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The Big Red School House: The Russian School System, 1959.

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THE BIG RED SCHOOLHOUSE

The Russian school system -- where it is and where it is not an improvement on our own

THE TIMPLE

February 15, 1959

Rabbi Daniel Jereny Silver

Courses in life adjustment, the educational philosophies of John Deway, and secondary school curricalum in general have become targets during the last decade of nounting public critician in our country. The colleges complained; as they were forced to insugurate programs of remedial English for their freshman classes, a surprising number of whom were unequipped to express themselves on paper in their native tongue. The high schools compleined that an increasing number of able, capable students were choosing after their junior high school years progress which did not demand the utmost of effort on their part, that these bright students were preferring to undertake courses in business English and general science and basic nathematics rather than attempt a purely academic program in the foreign languages and English and in the basic sciences and in advanced mathematics. The libraries complained that an increasing number of young people were shunning their doors and fewer and fewer books were being charged out by alementary and funior high school. young people. Many librarians wondered whother the spate of rather insigid reading primers which had been coveloped for our current public schools -- primers of the "John goes to school. Hary goes to school. John sees Mary at school" variaty had perhaps not completely destroyed the adventure of reading and made reading a burdhnsome and a tedious chore. The Temple complained. We complained as we watched the reading capacity of our junior high school students drop perceptibly in the first

decade after the Second World War. We complained that it was increasingly difficult to teach our young people Jewish history because they knew no overall framework of world history against which to put and to place the climactic events of our own tradition. We complained as it became increasingly difficult to teach our young people the grammer and the syntax of Hebrev, for they had not, many of them, the faintest inkling of the grammar and syntax of their own tongue. This tide of criticiam began to develop in the decade after the Second World War. It flamed into national prominence when, in October of 1957, the Russians Launched their first Sputnik. And this Sputnik, although it was launched from a firing pad six thousand miles from the nearest school administrator's office, singed with the heat of its backfire every one of the people in America responsible for our public school education. America's pride was hurt and was humbled by the Russian success in the art of missile recketry, and as is quite normal we sought for some saspegoat, somebody on when to heap the burden for our collective weakness and inspiness and insbility. We could no longer blame it on spies, on foreign espionage as we had blamed previous failures of the last decade, because even the most talented spy can not steal away secrets which the scientist has not yet developed. The American people turned their ere at first against the various governmental research agencies who were charged with the responsibility of presecuting these programs of advanced scientific research, and the agencies to free themselves of the burden of guilt countered by claiming that Congress had not allocated them sufficient funds to carry our their programs. Ccngreas, to free itself of that responsibility, retorted that the agencies had been allocated funds which they had not even been able to use - that there was a residue

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laboratories to develop the new weapons and the new sciences.

Admiral H. G. Rikover, Chief of the Navy's Development program in the nuclear submarine field, was possibly the mest articulate of all these agency spokesmen who sought to lay the burden of America's scientific weakness at the door of our public school education. Speaking shortly after October of 1957, Admiral Rikover said:

I have interviewed more than two thousand young men in the last twelve years. My naval-reactor engineering group presently numbers about one hundred and fifty. Since the man I have interviewed had already passed through a number of previous interviews which weeded out all but the best, it can be seen that those who could not meet the requirements of the nuclear-power project -- and hence inferentially of any new development project -- vastly outnum and those who qualified.

This experience made a deep impression on me. It led me directly to a study of why our educational system produces so few men who are qualified to do the work which we must do if we are to progress. Our schools are the greatest "cultural lag" we have today. When I read official publications put out by the men who run our educational system -- booklets such as Life-Adjustment Education for Every Youth or Education for All Youth -- I have the strange feeling of reading about another world, a world long since departed if it ever existed at all. I show the kindly spirit, the desire to make every child happy, the samest determination to give advice on every problem any young person might ever meet in life -- and withal so complete a misunderstanding of the needs of young people in today's world that it frightens me.

The public schools found it difficult to parry the charge that they had such a complete misunderstanding of the meeds of the young people in today's world that it frightened the ablest and keenest observers. And whatever were the rationalisations or the explanations which the schools put forward -- regional racial tensions, political pressures, the need to pass school building levies which had diverted the attention of school administrators from the basic function of education, a lack of trained teachers, a lack of all types of staff, a lack of a sufficient school budget -- whatever were these excuses and these rationalizations, the school systems of America found it difficult to convince the American public that they had not become lackadaisical and haphasard in their standards and that they had not make basic education in America a rather haphasard wandering through the byways of human knowledge rather than a determined and forthright attack on the very core disciplines which establish our human calture.

Shortly after October of 1957, a Columbia Broadcasting System correspondent interviewed a young Moscow tenth-grader. In clipped, careful English this Russian youth told the radio correspondent of the courses which he took in his public school -- courses in Russian literature, courses in world history and algebra, in geometry, in advanced physics, in biochemistry, in art, and in physical education. And as one listened to this careful detailing of an ambitious school program, no one but could be impressed by the extent and the depth of the tenth grade education which this young Russian student was receiving. The Columbia Broadcasting System then taped this interview and played it back to a group of high school students in Tennessee. They asked these students what were their impressions of Ivan's education. The consensus seemed to be that Ivan was to be pitied. He was forced to work so hard. He was forced to take so many subjects. Certainly too much study would make Ivan a dather dull boy. What was then the purpose of education? These young people answered that the purpose of a high school education was to teach you to adjust to a variety of social situations, to teach you to acclimate yourselves to the family and the community in which you lived. Not a one of those interviewed said that the purpose of an education was to teach the child basic disciplines of language and of literature, of history, of the classics, and of the sciences. As one child put it, "There is no one sitting here who wouldn't rather be a drummajorette or a member of the school band than to be the valedictorian of the class."

The American school system then seems to be convicted out of the mouths of its own pupils of having become indifferent to the essential discipline and purpose of all education -- the development for the young of the knowledge which a society

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possesses. Americans began to consider with more and more determination the Russian school system. They began to make comparisons and these comparisons were increasingly damning. We discovered for instance that in 1919 the Bolsheviks inherited a school system which was designed to educate only the small number who were in the upper classes of the Czarist political system. The Russian society was ninety per cent illiterate in 1919. In the same year we already had developed in America a universal program of elementary and secondary school education, and a college system and a system of advanced degrees which was to be open through scholarship and grant in aid to the ablest and the best of all our students. Forty years later, in 1959, we find that there are today 2,700,000 American boys and girls carrying on programs of advanced learning at colleges and universities, but there are in Russia today 4,300,000 boys and girls working in similar programs of advanced training. This despite the fact that there are twenty-five per cent more young people enrolled in the American public school system than in the Russian public school system.

