are not, repeat *not*, going to go after a Ph.D. on some obscure seventeenth century poet, to write acceptable prose, how to communicate?

We might try asking professional writers how they learned to write. We might ask the help of the first-rate journalists and others who earn their living by writing, full-time. We might use as texts, not the dreary language books prepared or supervised by the mandarins, but those written by the professional writers. We could use for supplementary reading and study the best newspapers and magazines published here, in the U.S.A., and in Great Britain.

We could see to it that a course in journalism was offered in every secondary school, and that as many students as possible were encouraged to take it. It would do them far more good than the time spent in weary, if not downright bored, analyses of the poets of the Romantic Period, or in writing 'My Autobiography.' □

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BIOLOGY

1. AT VICTORIA—July 4 to 15; Introduction to the new courses for Grades 11 and 12; Mrs. Ruby Littlepage of the University of Victoria.
2. AT BURNABY—August 22 to September 2; Introduction to the new courses for Grades 11 and 12; Robert Gardner of Burnaby.

CHEMISTRY

3. AT VICTORIA—July 18 to 29; Introduction to the new Chemistry 12 course; V. L. Chapman of Vancouver.
4. AT VANCOUVER—August 22 to September 2; Chemistry 12; V. L. Chapman.

COMMERCE

5. AT VANCOUVER—August 22 to 26; General Business 11, C. J. Whites of Victoria.
6. AT VANCOUVER—August 22 to 26; General Business 12; D. J. S. Smith of Alberni.
7. AT VANCOUVER—August 22 to September 2; Business Machines; Mrs. H. Emerson of Vancouver.

ELEMENTARY MATHEMATICS

8. AT VANCOUVER—August 22 to 26; Grade 7; Dr. Eric MacPherson of UBC. Another Mathematics 7 course will probably be given at Victoria.

ELEMENTARY SCIENCE

9. AT VANCOUVER—July 4 to 15 (afternoons only); An introduction to units developed in some of the experimental science projects of the United States; J. Wainwright of Vancouver.
10. AT VICTORIA—July 18 to 22 (5 hours per day); Emphasis will be placed on the primary years with an introduction being given to units developed in some of the experimental science projects of the United States; A. W. Robinson of Alberni.

EDUCATIONAL TELEVISION

11. AT B.C. INSTITUTE OF TECHNOLOGY, BURNABY—July 18 to 29; L. Irvine of BCIT assisted by F. L. Sanderson and E. J. Webster of BCIT.

PRIMARY ART

12. AT VANCOUVER—July 11 to 22 (afternoons only); Miss Margaret H. Carter of Vancouver and others.

SECONDARY ENGLISH

13. AT VANCOUVER—July 4 to 8; Modern Drama (emphasis on new English 11); Laurence R. Lynds of Burnaby.
14. AT VANCOUVER—dates not yet confirmed; Modern Poetry (emphasis on new English 11); Miss Ruth Eldredge of Burnaby.
15. AT VANCOUVER—dates not yet confirmed; The Novel (emphasis on new English 11); D. W. Sellers of Simon Fraser University.

16. AT VANCOUVER—August 22 to 26; Shakespeare (emphasis on new English 11); Dr. R. W. Ingram of UBC.

SECONDARY MATHEMATICS

17. AT VANCOUVER—July 14 to 15; Consideration of the new Mathematics 12 course; G. Sparling of North Vancouver.
18. AT WINFIELD—July 18 to 29; A Mathematics 12 course sponsored by the Okanagan Valley Teachers' Association; W. L. Seaton, Jr., of Vernon.

SECONDARY SOCIAL STUDIES

19. AT VANCOUVER—July 4 to 8; attention to some of the new trends in teaching social studies in secondary schools; C. W. Dick of Vancouver.

JUNIOR SECONDARY SCIENCE

20. AT VANCOUVER—dates not yet confirmed; Science 8, Mr. R. E. Phillips of West Vancouver.

Other courses are being planned in Elementary Social Studies and Librarianship. Further information will be given in *The B.C. Teacher* for May-June.

Registration will be limited in most courses. Teachers interested in more information should write to the

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FROM OUR READERS

Can You Help?

Vancouver, B.C.

