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ABSTRACT

Perspectives regarding education for the gifted and talented and excellence in education are addressed in this second volume of a 1982 public hearing. In addition to reports from Rhode Island, Maine, Connecticut, and New York, education of the gifted at the Massachusetts Institute of Technology is discussed, along with a study about programs for high-ability students. Testimony provided by state representatives, administrators, teachers, curriculum directors, researchers, and students covers the following topics: Rhode Island's concept of incentive funding for gifted/talented programs; elementary programs; students' views on the development of their critical research and problem solving skills; the effect of the "back to basics" movement on gifted/talented education; distinguishing characteristics of the creatively gifted child; issues pertaining to specialized training and certification of teachers of the gifted/talented; high school and college articulation; the need for financial support for the education of the gifted/talented and the federal role; a concept of giftedness that includes specific talents, creativity, leadership, and physical ability; and a proposal that a national effort be undertaken to replace current measures of general academic promise with more refined, specific diagnostic instruments. (SW)

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Education for the Gifted and Talented

Cambridge, Massachusetts

October 15, 1982

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Burt Reporting Associates

SEVEN WATER STREET, BOSTON, MASSACHUSETTS 02109

TELEPHONE 617/523-3210

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5 Commissioner BAKER. After the excellent
6 preparation that we have had this morning and which
7 we have related to our total mission, we are anxious
8 now to proceed to the specifics of case studies and
9 to relate to the actual operational centers for
10 education which are, of course, the states and
11 communities throughout the nation. This connection
12 on the part of the Commission has been one of its
13 major policies and intentions, and the way we are
14 going to be able to do it for this particular subject
15 of the education of the gifted and talented is
16 extraordinarily appealing to us, because we have been
17 joined by very distinguished groups of experts in
18 these fields.

19 And we find that the first one is the
20 Rhode Island Panel on Gifted Education led by Dr.
21 Arthur Pontarelli.

Rhode Island Panel on Gifted Education

22
23
24 Dr. ARTHUR PONTARELLI. Thank you, Chairman

1 Baker. Honorable members of the Commission, their
2 staff, ladies and gentlemen:

3 I am Arthur Pontarelli, standing as the
4 Commissioner of Elementary and Secondary Education in
5 the State of Rhode Island. It is indeed a privilege
6 for me to be here on behalf of the Department of
7 Education and our State Board of Regents, to give you
8 an idea of what a state thrust can be as it sets its
9 priorities, first, for equal educational opportunity
10 for all youngsters in the state and, secondly, as it
11 picks a segment of that population that has indeed
12 been in great need, in dire need, of assistance in
13 developing programs and getting all of the support,
14 starting as a commitment from the Board of Regents,
15 the involvement of the General Assembly. And what we
16 have done today -- and this follows a session that I
17 had at a previous meeting of the Commission
18 and meeting with Cliff Adelman. And Cliff indicated
19 that nowhere had he anticipated that a state could
20 put all of its act together.

21 And so, today, we are going to try to
22 do that for you in our limited period of time.

23 What we will do is work right from the
24 table. You will see that we will have representation

1 from our General Assembly, a representative who has
2 championed gifted education in our State; a superin-
3 tendent; school committee representation, a school
4 principal, teachers, curriculum directors; and;
5 indeed, students, the consumers of our programs.

6 And then, as a wind-up, hopefully, I will
7 have two minutes to give you some of the recommenda-
8 tions as the staff has put forth.

9 So, without further ado, let me present
10 to you Representative Armand Batastini, who has been
11 one of our leading legislators in developing programs
12 and legislation at the state level for gifted and
13 talented youngsters. Armand.

14 ARMAND E. BATASTINI, Jr. Thank you very much,
15 Mrs. Commissioner. I would like to express my sincere
16 appreciation for the opportunity to participate in
17 today's hearing, and I also feel deeply honored to be
18 representing the Rhode Island General Assembly before
19 such a prestigious forum.

20 And I might add that, finally, I can tell
21 my mother that her son finally made it to Harvard.

22 Now, to get to the matter at hand, during
23 my tenure in the General Assembly, I have demonstrated
24 a very keen interest in gifted education. In 1979,

1 I introduced legislation that appropriated funding
2 for gifted/talented youngsters and directed the Board
3 of Regents to develop regulations. The 1979 alloca-
4 tion of \$100,000 was the first time in twenty years
5 that the State allocated funding for gifted education.
6 The General Assembly appropriation has since increased
7 to over half a million dollars.

8 This is, undoubtedly, progress. But we
9 must continue to make progress. According to research
10 studies, 54 per cent of gifted children in America
11 are functioning below grade level. Seventeen per cent
12 of our gifted children are high school dropouts.
13 These are certainly staggering statistics and it
14 certainly indicates that this issue should be
15 aggressively pursued. In Rhode Island, we are
16 presently serving the needs of about 3,000 students.
17 We estimate that there are another 15,000 students
18 whose needs are not being met. We feel we have, in
19 Rhode Island, a responsibility and an obligation to
20 meet these needs.

21 Presently, Senator Anthony Marciano is
22 chairing the Rhode Island Study Commission on Gifted
23 Education. I am serving as the vice-chairperson on
24 the Commission. The Study Commission proposed new

1 legislation for 1982 that was partially adopted. We
2 proposed permanent funding of gifted/talented programs
3 based on the Rhode Island concept of incentive funding.

4 The incentive formula removes the
5 competitive nature of funding and it offers an equal
6 opportunity for all LEA's to participate. The
7 General Assembly has supported increased appropriations
8 for gifted and talented programs. This funding
9 concept provides a greater incentive for LEA's to
10 offer programs and services for gifted and talented,
11 plus it provides assurance of greater equitability in
12 the distribution of funds.

13 Local control remains with the local
14 school district to offer programs that address the
15 needs of the gifted/talented child.

16 Rhode Island has made progress in serving
17 the gifted and talented population. To make
18 continuing progress, we need your support. It is in
19 our national interest to assure the development of
20 the gifts and talents of our children.

21 We in Rhode Island have made and are
22 continuing to improve our state commitment to gifted/
23 talented education. We need to have a national
24 commitment. The government which educates its youth

1 as they ought to be educated ultimately realizes the
2 benefit.

3 This is my message this afternoon, and I
4 consider it a very important message. Thank you very
5 much.

6 Dr. PONTARELLI. Thank you, Armand. Our next
7 participant is Dr. William Holland, a Superintendent
8 of Schools, who is here on behalf of the Superinten-
9 dent's Association and, also, bringing a message for
10 the School Committees' Association. Dr. Holland
11 comes from a district that has made a significant
12 commitment, K through 12, in this field of gifted and
13 talented education.

14 Dr. WILLIAM R. HOLLAND. Thank you, Commissioner
15 Pontarelli. It is also a pleasure to be addressing
16 the Commission this afternoon.

17 I have been asked to indicate what I
18 think is needed to support gifted and talented
19 education on the local level. And, in pondering that
20 question, quite simply, I feel that the biggest need
21 is to sustain the commitment that Rhode Island has
22 made since 1979 in meeting the special needs of its
23 gifted and talented student population. Currently,
24 I feel our ability in the future to sustain that

1 commitment is in jeopardy. But, before expanding on
2 the need for a continued commitment, I would like to
3 take a few quick seconds to explain the present state
4 of affairs in gifted education on the local level in
5 Rhode Island. For instance, the bulk of our local
6 gifted and talented programs initiated in recent
7 years were on the elementary level, many of them in
8 the intermediate grades. Most of us, in fact,
9 locally, are currently in the program "refinement
10 stage" and are concerned with sustaining the new
11 momentum that has been created. New parent, student,
12 and teacher expectations have been created, new
13 commitments have been made, and new issues have
14 emerged.

15 For example, using seed money from state
16 and federal grants, several school districts have
17 hired and trained teacher specialists in gifted
18 education in the past three years. These "gifted"
19 teachers have established resource programs and
20 worked with selected elementary students improving
21 their critical and creative thinking skills. In
22 many of these programs, micro-computers were an
23 integral part of the instructional design.

24 Now, junior high science and math

1 teachers are suddenly finding themselves with students
2 who know how to quote them in basic language while
3 these same teachers do not, since this type of
4 instruction is normally offered in the eleventh and
5 twelfth grades. Many small high schools, in fact,
6 have just begun the initial purchase of micro-computer
7 hardware and software to support the senior high
8 curriculum.

9 Illustrations of this nature, in addition
10 to challenging our creative talents in a very healthy
11 way, also raise some questions about our continued
12 commitment to gifted students, and how we are going
13 to meet that commitment. Firstly, can Rhode Island
14 school districts continue to support the gifted and
15 talented programs they have undertaken in recent
16 years and, at the same time, expand that commitment
17 to those gifted youngsters who have acquired new
18 skills and understandings and are now at other points
19 in the school system? Secondly, with diminishing
20 fiscal support for education on all levels and
21 "retrenchment," the new catchword in educational
22 circles, can local school budgets adequately support
23 the new initiatives in gifted and talented education
24 without state and federal assistance? Can local

1 budgets provide for the additional staffing, increased
2 teacher training, and advanced curriculum programming
3 that will be required?

4 The answers to these questions are "No,"
5 unless a genuine and sincere partnership is formed
6 with both the State and Federal Governments. My fear
7 is that the local school district will be asked to
8 meet its commitment to gifted students pretty much
9 on its own.

10 Recent State budget problems, and those
11 that are looming on the horizon in Rhode Island, the
12 dissolution of the Federal Office for Gifted Education,
13 and the Federal consolidation thrust, which has
14 directly reduced Federal dollars for education,
15 support this fear. Without continued financial
16 assistance and support from the State and Federal
17 levels, the current momentum in gifted education will
18 end and the quality of all educational programs will
19 suffer. Similar to disadvantaged, bilingual, and
20 handicapped education, gifted education is more
21 expensive than regular education and is extremely
22 vital to the special population that it serves. It
23 sorely requires special State and Federal fiscal
24 support and leadership. A genuine shared commitment

1 by local, State, and Federal Governments is therefore
2 critically necessary if the full potential of our
3 gifted and talented student population is to be
4 realized and this country is to prosper from their
5 future leadership. Thank you.

6 Dr. PONTARELLI. Thank you, Bill.

7 I might point out, for the general public,
8 that the statements you are hearing are abbreviated
9 statements. The full text has been prepared for the
10 Commission members and there are some extra copies
11 that will be made available later for some of you who
12 might be interested in obtaining the full documentation.

13 For instance, Representative Batastini
14 has a formula in his that we asked, "Please don't get
15 into the formula."

16 One of the nice things that has happened
17 to us today is the fact that, in bringing the team
18 from Rhode Island, we thought it might be appropriate
19 to take a look at the consumers of our programs and,
20 through the courtesy of the Bristol School Department
21 and, specifically Joan Souza, who is the coordinator
22 of the gifted program in that community, we are
23 pleased that two of their students have been excused
24 from their classes for the day. It will count as part

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of their 180 days.

We have Melissa Lawton and Rachel Christina with us, and I think it would be most appropriate to hear a few words from them. Melissa, why don't you start in?

Miss MELISSA LAWTON. I am here today to share with you my positive feelings regarding special programs for the gifted and talented. Participating in one of these special programs has been a rewarding educational experience. I have been exposed to critical research skills, problem solving and synectics and through these experiences have been motivated to achieve to a much higher potential. Programs of this nature give students a chance to express their opinions on a variety of different topics. Students have the opportunity to select areas they are to research, thereby making these experiences more enjoyable. Projects and discussions are geared to individual interests and abilities, creating a level of enthusiasm that I never witnessed in my regular classes.

The regular curriculum often addresses low level skills such as memorizing, whereas project participants work on skills of analysis, synthesis and



1 evaluation. Topics range from an overview of
2 futuristic life styles and metric simulations
3 incorporating problem solving techniques to the
4 portrayal of mock governors preparing budget alloca-
5 tions in conjunction with statewide resources.

6 In conclusion, support for special Gifted
7 and Talented Programs is essential to provide
8 appropriate provisions for the Gifted and Talented
9 population. I have been told that the youth are the
10 leaders of tomorrow. I feel that support of gifted
11 and talented programs will not only benefit people
12 like myself, but in years to come, this country will
13 be repaid by a new generation of adults with a higher
14 degree of motivation and commitment. Thank you.

15 Dr. PONTARELLI. Thank you, Melissa.

16 Now, let us hear a few words from Rachel
17 Christina. Rachel?

18 Miss RACHEL CHRISTINA. I am here today to
19 speak in favor of Gfited and Talented Learning
20 Programs. I, myself, am a member of one of these
21 programs, and I feel that they are very beneficial to
22 gifted and talented students.

23 Our program offers students a learning
24 experience outside the regular classroom, and a

1 chance to be with other students of similar caliber
2 who will be able to recognize their intellect.