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As we made comparisons between the Russian School system and our own, these comparisons became increasingly damning. We remembered that in 1919 the United States was the most technologically inventive and advanced nation on this globe. We remembered that although there were a few competent scientists in the Soviet Union, the vast majority of the Soviet citizens had no inkling of even the nature of our modern scientific age. Today, forty years later, every Russian high school student must take courses in advanced algebra and calculus and trigonomotry and scilid geometry and advanced biology and advanced chemistry and advanced physics. And today, forty years later, there are still 300,000 American boys and girls enrelled in school systems which cannot provide them even the facilities to take these subjects even if they desired to do so. Today, forty years later, there are in addition one million seven hundred thousand American boys and girls who graduate each year from our high schools who have elected not to take a single course in any of these subjects.

Perhaps the most danning of all comparisons is the one which we make in our

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own minds as we read any competent account of the Russian high school system. I should like to read to you a brief description of public schooling education in Russia, so you can make for yourself whatever comparison you see fit.

The basic Russian school -- the equivalent of the twelve years of public schooling that is the normal education offered to American students -- is a ten year school. The total course is subdivided into three phases, not too different from the organization of the American elementary, junior high, and high school. Grades one to four roughly resemble the grade school; grades five through seven introduce some of the more difficult elements of learning and thereby roughly resemble our junior high school; and grades eight to ten are college preparatory and lead to a School-leaving examination which can be roughly compared to the high school diploma.

When the Russian seven-year old begins school in the first grade, his opening weeks are not too different from the same stretch in the life of his slightly younger American counterpart.

The first few weeks might be summed up with the American phrase of "crientation". The teacher tells the youngster about the school, about the things they should and should not do, about the proper way of asking questions. Almost at once, the teaching of the alphabet begins. In contrast with the American method, which tries to get youngsters ready for reading and writing and which works "backwards", beginning with pictures and entire words, Russia has stuck to the traditional way. Individual letters are "learned" and practiced; words are formed, containing the familiar letters; "new" words are broken down through recognition of familiar letters, and the sounds of the letters lead to the discovery of new words.

At the end of first grade the Russian pupil is expected to be able to read and to write simple texts and to be ready to move on, in grade two, to extensive spelling practice and to the basic knowledge of the rules of grammar.

The Sowiet pupils who finish elementary school -- that is, grades one through four -- are expected then to be able to read basic texts, many of them with a strongly scientific slent, written especially for this age group. They have been given simple compositions and letters to write and they are frequently tested on the clarity of their speech and expression.

American children in those early grades are generally offered reading matter especially prepared for them, ranging from Mother Goose and childish adventure to a certain new type of meaningless double talk "scientifically" designed by education specialists. Russian youngsters in these early grades get acquainted with Russian folk stories as well as with such authors as Pushkin, Tolstoi, Gorki, and Fadeev.

In the first four grades the Russian child is required to learn

addition, subtraction, multiplication, and division of whole numbers, addition and subtraction of fractions, concepts of time, and the metric system.

The beginnings of science teaching in the Fussian elementary school are not very different from those of the American counterpart. The original purpose is to awaken the child's interest in nature and to give them some inkling of the ways in which nature works: how one season follows the other; what the sun and water and fire do for the world and its people; what the process of eating and the growing of food means to the life of animals and human beings. Not unlike the American grade school, the Russian classroom may have its pet goldfish and turtles. A not uncommon adjunct of classroom education is the garden plot, or at least a few window boxes for the city classroom children.

Russian children do, however, enter into a far more systematic study of natural science considerably earlier than do most American youngsters. In fourth grade they are introduced to the basic study of the composition of water, air, soil, the elements, minerals, and scientific problems of growth and of change.

Even taking into consideration the fact that the American first grader starts school when a year younger, the Russian child begins basic instruction in natural science two years earlier than his American counterpart. What is more significant, the natural science course in the fourth grade is merely the prelude to an organized three-year elementary science curriculum that starts in the fifth grade. It includes laboratory work, practical, semi-scientific gardening, and meaningful observation through a microscope.

The Russian fifth grade, if it is to be looked on as the beginning of junior high school, opens to the pupil a truly new world of learning. He is now prepared for a curriculum of study which includes weekly nine hours of Russian language and literature; six hours of mathematics; two hours of history; three hours of geography; two hours of biology; two hours of physical education; two hours of some form of practical work, either on the farm or in the workshop; and one hour each of art and of music. He is also introduced here to a foreign language and devotes four hours a week to its study.

In the sixth grade, the Russian school adds to its biology teaching two hours per week of a second science - usually physics -- while reducing only the Russian language and literature instruction by one hour, from mine to eight hours a week.

In the seventh grade all the earlier subjects continue on the study plan, but with another reduction of Russian by two hours. On the other hand, biology and physics are both increased from two hours to three, with the addition of two hours of chemistry and one hour of technical drawing. Foreign language instruction is reduced from four to three hours and both art and singing are dropped from the curriculum entirely. By this time the Russian student is deep in the study of algebra and of geometry, but he has also by the end of the seventh grade covered the history of the world from the prehistoric period and the ancient Grient through Greece, Rome, the Middle Ages, up to "The English Bourgeois Revolution of 1648." The Russian student enters senior high school in his eighth year. He is now about fourteen years of age.

The Russian high school student switches from Russian entirely to a consideration of the literature of his people, an indication that, at least in theory, he is expected to have mastered the technique of writing, spelling and grammar by that time. In his eighth grade the Russian student continues to devote about six hours a week to mathematics, a pace he will maintain through the ninth and the tenth grades. In addition he studies history for four hours, which he will do for the remainder of his high school, geography for about two to three hours a week, and a foreign language which he continues for three weekly lessons each school year.

His science requirements permit biology to taper off to two hours in the eighth grade and one hour in the ninth; physics, on the other hand, builds up from three hours in the eighth grade to four hours in the minth and better than five hours a week in his "semior year". He keeps up his weekly hour of technical drawing and the two weekly hours of physical education and adds, in his final year, one hour each of astronomy, pBychology and -- by way of a last-minute reminder of the powers of the Russian state -- a course in the Constitution of the Soviet Union. Even in his practical work, stepped up to two hours a week during the entire three-year period, he has now advanced to such intricate areas as machine construction and electro-technology.

One cannot but be impressed by this curriculum. One cannot but realize that a youngster who has passed the very difficult baccalaureate examinations at the end of a high school program is infinitely better prepared in academic programs than the overwhelming majority of those of our American boys and girls who win their high school diplomas. Increasingly determined American parents and civic leaders question whether or not the American public school has been entirely too complacent, too easy going, too unconcerned with presenting to the young people the vast curriculum of knowledge which will be required to live as citizens of a very complicated scientific age.

