The Board of Education of Montgomery County met in regular session at the Carver Educational Services Center, Rockville, Maryland, on Tuesday, May 14, 1985, at 10:15 a.m.

ROLL CALL

Present: Dr. Robert E. Shoenberg, President
        in the Chair
        Dr. James E. Cronin
        Mrs. Sharon DiFonzo
        Miss Jacquie Duby
        Mr. Blair G. Ewing
        Dr. Jeremiah Floyd
        Mrs. Marilyn J. Praisner
        Mrs. Mary Margaret Slye

Absent: None

Others Present: Dr. Wilmer S. Cody, Superintendent of Schools
                Dr. Harry Pitt, Deputy Superintendent
                Dr. Robert S. Shaffner, Executive Assistant
                Mr. Thomas S. Fess, Parliamentarian
                Mr. John Foubert, Board Member-elect

RESOLUTION NO. 245-85

Re: BOARD OF EDUCATION AGENDA - MAY 14, 1985

On recommendation of the superintendent and on motion of Mrs. Praisner seconded by Mrs. DiFonzo, the following resolution was adopted unanimously:

RESOLVED, That the Board of Education approve its agenda for May 14, 1985.

Re: ANNOUNCEMENT

Dr. Shoenberg welcomed Mr. John Foubert, the newly elected student Board member.

Re: PRESENTATION ON HEAD START MULTICULTURAL PROJECT

Dr. Hiawatha Fountain, associate superintendent, explained that MCPS had received a national grant of $40,000 to work with Asian Head Start students. He said that the students themselves were on their way to the meeting, and he requested that the Board postpone viewing the video tape on the program until the students arrived.

Re: RECOMMENDED COURSES FOR MEETING THE NEW HIGH SCHOOL PRACTICAL ARTS GRADUATION REQUIREMENTS

Dr. Lois Martin, associate superintendent, reported that Dr. Cody had given the Board a memo with three alternatives for implementing the practical arts requirements which the state Board of Education added to the proposed bylaw on graduation requirements. Final action was
scheduled for June 26. Of the three alternatives, she believed that
the second alternative was preferred. This would allow any course
under the sponsorship of the Department of Career and Vocational
Education plus computer science to count toward fulfilling this
graduation requirement. She said that most students were taking
these courses at present.

Dr. Shoenberg asked about the state's rationale for the inclusion of
this requirement in terms of the education of students. Dr. Frank
Carricato, director of career and vocational education, replied that
he had tried to find out. However, the state was not preparing
guidelines until the state Board took final action. State officials
thought that the curriculum committee of the high school study might
deal with the guidelines. He also asked about the purpose of the
requirement and was told state discussion had centered around whether
there was a need to assure that all students had exposure to this
equal of the curriculum equal to the exposure to the fine arts. Dr.
Carricato stated that his staff felt the requirement was reasonable
because the practical arts did offer youngsters the opportunity to
achieve a well-rounded education. The practical arts presented
youngsters opportunities to acquire skills and attitudes that they
did not receive in all other parts of the curriculum. They hoped
that their courses were teaching youngsters functional living in a
very complex society. Students were learning to be producers and to
enter the job market as well as learning about consumer purchasing,
budgeting, etc. He pointed out that in the practical arts students
had an opportunity to apply mathematical and science concepts. Dr.
Carricato explained that the requirement would be cost effective
because so many youngsters were already enrolled in a practical arts
or computer science courses. They might not have to add any teachers
over the next four years to meet this requirement. He felt that this
gave the practical arts a recognition that it was an equal among its
peers in the academics and other parts of the curriculum.