3 Students have the opportunity to study subjects of
4 interest and expand their field of knowledge on a
5 variety of topics other than the traditional course
6 offerings.

7 Students whose classroom teachers regard
8 them as different or unusual people can communicate
9 with others who encounter similar problems and work
10 out ways to solve them. An open atmosphere of
11 understanding is essential in allowing students to
12 express their views, something which is not always
13 fostered in a regular classroom setting.

14 We have produced a variety of enriching
15 programs promoting community interaction, specifically,
16 an instructional ballet presentation targeted for
17 young children, a mock trial written and executed to
18 parallel an actual courtroom situation, and a
19 cultural exchange with students from foreign
20 countries.

21 In conclusion, I have presented to you
22 today only an overview of my experiences as a
23 participant in a Gifted and Talented Program. It is
24 not a special design, nor specific area of giftedness

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that I am advocating, but rather a basic educational right. It is the right of students to be granted an optimum educational learning experience. Programs for the gifted and talented provide this opportunity. Thank you.

Dr. PONTARELLI. Thank you, Rachel.

Now, let's listen to a viewpoint from a curriculum director, the Director of Secondary Education in our North Kingstown School Department, a member of our State Advisory Commission on the Gifted and Talented, Cathy Valentino. Cathy.

Mrs. CATHERINE VALENTINO. Thank you, Dr. Pontarelli. I think that Rachel did not take her complete four minutes, and she promised me that I could have part of it, especially since there are people in the audience who have told me that I cannot do this in four minutes.

As a Rhode Island educator who has had an opportunity to travel to other states to speak on the topic of public school curriculum for gifted children, I am becoming increasingly concerned about the back-to-basics movement in this country and its effect on education for our most capable children. Too often, this movement is being used as an excuse to cut back



1 on services for the students. I feel fortunate that
2 I am employed in a state which includes programs for
3 gifted children in its definition of basic curricula
4 and has substantially increased funding for gifted
5 programs in the past several years.

6 At a critical point in the history of
7 this nation, when curriculum should be expanding to
8 meet the varied needs of the students, I find that
9 in many areas of the country it is contracting. Both
10 financial and philosophical constraints are feeding a
11 "back-to-basics fire" that is resulting in cutbacks
12 in vital areas of the arts and sciences, guidance and
13 career counseling. These cutbacks have far reaching
14 consequences for gifted children and their families.

15 In the 1960s and early '70s, many public
16 school children and many public schools were learning
17 centers which focused on a wide variety of courses in
18 literature, social studies, and the sciences. The
19 "new math" curriculum, for example, focused on the
20 concepts and theoretical structure of math as well as
21 computational skills. Science fairs were alive and
22 well. Performing and fine arts programs were
23 considered basic to a balanced education. Open
24 education opened the door, despite its reputation,

1 for many academically talented children in this era
2 to progress vertically and horizontally through the
3 curriculum.

4 For some teachers and students, this
5 period became synonymous with educational chaos. For
6 one group of students, however, gifted students, it
7 marked the beginning of a period of growth. As a
8 group, they thrived on new math, they delighted in
9 open education and the academic freedom which it
10 provided. Unfortunately, many other students and
11 teachers did not thrive in this relatively structure-
12 less, individualized educational environment.

13 The national reaction in curriculum for
14 the past five years has been a return for all children
15 to the "basics" of reading, writing and arithmetic --
16 and very little else, in some cases. As a consequence,
17 the plight of gifted children has surfaced, once again,
18 as a major national problem. Parents and sympathetic
19 educators are now uniting in ever-increasing numbers
20 in an attempt to focus attention on the needs of these
21 children. Many more universities and school systems
22 are also beginning to respond to the needs of teacher
23 training in the area of gifted education. These
24 efforts must be recognized and supported by the

1 National Commission on Excellence.

2 Back to basics must be redefined as an
3 effort to raise the standards in all areas of the
4 arts and sciences for all students, including our
5 most capable ones. I would like to close with an
6 example of the national battle ~~which~~ we face in our
7 attempt to do so.

8 I recently asked a resource teacher in
9 my district to contact NASA, the National Aeronautics
10 and Space Administration, to arrange a special day-
11 long seminar for adolescent gifted students on the
12 topic of the effects of weightlessness on human
13 behavior. I specifically and specially requested
14 someone who had been directly involved in or who at
15 least was knowledgeable about the research in this
16 area. Local funds were available to fly a speaker to
17 the district for the day.

18 We were told on three occasions by NASA
19 officials that NASA could not provide such a speaker.
20 A pre-designed basic program for an entire student
21 body was all that was available. Under no circum-
22 stances and for no amount of money would NASA provide
23 or recommend a speaker for a select group of students
24 on any topic. They did, however, agree to speak with

1 teachers on any subject, including the one requested.

2 Now, was NASA's problem philosophical,
3 financial, or just an inevitable result of a lack of
4 national commitment to these students? For one student,
5 the answer was irrelevant. She is currently writing
6 to the Russian Embassy in search of a cosmonaut who
7 is more foresighted. Thank you very much.

8 Dr. PONTARELLI. Thank you, Cathy. Maybe that
9 will change the weightlessness of some of the activities
10 there.

11 Our next presenter is an individual who
12 has worked in the area of giftedness for many years,
13 who has worked in the private sector in our state
14 and who has been a member of our State Advisory
15 Commission for the Gifted and Talented, and also the
16 founder of the National Foundation for Gifted and
17 Creative Children, Marie Friedel. Marie?

18 Ms. MARIE FRIEDEL. Thank you. I am always
19 very happy to have an opportunity to talk about the
20 way our gifted suffer. We work with the children who
21 come at the two ends of the Bell Curve. I think
22 there are programs today that meet the needs of the
23 moderately gifted, but, when it comes to the highly
24 gifted, with the 160-plus IQ, or the creatively gifted

1 child, which is the most misunderstood child in our
2 nation today, they are not getting any kind of help.
3 Therefore, we are dealing with potential suicides and
4 counseling children who have all kinds of behavior
5 problems. We are talking about not having money for
6 programs for the gifted and our country is wasting
7 millions of dollars on the cure, these people who are
8 destructively channeling their creativity because
9 they haven't had the understanding that they need in
10 a humane society.

11 I would like to see the creatively gifted
12 child more understood, but I think, before that can
13 happen, we have to have a new definition other than
14 what our leaders in this field accept today. I
15 believe there has to be a psychological definition.

16 The creatively gifted child, while having
17 some cognitive development, also thinks differently,
18 feels differently, and becomes very bewildered in his
19 or her attempt to get an education in traditional
20 systems.

21 If these children are to be understood
22 and if they are not to be drugged for hyperactivity,
23 called children with mineral brain damage and soft
24 neurological impairment, behaviorally disordered, it

1 seems that our country is treating the creatively
2 gifted child as one with a pathological affliction.
3 These negative labels are very bewildering to the
4 child and to the parents, as well as to some of the
5 teachers.

6 We have to clear up this muddle, if we
7 are really and truly going to meet the individual
8 differences among the gifted.

9 I believe that many of us are too nice
10 when we talk about not doing for the gifted. I think
11 it is one of the greatest national disgraces that I
12 have seen and been intimately involved with, potential
13 geniuses that we have allowed to suffer no end.

14 Arnold Toynbee has said, "It is a matter of life or
15 death to any society what you do with your creative
16 minorities," and I hope that we wake up some day.

17 Thank you.

18 Dr. PONTARELLI. Thank you, Marie.

19 Bringing the perspective of an institution
20 of higher education that is making an effort to put
21 together a program of teacher training for teachers
22 in service and some pre-service activities is Dr.
23 Sidney Rollins, Professor, Rhode Island College.

24 Dr. SIDNEY P. ROLLINS. I am here to address

1 three concerns related to the training of teachers
2 of gifted and talented children. The first concern
3 involves the acceptance of a rationale for requiring
4 teachers of gifted and talented children to have
5 specialized training. The second concern involves
6 the need to provide college and university pre-service
7 and in-service academic programs for teachers of
8 gifted and talented children; and the third concern
9 is with the question of certification or endorsement.

10 Concerning a rationale for requiring
11 teachers of gifted and talented children to have
12 specialized training, I will not belabor a point that
13 already has been made. Gifted and talented children
14 are different than other children in many ways; they
15 also are very different from one another. Assuming
16 that you accept the fact of these differences, I ask
17 your Commission to recommend recognition of a need to
18 provide special preparation for a special group of
19 teachers in order that they can teach effectively this
20 special population of gifted children.

21 The second concern is with pre-service
22 and in-service academic programs for teachers of the
23 gifted. For the past three years, as dollars were
24 sown in the fertile soil of Rhode Island, overnight,

1 it seemed, teachers of gifted children sprang from the
2 earth in full armor, ready to teach gifted children.

3 I respectfully submit that, before teachers begin to
4 work with gifted children, they should have, at a
5 minimum, the following kinds of preparation:

6 Teachers need to know a gifted and/or
7 talented child when they see one or hear one.

8 Teachers need to know how gifted children
9 learn.

10 A third, teachers need to know how to
11 develop and present content to gifted and talented
12 children.

13 Fourth, teachers need to know what
14 learning resources are available for gifted and
15 talented children.

16 And, fifth, teachers need to have actual
17 experience teaching real, live gifted children. Of
18 all of the desirable experiences I have listed, this
19 one is, without question, the most important.

20 I ask your Commission to support the idea
21 that special preparation programs are needed for
22 teachers of gifted children, and such programs require
23 an experience component.

24 The third concern is with certification

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and/or endorsement. We already seem to be over-certified and over-endorsed in education, but there are at least two compelling arguments for certification of teachers of gifted and talented children. Or at least for endorsement attached to standard certification. One argument suggests that, since gifted children learn differently from other children, such gifted children should be taught by teachers who are aware of these differences and who have developed skills to cope with them. A second argument suggests that, if teachers are required to fulfill certification (or endorsement) requirements, these teachers will have a vested interest in maintaining effective programs for gifted children, thereby insuring the institutionalization and continuity of programs.

I ask you to support the idea that teachers of gifted and talented children should be required to hold appropriate certification and/or endorsement. Thank you.

Dr. PONTARELLI: Thank you, Sid.

Moving on to an individual representing the parents' organization, one of the parents' organizations in our State, appropriately named SAGE; it is a group identified as State Advocates for



1 Gifted Education, and Dr. David Laux is here
2 representing that group. Dave.

3 Dr. DAVID LAUX. I would like to speak briefly
4 today on the parents' perspective of gifted and
5 talented education and our perception of some of the
6 problems that have hindered development in this area.

7 Although parents have expressed a wide
8 variety of concerns regarding the education of gifted
9 children, most of these concerns can be summed up as
10 relating to some of the most fundamental aspects of
11 gifted education, and I think it is something that
12 people who work in the area sometimes lose sight of.
13 First of all, there remains a failure on the part of
14 most of society to even recognize that gifted
15 children have special educational needs. Until we
16 can overcome this indifference, it is going to be very
17 hard to move forward in this area and to give gifted
18 education the priority it deserves.

19 Secondly, most of society continues to
20 resist or continues not to accept the fact that, if
21 we don't provide for the educational needs of these
22 children, the effects can be very harmful to the
23 children.

24 We know that, at best, these children

1 won't reach their full potential and, at worst, they
2 can develop rather severe emotional and behavioral
3 problems. Our understanding of these two very basic
4 concepts has, in the past, and continues to be
5 hampered by the very widespread misconception that
6 gifted and talented children will do well in any case
7 and their talents will become self-evident. An
8 abundance of evidence indicates that this simply is
9 not true, yet this misconception continues.

10 A third area of concern for parents
11 involves measures which are often taken in an attempt
12 to deal with the abilities of gifted children. Due
13 to a lack of resources and training, the measures
14 which are taken are often stop-gap, temporary types
15 of measures that, all too often, are ineffective, and
16 may do more harm than good.

17 So, as parents, we see a very clear need
18 for an increase in awareness of the needs of gifted
19 and talented children, particularly among teachers
20 and administrators and, most especially, among those
21 teachers and administrators who are already in place.

22 Secondly, we see a desperate need for
23 increased training on ways to meet the needs of these
24 children and, thirdly, we see an overall need for a

1 systematic approach to gifted education, one that
2 provides for some degree of continuity and which
3 takes into account the individual strengths and
4 weaknesses of these children.

5 We think, in order to implement this, it
6 requires a great deal of cooperation between Federal,
7 State, and local agencies, but we think it is
8 imperative for the Federal Government to lead the way
9 in this area.

10 Dr. PONTARELLI. Thank you, David. Our last
11 presenter is Jim DiPrete, Principal of Coventry High
12 School, and a person who has headed up a State-wide
13 committee on School and College Articulation. Jim.