But before we undertake to ask our school boards to refashion and resculpt the American school system in the model of the Russian, we ought to know and to keep in mind the full picture. We ought to remember that the Russian school system attempts only to produce a trained technician, a cog in the wheel of the

Russian economic system. The American school system aims to develop a productive person, yes, but also a competent and capable citizen. And so the Russian classroom tends to be a lecture hall, a place for the absorption and the ingestion of knowledge and nothing more, while the American classroom must of necessity play a dual role. It must be a lecture room, a place for the ingestion of knowledge, but it must also be a debating hall, a meeting place, a place where ideals and values can be exchanged between the teacher and the students, between the students and their neighbors, so that in this exchange the young people can develop the techniques of social living and the concepts of community responsibility which are so important to an educated citizen. We ought to remember also that the Russian school system is one which is concerned only with academic competence. The child who is emotionally disturbed, the child who is a slow learner, the child who has physical handicaps, the child who matures slowly is given no second chance. Only fifty percent of those who enroll in the first grade graduate from the fourth grade. Only one half of those who pass into the junior high school of the Russian system graduate from that junior high school, and only some fifteen to twenty percent of those who enroll in the first grade are finally given the degree of completion at the end of the tenth grade. These have learned, yes, far more than many of our American high school graduates, but what a carnage of broken lives and broken hopes have been left behind strewn along this way. What of the child who is bright and who is able and who is sensitive and who cannot take the pressure of the difficult examinations -- the thirty-two state-wide examinations which the Russian school system demands of every youngster before he completes the ten years? In the first four grades these young people are simply siphoned off into what are called Labor Reserve Schools. Here they are trained in some semi-skilled vocation and assigned to a place on a production line which will be theirs until death takes them from this earth or until some Russian official determines that there must be a major reshuffling of the Russian labor force. If they fail in the junior high school S. Star years they are sent to a Technicum, or vocational school, a school in standards far below those of our vocational high schools, and here they are given some on-the-job training, again in a semi-skilled activity which the Russian economy requires at that time. There is never any attempt to reach these young people who fail the examinations and to train them up to the limits of their ability and of their 89. s. talent, whatever these may be. If a child in Russia is not academically and in-心磷

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tellectually capable, he stands no chance within the Russian system.

And finally we ought to remember that the Russian system represents an essence -- a copy -- of the Continental educational system, and Americans a century and a half ago rejected this continental educational system for good and for sufficient reasons. We rejected it because it was callous to the needs of those boys and girls who were not, as we have said, intellectually capable. We rejected it because it made a fetish of the earning of degrees, because it created a "degreed" class who felt themselves superior to and patronizing toward the undegreed mass, a class which in times of prosperity demanded the Nowtow and in times of economic depression were ripe for Fascist influence. We rejected this system for good and sufficient reason, and we ought not now, under the pressure of international fear, to demand that our educators develop on the American scene a system which we avoided then and should avoid and shun now. We ought not to forget that the American system, having broken with its European parents, was the first to pioneer in the field of aptitude testing and to demand that the classroom assignments given to a child be up to the limits of a child's ability and no more, that a limited child not be forced to best his head unsvailingly against a standard which he will never be able to attain, and that the brightest of children be set the highest of standards and not be allowed to slide by with work which they can do, as the children themselves say, "with one hand tied behind their backs".

We in America have pioneered -- impressively so -- in the training of the handicapped child and the exceptional child, the slow-learning child, the retarded child, the child who is gifted in areas which are not purely academic. And our

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schools have done wonderful work in this respect. And we in America are the one country on the face of the globe which has graduated generation after generation of high school and college people and has not had develop a self-contained intellectual elite, a group who felt their rank and their privilege. We in America judge a man not by the degrees he has earned, the cape which he is able to wear on graduation day, but by the accomplichments which he manifests in his daily life. And this is to the good. The European system reflects the aristocratic political world in which it was born. The American system was designed to reflect the democratic political system in which it was born, a system which said we will invest twelve years of training in each child and that we will develop for each child whatever talents he may have, whatever capacities may be his, because we need this child whatever his capacity as a citizen, as a member of our community, and as a productive member of our economy.

But having said all this, the Russian educational accomplishment still gives us pause. There are still areas of major fault which we can without equivocation lay at the fact of our school administrators and of our school boards, of our teachers, and of our parent-teachers groups. Our American school system has been lany. It has been sloppy. It has been unconcerned with the standards of excellence. It has allowed itself to follow the easy way of convenience and social acceptance. When Dr. Conant, sometime President of Harvard College, was commissioned to undertake a year-long study of the American high school system for the Carnegie Institute many wondered what his findings would be about our American school system. His findings tended to center in one areas that our school systems were no longer challenging the brightest and the ablest of its students. They were no longer offering enough academically, intellectually, culturally, artistically to these young people; that they had overloaded the program of extracurricular, and that they had not spent enough time and attention on the curriculum itself. As he wrote:

If the fifty-five schools I have visited, all of which have a good

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reputation, are at all representative of American public high schools, I think one general critician would be in order: the academically talented student, as a rule, is not being sufficiently challenged, does not work hard enough, and his program of academic subjects is not of sufficient range. The able boys too often specialize in mathematics and science to the exclusion of foreign languages and to the neglect of English and social studies. The able girls, on the other hand, too often avoid mathematics and science as well as all foreign languages. Our American school system has tended to reflect the general air of smugness and self-complacency which has afflicted the American people since the end of the Second World War. And not only have we failed to stimulate the ablest of our students, but we have even failed at times to challenge the vast middle group of talented students. We have allowed them to alip through school, handing in compositions which in terms of the basic English disciplines are abominably sketchy and ill-devised, allowing them to appear before school teachers and to claim that homework is really an unfair labor practice, allowing them to become so overly involved in after-school programs and leisure time activities and extracurricular affairs that they have no time for the major school work, the learning of the basic disciplines without which you cannot prosecute an able and an adult life.

It is frightening -- frightening indeed -- when American high school students feel that the tenth grade education of a Russian young student will only tend to make him a dull boy, when these same students tend to feel that the purpose of education is to gain in popularity, to learn the arts of social living rather than the techniques of logical and clear thinking and the disciplines of academic learning. This is the challenge that faces the American school system. We need a system which will demand of its students the finest level of work of which that student is capable. To achieve this we will need better teachers and we will need more teachers. Perhaps as a nation we will have to cease worrying about building the most magnificent school classrooms and begin to pass school levies and bond issues designed to raise the standard of living of the teacher class so that we can attract to the classrooms the finest of the young college graduates. Russia makes no boast of the beauty or the architectural and esthetic values of its school plant and she has remembered that the teacher is more important than the classroom. And though today America can boast of the most beautifully designed and built school system ever known by man, there is today one teacher to every seventeen students in the Russian classroom and there is one teacher to every thirty school children in our own. The Russians have kept foremost a basic.

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universal maxim of education -- that it is not the quality of the class room but the quality of the classroom teacher that determines the quality of the study.