Dr. Shoenberg stated that it was highly unlikely that the curriculum
subcommittee would be reconvened to develop guidelines for the prac-
tical arts. He said it was important that the Board understand what
the rationale would be for including these courses before it took
action. He could personally come up with significant justifications
for this kind of requirement, but he was not very comfortable with
the courses to meet this requirement. He would not favor a broad
range of courses. He recalled that the rationale for the fine arts
requirement was to have, within the curriculum, the requirement to
have courses explore the world that was not in the other graduation
requirements. He could see the practical arts requirement as repre-
senting another way. He would have trouble with a first year typing
course, computer science, or practical living as representing another
way of exploring the world. He said they needed to remember they
were talking about a first-year introductory course for most students
which would not involve building houses or working on automobiles.
He would feel comfortable with courses involving students in a
hands-on experience in doing something with their hands which ended
with the creation of a product.
Dr. Cronin explained that he had a problem with the word "any" in relation to such courses as typing 1A and B. In the fine arts they had added theory, history, and background to some courses. For example, in business education he noted courses such as business management and business law which seemed to be of that broader conceptual framework than shorthand. He had found a flaw in each one of the three alternatives and suggested putting an asterisk on certain courses and steering students toward those as the first level for all students.

Dr. Carricato said that the state might not develop guidelines and they might have to develop local guidelines to select the core of courses. This might cause the shifting of staff because students would shift into the narrower core. The skills and certification of the teachers might not match the shifting of student interest. In the area of vocational education, teachers had more narrowly defined certification. An auto mechanics instructor would not be teaching a more general course. They would not have the broad preparation of a social studies teacher, for example.

Miss Duby indicated that she had supported the fine arts requirement because they had a specific reason for that graduation requirement. She felt that adding a graduation requirement was a major consideration because it affected all students. Now they were given the practical arts requirement, and they were trying to write the rationale for it. She could understand the concern of Board members that it be worthwhile for students to take these courses. On the other hand, if the only rationale was that these courses were worthwhile, she would favor having the broad range of courses and let students have a choice. She would rather give students the full spectrum. She did not think it was fair to students to say that the county board would probably not have adopted this, but since it was there, only these courses would be good for a certain reason and you would have to have that to graduate. She would rather select the first or second alternative.

Mr. Ewing agreed with Miss Duby. On the other hand, it was important for them to be able to agree on some justifications of an educational kind as to the requirement. They had to find a way to state what they believed to be the educational benefits. He pointed out that this was a discussion item and suggested that when they returned to the item they have a listing of the rationale either from the state or the staff. In this way students and parents would have an understanding of the reason for the requirement.

Mrs. Slye asked about an implicit contradiction in saying in the second paragraph on the first page that the state department of education had interpreted the requirement to include business education and cooperative education but probably to exclude career education and then to include career education in Option 2. Dr. Carricato explained that the state had said business education and cooperative education were vocational. It was his understanding that the state was evasive about career education. Dr. Martin added that they had received contradictory information from the state. The state Board
would be asked for clarification on issues such as career education. Dr. Cody explained that part of the problem was that MCPS did not use the same labels as other places. If he had a preference, it would be for the second option. He thought practical arts courses should be linked to some type of work; however, he would want to go beyond manual work. For example, the executive intern program taught a youngster about gainful employment. He would lean toward a definition of courses that were identified and could be related to some type of job or work.

Re: PRESENTATION ON HEAD START MULTICULTURAL PROJECT

Mrs. Eileen Levi, director of Head Start, reported that in 1971 1.5 percent of the children in Head Start were Asian, and in 1985 this figure was 11.5 percent. Dr. Andre Leyva, project coordinator, said that three video tapes were produced, one dealing with working with the children in the classroom in a multicultural setting, the second focused on working with multicultural parents, and the third was a field trip to Wolf Trap.

Board members viewed the first video tape. Dr. Shoenberg asked about the school day for the children, and Mrs. Levi replied that they attended school from 10 to 1 four days a week with the parents coming every other day. Mrs. Praisner asked whether this was the only multicultural Head Start class, and Mrs. Levi explained they also had another multicultural class which was Hispanic. She explained that they hoped the program would continue but the funding was for only one year. On behalf of the Board, Dr. Shoenberg thanked the students for their participation in the video tape.