Sir,

I am preparing an historical study of childhood and family life in Canada between 1890 and 1920. To make this work as accurate and as authentic as possible I would like to examine family papers for the period. I am particularly interested in anything written by children (such as letters, diaries, school exercise books, club minutes, etc.) and by adults which describe family or children's activities in the home, the school, or in the community.

If any teacher or school has such material and is willing to lend it to me for a short time, it can be sent to me at the Faculty of Education, University of British Columbia

Vancouver 8, B.C. If other arrangements are necessary, please telephone me at 263-3968.

All material sent in will be returned.

NEIL SUTHERLAND

A Secondary Teacher Protests

Vancouver, B. C.

Sir,

Your issue on the elementary school was excellent, containing as it did some very thought-provoking articles, but did you have to go from the sublime to the ridiculous? Every teacher is entitled to his opinion, but he should give some thought as to how he expresses it. With reference to the article 'Elementary Teaching is Harder than Secondary Teaching,' I would like to ask Mrs. McDonough a question. Is it not possible to praise ele-

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mentary school teachers for the fine job they are doing, often under difficult circumstances, without pulling all secondary teachers down into the mud and trampling on them in order to make the point? This kind of writing is pretty poor stuff and, I would have thought, unprofessional. I was disappointed to see that Mr. Cianci also lowered himself to join in the mud-slinging.

Good teaching is to be found at all levels of education from nursery school through university, and good teaching is necessary at all levels of education. Because the problems encountered at each level are different, the stresses and strains on teachers are different, but they are nonetheless real. Mrs. McDonough's statement that marking forty papers at the elementary level is 'unmitigated drudgery' is frankly hilarious. She is welcome to come and mark forty Grade 12 essays any day and see if she feels like dancing in the daisies afterward!

I do not feel that my friends in the elementary schools—and I have many, as I taught there for some years — would feel flattered to think that the only way Mrs. McDonough and Mr. Cianci can find justification for their work is by belittling their colleagues in the secondary schools. The high quality of work done in the elementary schools does not have to be put to shame in this way. It can speak for itself. Try looking at the stars, Mrs. McDonough, instead of the mud.

MARY ASHWORTH

Elementary Schools Need Counsellors Too

North Vancouver, B.C.

Sir,

Congratulations on your issue on the elementary school. Few teachers would disagree that the foundations for future development, academic or otherwise, are laid in the elementary school. The unique tasks outlined by Mrs. Cull—helping a child to know himself, arousing curiosity and the desire for knowledge and the enjoyment of

learning for its own sake—surely are the most crucial tasks in all education.

My one regret was the omission of any reference to the need for increased psychological and counselling services in the elementary school system. For one reason or another, the outlined unique tasks are not being wholly accomplished, and at early ages children are displaying, apparently in increasing numbers, behavior that indicates problems in the learning and/or emotional areas.

In a survey conducted on the North Shore in 1964 to ascertain mental health needs principals reported that 10% of the student population needed additional referral services, and over half of these students were in the primary and intermediate grades. In its briefs to the Government of British Columbia in the last two years, the B. C. Parent-Teacher Federation has requested an extension of services in these areas. The University of B.C. offers training courses for both elementary school counsellors and for school psychologists, in an attempt to provide for the emerging needs of the province.

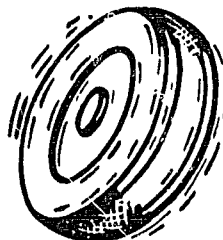
Because there appears to be such widespread concern about the difficulties encountered in these areas—the diagnosis and treatment of learning, behavior and emotional problems—I regret that *The B. C. Teacher*, the official journal of the professional body, made no reference to this need. Apart from a passing remark by Callbeck, I saw no mention of the fascinating research centering on the nature of the learning process itself, research that will have great implications for elementary education, and little to indicate we have any awareness that societal demands on the school are changing.

I realize that all areas cannot be covered in any one issue, but I am perturbed about the loss of potential human resources that will result if this group of the 'disadvantaged' in our schools does not receive more consideration.

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Teachers in the Nongraded School

Continued from page 259

It is not easy to assume the responsibility called for in a nongraded classroom. No longer can the teacher go to the textbook room and check out a set of fifth grade math books. He must begin by assessing at what point each child is able to function, and build the next appropriate skill on a stable foundation. In doing this, the teacher has the satisfaction of knowing that he is not making mathophobes out of the children who are not ready for fractions and that he is not developing indolence and indifference in those children for whom fractions are too easy.