We need to demand more of our teachers -- more preparation and more training in their discipline. All too often a bright student in high school is frustrated in his attempt to carry out some program of individual research because he is quickly asking questions which are beyond the competence of his high school teacher. In Russia, before a teacher can enter a high school science classroom, he must have three hundred and forty hours of the science which he will teach. In most American school systems he needs to have only thirty-two hours of the science which will be his field to teach for life. We must demand of our high school faculties greater and greater effort on their own parts to stimulate, to learn, to learn the facts which they must teach.

We must demand leadership of our school administration. Not the kind of leadership which passes bond issues by saying that the school will be open at all hours for badminton leagues and for swimming parties, but the kind of leadership which says that our schools will apply themselves unflaggingly to the business of teaching, that we will test each young person -- we will try to motivate him along the areas of his talent, that we will try to acquaint him with the world in which he lives, that we will try to equip him with the knowledge without which he cannot make intelligent decisions later in his life.

History plays strange tricks. The United States was built by men and women who had their roots deeply set down in the European scil. To create so much of that which made for the American genius they cut these roots, and they began

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programs of invention and organizational remodeling, to preate institutions which expressed their democratic way of life. Now there comes to us again a European challenge. The answer to this challenge does not lie in hastily, overly hastily, copying ourselves after a Russian image and perhaps accepting in the process social and political values which are abhorrent to us; but it lies in remembering

that the genius of the European system, whatever its faults, lay in its emphasis on intellectual excellence, and that the genius of the American school system can only be vindicated if we can equally achieve this same quality of educational excellence.

No longer can our schools be second-rate. They must be the finest schools which the world can devise and which man can develop. And if they are, and I feel confident that they will become so, then surely our future is secure. For the young people who are the fodder that we feed into these schools are of high potential. They have so much. If we equip them with life, with the intelligence and the discipline of knowledge which they will require, then surely they will lead us into a world of peace, the world which is our fondest dream.

Amen.



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The Russian school system -- where it is and where it is not an improvement on our own

THE TEMPLE

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Rabbi Daniel Jeremy Silver

Courses in life adjustment, the educational philosophies of John Dewey, and secondary school curriculum in general have become increasingly during the last decade targets of mounting public criticism in our country. The colleges complained; as they were forced to inaugurate programs of remedial English for their freshman classes, as they found/increasingly the new enrollees in their courses were unequipped to express themselves on paper in their native tongue. The high schools complained that an increasing number of able, capable students, were choosing after their junior high school years programs which did not demand the utmost of effort on their part, that these bright students were preferring to undertake courses in business English and general science and basic mathematics rather than to attempt the purely academic program in the foreign languages and English and in the basic sciences and in advanced mathematics. The libraries complained that an increasing number of young people were shunning their doors and fewer and fewer books were being charged out by elementary and junior high school young people. And Many librarians wondered whether the spate of rather insipid reading primers which had been developed for our current public schools -- primers of the "John goes to school, Mary goes to school. John sees Mary at school" variety had xxx perhaps not completely destroyed the adventure of reading for these young people and made reading instand a burdensome and a tedicus chore. The Temple complained, We complained as we watched the reading capacity of our junior high school students

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developed a sufficient number of trained eyes and trained minds and trained hands to work in the laboratories to develop the new weapons and the new sciences.

Admiral H. G. Rikover, Chief of the Navy's Development program in the nuclear submarine field, was possibly the most articulate of all these agencies spokesmen who sought to lay the burden of America's scientific weakness at the door of our public school education. Speaking shortly after October of 1957, Admiral Rikover

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budget - whatever were these excuses and these rationalizations, the school systems

of America found it difficult to convince the American public that they had not STANDARDS become lackadaisical and haphazard in their admention and that they had not make the seeking-of-s basic education in America a rather haphazard wandering through the core disciplines which make our human culture.

Shortly after October of 1957, a Columbia Broadcasting System correspondent interviewed a young Moscow tenth-grader. In clipped, careful English this Russian youth told the radio correspondent of the courses which he took in his public school -- courses in Russian literature, courses in world history and algebra, in geometry, in advanced physics, in biochemistry, in art, and in physical education. And as one listened to this careful detailing of an ambitious school program, no one but could be impressed by the extent and the depth of the tenth grade education which this young Russian student was receiving. The Columbia Broadcasting System then taped this interview and played it back to a group of high school students in Tennessee. They asked these students what were their impressions of Ivan's education. The consensus seemed to be that Ivan was to be pitied that We was forced to work so hard, that he was forced to take so many subjects, for Certainly too much study would make Ivan a dull boy. What was then the purpose of education? And as A group these young people answered that the purpose of a high school education was to teach you to adjust to a variety of social situations, to teach you to acclimate yourselves to the family and the community in which you lived. And Not a one of those interviewed said that the purpose of an education was to teach the child basic disciplines of language and of literature, of history, of the classics, and of the sciences. As one child put it, "There is no one sitting here/wouldn't rather be a drum-majorette or a member of the school band than to be the valedictorian of the class."

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The American school system then seems to be convicted out of the mouths of its own pupils of having become indifferent to after the essential discipline and purpose of all education -- the development for the young of the knowledge which a society possesses. And as Americans began to consider with more and more determination the Russian school system, and they began to make comparisons, these comparisons were increasingly damning. We discovered for instance that in 1919 the Bolsheviks inherited a school system which was designed to educate only the small number who were in the upper classes of the **Rescin** political system. The Russian society was ninety per cent illiterate in 1919. In the same year we already had developed in America a universal program of elementary and secondary school education, and we had already developed the college system and the system of advanced degrees which was to correct through scholarship and grant in aid to the ablest and the best of all of our students. Forty years later, in 1959, we find that there are today 2, 700,000 American boys and girls carrying on **Revenues programs** of advanced learning at colleges and universities, but there are in Russia today 4, 300,000 boys and girls working in similar programs of advanced training. This despite the fact that there are twenty-five per cent more young people enrolled in the American public school system.

As we made comparisons between the Russian school system and our own, these comparisons became increasingly damning. We remembered that in 1919 the United States was the most technologically inventive and advanced nation on the face of this globe. We remembered that although there were a few competent scientists in the Soviet Umion, the vast majority of the Soviet citizens had no inkling of even the nature of our modern scientific age. Today, forty years later, every Russian high school student to graduate must take courses in advanced algebra and calculus and trigonometry and solid geometry and advanced biology and advanced chemistry and advanced physics. And today, forty years later, there are still 300,000 American boys and girls enrolled in school systems which cannot provide them the facilities to take these very subjects even if they desire to do so. And new facilities, for the second

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one million seven hundred thousand American boys and girls who graduate each year from our high schools who have elected not to take any of these subjects. Perhaps the most damning of all comparisons is the one which we make in our own minds as we read any competent account of the Russian high school system, and I should like to read to you a brief description of public schooling education in Russia, in you can make in your mindle eye whatever comparison you see fit. The basic Russian school -- the equivalent of the twelve years of public schooling that is the normal education offered to American students -- is a ten-year school.