Re: RECOMMENDED COURSES FOR MEETING THE NEW HIGH SCHOOL PRACTICAL ARTS GRADUATION REQUIREMENTS (CONTINUED)

Dr. Carricato presented Board members with copies of the Goals of Education and called attention to the section on career development. This really was saying that the process of instruction in vocational education promoted an opportunity to develop knowledge and appreciation of skills and abilities. It was his fear that they would narrow this down and lose the opportunity in their industrial arts classes which in the process of instruction prepared students to use the knowledge for future career selection. In homemaking courses they were teaching important skills and attitudes about living in a complex society. He felt that the process of developing skills, knowledge, and attitudes was far more important than work-oriented outcomes.

Dr. Shoenberg commented that he was with Dr. Carricato until he made his last statement, but he did not think the career development rationale fit that last statement. Dr. Martin called attention to "intellectual development" in the Goals and stated that the items listed there were characteristic of career and vocational education. Dr. Shoenberg thought they would link any course to these items. If
they were going to have a specific requirement of practical arts, it needed some special justification of its own, not a generalized justification. He suggested that whichever point of view they decided to take, they needed to have a very clear rationale so they could explain to parents and students why they had this requirement. He indicated that before the looked at any set of courses, they had to have the rationale for the requirement.

Mrs. DiFonzo stated that she was very taken with Miss Duby's remarks. She did not know what the state's justification was, but there was a considerable body of knowledge, skills, and expertise found in the practical arts. However, many students went through the Montgomery County Public Schools without experiencing any course that would introduce them to the other level of practical arts. She did not know that she would have voted for this, but she certainly could make a case for this requirement. She said that she would tend to agree with Miss Duby about the broad spectrum of allowing students to choose.

Mrs. Slye noted that in the memo there were certain assumptions about the class of 1983 being a typical group. However, they had changed the picture for high school students in that they had added an honors program, increased graduation requirements, and were considering a certificate of merit. She thought they needed to give careful consideration to the availability of these courses and how they would fit into the students' timeframe. She agreed with Mrs. DiFonzo that there was a rationale that could be developed for this requirement, and she would hate to have it shunted aside as the last thing one had to take in order to graduate. They had to think about the scheduling that would facilitate this additional requirement.

Dr. Cronin commented that if students took these extra courses as part of the seven-period day the record should show that the Board did not introduce the seven-period day to do a throwaway of basket weaving and other types of courses. Therefore, they might end up seeing a growth of career and vocational education courses. Dr. Pitt added in regard to the seven-period day that the kinds of courses being taken were the more difficult ones.

Mr. Ewing stated that the estimates speaking to resources needed were of some concern because they did not have money in the budget for this course requirement. If the requirement took effect next fall, they would have an increase in enrollment in that area which might be offset by some decreases elsewhere. He asked whether those considerations entered into the estimate of resources needed. Dr. Pitt replied that they had taken a look at this. At this point they did not see the requirement as being a major cost item, but it was impossible to predict exactly what would happen. He pointed out that many students now took at least one course in this area.

Mrs. Praisner said she would agree with Mrs. DiFonzo, Miss Duby, and Mrs. Slye as far as their interpretation of the direction because
they could develop a rationale that was a valid one for the require-
ment. This could be broadly defined under the second proposal, and
she thought they could deal with the semantics of what some school
systems called career education and whether this fit the require-
ments. She was concerned, however, about students seeing this as an
opportunity to take more computer courses and just computers. This
might cause them to be overburdened in the computer area which would
cause a problem with scheduling. Dr. Martin agreed that they would
have to watch this. They had on the drawing board six semester
courses, and two of the courses would be attractive to the student
who wanted to learn just something about computers. Two now being
implemented required more of a commitment from students.