When I used to teach in a graded classroom, I always existed in a frenzy of apprehension for fear I couldn't get place value taught to Johnny before his mother found out he wasn't having long division with the rest of the group.

In a nongraded school, we never have the rigid floors and ceilings of expectations that existed in the traditional graded materials. In a nongraded room, those graded books with dots on the back don't have the power to say, 'Everybody should be here.' Consequently, children do not need to experience failure and they cannot attain success without effort. As a result, they should become more self-propelling in their learning.

Teaching a nongraded group is based on the same learning principles as good teaching in any group. Teachers present appropriate material at the correct level of difficulty for each child. The difference is that in a nongraded school they do it openly, for it is what they are expected to do, whereas in a graded group some teachers have to bootleg appropriate learning opportunities.

It is easy for a teacher to get caught in a platitudinous trap and wail, 'I can't prepare thirty different lessons for thirty different children!' No one expects him to. The tailored education of nongrading does not mean a different lesson for every child, but rather an appropriate lesson for each. With practice teachers develop skill and facility in modifying academic content and teaching strategies so that they will be in keeping with realistic but rigorous expectations for children. (You should see me drive my new car now!) □

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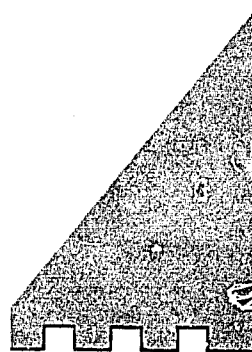
Topic: Math 12.
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For further information write:
Mr. George E. Brisco, Chairman, OYTA Summer
Seminar Committee, 2302 - 37th Ave., Vernon, B.C.

APRIL 1966

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We hoped you would spot them easily when we opened our new Library Book Division on Vancouver's Homer Street last August.

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NEW BOOKS

C. D. NELSON
Book Review Editor

A FEW RANDOM COMMENTS to open the page. First, in response to February's editorial comment, we received three enquiries about book sellers and dealers in Vancouver. It is not our policy to give free advertising to such agents through these columns; however, individual replies to your letters will be sent. Meanwhile, our thanks to the observant and interested readers who wrote in.

We welcome another new reviewer this month—Mr. G. N. Joyner, who is vice-principal of Ladner Elementary School. He is evidently a keen mathematician. A great many recent books have arrived in this crowded office, and a substantial shipment was made to our far-flung correspondents in time for them to pass the Easter vacation profitably!

The long-awaited new edition of the *Basic List of School Library Books*, formerly called *Library Books Authorized for Use in the Public Schools of British Columbia* has at last made its appearance—the first major revision in ten years. As one of the members of the Revision Committee, I can only sigh with relief and hope the new list will prove to be useful to teachers and librarians. I would also welcome a review of it—any takers?

One of our readers has made the suggestion that this space include reviews of older titles, and that our masthead be changed to 'Books New and Old.' I appreciate his

keen interest in reading, and the value of such a departure from our present format. I am bound to admit, however, that our role is clearly defined as that of acquainting teachers with new and current publications only. The few exceptions to this would be new editions of older titles, and then only when the revisions are significant. I might suggest to our correspondent, who lives in Vancouver, that the Public Library has a fine collection of annotated bibliographies, such as the *Standard Catalog for Public Libraries* and the *Book Review Digest*, which will adequately fill the purpose.

C. D. NELSON

EDUCATION

The Professional Education of Teachers: A Perceptual View of Teacher Education, by A. W. Combs. Allyn and Bacon, Boston, 1965. \$2.95

Since the effectiveness of education depends on the classroom teacher, the author advocates a thorough overhaul of teacher-education programs. Such education, he believes, should not be aimed at producing a teacher with a long list of competencies who has been trained in so-called 'good' general or specific methods of teaching. Rather, it should aim to develop the student-teacher as a unique human being who has learned to use himself as an instrument in achieving the development of his pupils.

The philosophical basis of the author's view rests on 'self' or 'perceptual' psychology which stresses that behavior at any given instant is the result of how an individual sees himself (his self-concept), how he perceives the situations in which he is involved, and the interactions of the two. As a result, teacher-educators must be deeply concerned with developing student-teachers as persons. Their job will be to encourage and facilitate, in their students, the acquiring of: rich and extensive perceptions about their subject fields; accurate perceptions of what pupils are like; perceptions of self which lead to a feeling of adequacy; accurate perceptions about the purpose and process of learning; and personal perceptions about appropriate methods for carrying out their own purposes.