The total course is subdivided into three phases, not too different from the organization of the American elementary, junior high, and high school. Grades one to four roughly resemble the gmade school; grades five through seven introduce some of the more difficult elements of learning and thereby roughly resemble our junior high school; and grades eight to ten are college preparatory and lead to a schoolleaving examination which can be roughly compared to the high school diploma.

When the Russian seven-year old begins school in the first grade, his opening weeks are not too different from the same stretch in the life of his slightly younger American counterpart.

The first few weeks might be summed up with the American phrase of "orientation". The teacher tells the youngster about the school, about the things they should and should not do, about the proper way of asking questions. Almost at once, the teaching of the alphabet begins. In contrast with the American method, which tries to get youngsters ready for reading and writing and which works "backwards", beginning with pictures and entire words, Russia has stuck to the traditional way. Individual letters are "learned" and practiced; words are formed, containing the familiar letters; "new" words are broken down through recognition of familiar letters, and the sounds of the letters lead to the discovery of new words.

At the end of first grade the Russian pupil is expected to be able to read and to write simple texts and to be ready to move on, in grade two, to extensive spelling practice and to the basic knowledge of the rules of grammar.

The Soviet pupils who finish elementary school - that is, grades one

through four - are expected then to be able to read basic texts, many of them with a strongly scientific slant, written especially for this age group. They have been given simple compositions and letters to write and they are frequently tested on the clarity of their speech and expression.

American children in those early grades are generally offered reading matter especially prepared for them, ranging from Mother Goose and childish adventure to a certain new type of meaningless double talk "scientifically" designed by education specialists. Russian youngsters in these early grades get acquainted with Russian folk stories as well as with such authors as Pushkin, Tolstoi, Gorki, and Fadeev.

In the first four grades the Russian child is required to learn addition, subtraction, multiplication, and division of whole numbers, addition and subtraction of fractions, concepts of time, and the metric system.

The beginnings of science teaching in the Russian elementary school are not very different from those of the American counterpart. The original purpose is to awaken the child's interest in nature and to give them some inkling of the ways in which nature works: how one season follows the other; what the sun and water and fire do for the world and its people; what the process of eating and the growing of food means to the life of animals and human beings. Not unlike the American grade school, the Russian classroom may have its pet goldfish and turtles. A not uncommon adjunct of classroom education is the garden plot, or at least a few window boxes for the city classroom children.

Russian children do, however, enter into a far more systematic study of natural science considerably earlier than do most American youngsters. In fourth grade they are introduced to the basic study of the composition of water, air, soil, the elements, minerals, and scientific problems of growth and of change.

Even taking into consideration the fact that the American first grader starts school when a year younger, the Russian child begins basic instruction in natural science two years earlier than his American counterpart. What is more significant, the natural science course in the fourth grade is merely the prelude to an organized three-year elementary science curriculum that starts in the fifth grade. It includes laboratory work, practical, semi-scientific gardening, and meaningful observation through a microscope.

The Russian fifth grade, if it is to be looked on as the beginning of junior high school, opens to the pupil a truly new world of learning. He is now prepared for a curriculum of study which includes weekly nine hours of Russian language and literature; six hours of mathematics; two hours of history; three hours of geography; two hours of biology; two hours of physical education; two hours of some form of practical work, either on the farm or in the workshop; and one hour each of art and of music. He is also introduced here to a foreign language and devotes four hours a week to its study.

In the simth grade, the Russian school adds to its biology teaching two hours per week of a second science - usually physics - while reducing the the Russian language and literature instruction by one hour, from nine to eight hours a week.

In the seventh grade all the earlier subjects continue on the study plan, but with another reduction of Russian by two hours. On the other hand, biology and physics are both increased from two hours to three, with the addition of two hours of chemistry and one hour of technical drawing. Foreign language instruction is reduced from four to three hours and both art and singing are dropped from the curriculum entirely. By this time the Russian student is deep in the study of algebra and of geometry, but he has also by the end of the seventh grade covered the history of the world from the prehistoric period and the ancient Orient florough Greece, Rome, the Middle Ages, up to "The English Bourgeois Revolution of 1648".

The Russian student enters senior high school in his eighth grade. He is now about fourteen years of age.

The Russian high school student switches from Russian entirely to a consideration of the literature of his people, an indication that, at least in theory, he is expected to have mastered the technique of writing, spelling and gammar by that time.

In his eight grade the Russian student continues to devote about six hours a week to mathematics, a pace he will maintain through the ninth and the tenth grades. In addition he studies history for four hours, which he will do for the remainder of his high school, geography for about two to three hours a week, and a foreign language which he continues for three weekly lessons each school year.

His science requirements permit biology to taper off to two hours in the eighth grade and one hour in the ninth; physics, on the other hand, builds up from three hours in the eighth grade to four hours in the ninth and better than five hours a week in his "senior year". He keeps up his weekly hour of technical drawing and the two weekly hours of physical education and adds, in his final year, one hour each of astronomy, phychology and - by way of a last-minute reminder of the powers of the Russian state - a course in the Constitution of the Soviet Union. Even in his practical work, stepped up to two hours a week during the entire three-year period, he has now advanced to such intricate areas as machine construction and electro-technology.

One cannot but be impressed by this curriculum. One cannot but realize that a youngster who has passed the very difficult baccalaureate examinations at the end of a high school program is infinitely better prepared in academic programs than the overwhelming majority of those of our American boys and girls who win their high school diplomas. And American public and anerican parents and civic leaders question whether or not the American public school has been entirely too complacent, too easy going, too unconcerned with presenting to the young people the vast curriculum of knowledge which will be required to live as citizens of a very complicated scientific age.