Dr. Carricato reported that they had made a vigorous effort in the
past year to incorporate the use of computer applications in all of
their vocational and practical arts credits. They had trained over
125 teachers in workshops on how to use personal computers, and they
already owned 55 personal computers and planned to buy 30 or 40 more.
Dr. Shoenberg said they needed some kind of rationale for what they
were doing to let the teachers know what it was they expected to
happen in those courses. With the fine arts requirement, they had a
specific rationale and instruction in those courses would be carried
on in a particular way. It might be that they did not want to narrow
the courses that much, but they could not talk about process defin-
ition without talking about a particular process of instruction in
those courses. Mrs. Praisner disagreed and said the message to the
teachers was developed when the courses were approved for a course of
study. Dr. Shoenberg recalled that they had talked about the need to
have some alteration in some arts courses so that they fit that
rationale. In this case they did not have a rationale and were going
to have to develop a rationale in order to have some expectation for
what the courses were as far as what students did and how they were
taught. He suggested there was a need to understand these courses in
a way that was parallel to the way in which they understood the arts
requirement. Dr. Cronin was not sure they needed to do that because
they were going far beyond what seemed to be intended by the state.
In regard to staffing and computer courses, he asked whether they had
a general policy to decide to hire the computer teachers to cover the
demand or to cap the enrollment. Dr. Pitt explained that if a course
was in the program it would be provided for the youngsters. If they
found that thousands more students were asking for this program, they
would set some criteria for getting into the program until they could
adapt to meet the need.

Dr. Floyd remarked that in discussions of this kind they needed to
keep in mind that there was a distinction between developing and
having a set of goals for a course which was available if someone
elected to take it, and a requirement for a student to take the
course. They needed to come to some closure on the latter with a
clear message to both students and parents. The forerunner for that
message could be the state requirement, but that ought not to be all.
They ought to be able to define this and describe it in terms of
benefits for the students.
Miss Duby thought that they would not know whether they needed to look at course content until they decided on their rationale. If they all agreed to a certain rationale for why students should be taking these courses and if there were questions about some courses, then they would have to go back. They might find that the rationale was to have general exposure to the subject matter which might be quite different. If they were bringing students into these courses who might not normally elect to take them, they might have to make some changes accordingly to make the courses relevant for everyone. Mr. Ewing underscored Dr. Floyd's remarks about the distinction between a course objective and a requirement for graduation. Dr. Shoenberg asked whether they could say they had not had a chance to explore the practical arts fully and not require it for the class of 1989 until the last two years of high school. Dr. Martin replied that they had never done this, but the Board could say that this was what they planned and take a later action. She did think that they needed something to get the requirement in place. Dr. Pitt thought it would be a difficult position to put students in. Dr. Shoenberg pointed out that students had already made their selections for next year and very few would have known of this requirement. Dr. Pitt thought that a good number of students were aware of this requirement. Miss Duby asked whether they would give credits to students taking these courses in ninth grade before the Board took action on these courses. Dr. Pitt thought they would have to under those circumstances.

Re: CERTIFICATE OF MERIT

Dr. Cronin moved and Miss Duby seconded the following:

WHEREAS, The Montgomery County Board of Education would like to encourage as many high school students as possible to pursue more challenging programs and to reward students who successfully pursue more challenging programs; and

WHEREAS, The State Board of Education is expected to give final approval on June 26 to the Maryland High School Certificate of Merit to students who successfully complete 17 specified core credits, earn at least 12 credits in advanced courses, and obtain at least a 2.6 cumulative grade-point average on a 4.0 scale; and

WHEREAS, The Certificate of Merit will be awarded beginning with the graduating class of 1989; and

WHEREAS, The High School Certificate of Merit is to be awarded in addition to the High School Diploma; and

WHEREAS, Guidelines concerning the identification of advanced courses have been provided by the State Department of Education; and

WHEREAS, The Montgomery County Board of Education with the advice of the superintendent has the responsibility to effect the requirements for earning the Certificate of Merit; now therefore be it
RESOLVED, That students in the graduating class of 1989 and beyond may earn the Certificate of Merit upon satisfaction of specified requirements in addition to the High School Diploma; and be it further

RESOLVED, That the approved courses to meet the requirement for earning at least 12 credits in advanced courses for the Certificate of Merit be as follows (an asterisk indicates that the course is offered in the MCPS Honors Program):

ART

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<td>Visual Art Center (TP) A 6490</td>
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BUSINESS EDUCATION

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CAREER EDUCATION

Executive High School
Internship Program 2325

COMPUTER SCIENCE

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DANCE

Summer School for the Performing Arts:
Advanced Dance 6917

DRAMA/THEATRE

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<td>Stage Design 6913</td>
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ENGLISH LANGUAGE ARTS

*Intro. to High School Eng.