Preparing student-teachers is not a matter of showing them 'how.' It is a matter of helping each student to discover his own best method of teaching. There is no 'right' method. Rather, it is a question of an appropriate method which fits the student's perceptions of himself, of the nature of the school subjects, of what students are like, and of how pupils learn.

The author believes that the traditional method of dividing the teacher-education program into set courses of educational psychology, philosophy of education, etc., should be discontinued and that other

provisions be made for helping pupils to experience, at one and the same time, exposure to ideas, involvement in practice, and discovery of personal meaning.

The discovery of personal meaning should be provided by twice-a-week seminars involving up to 30 students and one or more instructors in free discussion of ideas, planning courses and experimenting with different materials.

Exposure to ideas would take place through: lecture-series by faculty members who were authorities on a given topic; lectures by speakers outside the faculty; panel discussions on important topics; full use of audio-visual material; special workshops; and trips and exhibits.

Providing practical experience should involve students with young people in and out of school in a variety of settings: practice-teaching, not after the student has learned how, but as a means of creating his desire to know and of trying himself out; observation which would raise questions in the mind of the observers; involvement in young people's groups (Scouts, boys' and girls' clubs, community recreation, nursery-schools, etc.). Students should also be involved actively in teachers' professional organizations (committees, local meetings, conventions, etc.) as well as in Parent-Teacher meetings and in attending school board meetings.

This book is interesting and stimulating. I recommend it not only to those members of the profession more directly interested in teacher-education but also to every classroom teacher. Practically all the ideas discussed in the book could be applied by teachers to the development of pupils in their own classrooms.—S. R. Laycock

ENGLISH

Canadian Reflections: an anthology of Canadian prose. Ed. Philip Penner and John McGeachan. Macmillan of Canada, Toronto, 1964. \$1.75

The criterion for inclusion in this moderately priced anthology was that the material should be 'eminently teachable,' also to show high school students that Canadian literature is not only important, but also lively and interesting. It seems doubtful to this reviewer that one more dose of the 'paddle and axe' mixture will dispel the widespread impression that Canadian literature is dull stuff; however, Part 3, 'People and Language,' which contains some interesting articles showing our language is related to our national life and history, may stimulate further inquiry.—J. R. Stickney

Canada Books of Prose and Verse: Reading Study, Book I, by H. M. Covell and J. McGeachan. Ryerson/Macmillan, Toronto, 1964. \$1.25

A companion to *Beckoning Trails*, the Grade 7 reader of this well-known series, but designed to be used independently if desired. It aims to ensure balanced development of reading skills, using a wide variety of reading materials which include literary works of prose and verse, passages typical of school texts, and ex-

tracts from newspapers and magazines. These interesting selections are studied by the P-Q-R-S-T Method (Preview-Question-Read-Summarize-Test), with exercises covering vocabulary and comprehension skills. Achievement tests make sure that the student's progress is checked regularly while the diagnostic chart provided on the cover allows ready identification of strengths and weaknesses.—Eileen Burke

MATHEMATICS

Elementary School Mathematics, Book 5, by R. E. Eicholz, P. G. O'Daffer, C. F. Brumfiel and M. E. Shanks. Addison-Wesley, 1965. (Can. Agt. J. McAllister, 1235 Comox St., Vancouver 5; 682-2546) \$3.32

The Grade 5 text of the series *Elementary School Mathematics* (kindergarten to Grade 6) was examined and carefully compared to the Book 5 of *Seeing Through Arithmetic* (Gage). It was found to be superior on the following counts:

- 13 chapters organized as individual units, each one complete.
- supplementary exercises at end of text keyed to specific pages.
- 'Think' problems to enrich and stimulate the better student, plus more difficult questions at the end of many exercises.
- more questions, better numbered.
- each chapter begins with basic ideas and develops them fully.
- attractive format.
- content mature for Grade 5.