But before we undertake to ask our school boards to refashion and resculpt the American school system in the model of the Russian **school cystem**, we ought to know and to keep in mind the full picture. We ought to remember that the Russian school system attempts only to produce a trained technician, a cog in the wheel of the Russian economic system. New the American school system aims to develop a productive person, yes, but also a competent and capable citizen. And so the

Russian classroom tends to be a lecture hall, a place for the absorption and the ingestion of knowledge and nothing more, while the American classroom must of necessity play a dual role. It must be a lecture room, a place for the ingestion of knowledge, but it must also be a debating hall, a meeting place, a place where ideals and values can be exchanged between the teacher and the students, between the students and their neighbors, so that in this exchange the young people can

develop the techniques of social living and the concepts of community responsibility which are so important to an educated citizen. We ought to remember also that the Russian school system is one which is concerned only with academic competence. The child who is emotionally disturbed, the child who is a slow learner, the child who has physical handicaps, the child who matures slowly is given no second chance. Only fifty percent of those who enroll in the first grade graduate from the fourth Only one half of those who pass into the junior high school of the Russian grade. system graduate from that junior high school, and only some fifteen to twenty percent of those who enroll in the first grade are finally given the degree of completion at the end of the tenth grade. These have learned, yes, far more than many of our American high school graduates, but what a carnage of broken lives and broken hopes have been left behind strewn along this way. What of the child who is bright and who is able and who is sensitive and who cannot take the pressure of the difficult examinations -- the thirty-two state-wide examinations which the Russian school system demand of every youngster before he completes the ten years? In the first four grades these young people are simply siphoned off into what are called Labor Reserve Schools. Here they are trained in some semiskilled vocation and assigned to a place on a production line which will be theirs until death takes them from this earth or until some Russian ozar determines that there must be a major reshuffling of the Russian labor force. If they fail in the junior high school years they are sent to a Technicum, or vocational school, a school in standards far below those of our vocational high schools, and here they are given some on-the-job training, again in semi-skilled activity

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which the Russian economy requires at that time. There is never any attempt to reach these young people who fail the examinations and to train them up to the limits of their ability and of their talent, whatever these may be. If a child in Russia is not academically and intellectually capable, he stands no chance within the Russian system. And finally we ought to remember that the Russian system represents an

essence - a copy - of the Continental educational system, and Americans a century and a half ago rejected this continental educational system for good and for sufficient reasons. We rejected it because it was callous to the needs of those boys and girls who were not, as we have said, intellectually capable. We rejected it because it made a fetish of the emming of degrees, because it created a "degreed" class who felt themselves whereior to and patronizing toward the undegreed mass, a class which in times of prosperity demanded the kowtow and in times of economic depression were ripe for Fascist influence. We rejected this system for good and sufficient reason, and we ought not now, under the pressure of international fear, to demand that our educators develop on the American scene a system which we avoided then and should avoid and shun now. We ought not to forget that the American system, having broken with its European parents, was the first to pioneer in the field of aptitude testing and to demand that the classroom assignments given to a child be up to the limits of a child's ability and no more, that an unable child No be not forced to beat his head unavailingly against a standard which he will never be able to attain, and that the brightest of children be set the highest of standards and not be allowed to slide by with work which they can do, as the children themselves say, "with one hand tied behind their backs".

We in America have pioneered - impressively so - in the training of the handicapped child and the exceptional child, the slow-learning child, the retarded child, the child who is gifted in areas which are not purely academic. And our schools have done wonderful work in this respect. And we in America are the one country on the face of the globe whe have graduated generation after generation of

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high school and college people and have not had develop a self-contained intellectual elite, a group who felt their rank and their privilege. We in America judge a man not by the degrees he had earned, the cape which he is able to wear on graduation day, but by the accomplishments which he manifests in his daily life. The And this is to the good. The European systems reflects the aristocratic political world in which it was born. The American system was designed to reflect the democratic political system in which it was born, a system which said we will invest twelve years of training in each child and that we will develop for each child whatever talents he may have, whatever capacaties may be his, because we need this child whatever his capacity as a citizen, as a member of our community, and as a productive member of our economy. But begins caid all this.

But having said all this, the Russian educational accomplishment still gives us pause. There are still areas of major fault which we can without equivocation lay at the feet of our school administrators and of our school boards, of our teachers, and of our parent-teachers groups. Our American school system has been lazy. It has been sloppy. It has been unconcerned with the standards of excellence. It has allowed itself to follow the easy way of convenience and social When acceptance. And Dr. Conant, sometime President of Harvard College, was commissioned to undertake a year-long study of the American high school system for the Carnegie Institute many wondered at what his findings would be about our American school system. His findings tended to center in one area: that our school systems were no longer challenging the brightest and the ablest of its students. They were no longer offering enough academically, intellectually, culturally, artistically to these young meople; that they had overloaded the program of extracurricular, and that they had not spent enough time and attention on the curriculum itself. As he wrote:

If the fifty-five schools I have visited, all of which have a good reputation, are at all representative of American public high schools, I think one general criticism would be in order: The academically talented student, as a rule, is not being sufficiently challenged, does not work hard enough, and his program of academic subjects is not of sufficient range. The able boys too often specialize in mathematics and science to the exclusion of foreign languages and to the neglect of English and social studies. The able girls, on the other hand, too often avoid mathematics and science as well as all foreign languages.

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Our American shhool system has tended to reflect the general air of smugness and self-complacency which has afflicted the American people since the end of the

Second World War. And not only have we failed to stimulate the ablest of our students, but we have even failed at times to challenge the vast middle group of talented students. We have allowed them to slip through school, handing in compositions which in terms of the basic English disciplines are abominabily sketchy and ill-devised, allowing them to appear before school teachers and to claim that homework is really an unfair labor practice, allowing them to become so overly involved in after-school programs and leisure time activities and extracurricular affairs that they have no time for the major school work, the learning of the basic disciplines without which you cannot prosecute an able and an adult life.

It is frightening - frightening indeed - when American high school students feel that the tenth grade education of a Russian young student will only tend to make him a dull boy, when these same students tend to feel that the purpose of education is to gain in popularity, to learn the arts of social living rather than the techniques of logical and clear thinking and the disciplines of academic learning. This is the challenge that faces the American school system. We need a system which will demand of its students the finest level of work of which that student is capable. To achieve this we will need better teachers and we will need more teachers. Perhaps as a nation we will have to cease worrying about building the more magnificent school classrooms and to pass school levies and bond issues designed to raise the standard of living of the teacher class so that we can attract to the classrooms the finest of the young college graduates. Russia makes no boast of the beauty or the architectural and esthetic values of its school plant and has remembered that the teacher is more important then the classroom.

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And though today American can boast of the most beautifully designed and built school system ever knik known by man, there is one teacher to every seventeen students in the Russian school system and there is one teacher to every thirty school people in our own. For the Russians have remembered a basic, universal maxim of education - that it is not the quality of the class room but the quality of the classroom teacher that determines the quality of the study. We need to demand more of our teachers. We need to allow them less to siphon during their energies off into programs of teacher treining. All too often a bright student in high school is frustrated in his attempt to carry out some program of individual research because he is quickly asking questions which are beyond the competence of his high school teacher. In Russia, before a teacher can enter a high school science classroom, he must have three hundred and forty hours of the science which he will teach. In most American school systems he needs to have only thirty-two hours of the science which will be his field to teach for life. We must demand of our high school faculties greater and greater effort on their own parts to stimulate, to learn, to learn the facts which they must teach.