14 Mr. JAMES A. DiPRETE. Thank you very much for
15 this opportunity to address the Commission and to
16 present a principal's perspective on gifted and
17 talented programs.

18 First, as Chairman of our State's
19 Chapter 2 Education Block Grant Advisory Committee,
20 I would like to point out that the Federal funding
21 effort in the area of gifted and talented is now
22 defused. There are no longer, as of this year,
23 targeted funds from the national level to support
24 gifted and talented programs. While the new Education

1 Block Grant program permits expenditures for gifted
2 and talented programs, it does not require any
3 expenditures on this population. Although I don't
4 expect any change in this pattern of Federal funding
5 for gifted, there are other Federal, state, and local
6 developments that could greatly improve gifted
7 programs.

8 One such state and local development is
9 an on-going activity in Rhode Island called the Joint
10 Committee on School and College Articulation. I
11 feel privileged to chair this committee, and the
12 Joint Committee is composed of educators from both
13 the postsecondary and elementary/secondary sectors in
14 our state. This committee meets regularly to develop
15 recommendations in the following areas: Preparation
16 of High School Students for College; Meshing of High
17 School Graduation and College Admission Requirements;
18 Strengthening High School Curriculum; and Current
19 Enrollment.

20 Although there is a definite need to set
21 high standards for our students to achieve along the
22 educational continuum, there will be an even greater
23 need to provide the kinds of programs from which
24 educationally talented youngsters can benefit as the

1 existing body of knowledge continues to all but
2 outstrip our ability to comprehend, let alone teach.
3 This development alone will necessitate bold, tough,
4 imaginative in-service programs for faculty and
5 administration.

6 I could go on, but I have been told that
7 I cannot. I just want to close with one plea from
8 a secondary school administrator. I think that
9 educational research has demonstrated to many that
10 the educational leader in the school can be the high
11 school principal, if he is allowed to, that sometimes
12 we get tied down with endless streams of minutiae,
13 and that has always been a problem.

14 I say to you that, if you read the current
15 work that has been done in the research of a high
16 school principal, you will find that, if he is free
17 to do the job he is supposed to do, to work in the
18 curriculum area, then you will see some great changes
19 come about, with the help of all of you who are out
20 there. Thank you.

21 Dr. PONTARELLI. Thank you, team members.

22 Mr. Chairman, and members of the
23 Commission, you have heard just a brief snapshot of
24 the concerns of many of the people in our community.

1 But, quickly, to wrap up, let me point out some of
2 the things that individuals have indicated:

3 A concern about the identification, the
4 proper identification of youngsters;

5 Curriculum, and the involvement of all of
6 the parties -- teachers, administrators, parents,
7 youngsters -- in the development of the appropriate
8 curriculum;

9 A concern about teacher training, in-
10 service and pre-service training of teachers;

11 A concern about certification;

12 A concern about funding, and so many of
13 these other areas.

14 But, paramount to all of these is the one
15 that keeps coming out, time and again, and that is
16 that it has to be a total commitment, a commitment at
17 the national level, a commitment at the state level,
18 and a commitment at the local level. And this is the
19 plea that we would be making to you, if this country
20 is to continue to prosper and to move in the direction
21 that it has in the past. Thank you very much.

22 (Applause.)

23 Commissioner BAKER. Our deep thanks to you,
24 Commissioner Pontarelli, and your distinguished

1 associates. Your contribution has been invaluable
2 in showing us what can and has been done on the one
3 hand, but what needs to be done on the other, and
4 what the sobering factors in achieving that are.

5 And, so, in that admirable vein that you
6 have launched us on this afternoon, we move to the
7 next session on the Education of the Talented and
8 Gifted in the State of Maine:

9 Perspective from a rural state, led by
10 Mr. Harold Raynolds, Jr., the Commissioner of
11 Education for the State of Maine.

12 Education of the Talented and Gifted in the State of
13 Maine: Perspective from a Rural State

14
15 Dr. HAROLD RAYNOLDS, Jr. Mr. Chairman,
16 members of the Commission:

17 I would, if I dared, move this podium
18 so that it faced the Commission, because my remarks
19 are addressed to the Commission primarily, and I
20 welcome this opportunity to do so.

21 I live in a rural state, a million people
22 and 9,000 square miles, with 210,000 children in our
23 public schools.

24 As I drive from school to school in the

1 State of Maine. I have lots of time because of the
2 distance between some of the very small schools and
3 others to do three things which I have tried to
4 discipline myself about, so that I will do them, and
5 make some progress while I am using that time on the
6 road.

7 One of my favorites is fantasizing and
8 facing my fears and anxieties. I do that some of the
9 time, and there is generally joy in it because fears
10 are easier to handle under those conditions and, of
11 course, fantasies are always fun, if you have really
12 developed a capacity to produce them.

13 Second, I write speeches, and give them,
14 and I criticize them, as I am going along. I do
15 epigrams, editorials, and a lot of other things that
16 never appear anywhere except in my mind in my car, as
17 I travel from place to place.

18 Third, I make some important efforts,
19 because my professional job, most of my life, has
20 been shepherding scarce resources for use in public
21 education. I try to make -- and I realize that
22 perhaps I was not well enough educated for that very
23 important responsibility; I try to make creative
24 efforts to secure resources, and I am often struck

1 because I ride accompanied, sometimes, when the
2 dialogue slows down, or the monologue, or the triologue,
3 or however many of us there are in the car; and I am
4 always alone -- the question, for example, that came
5 to me when I heard the announcement, several months
6 ago that the Bath Iron Works, which is one of the
7 very distinguished shipbuilding companies in the
8 United States, -- always finishes under budget and
9 ahead of time, something that is not characteristic
10 of the defense industry -- and I realized that they
11 were getting \$900 million for three nuclear cruisers,
12 and I realize that we had received the biggest grant
13 that the National Endowment had ever given to public
14 education in Maine, \$156,000, and my creative
15 energies which, clearly, were not sufficient to the
16 job were directed to the question of how would I be
17 able to get some of that \$900 million for those three
18 ships, and turn a little piece of that change into
19 another grant, similar to the one that we received
20 from the National Endowment.

21 Also, as I was going along one day, --
22 and, here, I composed one of my better speeches -- a
23 paradox occurred one day. I heard that Secretary
24 Bell had appointed a distinguished Commission on

1 Excellence, and I was immediately struck by the
2 paradox of that situation because, at the maximum,
3 the Office of Gifted and Talented had \$6 million, but,
4 at the minimum, under the Block Grants, it would have
5 nothing.

6 And I was aware that there was a plan to
7 close up the Department of Education.

8 So it struck me as an interesting paradox
9 that, while those things were going on, a Commission
10 as distinguished as yours would be charged with such
11 an important responsibility as you had.

12 So I naturally practiced some speeches.
13 There were angry speeches, there were friendly speeches,
14 there were positive speeches, there were all kinds of
15 speeches. And, unfortunately, the one I am going to
16 be providing you with for another few minutes is
17 probably not very distinguished, but it certainly has
18 a good deal of feeling and a lot of practice behind it.

19 Commissioner Holton asked a question,
20 what are you advising us, this morning, to the other
21 panel.

22 I would like to make it very clear, right
23 at the outset, what I am advising this Commission to
24 do. I realize that people who give advice, although

1 you did, to some extent, ask for it, can expect not
2 to have that advice taken; so I won't be wounded,
3 either way. If that should happen, it happens.

4 I have three simple statements of what
5 I believe are important considerations for your
6 Commission as you move toward the end of your very
7 important charge. My first suggestion to the
8 Commission would be that this nation needs a passionate
9 statement about the important of public education
10 made at the highest possible level of our government.
11 It does not need interesting and extraordinarily
12 wrong-headed statements about how the U. S. Constitution
13 does not contain any suggestions about education.

14 Anybody who would believe that the fact
15 that the word is not delineated in that particular
16 document and is not repeatedly underlined and then
17 given a secretarial position or something in the
18 original Constitution signifies that the framers of
19 the Constitution did not believe public education was
20 important has either not studied history or has
21 wilfully neglected that study. There is no question
22 that a man like Jefferson clearly understood, in
23 working on things like the Declaration of Independence
24 and his colleagues and cohorts involved in the

1 development of the Constitution, meant that we should
2 take as a given in a free society that public educa-
3 tion is important.

4 My first suggestion, once again, we need
5 a statement of purpose and mission about the impor-
6 tance of public education in this kind of a society.

7 Second, we need modest financial support.
8 I wouldn't even ask more than \$6 million, which was
9 the high point, the heyday, of funding for gifted and
10 talented -- for exemplary programs to exert that kind
11 of leverage, which I will demonstrate in a moment or
12 two, if I don't run out of my time, and the effect of
13 that leverage on Maine's educational programs.

14 Because of the statement which was made
15 at one point, when those \$6 million were put in the
16 budget, and because of the financial commitment of
17 \$6 million, the Legislature in the State of Maine,
18 which does, in fact, listen to words from Washington,
19 -- not always does it applaud violently over some of
20 those words, not always do they receive what is
21 suggested that they do in quite the way that those in
22 Washington would like them to, but they passed into
23 law the fact that one of the categorical aid areas in
24 our Finance Act, which happens to be one designed to

1 provide equity and which produces 50 per cent of the
2 total dollars spent on education in the State of Maine
3 from state coffers, and leaving the remainder to
4 federal and to local property taxes, they included
5 gifted and talented under a very special provision of
6 categorical aid, which includes special education,
7 vocational education, and transportation.

8 That means that a local school district
9 can spend money on approved programs for gifted and
10 talented and have it part of the costs which will be
11 reimbursed on a 50 per cent basis by the State.

12 Now, why did that happen? It happened
13 because the Federal Government made a statement that
14 this was important. It didn't happen because some
15 legislator came to Augusta and said, "We ought to do
16 this."

17 So, I urge you to consider that in
18 considering my second suggestion for you to, I hope,
19 consider before you conclude your report.

20 My third one is that there is no other
21 place but the Federal Government and Federal support
22 for the construction of a network for the exchange of
23 knowledge and ideas among the states, among our school
24 districts, among superintendents, among teachers,

1 except for the Federal Government's support.

2 So there are my three suggestions. Now,
3 I should spend a moment or two trying to justify your
4 consideration of those three. But, before I do, --
5 and it has already been mentioned and I would like to
6 take a brief side road on that -- I am very much
7 concerned about homogenized texts, I am very much
8 concerned about bland and useless materials which are
9 foisted on public education by a combination of factors
10 which you know better than I, and I would urge that
11 one thing the Commission might suggest at some point --
12 not that it be another job for you to take on -- but,
13 it might be useful for you to suggest that a happy
14 cooperation or coalition between universities and
15 colleges and public school teachers would be a useful
16 one to try to enrich the materials of education in
17 the public schools. I am not referring solely to
18 texts.

19 I say that because I am so aware that
20 many of our texts, at the present time, you could
21 really classify them in three ways, it seems to me.
22 One of the ways in which they may be classified is
23 that they do help, in spirit, support the teacher in
24 his or her activity, but, if they don't do that, they

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1 may at least not get too much in the way and they
2 provide kind of an anchor to windward; but, if they
3 are bad, and many of them are, and you consider the
4 possibility of being a teacher with all the questions
5 at the end of the thing, they may sap the fundamental
6 fire regarding good teaching in our society.

7 You deserve, at least, in my last five
8 minutes, three specific examples.-- this is what I
9 was supposed to do and this is what the title says --
10 of how the Federal Government's efforts impacted on
11 the State of Maine and why I consider it important
12 enough to welcome this opportunity to talk to you
13 about the importance of this kind of mission statement
14 at the highest level and support.

15 I would like to cite first, a gifted and
16 talented program, funded by gifted and talented
17 Federal money, conducted at Bowdoin College, with
18 some six distinguished professors meeting with 60
19 juniors, carefully selected from our high schools. I
20 want to tell you how carefully we selected the faculty.
21 We used the well-known National Humanities Faculty
22 List.

23 If you know about the National Humanities
24 Faculty, you know that you do not have tenure in that

1 group. There is no way you can retain a position.
2 If it turns out that, when you go and present in a
3 local high school, that your efforts, no matter if you
4 are the greatest scholar in your field, you do not
5 remain on the National Humanities Faculty unless you
6 prove to be not only a scholar, but a first-rate
7 teacher.

8 So we utilized that particular list and
9 those standards and selected six outstanding teachers
10 to come and meet in widely differing areas with those
11 60 young people, who then would have a year to go
12 back and make their presence felt in their schools.

13 A small story. Girl, rural community,
14 northern Maine, meeting with a man by the name of
15 David Birdsong, an extraordinary teacher, linguist,
16 University of Texas, I believe, at the present time;
17 a man who is so quiet and unassuming that, if he were
18 to walk into the room, you would not probably look
19 up. If you did look up, he would look down.