One complaint is that some sections, i. e., *Averages*, are developed too quickly, as if they were covered in a previous text. It is a book designed for the teacher who is skilled and interested in mathematics, and not for one who expects the book to teach him as well as his pupils. A workbook and an excellent Teacher's Edition are also available.—G. N. Joyner

Experiences with Geometry, by R. E. Eicholz and P. G. O'Daffer. Addison-Wesley, 1965. (Can. Agt. J. McAllister, 1235 Comox St., Vancouver 5; 682-2546) No price given

This new workbook follows the author's statement of purpose: 'to supplement a basal mathematics program . . . that the pupils encounter exciting and stimulating experiences in geometry.' The 20 lessons develop major geometric principles and skills. Interspersed with the lessons are several sets of geometric games and puzzles which provide both entertainment and discovery. Instructions are explicit so that most classes should be able to follow them without difficulty. A well designed layout gives the appearance of a 'fun' book rather than a workbook. Excessive use of compasses in 'trial and error' exercises could lead to a pincushion look on subsequent pages, perhaps destroying some of their value. (A backing sheet could be used by the pupil.) An excellent teacher's guide is available. *Experiences with Geometry* is a book worth investigating as a supplement to mathematics in Grades 5 to 8.—G. N. Joyner

APRIL 1966

Mathematics for Parents, by Carl B. Allendoerfer. Collier-Macmillan, Galt, 1965. 167 pp. \$3.30

The author, a professor of mathematics at the University of Washington has attempted, in this book, to answer the many questions about the 'New Mathematics' which he encounters as he moves about in public.

The first four chapters, which can be understood by any parent, describe the nature of the current revolution in

mathematics and make suggestions for parents who are interested in the best mathematical education of their children. Very little technical mathematics appears in these chapters.

The last nine chapters are for parents who have a high school education, or its equivalent in experience, and who are willing to do a little thinking and work to understand some of the more important technical changes that have occurred recently. These chapters deal with: numbers; sets, functions and relations; the



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laws of algebra; inequalities; inequalities in the plane; geometry; trigonometry; and logic.

Since, as the author points out, some general knowledge of the basic ideas of the new mathematics is a necessary passport to 'literate' living in the world of modern technology and automation, this book should be required reading for elementary and high school teachers who are not trained in mathematics. It will enable the teacher to explain to parents something of the New Approach to Mathematics in schools—and can be recommended for reading by the intelligent parent.—S. R. Laycock.

Senior Mathematics I, by H. A. Elliott, J. W. Fencott, K. D. Fryer, and N. J. Hill. Holt, Rinehart and Winston, Toronto, 1964. 441 pp. No price quoted.

This textbook by Canadian authors, is written for Grade 11 in Ontario. It contains fifteen chapters on material from algebra, deductive and analytic geometry, and trigonometry, with answers.

The authors have tried to use modern terminology and ideas in presenting their work. However, they are guilty of making many careless definitions and undesirable statements. For example, after stating that an angle is an undefined term, they proceed to give an artificial definition; they define a line segment using the concept of a point being between two others before this concept has been defined; they present fractions as numbers isomorphic to the rationals and not as names for them. The book touches upon too many topics from various branches of mathematics, and consequently it suffers from too low a level of rigor. The topic of simultaneous linear equations has been done quite well, and red ink has been used to emphasize important ideas.

I see no place for this book in B.C.'s mathematical picture—not even as a supplement or reference.—D. K. Shimizu.

MENTAL HEALTH

No Language But a Cry, by Bert Kruger Smith. Beacon Press, Boston, 1964. \$5.00

This book was written by a mental health specialist of the Hogg Foundation of Mental Health and gives a warm, sympathetic and sound account of the characteristics and problems of seriously emotionally disturbed children together with a description of types of facilities for their treatment and education. Visits to three outstanding facilities for such children are described—those at The League School, Brooklyn, The Sonia Shankman School, Chicago, and The Hawthorn Center, Northville, Michigan. The final chapter gives specific recommendations as to what can be done for these youngsters. Since the children are often wrongly diagnosed as mentally retarded, delinquent, or deaf and since facilities for seriously disturbed youngsters in Canada are very inadequate, this book should have a wide group of readers. It should appeal to teachers, social workers, nurses, and to community leaders in mental health.—S. R. Laycock

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FOR RENT—near UBC, beach; July, Aug.; cute furn. 2-bedrm. Spanish Banks home; large private grounds. Write R. Hulsh, 4309 W. 3rd Ave., Vancouver 8; 224-6676.

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