We must demand leadership of our school administration. Not the kind of leadership which passes bond issues by saying that the school will be open at all hours for badminton leagues and for swimming parties, but the kind of leadership which says that our schook in this community will teach the finest type of learning to Ge particle of learning that is possible to communitate to the young people, that we will test each young persony-we will try to motivate him along the areas of his talent, which will try to acquaint him with the world in which he lives, which will try to equip him with the knowledge without which he cannot make intelligent decisions later in his life.

History plays strange tricks. The United States was built by men and women who had their roots deeply set down in the European soil. To create so much of that which made for the American genius they cut these roots, and they began programs of invention, organizational remodeling, to create the institutions which they wanted to express their democratic way of life. Now there comes to us again

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a European challenge. The answer to this challenge does not lie in hastily, overly hastily copying ourselves after a Russian image and perhaps accepting in the process social and political values which are abhorrent to us; but it lies in remembering that the genius of the European system, whatever its faults, lay in its emphasis in intellectual excellence, and that the genius of the American school this same quality of educational excellence.

No longer can our schools be second-rate. They must be the finest schools which the world can devise and device and which man can develop. And if they are, and I feel confident that they will become so, then surely our future is secure. for the young people who are the fodder that we feed into these schools are/the intelligence and the discipline of knowledge which they will require, then surely they will lead us into a world of peace, the world which is cur fondest dream. Amen.

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Fred M. Hechinger

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The basic Russian school -- the equivalent of the twelve years of public schooling that is the normal education offered to American students -- is the ten-year school.

The total course is subdivided into three phases, not too different from the organization of the American elementary, junior high, and high school. Grades one to four roughly resemble the grade school; grades five through seven (incomand thereby roughly recently and more there there there there and let to a maturity or school-leaving examination which could be roughly compared to the high school diploma.

When the Russian seven-year old begins school in the first grade, his opening weeks are not too different from the same stretch in the life of his slightly younger (about six years old) American counterpart. Like the American youngster, he may or may not have gone to kindergarten == in fact the likelihood that he has not attended kindergarten is elightly greater. There is a considerable shortage of kindergertens in Russia and attendance-is not free.

The first few weeks might be summed up with the American eatchall phrase of "orientation". The teacher tells the youngsters about the school, about the things they should and should not do, about the proper way of asking questions. Almost at once, the teaching of the alphabet begins. In contrast with the new American method, which tries to get youngsters ready for reading and writing and which works "backwards", beginning with pictures and entire words, Russia has stuck to the traditional way. Individual letters are "learned" and practiced; words are formed, containing the familiar letters; "new" words are broken down

through recognition of the familiar letters, and the sounds of the letters lead

to the discovery of new words.

At the end of first grade the Russian pupil is expected to be able to read and write simple texts and to be ready to move or, in grade two, to extensive spelling practice and to the basic knowledge of the rules of grammar.

that is grades one The Soviet pupils who finish elementary school, through grade four, are expected to read day texts, many of them with a strongly scientific slant, written especially for this age group. They are given simple compositions and letters to write and they are frequently tested on the clarity of their speech and expression.

American children in those early grades are generally offered reading matter especially prepared for them, ranging from Mother Goose and childish adventure to a certain new type of meaningless double talk "scientifically" designed by education specialists ("Mary sees John. John sees Mary, Where is John? He is here.") Russian youngsters in the early grades get acquainted with Russian folk stories as well as with such authors as Pushkin, Tolstoi, Gorki, and Fadeev.

Nor are the beginnings of the Russian child's mathematical learning peculiarly Russian. In the first four grades the Russian child is required to learn addition, subtraction, multiplication, and division of whole numbers, addition and subtraction of fractions, concepts of time, and the metric system.

The beginnings of science teaching in the Russian elementary school are not very different from those of the American counterpart. The original purpose is to awaken children's interest in nature and give them some inkling of the ways in which nature works: how one season follows the other; what the sun and water and fire do for the world and its people; what the process of eating and the growing of food means to the life of animals and human beings. Not unlike the American grade school, the Russian classroom may have its pet goldfish and turtles. A not education uncommon adjunct to classroom learning is the garden plot, or at least a few classroom. window boxes for the less fortunate city, children.

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Russian children do, however, enter into a far more systematic study of

natural science considerably earlier than do most American youngsters. In fourth This composition of aberelements grade they are introduced to the basic study of water, air, soil, minerals, and gorwich and of the scientific problems of change.

Even taking into consideration that the American first grader starts school the year younger, the Russian child begins basic instruction in natural science two years earlier than his American counterpart. What is more significant, the natural science course in fourth grade is merely the prelude to an organized three-year elementary science curriculum that starts in fifth grade. It includes laboratory work, practical, semi-scientific gardening, and meaningful observation through a microscope.

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The Russian fifth grade, if it is to be looked at as the beginning of junior high school, opens to the pupil (who is about eleven years old) memored with the thirteen-year old American seventh grader) a truly new world of learning / He has been given a slight tasts of what was to come when in the last year of elementary school (fourth grade). This consists of two hours each of history, geography, and biology added to the regular grade school fare of Russian, emithmetic, art, singing, and physical education. Whereas in the earlier grades, history and geography have been part of the general reading and uniting curriculum, just as they are in any good elementary school in the United States, in Russian fourth grade they assume the status of a subject.

At any mets, when the Russian youngster enters fifth grade __ call it junicr high whool -- he is ready for a curriculum of study which includes (weekly) nine hours of Russian language and literature; six hours of mathematics; two hours of history; three hours of geography; two hours of biology; two hours of physical education; two hours of some form of practical work, either on the farm or in a factor workshop; and one hour each of art and music. Bat __ and this may be smong the most important hints to the substance and promise of the Russian junior high school __ No is also introduced to a foreign language and cevotes four hours a week to its study. In contrast to the American student, who often selects one language (usually not before seventh or eighth grade) and, for various reasons, may switch to another language two years later without continuing the study of the first one, the average Russian student is likely to end up with a good working knowledge of either French, German, English or Spanish. If he is bright, he will have real. fluency.

The result is that some 40 per cent of Russials high school graduates finish with a pretty thorough knowledge of English, 40 per cent know German, and the remainder have studied either French, Spanish, or, in a few instances, Latin. In sixth grade, the Russian school adds to its biology teaching two hours

per week of a second science - "physics -- while reducing only the Russian language and literature instruction by one hour, from nine to eight hours a week.

In seventh grade all the earlier subjects continue on the study plan, but with another reduction of Russian by two hours. On the other hand, biology and physics are both increased from two hours to three, with the addition of two hours of chemistry and one hour of technical drawing. Foreign language instruction is reduced from four to three hours and both art and singing are dropped from the sufficiently curriculum altegether, apparently as the last holdover from the elementary school curriculum. By this time the Russian student is deep in the study of algebra and of geometry, but he has also by the end of the seventh grade covered the history of the writed manking from the prehistoric period and the ancient Orient through Greece, Rome, the Middle Azes, and up to "The English Bourgeois Revolution of 1648".