20 David Birdsong created, as he did for us
21 now, three years in a row, a magic in the classroom.
22 That girl was so frightened when she came down from
23 our potato country in Aroostook County, that she
24 could not deliver, that she wouldn't be able to do.

1 anything, that she didn't know enough, that she had
2 no confidence. But she also knew that, when she was
3 in her high school, nobody paid any attention to her
4 when she raised her hand. They didn't seem to give
5 her credence.

6 Within a day, -- she cried, that first
7 little briefing that they had in Bowdoin College,
8 when I met with her. Her parents were very upset.
9 They had come from Northern Maine. They did not have
10 a high regard for the possibility for her going to
11 Bowdoin College. They knew it was a man's college,
12 and they were concerned about that, their girl, alone,
13 in a man's college, for two weeks. Terrible things
14 could happen.

15 The terrible thing that happened was that
16 that girl learned from David Birdsong that she had a
17 first-rate mind, that her questions did make sense
18 and, at the end of the time, I met with her again, or
19 I sought her out, because she had been weeping, and I
20 wondered if she was still weeping, and she was; only,
21 this time, she was weeping tears of joy. She was
22 going back up there, but she had some sadness. She
23 was afraid, for her senior year, she would have to go
24 back to behaving the way she had had to behave before,

1 when she was too unusual, her ideas were a little too
2 much, and her questions were a bit beyond what her
3 teachers could deal with.

4 A second example, a state university
5 program, an excellent one, perhaps stimulated in part
6 by the State University when they saw that Bowdoin
7 College was getting a look at some pretty good
8 students, -- I am not opposed to the competitive
9 idea in this sort of thing. So the Chancellor of the
10 State University determined that it might be useful
11 if they ran the same kind of a program, only they put
12 up the money this time. But where would we have been
13 without the national focus at this time? That is
14 what happens.

15 A very distinguished classics teacher,
16 who happens to be in the audience, as a matter of
17 fact, put together a program called, "Civilization
18 on Trial," and invited 60 students to come.
19 Three primary materials were chosen. Again, 60
20 carefully selected juniors. The trial of Socrates,
21 the trial of Galileo, and Franz Kafka's "The Trial".

22 The repercussions of that are still
23 going on. Tomorrow, Saturday, teachers from the
24 schools where those students went will meet with that

1 particular teacher in the college and go through what
2 the experience was all about.

3 Let me give you one last one and then
4 I am done. That grant that I talked about of \$156,000
5 was for ten rural high schools to select -- this was

6 from the NEA, another organization of the Federal
7 Government which is not getting the funding it might
8 be able to use; its funding is not exactly in the
9 same league as one nuclear cruiser.

10 The program, three teachers, carefully
11 selected from ten rural high schools. The principal
12 had to come; very important. Must be three teachers,
13 not one, because, when they come back and they get
14 into the faculty room, it may go back to the Boston
15 Red Sox and how they are doing, and that is always a
16 matter of some concern in New England.

17 The principal, the three teachers, forty
18 people, working together with people like David,
19 Birdsong to learn how to do their work better. Here
20 is what this kind of an institute does.

21 It reinspires the faculty of a small
22 school, and in Maine. Have any of you attended a
23 faculty meeting of a public high school recently?

24 What are the characteristics of many of

1 our faculty meetings in public high schools is that
2 we discuss small changes in the bus schedule, when
3 graduation can take place, whether or not there have
4 been some disciplinary problems lately, and whether
5 we are collecting all the hot lunch money on time.

6 After forty minutes of that, if you are lucky, you
7 could go home, if you are on the faculty.

8 We have a faculty of a high school, now,
9 in Maine, as a result of that program I just told
10 you about, again, a rural high school, where every
11 faculty meeting gets that stuff out of the way in
12 fifteen minutes in a very simple way, by using some
13 paper and getting it done. And then they go to
14 requesting of the three teachers, and now, it is all
15 of the faculty, that they present something of
16 significance, intellectual or other kinds of artistic
17 interest to the faculty.

18 Three examples: Last Christmas, just
19 before Christmastime, the music teacher presented a
20 program of Elizabethan Madrigals. They listened, they
21 discussed them and got some background on each one.
22 Does that tell something about the quality of a
23 faculty, the next day, when they come in?

24 A second one that I know is a short story

1 Ambrose Bierce, which was read in advance and then
2 discussed by the faculty. This is a faculty made up
3 of industrial arts teachers, economics teachers,
4 physical education teachers, social studies teachers,
5 et cetera, et cetera.

6 The third one, the math teacher put on a
7 program called, "Ethics, Science, and the Computer."
8 I don't really have to say much more about that.

9 I end where I began. I do welcome
10 Commissioner Holton's request for some specific
11 suggestions. I hope mine are not so mundane in the
12 sense that I am always seeking additional resources
13 for public education. I suspect that that is about
14 all that I will ever do, professionally, for the rest
15 of my life. That is why I urge a clear, passionate
16 statement at the national level, from the highest
17 levels, in support of public education, and that, of
18 course, includes gifted and talented.

19 Second, some modest financial support so
20 that those exemplary programs which I have just cited
21 can continue, not necessarily in Maine, -- we certainly
22 have had our share; that includes NEA, the National
23 Science Foundation, because I want to make it clear
24 that we don't need to invent any new bureaucracies to

1 accomplish this. All of the pieces are in place.

2 All they need is a little nurturing.

3 If that statement and that support is
4 there, I will not face the problem in the Legislature
5 for the next biennium of Legislators saying, "The

6 Federal Government doesn't really believe that
7 gifted and talented amounts to much or they wouldn't have
8 folded it into something called a Block Grant. Why
9 should we continue to fund it under our State Aid
10 bill, Mr. Commissioner?"

11 The answer would be easier if the Federal
12 Government had a clear statement of national purpose.

13 Finally, that construction of the network
14 is important.

15 There are my three suggestions. I hope
16 that you might take a look at a suggestion regarding
17 texts, textbooks, materials, because that is a very
18 serious concern in the public schools.

19 Thank you very much for the opportunity
20 to make one of my speeches that I worked on in the
21 car. (Prolonged applause.)

22 Commissioner BAKER. Thank you, Commissioner
23 Reynolds, for your eloquence and emphasis. We have
24 one request to make to you. Do you mind if we bug

1 your car? (Laughter.)

2 Connecticut Programming for the Gifted

3
4 Commissioner BAKER. We move now to the
5 testimony from Connecticut, Connecticut Programming
6 for the Gifted, under the Chairmanship of Dr. Goodman.

7 Ms. JUNE K. GOODMAN. It is not fair to have
8 to follow Mr. Reynolds. He says it all.

9 Thank you for the "Doctor", but I am not.
10 I am here as the Chairwoman of the State Board of
11 Education of Connecticut, and with me are Mary Hunter
12 Wolfe, who is Chair of the Connecticut State Task
13 Force on Gifted and Talented, and William Vassar,
14 State Director of Programs on Gifted and Talented.

15 We have also with us as resource people
16 Joe Renzulli, who spoke this morning, from the
17 University of Connecticut, and Rosalyn Jacobitz, who
18 is doing a study on talented youth in vocational
19 technical schools.

20 I am glad to be here as part of this
21 team of experts in regards to gifted and talented. I
22 am the non-expert member. I am part of that great
23 American institution, boards of lay people who stand
24 between the educators and the government. We, in

1 theory, represent the citizens.

2 As a member of the Connecticut Board, I
3 am glad to say that education for the gifted and
4 talented is a priority for that board for the whole
5 state. Year after year, we submit bills for mandation
6 of funds to the Connecticut Legislature for gifted
7 and talented and, year after year, we have been turned
8 down.

9 They are beginning to listen. We got some
10 public hearings now; it doesn't just get blocked in
11 the committee; and we are going to persist.

12 As the legislation now stands, the State
13 will reimburse local districts for gifted and talented
14 programs on a permissive basis. 10-76 reimburses,
15 on an equity formula of 30 per cent to 70 per cent of
16 the cost of a local program. Today, Connecticut is
17 a leader in the field.

18 We serve 15,000 children with programs
19 that vary from a once-a-week special class to an
20 integrated program. We started with four programs
21 that served 200 children in '66, and now there are
22 162 State-approved programs. We have made a lot of
23 progress, but we still have a long way to go.

24 Our program began in '66 seeded by Federal

1 funds. The funds provided the funds for the salary
2 of the consultant for gifted and talented. We got
3 \$30,000 a year from Title V. We had workshops and
4 were able to do some studies to develop legislation
5 for gifted and talented.

6 It was in 1967 that our exceptionality
7 statute was passed, and that statute covers all
8 exceptional children from handicapped to gifted.

9 Programs for handicapped are mandated,
10 while gifted and talented are permissive.

11 Not only does the State Board of Education
12 petition the Legislature, but as part of its commit-
13 ment to excellence and equity, it encourages local
14 districts to be creative in developing programs,
15 program models of excellence for the gifted and
16 talented, which others will spell out for you.

17 The Board provides a full-time professional
18 staff member to assist school districts with their
19 gifted and talented programs.

20 The Board also encourages a close-
21 working relationship with institutions of higher
22 learning and private non-profit organizations to
23 bring their resources and expertise to the public
24 schools.

1 Finally, the Board encourages the
2 articulation and coordination of all efforts in
3 Connecticut so that equity and excellence may be
4 brought about for the gifted and talented through a
5 unified effort. Connecticut's program is terrific,
6 by comparison, only. There is a lot missing and
7 Federal dollars can make the difference.

8 I note, in the Federal Handicapped Budget,
9 there is a listing of Special Purpose Funds, which
10 includes special studies, regional resource centers,
11 innovation, and development, and such funds for
12 gifted and talented would provide supplementary
13 services for research and staff development, model
14 programs, printing and dissemination, which the
15 states cannot afford today.

16 Finally, I would like to state, as many
17 of us have today, that the needs of the gifted and
18 talented are a national concern. These youngsters
19 are a national resource. I know of no other country
20 that gives such short-shrift to its talented young-
21 sters, our future leaders, Nobel Prize winners, the
22 Einsteins, you can complete the list.

23 It is time for national leadership in
24 this area and national commitment that includes dollars,

1 so that we in the states can do a better job.

2 Ours is a mobile population. Without the
3 national concern, there will be no equity. Many
4 youngsters will be lost and the ability and talent
5 they represent. Thank you.

6 Mary Hunter Wolfe will speak next.

7 Dr. MARY HUNTER WOLFE. If it is comfortable
8 for everybody, I would like to speak from here, if it
9 is all right, because I really want, first of all,
10 before I talk specifically to the problems of the
11 Task Force of which I am fortunate enough to be
12 Chairperson, about my own experience in gifted
13 education.

14 I had the really wonderful experience of
15 coming from the private non-profit sector to develop
16 two model programs, paid for by the Federal Govern-
17 ment, one for the identification of potentially
18 gifted students in Grades 7 through 9 in a substantially
19 black population, a support program, where the
20 support, the identification, the work was the process
21 itself. That lasted for three years.

22 I was again fortunate enough to get a
23 second one for a substantially Spanish culture-
24 oriented group, again for 7 through 9 and for three

1. ~~years.~~

2 That was a marvelous experience. I came
3 to it timidly and with a great feeling of confidence
4 that the proper tools to use were to go through the
5 arts, using the arts as the mechanism, not necessarily
6 for the purpose of training professional artists, but
7 to use theater arts because it brings them together
8 all in one family and because it is also a socializing
9 art.

10 So that that combination of using that
11 as a methodology was a wonderful experiment because
12 it gave me an opportunity to do something that I had
13 longed to do all my life, because it had been a self-
14 discovery for me that that is the function of the
15 Director, and I happen to have been a professional
16 Director for many years. And that is to elicit the
17 performance and to support it to its highest level of
18 achievement.

19 And that is capable, it is perfectly
20 possible to translate those skills into general
21 education, into skills in many other fields and
22 capacities in many other fields.

23 In Connecticut, it is a very fortunate
24 situation in many respects, though largely unrealized,

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1 especially in the arts and humanities for gifted.

2 We are fortunate in our legislation
3 because it has the basic principles of equity,
4 required service to individual children, education
5 appropriate to individual needs, in the arts as part
6 of the core curriculum, or mandation of special
7 education, including the identification of gifted
8 defined as being sought through the arts and humanities.

9 Three years ago, our Task Force was
10 established as an instrumentality. It was created
11 under the leadership of Dr. Vassar and our present
12 Chair of the State Board of Education, June Goodman,
13 and Commissioner Mark Shedd, the purpose to provide
14 a vehicle for the discussion and dissemination among
15 professionals in the field, teachers and administrators,
16 lay persons of influence and special skills among the
17 general public and, also, to elicit their concerns.