Narrative/Drama as Lit. 3, 1457
Honors 1471
*Language/Writing Workshop 1
Honors 1470
*Narrative/Drama as Lit. 1
Honors 1472
*Language/Writing Workshop 2
Honors 1477
Essay/Lyric 1, 1454
*Essay/Lyric 1 Honors 1474
Narrative/Drama as Lit. 2, 1453
*Narrative/Drama as Lit. 2,
Honors 1473
Essay/Lyric 2, 1455
*Essay/Lyric 2 Honors 1475

*Narrative/Drama as Lit. 3
Honors 1476
*English AP A 1017
*English AP B 1018
Informative & Argumentative
Speaking 1461
Oral Interpretation and
Media Study 1462
Techniques of Adv. Journal. 1152
Publications Editing, Layout &
Business Management 1153
Advanced Composition A 1130
Advanced Composition B 1135

FOREIGN LANGUAGES

Chinese 2A 1873
French 2A 1612
German 2A 1962
Hebrew 2A 1893
Italian 2A 1983
Japanese 2A 1833
Russian 2A 1853
Spanish 2A 1712
Chinese 2B 1874
French 2B 1622
German 2B 1972
Hebrew 2B 1894
Italian 2B 1984
Japanese 2B 1834
Russian 2B 1854
Spanish 2B 1722
Chinese 3A 1875
*Chinese 3A Honors 1925
French 3A 1613
*French 3A Honors 1633
German 3A 1963
*German 3A Honors 1977
Hebrew 3A 1895
*Hebrew 3A Honors 1935
Italian 3A 1985
*Italian 3A Honors 1989
Japanese 3A 1835
*Japanese 3A Honors 1839
Russian 3A 1855
*Russian 3A Honors 1846
Spanish 3A 1713
*Spanish 3A Honors 1733
Chinese 3B 1876
*Chinese 3B Honors 1926
French 3B 1623

*French 3A Honors 1925
French 3B 1623

German 4A 1964
*German 4A Honors 1978
Hebrew 4A 1897
*Hebrew 4A Honors 1937
Italian 4A 1987
*Italian 4A Honors 1991
Japanese 4A 1837
*Japanese 4A Honors 1841
Russian 4A 1857
*Russian 4A Honors 1848
Spanish 4A 1714
*Spanish 4A Honors 1734
Chinese 4B 1878
*Chinese 4B Honors 1928
French 4B 1624
*French 4B Honors 1644
German 4B 1974
*German 4B Honors 1980
Hebrew 4B 1898
*Hebrew 4B Honors 1938
Italian 4B 1988
*Italian 4B Honors 1992
Japanese 4B 1838
*Japanese 4B Honors 1842
Russian 4B 1858
*Russian 4B Honors 1849
Spanish 4B 1724
*Spanish 4B Honors 1744
French 5A 1615
*French 5A 1615
German 5A 1965
*German 5A 1965
Spanish 5A 1715
*Spanish 5A 1715
French 5B 1625
*French 5B 1625
German 5B 1975
*German 5B 1975
Spanish 5B 1725
*Spanish 5B 1725
French 6A 1616
*French 6A 1616
*French 3B Honors 1643  *German 6A 1966
German 3B 1973  *Spanish 6A 1716
*German 3B Honors 1979  *French 6B 1626
Hebrew 3B 1896  *German 6B 1976
*Hebrew 3B Honors 1936  *Spanish 6B 1726
Italian 3B 1986  Latin 2A 1812
*Italian 3B Honors 1990  Latin 2B 1822
Japanese 3B 1836  Latin 3A 1813
*Japanese 3B Honors 1840  *Latin 3A Honors 1815
Russian 3B 1856  Latin 3B 1823
*Russian 3B Honors 1847  *Latin 3B Honors 1825
Spanish 3B 1723  Latin 4A 1814
*Spanish 3B Honors 1743  *Latin 4A Honors 1816
Chinese 4A 1877  Latin 4B 1824
*Chinese 4A Honors 1927  *Latin 4B Honors 1826
French 4A 1614
*French 4A Honors 1634