The goal is an accumulation of knowledge.

The Russian student enters senior high school in his eighth grade. He is now about fourteen years as compared with the American fifteen-year-old who

begins senior high school in tenth grade if his semmunity subscribes to the modern plan of six years of elementary, three years of junior high, and three years of high-school. If he is part of an old fashioned sight-four school district, he would enter high school at about the age of fourteen at the ninth grade level. But his provious education would have been entirely in the elementary school, which means that fiw, if any, of his teachers were highly trained specialists in their subject matter. The Russian high school student switches from Russian Language entirely a considuation of the to literature, an indication that, at least in theory, he is expected to have of his people within and mastered the technique of grammar by that time.

In his eighth grade the Russian student continues to devote about six hours a week to mathematics, a pace he will maintain through ninth and tenth grades. In addition he studies history for four hours, which he will do for the remainder of high school, geography for about two to three hours during eighth and ninth which he tratinues grades, and his foreign language for three weekly lessons each school year.

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Educators, who should have been the spokesmen for excellence, often took the easy road: they listened to public demand. They consulted the public-opinion polls. Recently, when a school superintendent was asked whether Russian would be offered in the future as one of the school system's foreign languages, he replied: "If there is enough public demand for it, we will teach it."

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There is no doubt at all that for each inexcusable folly that has crept into the curriculum of some American schools, from wo-educational cooking to "Personality development and grooming," there has been some public demand. The administrators had their ears to the ground and responded. The term itself -- "administrator just keeps the mechanism running smoothly; an educational leader deals with ideas and knowledge. The deputy superintendent of education in Fl Florida was recently quoted: "The training of our youth in sound practices in the operation of motor vehicles, for instance, is as important as learning to read." This is the ultimate victory of the administrator over the educator in a society grown so comfortable that a smooth ride is more important than a good book. It is this placid, comfortable security that permits smiling, self-satisfied tean agers to proclaim their education superior to that of their Russian contemporaries because it teaches them to get along with others. It is from this repose of comfort that an American High School girl could turn down Ivan, the Moscow teen-ager, as a dull date because he has spent so much of his time on serious study. It is this comfortable pursuit of happiness and leisure that made a group of teachers in a fashionable suburb warn an enthusiastic new collegue not to assign weekly compositions in order not to spoil the pleasant pace for them. It is in this utopia that homework is often considered an unfair labor practice.

History plays strange tricks. The United States was built by men and women whose traditions were deeply rooted in the European

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Provide the transmission of the second of the

past of scholarship and learning . In America they proclaimed the unheard-of ideal: equal educational opportunity for all children. It was a revolution intended to open the doors of intellectual excellence to all who cared to enter. 10

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Through the years "excellence" became the forgotten word, while the "open door" was made the permanent symbol. In time, despite the the "open door", many children were no longer offered true quality of opportunity, because behind the "open doors" the shelves were often bare. Some of the spokesmen for education began to hint that "excellence" was undemocratic discrimination. It is the irony of history that it took the Russians to remind us, not only that excellence is an indispensible ingredient for survival, but that lazy democracy is dying democracy.

The question that remains, and cannot be answered by any book, is whether the Soviet threat will turn the United States, its people, and their leaders back toward their own strength, aims, and purposes so that they may rebuild, on their own terms and with their own brains, sweat, and genius, the edifice they have allowed to crumble.

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James B. Conant

CONCLUSION

I dan sum up my conclusions in a few sentences. The number of small high schools must be drastically reduced through district reorganization. Aside from this important change, I believe no radical alteration in the basic pattern of American education is necessary in order to improve our public high schools. If all the high schools were functioning as well as some I have visited, the education of all American youth would be satisfactory, except for the study of foreign languages and the guidance of the more able girls. Most of the schools which I found unsatisfactory in one or more respects could become satisfactory by relatively minor changes, though I have no doubt that there are schools even of sufficient size where major improvements in organization and instruction would be in order. If the fifty-five schools I have visited, all of which have a good reputation, are at all representative of American public high schools, I think one general criticism would be in order: The academically talented student, as a rule, is not being sufficiently challenged, does not work hard enough, and his program of academic subjects is not of sufficient range. The able boys too often specialize in mathematics and science to the exclusion of foreign languages and to the neglect of English and social studies. The able girls, on the other hand, too often avoid mathematics and science as well as the foreign languages. As I have indicated in the proceeding paragraph, a correction of this situation in many instances will depend upon an altered attitude of the community quite as much as upon action by a school board or the school administration.

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stelled greends from one and are your wettend hing deal to ble of of same, a set me need to you a competent duran For purpose of con our growin elucation p open ! Friday FEB.6 Kaddish Sunday. Those who passed away this week DR. DAVID B. STEUER **Vahrzeits** MELVILLE LIEBENTHAL NATHAN M. KAPLAN NANNIE SCHEUER LEHMAN STEFI PROPPER CHARLES JOSEPH RACHEL BLOCH MOSS GEORGE MARGULIS EDWARD ALEXANDER WEISKOPF FREDRICK SUSS ISADORE SANDS BERTHA FRIEDMAN MINNIE H. MARKOWITZ 11 MAX GESCHWIND EDWIN M. GLAUBER HERMAN G. DEVAY SARAH LYNN ROSE SCHWARTZ RALPH H. ROSENFELD NATHAN KLAUSNER BESSIE BRAHAM DAUEY BESSIE ELLEN ZWEIG DAVID HART SAM WEINGART MORRIS G. SCHAFFNER HARRY SILVERMAN

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I have interviewed more than two thousand young men in the last twelve years. My naval-reactor engineering group presently numbers about one hundred fifty. Since the men I''''' interviewed had already passed through a number of previous interviews which weeded out all but the best, it can be seen that those who could not meet the requirements of the nuclear-power project - and hence inferentially of ANY new development project - vastly outnumbered those who qualified.

This experience made a deep impression on me. It led me directly to a study of why our educational system produces so few men who are qualified to do the work which we must do if we are to progress. Our schools are the greatest "cultural lag" we have today. When I read official publications put out by the men who run our educational system + booklets such as LIFE-ADJUSTMENT EDUCATION FOR EVERY YOUTH or EDUCATION FOR ALL YOUTH - I have the strange feeling of reading about another world, a world long since departed if it ever existed at all. I sense the kindly spirit, the desire to make every child happy, the earnest determination to give advice on every problem any young person might ever meet in life - and withal so complete a misunderstanding of the needs of young people in today's world that it frightens me. If I speak out against this mistaken concept of what twentieth century American education. most be, I do so out of no desire to find fault with those who misreed the demands of the times but from anyiety for the future of our children. I am

worried about the chances which young people, so poorly equipped to deal with

modern life, will have when things become more complex and difficult, as they

surely will before very long.