18 The Task Force make-up is essentially as
19 follows: Business and industry is represented,
20 professionals in terms of trained teachers and
21 administrators, then professionals in the general
22 public, with special skills in counseling, early
23 childhood, artists, scientists, legislative specialists,
24 and those were selected by appointment and by self-

1 nomination.

2 This body, conducted quite informally,
3 has been gathering its strength for three years, but
4 we find that we face certain very specific concerns,
5 and those are the things that I want particularly to
6 share with you today.

7 We have to define our priority issues.
8 We want to promote excellence in education among the
9 gifted and talented, in the hope that a great deal
10 of that will rub off on the general field of education,
11 because it is a model, and we do find, in many
12 instances, that where a gifted program is really
13 functioning in a particular school population, it
14 does rub off on the teachers, on the parents, and on
15 the administration. So that such a program can really
16 be a sharing device in operating excellence in general
17 education as well.

18 We effect our linkage to avoid, in
19 particular, the accusation of elitism, through such
20 organizations as regional service centers, the State
21 Department of Education, itself, and in the various
22 professional and lay advocacy groups in the fields of
23 the arts, the sciences, and the humanities.

24 The Connecticut Advocates, Citizens'

1 Advocacy for Gifted Education -- and I must say that
2 I tend to mix the two immediately, and I hope I can
3 leave this as a message that they are an essential
4 part of gifted education. I put this in as a second
5 underlining because, when you look statistically, the
6 bulk of the education is for the academically gifted,
7 and the process of trying to find and support gifted
8 in the arts and the humanities is only just beginning.

9 ^{other} Our purpose is to encourage educational
10 research in a pursuit of excellence for all of the
11 gifted and talented, and to lay the basis for success-
12 ful programs for the demonstrated gifted. A constant
13 search for potentially gifted students must be
14 maintained to equalize opportunities for both rural
15 and urban minorities. This is an extremely important
16 point in a state like Connecticut because of the

17 wealth of opportunities that exist in state, both in
18 terms of the general population having a strong
19 commitment to excellence, to professional work in the
20 arts, to a high degree of representation in all the
21 professions, and then, on the other hand, areas of
22 extreme poverty, of urban decay, of really dire need
23 in terms of minority populations.

24 We also contain in the state rural

1 situations which are extraordinarily remote and that
2 share in many respects the same needs as urban
3 minorities, because their horizons are low, the models
4 are few. It seems hard to say that when the distances
5 are not so great as in the State of Maine, but it is
6 true. The isolation in the rural communities and
7 within urban neighborhoods produces very similar lacks
8 and very similar tensions.

9 So that the opportunity in sort of almost
10 like a laboratory situation to work at the basic needs
11 of gifted education is certainly provided in the
12 State of Connecticut. And I, myself, and the programs
13 that I am interested in are certainly a wonderful
14 illustration of what Federal funds can do. Those
15 programs would not have been achieved without Federal
16 funding.

17 And, to my interpretation, that funding
18 came because of concern in regard to equity and in
19 regard to taking care of neglected populations of the
20 gifted.

21 One thing that occurred to me during one
22 of the really absorbing speeches this morning was the
23 need for someone to do a study on why it is that the
24 great geniuses in all fields of endeavor always had

1 some department in their growth in their personalities,
2 and in their ways to spend their time that was devoted
3 to the arts. I think that partnership is due to the
4 fact that the arts offer a process, an actual living
5 experience, dealing with materials that are resistant,
6 solving problems in dealing with those materials,
7 adjusting to them, making them work for you, and
8 moving smoothly through conceptualization from one
9 media to another. And that process through which
10 artists work is a commonplace to them, and it is
11 frequently missing in a great deal of education and
12 desperately needed for the development of gifted
13 children. Thank you. (Applause.)

14 Commissioner BAKER. Thank you both very
15 warmly, and the Connecticut group has shaped their
16 program so that we would have a few minutes for
17 discussion.

18 Dr. WILLIAM G. VASSAR. I think we had a
19 mistake in the program. We have corrected that with
20 Mollie. We were supposed to have three people on.

21 We just have a short statement to make
22 relative to the different kinds of things we thought
23 the Commission would be interested in, some models
24 for excellence.

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When one can take an old Nike site and some Federal money and some State money and some private money and turn it from a thing of destruction to a center of instruction, -- you know, Connecticut never had a Westinghouse winner before, and there is a young man sitting right here on this campus at Harvard who won the Westinghouse award two years ago because of some of the kinds of things that are happening at Talcott Mountain Science Center in Avon, which many of you from the New England area and other places have visited.

This is an opportunity for kids from all over the state to go and study things like chronobiology, and to get into computer science, to get really hands on kinds of information in the sciences and in the mathematics areas. It is truly, in and of itself, a terrific model for excellence.

We also took over an old synagogue in New Haven. It serves as an eighteen school district Regional Service Center for the talented in the arts. We really disagreed a little bit with New York in terms of having a complete high school like you see on "Fame". Ours is based on the idea of the youngsters maintaining their status in their home high



1 schools and spending a half day, every day of the
2 week in the Center, in the craft areas with their
3 peers in the arts areas.

4 So, again, we look to this as a model
5 of excellence in the arts. So, we are not only
6 concerned about the academic areas, -- I was talking
7 to Dave Feldman about this, -- but also about the
8 arts areas. We are one of the few states in the
9 country with a specific definition to take care of
10 demonstrated and potential ability in extraordinary
11 learning ability and, also, in outstanding and
12 talented creative arts.

13 We talk about Federal funds, and we have
14 certainly taken advantage of those over the years
15 and had the opportunity at one time to do some work
16 with Senator Javits in developing those bills. And
17 we would be without these little folders that we can
18 send out to the mother of a pre-schooler who yells out,
19 like I was talking about to Connie Steele at lunch-
20 time. And we get the phone calls. Joe Renzulli has
21 the same kind of phone calls at the University. What
22 happens when a mother calls you on the phone and says,
23 "My daughter is reading the New York Times and she is
24 only eighteen months old."

1 And the first time she called I had a
2 little bit of cynicism about her. The second time, she
3 wrote, and you could see the sincerity in her letter.

4 And we sent her to Al Solnik, and you
5 should all be familiar with Dr. Solnik at the Yale
6 Child Study Center, and his work.

7 We sent her to Al to be evaluated by his
8 team and we truly found her to be gifted at a very
9 early age. And we are uncovering more and more of
10 these today.

11 And so, we say to the Commission if you
12 read "Great Expectations", which talked about the
13 baby boom, we are now inheriting in our schools, in
14 Connecticut and throughout the country, in the
15 territories, we are now getting the sons and daughters
16 of the baby boom. Even though the "boom" generation
17 itself did not connect, their generation is going to
18 connect because we are getting the calls on the
19 phones saying, "Hey, we have bright kids. What are
20 you going to do for us?"

21 And I think, when people talk like Dr.
22 Steele talked about certain kinds of parenting, these
23 are the kinds of things we are looking for. And we
24 are looking into United Technology and other kinds of

1 places to try to drag money out to get some research
2 done. We sorely need research and development. Even
3 though we have crystallized a large number of programs,
4 good programs in our state, like many other states, we
5 need that kind of support money to carry on and bring
6 these models about.

7 I think we are one of the few states in
8 this country -- and I know this sounds parochial --
9 but I think we are one of the few states and, when
10 Mollie called us and asked us to talk to organization,
11 how do you develop an organization that will take the
12 theoretical framework from the institution of higher
13 learning level and bring it down to a practical level
14 so that the public knows what is going on and the
15 public schools know what is going on, I think we have
16 done this.

17 You heard Dr. Renzulli talk this morning
18 as we like to call him, Joe. As Joe did at the
19 University with his very excellent graduate students,
20 took and developed that particular model, -- I am not
21 here to sell Joe's model. I am here to tell you that
22 we researched that model with him for four or five
23 years, and his students. I am saying it is another
24 option that our districts can use, and we made it to

1 the State Board and to our policymakers, and had
2 their support. And they said to us, "Hey, it looks
3 good. Go ahead with it." And, this year, they said
4 it is good enough so that we can take the legal
5 services people, we made the arrangements with the
6 Assistant Attorney General to get a ruling, and now
7 we have broadened our concept to include certain
8 aspects of this EDIM model.

9 Again, we were one of the first states
10 to go into handicapped gifted. Someone talked this
11 morning about IQs. I hate IQs. Someone asked me,
12 "What do you think about IQs?"

13 I said, "I think they are interesting. I
14 think they are good for what they do. But I think
15 you have to know the limitation of an IQ test."

16 And I happened to ask this graduate
17 student at the School of Education which happened to
18 be in another state, I said, "By the way, are you a
19 graduate student in the School of Ed?"

20 He was against them, by the way; it was
21 during the hippie generation. And he said, "Yes, I
22 am violently opposed."

23 I said, by the way, what is the cut score
24 in the Miller's Analogy in the School of Education

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that you now attend?"

End of argument.

Okay. Labeling. Hey, we have been labeled since we were in the crib. I was labeled as a "preemie." I was labeled as a "jock." I was labeled as a football player who had half a brain. Okay?

I am labeled as a Kiwanian or as a Rotarian. We label every single day of the week.

Now, ladies and gentlemen, I ask you, what is wrong with labeling when it is part of the American way of life? We label every day of the week.

I go to certain country clubs to play golf. You are labeled. If you are a part-time member, you are labeled; you can only play here at certain times. This happens every day of our lives.

I see nothing wrong with using the label of gifted and talented youngsters.

All we wanted to say is that we are breaking barriers every day. Sitting to my left, Rosalyn Jacobitz is with us this year under a special contract. We felt a great need, since we run our vocational technical schools, our 17 vocational technical schools in the Department; we feel a great need to screen and identify youngsters in the shop.



1 areas, -- not in the academic areas, in the shop areas --
2 to find some kind of screening and identification
3 criteria, so that we can better meet the needs of
4 youngsters in those vocational technical schools.

5 Someone was quoting -- I forget whom --
6 this morning from Gardner on Excellence about plumbers
7 and philosophers. Well, we are ready to start dealing
8 with those plumbers so that we don't have some of the
9 leaks in Connecticut any more.

10 And the thing is that what we would like
11 to say is that we have tried hard for 16 or 17 years
12 to become a program of excellence. We haven't reached
13 that goal yet. We may never reach it, but we are
14 always aspiring to it.

15 I want to pay very definite homage to the
16 tremendous cooperation -- I am not saying it because
17 they are here; I don't have to; at my age, you don't
18 have to say anything about anybody -- but, when you
19 have an advocate like the Chairor of the Board, and
20 you talk about the lady who was a director on
21 Broadway -- I might let you in on a little secret
22 about a very wonderful person today for all of you in
23 the audience. She directed Mary Martin in "Peter Pan".
24 She was Marge on Easy Aces for a number of years, on

1 radio, for those older folk. She has done everything.
2 She is known as the Grande Dame of the arts in
3 Connecticut. And I will tell you, without her support,
4 we wouldn't go anywhere, without this support over
5 here.

6 Also, the cooperation with the University
7 of Connecticut. This is where we take the theory and
8 put it into practice. We work together, we continue
9 to work together. We differ philosophically at times,
10 but, one time, when we had a certain Director of the
11 Office of Gifted and Talented, she made a visit to
12 the State of Connecticut and she said to us, "You know,
13 I don't find any dirty laundry about Connecticut."

14 And I said, "That's right, because we wash
15 it at home."

16 That is what I am saying to you today as
17 members of the panel. We are looking for ancillary
18 assistance, just as Jim Gallagher said. I won't
19 repeat what Jim said this morning, but we need that
20 R and D, we need that teacher training; these are
21 the extra kinds of things that the Legislature will
22 not fund. We are putting from seven to nine million
23 dollars in state and local money into the third
24 smallest state in the Union, into gifted programs.

1 We feel that the extra \$30 million that Jim talked to,
2 and the Commissioner from Maine talked to six, and I
3 will buy six; if we can't get thirty, we will buy six.
4 But, we need that kind of extra money. It has made
5 the difference.

6 It has made the difference in these
7 publications that we can send to parents, to make
8 them understand what they can do with their youngsters.

9 We have twelve to fourteen different
10 publications, and people around different parts of the
11 country say, "How do you do it?"

12 We did it with Federal funds. We can no
13 longer do it with Federal funds, unless we steal a
14 little bit from the handicapped.

15 But the point is that we are very happy
16 as a panel. You might want to address Dr. Renzulli
17 and Mrs. Jacobitz on specifics with the State. They
18 are our resource people. They are the people that we
19 turn to and we really appreciate your having us with
20 you today. Thank you.

21 Commissioner BAKER. Thank you, sir. We still
22 would have time for any queries from the Commission
23 about this very challenging program that they have
24 undertaken.