HOME ECONOMICS

Child Development Lab. 2A 4754  Child Dev. Intern or Aide A 4764
Child Develop. Lab 2A (DP) 4759  Child Dev. Intern or Aide B 4763
Child Development Lab. 2B 4755  Child Dev. Int.or Aide A(DP)4771
Child Dev. Lab. 2B (DP) 4761  Child Dev. Int.or Aide B(DP)4772

INDUSTRIAL EDUCATION

Design, Illustrating, Drafting Technology Program
Design, Illustrating 2A (DP) 5816 Design, Illustrating 2A (TP) 5106
Design, Illustrating 2B (DP) 5817 Design, Illustrating 2B (TP) 5107
Electronic Technology Program
Electronic Tech. 2A (TP) 5116  Electronic Tech. 2B (TP) 5116
Drawing, Architectural 2A 7048  Drawing, Architectural 3A 7056
Drawing, Architectural 2B 7049  Drawing, Architectural 3B 7057
Drawing, Mechanical 2A 7032  Drawing, Mechanical 3A 7054
Drawing, Mechanical 2B 7033  Drawing, Mechanical 3B 7055
Electricity/Electronics 2A 7052  Electricity/Electronics 3A 7059
Electricity/Electronics 2B 7053  Electricity/Electronics 3B 7060

MATHEMATICS/COMPUTER SCIENCE/SCIENCE MAGNET PROGRAM

Montgomery Blair High School Magnet Mathematics Program
*Magnet Geometry A 3038
*Magnet Geometry B 3039
*Magnet Algebra 2/Trigonometry/Elementary Functions A 3041
*Magnet Algebra 2/Trigonometry/Elementary Functions B 3042
Montgomery Blair High School Magnet Computer Science Program
*Problem Solving—Programming and Applications Software 2952
*Hardware Concepts and Intro. to Programming 2951
Interdisciplinary Seminar—Sequence
*Probability & Statistics for Computer Science/Math/Science 2971
*Research & Experimentation Techniques for Problem Solving 1 2970
Montgomery Blair High School Magnet Science Program
*Advanced Science 1 - Physics 3531
*Advanced Science 2 - Chemistry 3532

MATHEMATICS

Algebra 1A 3111
Algebra 1B 3112
Geometry A 3201
*Geometry A Honors 3203
Geometry B 3202
*Geometry B Honors 3204
Algebra 2A 3301
Algebra 2B 3302
*Algebra 2 with Trigonometry A 3304
*Algebra 2 with Trigonometry B 3305

Trigonometry 3411
Advanced Algebra 3412
Probability and Statistics 3413
*Elementary Functions 3421
*Analytic Geometry 3422
*Calculus A 3491
*Calculus B 3492

MUSIC, CHORAL

Chorus 3A 6731
Chorus 3B 6732
*Summer School for the Performing Arts: Advanced Vocal Music 6919

Chamber Singers A 6741
Chamber Singers B 6742

MUSIC, GENERAL

Music Theory & Comp. 2A 6555
Music Theory & Comp. 2B 6556

MUSIC, INSTRUMENTAL

Concert Band A 6821
Concert Band B 6822
Symphonic Band A 6826
Symphonic Band B 6827
*Summer School for the Performing Arts: Advanced Music 6918

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*Physics 1A Honors 3821
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