ERIC
Full Text Provided by ERIC



1 Commissioner HOLTON: As a point of information,
2 you spoke of the difficulty of funding, is there a
3 publication or something which exists as an underground
4 document circulated among people like yourselves which
5 is a guide to funding for the gifted. I know that
6 one can buy the Whole Earth Catalogue for almost any
7 subject whatever, but it occurs to me that, when it
8 comes to supporting our gifted children and helping
9 mothers who find that their children need some
10 attention in that field, I don't know where to send
11 them.

12 Now, maybe that exists. If not, we ought
13 to really commission it.

14 Dr. VASSAR: Well, obviously, you know, like
15 any administrative structure, and especially a state
16 department or a local school district, there is the
17 informal structure and the formal structure. Obviously,
18 we are in a formal setting today, as we are when we
19 go before a Senate Subcommittee or a House Subcommittee
20 in Washington. But I would be more than happy to talk
21 to individual members about the informal structure
22 that we utilize to provide those services.

23 Dr. WOLFE: That sounds like some kind of
24 Mafia operation.

1 Well, we have one fortunate thing in
2 Connecticut because there is a very powerful industry
3 headed by United Technology. And, when they buy
4 space in a Hartford newspaper talking about the fact
5 that, in high technology, you need arts and arts
6 experiences, then I think we have got some, shall we
7 say, undercover support.

8 Commissioner HOLTON: If there is a group of
9 parents or teachers that wants to get into this field
10 and needs funding and, as you have pointed out, the
11 Federal funding is very low now, -- that might change,
12 but, for the time being -- they might have to turn to
13 private or corporate funding, is there a way in which
14 you can start other groups like yourself by giving
15 them a hand up and giving them a handout, as it were,
16 perhaps a set of sheets, as a starter?

17 Dr. WOLFE. I think you are presenting us with
18 a very good challenge. We have individual bits of
19 material here and there and our Task Force should
20 put such a paper together. Thank you.

21 Chairman GARDNER. We don't have time, I am
22 afraid, to invite a response today, but perhaps you
23 might be kind enough, one of you, to respond in
24 writing to this question, if you are disposed to do so.

1 Connecticut obviously enjoys a leading
2 position in the country with respect to efforts in
3 this area of our educational endeavor. Why is that?
4 What is there about Connecticut that permits you to
5 accomplish this?

6 Dr. WOLFE. Well, it isn't in the water, I
7 assure you.

8 Chairman GARDNER. Or in the air, I presume.

9 Dr. WOLFE. That is right. The air comes
10 mostly from New York.

11 Chairman GARDNER. To the extent that you
12 could provide us with a profile of those things that
13 you tend to think may be unique, as against those
14 that tend to be less unique, in ways that would be
15 helpful to us to understand what is occurring there
16 and what might be transmittable elsewhere we would
17 clearly appreciate receiving this.

18 Dr. VASSAR. Since the World Series begins
19 again tonight, take yourself back three or four years
20 ago to Willie Stargill and the Pittsburgh Pirates,
21 when he went along with that song, "We Are a Family."
22 And I think this is what it is in Connecticut. I
23 think it is everyone working together, the advocacy
24 groups, the University, the State Department, the

1 Board, the Task Force. And we are small enough to
2 keep it a rather cohesive group and we are small
3 enough that we are able to get out and visit schools
4 and work with school districts to develop these
5 programs, and we would be more than happy to develop
6 a paper on that subject to send to you.

7 Commissioner FOSTER. I am glad you are going
8 to address that problem in your paper, sir. Would
9 you add a section as to what appear to be objections
10 to going the Block Grant route as opposed to earmarked
11 funds for the gifted and talented?

12 Dr. WOLFE. We would be very glad to, because
13 we have very strong feelings on that.

14 Commissioner FOSTER. Thank you.

15 Dr. WOLFE. As you have already gathered.

16 Commissioner BAKER. Thank you, Commissioner
17 Foster, and thanks to our colleagues from Connecticut.

18 Education for the Gifted in New York State

19
20 Commissioner BAKER. We move to New York with
21 Paul Regnier, Assistant to the Deputy Commissioner
22 for Elementary, Secondary and Continuing Education,
23 speaking on behalf of Mr. Gordon Ambach.

24 Mr. PAUL REGNIER. My name is Paul Regnier.

1 am Assistant to the Deputy Commissioner for Elementary,
2 Secondary and Continuing Education, and I am here
3 representing Gordon Amback, Commissioner of Education
4 for the State of New York.

5 I had thought I was coming alone, but
6 Emyln Griffith, a member of the New York State Board
7 of Regents, Chairman of the Regents' Committee on
8 Elementary and Secondary Education, who is in Boston
9 to attend the meeting of the National Association of
10 State Boards of Education, has managed to break away
11 and come to help me represent New York State, and
12 has brought with him Harriet Malloy of the Montana
13 State Board of Education.

14 The testimony that I am going to read,
15 Commissioner Amback's testimony, I think really kind
16 of sums up or at least deals with many of the issues
17 that I have heard raised today, and I have been here
18 since 8:30 this morning.

19 This statement is succinct, it is short.
20 I will read it, and, if there are questions from any
21 members of the Commission afterward, I will try to
22 deal with those.

23 A drive to provide special programs for
24 educating gifted and talented students is gaining

1 momentum throughout the nation. Our State is a part
2 of that movement as indicated by Legislative action
3 last year to appropriate State funds earmarked for
4 such programs to all school districts..

5 Advances in the education of disadvantaged
6 and handicapped children have taught us valuable
7 lessons. Providing a challenge to children who have
8 different capacities and opportunities requires
9 additional resources and special class arrangements.
10 To challenge gifted and talented children also
11 requires programs and services that are different from
12 those for most students.

13 While programs for gifted and talented
14 students may be different, they must be developed and
15 implemented as integral parts of a school's entire
16 academic and artistic program. Such programs should
17 help improve the quality of academic and artistic
18 programs for students of all ability levels. Programs
19 for educating the gifted and talented ought to meet
20 the following criteria:

21 1. The program identifies students who
22 are especially able in academic disciplines or in
23 artistic fields. Identification methods must be
24 sufficient to find children from racial and ethnic

1 minorities and from deprived socio-economic circum-
2 stances who have high potential in academic and
3 artistic fields.

4 2. The program is more intellectually
5 and/or artistically serious and rigorous than would
6 otherwise be offered to these students in regular
7 classes. The greater effectiveness may be in the
8 form of wider breadth or stronger depth of knowledge
9 or understanding or more sophisticated levels of
10 critical thinking.

11 3. Scholars of academic disciplines and
12 those recognized as experts in the various arts by
13 professional practitioners should prepare the courses
14 of instruction for the gifted and talented and evaluate
15 their effectiveness..

16 4. Courses of study for gifted and
17 talented students should serve as models for courses
18 for all students. They should provide an opportunity
19 for experimentation and demonstration of content and
20 technique which can be adapted to other courses.

21 In New York State, commencing with the
22 1980-81 school year, the State Legislature authorized
23 funding to help all school districts to meet the
24 educational needs of gifted and talented students.

1 While the total amount of money allocated is limited,
2 it does authorize all school districts to assess
3 their needs and begin program development.

4 For the 1982-83 school year, the State
5 Legislature empowered the State Education Department
6 to help districts in the following ways:

7 Providing information to school districts
8 about development of programs, curriculum resources,
9 instructional procedures and strategies to identify
10 and encourage gifted pupils.

11 Providing technical assistance and in-
12 service education for teachers and administrators.

13 Maintaining a record of available programs.

14 Developing and distributing a handbook
15 for parents of gifted pupils.

16 Establishing procedures to evaluate the
17 quality and educational effectiveness of programs
18 for gifted pupils.

19 We have appointed an Advisory Council to
20 help the State Education Department develop policies
21 and procedures for providing education to the gifted
22 and talented throughout the State.

23 Many New York State school districts are
24 spending their own funds to develop new programs for

1 gifted and talented students, while other districts
2 are using their own funds to maintain offerings that
3 were previously funded by the Federal government.
4 Local interest in education of the gifted is high,
5 but how long can we anticipate school districts will
6 persist in their efforts, as resources continue to
7 decline and other pressures on the local budgets
8 increase?

9 A number of problems need to be addressed.
10 to improve the education of gifted and talented
11 students. The Federal government must support this
12 work through research and analysis. Federal actions
13 should include:

14 1. Research to develop better ways of
15 identifying gifted and talented students. This is
16 especially true in relation to several groups which
17 are under-represented at present in programs for the
18 gifted and talented. These groups include economically
19 disadvantaged students, minority groups, culturally
20 different students, and handicapped students.

21 2. Sponsoring preparation of appropriate
22 curricula for gifted and talented students.

23 3. Identifying ways to ensure that
24 courses of instruction for gifted and talented students

1 help improve courses of instruction for all students.

2 4. Support the training of teachers of
3 the gifted and talented.

4 5. Disseminating information about
5 appropriate programs for the gifted and talented.

6 These problems can be solved, but the
7 resources available to the separate school districts
8 and state education agencies are not sufficient nor
9 are they adequately aggregated for this effort. The
10 Federal government has an appropriate role here to
11 ensure extra efforts for high-quality elementary and
12 secondary education for the gifted and talented. As
13 part of your report on excellence in education, I
14 hope you will stress the need for this national
15 commitment. Thank you.

16 I believe we have some time. Are there
17 questions from anyone?

18 Commissioner BAKER. Thank you. We will be
19 glad to have any special items, but we also take very
20 warmly your proposals and we will follow those up as
21 well.

22 Commissioner MARSTON. Mr. Chairman, may I
23 ask a question, please? If it is not appropriate at
24 this moment to answer the question, could you send the

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Commission and to myself some of your material on your evaluation of your gifted program as they relate to continuity across school districts and as they relate to improvement for the student? I would be very interested in that evaluation.

Mr. REGNIER: I must say, of all the aspects of the program, and I think you are probably aware of this, the situation is a most difficult one and one in which we have made the least amount of progress.

Commissioner MARSTON. And I didn't know any states had done anything on it and I am very interested in that. Thank you.

Mr. REGNIER. We are working on it.

Commissioner MARSTON: Thank you.

Mr. REGNIER. Thank you.

Commissioner BAKER. Thank you.

Issues and Themes in Education of the Gifted and Talented

Commissioner BAKER. We will all note that our speakers up until now have dealt with a very excellent sampling of the compelling issues in this vital field.

Accordingly, the Commission is appreciating strongly the opportunity to have the next section of



1 the report on a kind of overview, a kind of commentary
2 and, indeed, any other feature that our speakers wish
3 to inject.

4 On Issues and Themes in the Education of
5 the Gifted and Talented, it is a pleasure here to call
6 on Dr. Benson Snyder as the first speaker for this
7 section, Professor of Psychiatry and Director of the
8 Division for Study and Research in Education at the
9 Massachusetts Institute of Technology. Dr. Snyder.

10 Dr. BENSON R. SNYDER. It is a pleasure for me
11 to be here this afternoon. I just found out that I
12 get a beep at ten minutes and that I must stop at
13 twelve. And I will honor that, so long as it is not
14 in mid-sentence. The problem is trying to say a lot
15 in a short period of time and, actually, it occurs to
16 me that it may benefit from such excisions.

17 In discussing excellence in education, we
18 have to be specific about what we mean by excellence,
19 what qualities in the "to be educated" are being
20 addressed. The referent needs explication -- excellent
21 hunter, excellent scientist, excellent poet. I have
22 spent well over three decades in institutions which
23 have clear notions about excellence, at least at a
24 superficial level. At MIT (and it is very different

1 there than it is at Harvard and Wellesley) the ability
2 to both recognize and pose problems and to develop
3 high competence in solving them in the areas of science,
4 engineering or high technology is the basis for virtue,
5 another definition of excellence. Drawing on exten-
6 sive interaction with both faculty and students, some
7 as part of the longitudinal study which I began in
8 1961, I would like to sharpen the definition of
9 excellence by contrasting two modes of thought, two
10 ways of knowing which illustrate the importance of
11 making a distinction about the kind of excellence
12 that is being sought.

13 The human mind seeks certainty in varying
14 degrees. Those who seek it most are very likely to
15 be attracted to those technologies and branches of
16 science where causes are most regularly connected with
17 effects and predictions are least likely to be
18 disturbed by historical or contextual patterns. I am
19 particularly referring to natural sciences here.

20 On the other hand, and contrasted to this,
21 the human mind varies in its concern for other human
22 beings, their thoughts, feelings, as well as their
23 actions. These concerns are likely to be felt most
24 keenly by those whose capacities for empathy and

1 and intuition, and in particular for the grasp of
2 contextual as distinct from causal situations, are
3 most fully developed. The mix of these two modes of
4 thought or ways of knowing get worked out in quite
5 different ways in individuals, often depending on
6 their field of primary expertise.

7 I am going to skip and just give a
8 headline. There is a very interesting development
9 on the way in which the language and the mode of
10 thought in the various disciplines, computer science,
11 particle physics, theoretical mathematics, for
12 example, is developing an increasingly separate set
13 of metaphors and ways of understanding, so that
14 communication, not just between science and social
15 science becomes more problematic, but even within the
16 disciplines. Clifford Geertz has discussed this, and
17 a number of other people, and it is amply borne out
18 by the trend over the last two decades as I have
19 listened to these people who I started talking with
20 when they were freshmen, and they are now 38, 39
21 years old.

22 My current interviews with these students
23 that I first talked with twenty years ago strongly
24 suggests that the ability to think about problems that





1 are rooted in the imbedding of a physical reality,
2 where predications can often be tested in minutes,
3 needs to be, and is, for many, a temprea, over time,
4 with the ability to grasp contextual issues, to
5 understand a human situation through empathy, where
6 the final answer, if it ever comes, may be measured
7 in years.

8 I need to briefly discuss some of the
9 earlier work, in which we found what we called "the
10 hidden curriculum" underlying the formal curriculum,
11 which determines to a significant degree what becomes
12 the basis for a student's sense of worth and self-
13 esteem. This hidden curriculum, more than the formal
14 curriculum, influences the adaptation of students and
15 faculty, affects their cognitive style, their mode of
16 thought, and even their language.

17 Students come to MIT having done every-
18 thing they have been asked to do easily and well.
19 They are faced with an overwhelming overload, more
20 work than they can do, and therefore must learn to
21 selectively neglect much of what they are asked to do.
22 This presents both a cognitive and psychological
23 hurdle. The presence of this covert task structure
24 is linked in important ways to the institution's

1 supports and penalties, for both students and faculty.
2 In the early years (and I think this is still the
3 case today), many students developed an instrumental
4 approach to their education, finding out what worked,
5 which strategy would pay off with the highest grade.

6 In engineering and in science, making discriminations
7 and separating out the critical from the trivial is,
8 in fact, a central cognitive skill, so learning to
9 selectively neglect actually has its place. However,
10 these late adolescents who are told to do everything
11 and do it well and who find that this is a clear
12 impossibility in the context of their freshman year,
13 face a high level of dissonance. One student, not
14 having read the literature, called it cognitive
15 dissonance.

16 Let me illustrate one impact of the
17 hidden curriculum on two groups of students that
18 differed in the degree to which they sought certainty,
19 one right answer, or took to light in open-ended
20 questions and were challenged by ambiguity. The two
21 groups of students were selected on the basis of
22 their scores on a psychological test given them early
23 in their freshman year, actually, their first day.

24 We had been interested in seeing whether students with

1 different adaptive patterns and similar academic
2 fates as they moved through four years at MIT. One
3 group was chosen because they were marked by a desire
4 to seek out new, complex social and cognitive experi-
5 ences while the other group's responses to the same
6 items in the personality inventory suggested that
7 they were careful, orderly, avoided ambiguity where
8 they would, and appeared to take minimal risks. The
9 group seeking new experiences lost three times as
10 many students through withdrawal or disqualification,
11 mostly withdrawal, as the non-risk takers during the
12 first year. There was no significant difference be-
13 tween the two groups in subsequent years.

14 The high risk takers, so to speak, did,
15 however, follow very different paths through the
16 institution, took different measures than those who
17 sought out more certainty. However, the grade average
18 for the latter students, the more orderly students,
19 was consistently higher, despite the fact that there
20 was no statistically significant difference in the
21 scholastic aptitude and achievement tests upon
22 admission.

23 In the first year, as I said, about a
24 third of the students from the risk-taking group left

1 eloquent -- I sat in on all the classes -- about
2 particular paper, and explaining one of them, from
3 1903, and a student had his hand up, which he finally
4 saw.

5 He looked up from his paper and the
6 student said, in an absolutely flat voice, "Have you
7 marked last week's quiz yet?"

8 I counted twenty seconds before the
9 professor was able to go on. It really threw him.
10 So, it wasn't subtle. let me say that.

11 The absent students did well enough
12 academically; only the professor was directly
13 concerned about these students.

14 There was no feedback to the rest of the
15 institution that there was a problem. This experiment
16 was embedded in an intensely demanding curriculum.

17 Those who cut class were simply responding to the
18 pressure to produce in other subjects. Binding
19 themselves to the syllabus and working by the clock
20 did not come as naturally to the creative students.

21 It took, as one student put it, "constant vigilance to
22 keep up," but he thought that after graduation there
23 would come a time to pursue the intriguing questions
24 that he had heard raised in his few appearances at the

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the institution. The restless curiosity which characterized them is a quality that many faculty members sought in students, so the institution wanted them, admitted them, and then saw many of them leave.

Indeed, there is considerable evidence that we cannot document right now that it, in effect, forced them out; not adaptive.

A professor in one of the science departments, in part, as a result of this kind of discussion, developed an experiment, and restructured his course in order to engage the more creative students in what he called a dialogue. He freed them from extensive assignments, made the course pass/fail, limited the number of students to twelve, and had them sit around a table, with less structured interaction. And they were to read Einstein's early papers as a way of learning physics. The attendance of the creative students dropped off, since they could selectively neglect the attendance requirement, while their more conservative classmates came regularly throughout the semester. The professor felt that his experiment was, by and large, a failure. I can tell you how that happened.

Toward the end of the class, he was waxing



1 seminar. For the present, he had to ignore the
2 questions at the seminar in order to make time to
3 keep up his grades.

4 I am sorry to report that, in interviewing
5 many of these people through graduate school, that
6 was not a consistent pattern. Some managed it quite
7 a bit later.

8 Educational innovations and experiments
9 that ignore the hidden curriculum simply do not
10 succeed, at least not at MIT. And the initiator is
11 often disturbed and depressed by the failure and
12 doesn't learn much about why it didn't work; nor does
13 the institution, typically.

14 In marked contrast to this vignette, I
15 would like to mention that you heard from Professor Margaret
16 MacVicar in Chicago at one of your hearings, who is
17 at MIT, who developed and administered the Under-
18 graduates Research Opportunities Program at MIT over
19 a twelve-year period, still. This program, which
20 involves negotiating work settings between faculty
21 and students in a way that is somewhat analogous to
22 graduate research assistance, has thrived and has
23 made a profound difference in the quality of inter-
24 action between the faculty and the students, precisely

1 because the hidden curriculum at MIT works for it and
2 not against it.

3 Now, let me trace out one aspect of the
4 longitudinal study which bears on the two modes of
5 thought that I began with. Certainly for those
6 students at MIT in the period from 1961-65, when they
7 were there, the predominant mode of thought to which
8 they linked their sense of worth and self-esteem
9 would be the one characterized by seeking certainty,
10 where causes were regularly connected with effects
11 and making and testing predictions largely undisturbed
12 by context. The vast majority of students, in the
13 order of 80 per cent, — a [redacted] finished the
14 interviews; this is just giving you a rough, quick
15 picture — were in this same category over four years.
16 Approximately 10 per cent were much more concerned
17 with human beings, with empathy, with intuition, and
18 a grasp of contextual situations. Then there were
19 10 per cent who showed really both qualities clearly
20 from freshman year all the way through.

21 On the basis of my interviews with these
22 former students during this past year, about two
23 thirds of those who had been in the first category
24 now employ both modes of thought. Ten per cent of the



1 students sought certainty as undergraduates remain
2 rooted in that mode. One of these students is in a
3 situation in which his sense of worth and self-esteem
4 continues to be heavily linked to using a particular
5 set of cognitive skills. He finds himself now,
6 because of changes in his discipline, in what he
7 described as a cul-de-sac. It is particularly ironic
8 because he had made a contribution to his field
9 shortly after completing graduate school, which
10 significantly influenced the rapid obsolescence of
11 his own particular mode of problem solving. And that
12 is not common, but it is by no means rare in this
13 population.

14 Ten per cent of the students who exhibited
15 both modes of thought throughout MIT continue to
16 maintain this facility. They are now the most creative
17 in their adult careers. One has been remarkably
18 successful professionally, having developed a
19 technological breakthrough in his field two years ago,
20 and another was recently appointed a MacArthur Fellow
21 in the last round, which means that he had some
22 independent validation of my judgments if they made
23 the right judgment.

24 The development and elaboration of these

1 Modes of thought requires significantly different
2 contexts. They were affected by the tasks that were
3 assigned and by what "paid off" in particular
4 institutional settings. They were sustained by the
5 appropriateness and availability of various supports
6 and human networks at crucial periods at MIT, and
7 beyond.

8 Let me signal my concern: There is a
9 danger that excellence too narrowly defined will trap
10 students in a particular cognitive mode that will
11 limit them ten years after graduation. Obviously,
12 the combination of these two modes of thought requires
13 a broader definition of excellence, and both the
14 hidden and the formal curriculum must be attended to.

15 Let me just jump over to some practical
16 summary statements. The early experience of being
17 challenged, of finding that one can really do math,
18 or physics, or take apart an engine and put it back
19 together, or a clock, make a radio, and to come to
20 know what it means to master a cognitive or kinesthetic
21 task is a critical first step on the path to
22 excellence; there is a vast amount of confirmation of
23 that in this material. For many students, this early
experience involved a teacher, more of this material

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comes out now then it did back in '37 and '38 when they were talking to freshmen and sophomores at MIT. And that is that many were challenged by a National Science Foundation Summer Program in a special course.

One of my subjects, who completed his Ph.D. in Science and then changed into a professional field -- actually went to law school and left the sciences -- reflected on what it might have meant if he had had as good a teacher in English in the tenth grade as he had had in math. He felt that he might have made the change much sooner.

Excellence involves taking delight in the exercise of a cognitive skill, in using the competence to explore, move around in, expand a network of related problems, puzzles and concerns. The sense of worth and self esteem of these former students derives in increasing measure from the act of thinking productively about problems that, in time, they set. The most creative of those interviewed link their sense of self worth to their ability to both pose and solve increasingly complex problems. They did not base their self esteem on grades. This contrasts with the science major who linked his self worth to



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his 3.0 cum at MIT and to the A's he consistently
made in graduate school. Now a software engineer,
working far below his level of competence, he says
he had a calculator mind, and was good at sums, but
was not challenged to think creatively.

In conclusion, this leads me to urge you
to consider the overriding importance of combining
both basic and applied research, which will necessarily
involve a number of disciplines. Excellence in
education involves cognitive skills, psychological
adaptation, the nature of support systems, the
quality and extent of human networks, and all of this
view from the perspective of human development. The
rate of change in the disciplines does mean indeed
that today's excellence can become tomorrow's
obsolescence. Too narrow a definition of excellence,
one that allows for only one mode of thought, one
right answer, without regard to context, to empathy,
to human networks, will surely leave us "wanting".
Excellence has more than one dimension, and we need
to consider the totality of human development in our
measurement and pursuit of what we seek as excellence.
To do less is to take the path only to wind up, as
the former student found he had, in a cul-de-sac.

1 Thank you. (Applause.)

2 Commissioner BAKER. Thank you, Doctor, for
3 your far-reaching and excellent comments. You have
4 illuminated our pathway in this quest for under-
5 standing excellence in the education of the gifted
6 and talented.

7 And, if you would stay with us for a
8 moment or so, we will have time for a bit of
9 discussion after Dr. Cox's comments, the Director of
10 Research at the Sid Richardson Foundation.

11 Ms. JUNE COX. Thank you. I never got around
12 to getting a doctorate, so thank you for giving me
13 one today at Harvard.

14 Commissioner BAKER. Have you ever noticed
15 that anybody as wise as these participants this
16 afternoon certainly has a terminal degree of some
17 sort, and we have been conferring it here.

18 Ms. COX. I think the task that you have
19 accepted is a tremendous one and I appreciate the
20 difficulty that faces you, and I am pleased to have
21 some part in the day's activities. I just wish that
22 I had been using my time more wisely in my automobile
23 in practicing some speech-making. It would have come
24 in handy today.

1 You have heard proposals today for
2 research and development, for administrative
3 centers, for attention to early childhood education,
4 and to the identification of minorities and the
5 disadvantaged. You have been urged to consider
6 larger numbers of students as gifted than we currently
7 do. You have been cautioned to think in more specific
8 terms about how children are gifted. You have heard
9 about how a student's self-concept improves in
10 challenging programs such as those offered at Johns
11 Hopkins University.

12 We have all been reminded that intellectual
13 deprivation may be even more damaging than nutritional
14 deprivation, and we have heard a raft of other ideas.

15 Some of the ideas that you have heard
16 seem to conflict a bit with some others, but all of
17 us here today agree that entirely too little attention
18 has been paid to the education of the gifted and
19 talented.

20 From the perspective of my own study, I
21 feel that some apparently conflicting ideas might be
22 resolved by distinguishing between the issues which
23 need to be addressed by improving the quality of
24 education for all children and those issues which need

1 to be addressed by the development of special programs
2 for the gifted and talented.

3 I am in the second year of a three-year
4 study for the Sid Richardson Foundation in Fort Worth,
5 Texas, focusing on this issue.

6 This is not an ivory tower study, thank
7 goodness. I am ably assisted by some people that many
8 of you know, by Dr. Getzels at the University of
9 Chicago; Marvin Gold, Editor/Publisher of G/C/T;
10 Dorothy Sisk of the University of South Florida and
11 Bob Sawyer at Duke University.

12 We bring these people, and others, in to
13 meet with me in Fort Worth several times a year. The
14 meetings now last for about three days, and they are
15 very productive.

16 Each meeting now focuses on a specific
17 practice or program model, and we bring in several
18 teachers and administrators involved in the issue
19 under discussion to work with us. We carefully
20 select participants from various geographical
21 locations and from diverse socio-economic communities.
22 To date, we have included teachers and administrators
23 from California, Pennsylvania, Virginia, Arizona,
24 Massachusetts, Utah, and, of course, Texas.

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1 The specific goals of our project are
2 these: To discover the nature and location of
3 existing programs for high-ability students; to
4 identify those programs that are particularly effective;
5 and to suggest additional approaches to the education
6 of able students.

7 We decided early on in our study, to
8 explore two very different kinds of programs: (1)
9 Those designed specifically for gifted students, and
10 those of us in the field are probably more accustomed
11 to thinking in those terms, but also others that meet
12 the needs of gifted and talented students, but are
13 not labeled "Programs for the Gifted."

14 Included in the latter are such programs
15 as continuous progress, advanced placement and
16 concurrent enrollment in high school and college, and
17 we have heard about some of those programs today.

18 To gather some basic data, we mailed
19 comprehensive questionnaires to every public and
20 parochial district in the country. We also mailed
21 questionnaires to a sampling of private schools, a
22 total of about 16,000 questionnaires.

23 We are visiting as many schools as
24 possible. Committee members assist with these on-site

1 visits, but the major responsibility for this task
2 is mine, and keep in mind that this is a national
3 study, not a Texas study. The responsibility for
4 writing the report is also mine, unfortunately,
5 although the committee helped determine the method of
6 reporting.

7 The report will be published as a series
8 of articles in G/C/T. The first article, focusing on
9 continuous progress and non-graded schools will appear
10 in G/C/T's November/December issue.

11 Following the publication of the final
12 article which will address implications of the issues
13 involved in educating the gifted and talented and
14 recommendations for programming, the series will be
15 collected and published in a single volume for
16 national distribution.

17 What are some of the issues our study has
18 identified to date? One major issue, and it has been
19 referred to a bit today, but not much emphasis, I
20 think, has been placed on it, but one issue that those
21 of us concerned about the education of all students,
22 including the gifted, must confront is what Julian
23 Stanley at Johns Hopkins calls our age-in-grade lock
24 step education. Our practice of requiring all students

1 of the same age, regardless of their ability, to study
2 the same content for the same period of time dooms
3 the slow learner to failure and chains the gifted to
4 a distressingly slow pace.

5 as heresy,
6 I hope this doesn't come across/as if I
7 am not pro-programs for gifted students. In addition
8 to my work for the Foundation, I direct the Gifted
9 Students Institute. So, keep in mind that what I am
10 saying is coming from a proponent.

11 But the needs of many gifted youngsters,
12 especially the moderately gifted, could be met without
13 special programs, if we could allow students to move
14 ahead as they master content and skills. Stanley
15 urges K-12 teaching teams. Whether we call these
16 programs continuous progress, non-graded, flexible
17 advancement, flexible progression, or whatever, the
18 concept deserves a top priority. Someone mentioned
19 earlier today the work of the late Hal Robinson, and
20 he referred to this concept as optimal match strategy.

21 We in the specialized field of educating
22 the gifted emphasize the importance of teacher selection
23 and teacher education. As crucial as the teacher is
24 in the gifted child's education, I submit that we
must also educate the administrators, and School

1 Board members. The colleges of education must provide
2 more leadership, if we are to introduce the kind of
3 flexibility the school structure desperately needs.

4 When we launched our study with a small,
5 invitational conference of leaders in the field, John
6 Ehle, North Carolina novelist, and John Silber, here
7 at Boston University, addressed the group. Silber
8 challenged the participants to raise the quality of
9 education for all children. "What we have to do is
10 to offer a variety of educational experiences to the
11 students in our classes and examine them individually
12 and personally to see to it that they move to the
13 highest level of their capacity. And when they are
14 clearly at the level where they are doing the work
15 that we have assigned them, ship them on, ship them
16 out, ship them into a higher level of the regular
17 program so that they can become an impetus (to the
18 older students)."

19 None of what I have just presented should
20 be interpreted as advocating that we rush students
21 through the curriculum without regard to its context.
22 Both the content and the pacing should match the
23 student's abilities.

24 One of the most interesting aspects of the

1 study to date, and I wish I had time to tell you about
2 it, has been interviews with MacArthur Fellows, which
3 was referred to earlier, and I think we really have a
4 great deal to learn from some of those people.

5 One of them said, for instance, "There is
6 very little similarity between what is expected of
7 the student and what is expected of the scholar."
8 We reward students for doing what they are told to do.
9 Scholars must first find the question and then the
10 answer. I think this Fellow identified an important
11 issue for us.

12 Moving right along, since I have had that
13 little warning, none of the issues that any of us have
14 raised today can be addressed with the fragmented
15 approach currently in vogue throughout the country.
16 I second Commissioner Reynolds' call for a commitment
17 to excellence in education at the highest level in
18 our government, and I second James Gallagher's level
19 of funding that he urged.

20 A gifted child is entitled to a rigorous,
21 sequential program from kindergarten through the
22 twelfth grade. Isolated patches of "gifted
23 programming" are not good enough.

24 Our task is to educate all children,

1 including our brightest, give careful attention to
2 their specific abilities, and help them achieve their
3 potential. They deserve the best our country can
4 afford, and our country can afford to do no less.
5 Thank you. (Applause.)

6 Commissioner BAKER. Don't leave, Ms. Cox.
7 I think there is a bit of time for questions. I
8 don't know what they will be. Does any member of the
9 Commission have one?

10 I might start off, because, after all,
11 you are putting the accent on our whole themes today,
12 and we do have to come back to the question of what
13 happens to the gifted and talented, the noted studies
14 of Dr. Snyder have begun to illuminate some of this.
15 What proportion, offhand, would you say, amount to
16 something?

17 Dr. SNYDER. What proportion of the graduates?

18 Commissioner BAKER. The ones you have
19 identified quite early, freshman year, or whatever,
20 as having high potential?

21 Dr. SNYDER. I took a random stratified sample
22 of the class that entered, so it wasn't selected for
23 creativity. So it was a cross-section, on those
24 measures that were relevant.

1 well, my first answer is that it depends
2 a lot on what you mean by matters, what your criteria
3 or mine are for what constitutes success. The man I
4 referred to in my address who got a doctorate from
5 a leading university and is now the programmer could
6 be viewed, certainly, in formal terms, as a failure.
7 He is actually reading deeply in related disciplines
8 and is very likely to find his road back into the
9 field he was in before, but I don't know. It is like
10 a mid-career crisis, and I can't tell.

11 But there are roughly fifteen per cent
12 who are experiencing a sense of really not knowing
13 where they are headed or where they are going. Now,
14 that seems to me like a remarkably small percentage.

15 Some of those come from internal issues
16 that haven't been worked out. I was not seeing these
17 people as a psychiatrist; I want to make it clear.
18 Someone, however, did tell me that he went through --
19 when he was in graduate school, he had trouble
20 writing papers and getting his thesis done. And,
21 being out on the West Coast, someone said that he
22 ought to go into analysis. He knew that I had had
23 this training, so he told me that he had gone through
24 two years of analysis and that he had paid for it --

1 I don't think he was kidding me, but he may have been
2 by winning at poker. They have legalized poker in
3 California, and he worked out a system, and he never
4 told his analyst.

5 I could give you many, many anecdotes
6 that would say to me that it is a complex and varied
7 story in formal terms. The thing that surprised me
8 and pleased me so far is the number of people who
9 were very narrow as undergraduates who have been able
10 to move and shift, and a large part of that had to do
11 with life experiences, having a child, having a
12 divorce, or threatened with a change in jobs.

13 And some solved that by becoming even
14 more narrow and more instrumental in the way they
15 dealt with people. Most of these people are male,
16 white males. We are doing another study of the
17 Class of '75 which includes a much higher proportion
18 of women and minority students.

19 There is one other part that I am
20 intrigued with and would like to do a sub-study on,
21 and that is the group that come more from the Class
22 of '75 who have been extraordinarily successful in
23 the computer field, developing new companies. And
24 there are three of them.

1 One of them is, at 29, a multi-millionaire,
2 and he knows what he wants to do ten years from now.
3 He solved his problem and he is making his money and
4 he has got it all laid out and he told me which
5 journal -- there is a piece of scientific work that
6 he wants to go back to and do in the right way, and
7 he is going to fund it himself, that kind of fantasy.

8 And this theme runs through those three
9 people. They see themselves as having done something
10 that was useful and paid off, but they are not caught
11 up in building an institution, at least, not at this
12 point. I suppose that is just as well in the computer
13 field.

14 That is a long answer; I am sorry.

15 Commissioner BAKER. Well, you were touching
16 on just the exciting issues that we need to understand,
17 and it is heartening to know that you have identified
18 these ranges of behavior. I wonder if Ms. Cox would
19 feel that her study has identified things that you
20 would expect to have to recognize in the future
21 support of the gifted and talented and the development
22 of their careers, similarly. What do you think about
23 their futures?

24 Ms. COX. Well, of course, their future depends

1 so much on what we do. And one of the reasons I
2 found talking with the MacArthur Fellows so interesting
3 was that I just felt sure that these creative adults
4 could tell me something about their own educational
5 experiences and we could learn from that, and then we
6 would know exactly what we ought to be doing.

7 So, I asked questions such as, did they
8 go to public school, private school? Were they
9 recognized achievers? Did they value grades? Did
10 they do homework? The whole range.

11 There was no consistency whatever.

12 There were some things, however, that I
13 think we have touched on today, and that is that,
14 almost without exception, they referred to a supportive home
15 environment and the fact that, in many cases, parents
16 were supportive into their adulthood.

17 So, it is certainly a complex issue and
18 there aren't any easy answers, and I think the one
19 thing that we probably should guard most against is
20 trying to be simplistic, although we would all like an
21 easy answer, so that we could say, this is exactly
22 what we should be doing for all gifted students all
23 over the country.

24 Dr. SNYDER. I wonder if I could just tell you

1 a word about the MacArthur Fellow, how he talked when
2 he was 18, before they had a MacArthur Fellowship.
3 His way of going through MIT was very different from
4 most students, that is, he went around and sought out
5 all the senior faculty in areas that he was interested
6 in and sat down with them and talked with them and got
7 to know them, and didn't ask what was on the quiz.
8 He was free of that. He had a kind of genuine
9 curiosity which led people to respond.

10 Well, I will stop at that. I just throw
11 that in.

12 Commissioner HOLTON. Dr. Benson Snyder's
13 talk reminded us that excellence so narrowly defined
14 could select out rather narrow geniuses that might be
15 not sufficiently connected to the human situation.
16 And, of course, as soon as he says that, we remember
17 all kinds of examples from this country, from abroad.
18 After all, one of the most expert, near genius persons
19 in Germany was Admiral Speer and another one was Dr.
20 Goebbels, both having higher degrees from good places,
21 using their genius to very poor purposes. And that
22 we know from the earliest literature we have read.

23 What he reminds us is that we must be
24 really careful that we don't take the easy way out

1 with these gifted by insulating them from the total
2 function, which is to civilize them, not only to
3 educate them and, as Commissioner Reynolds, also, I
4 think, stressed, we need an across-the-board approach,
5 so that you don't just get into the crash program for
6 mathematics, when you really have a much wider
7 potential.

8 This is very, very difficult to conceptualize
9 in terms of a national program or national recommenda-
10 tions, but I do think that we had better think about
11 this very carefully, that we get examples of what
12 does work with those narrow, easy to educate geniuses
13 or near geniuses, or the talented, and what does work
14 to keep them in class instead of opting out because
15 they have so much else to do in another challenge.

16 If you have programs, and I am sure you
17 have collected them around the country, that we
18 should look at, we would like very much to have them
19 in the record.

20 Commissioner BAKER. Very good. We now thank
21 you again most warmly, and have a brief break. We
22 shall resume at 3:45.

23 (Short recess.)
24



