ADVANCED PLACEMENT

George Washington Students Excell

(First of a series) By DOROTHY ECCLES **Denver Post Zone Writer**

went to college while still in high school did an about face during the recent holidays and returned to high school while bury, now at Radcliff, took still in college.

mater, George Washington High considerable distinction to the School, to share with each other and their former math teacher, Irwin Hoffman, the results of their participation in the school's Advanced Placement Program for exceptionally able and ambitious students.

The young men were Steve Paavola, 757 Niagara St., California Institute of Technology; Harley Feldman, 796 S. Glencoe St., Illinois Institute of Technology; Jeff Grove, 2231 Glenn Summer, Colorado Springs, Carnegie Tech; Fred Marcus, 115 S. Glencoe St., Massachusetts Institute of Technology; Jay Rothman, 250 S. Grape St., Reed College; James man, "the most selective Rosenberg, 1960 Locust St., Pomona College; and Lynn Heward, 657 S. Grape St., Brigham Young University.

Of 13 GW students who took last spring's Advanced Placement math test, the seven and Danny Rose, 34 S. Dahlia St., a Wesleyan University student, said. "Even my co-workers all received a top grade of 5, have said to me: 'Congratulato become the largest percent- tions, but have you ever thought age to date of any single AP class in the area to earn the dents) have paid?' highest honors rank. Five of the eight scored a perfect 800 on the test.

Only 612 of the approximately 10,000 students who took AP exams last year received 5's. This is about .7 of 1 per cent, or one out of every 20 students. The average AP math examination grade is 2.7, Hoff man said. The GW median score was 4.2.

Each of these youths has been awarded advanced college placement, course credit or both for his high school achievement, as have other GW students who were enrolled last the spectrum," he said. year in one of GW's five other college level courses: history, biology, chemistry, English and Spanish.

either by completing their un- pressure is too much, we get dergraduate work more quickly, them out of there . . . But we or by acquiring a better educa- lost only 2 out of 21 in the first tion in the conventional time six weeks." period. Some will have superior. And indeed, none of the stu- preyed upon their motivations."

Rothman has been given 20 semester hours of credit, the most ever allowed by Reed Col-Seven east Denver youths who lege. He has full sophomore standing.

A girl student, Penny Wood-

The seven visited their alma courses last year and brought sometimes questioned program when she pulled down examination grades of 3 in math and French and 5 in American history and English.

Miss Woodbury also entered college as a sophomore, further proving the capability of high school students to do college work satisfactorily - a premise too often refuted by educators, said Hoffman.

It depends on the college how much credit is given. Some colleges do not participate in the program at all.

"Surprisingly," said Hoffschools are the most generous. But they are extremely anxious to get the most gifted students."

"There is still a great deal of controversy and polemics among faculties and the public about this program," Hoffman about the price they (the stu-

"These kids are ready for this," Hoffman retorts. "The price they would have paid, had it not been for such an opportunity, is boredom, ennui and unrealized potential."

This, in turn, he believes, would be society's loss.

"The public ought to know that the advanced placement program is valuable in itself,' Hoffman declared.

He admitted it's more expensive than the average class because of a lower pupil-teacher summer months, switching to ratio, "but so are remedial courses at the opposite edge of

"These kids really worked hard . . . but they were so happy, there was so much laughter, there really was very little All will be able to save time pressure . . . If we see that the

freshman courses......... dents interviewed said he felt Hoffman said the "hard thing would never have done on my

nearly the full quota of AP



IRWIN HOFFMAN (STANDING) TAUGHT ADVANCED PLACEMENT MATH TO SEVEN BOYS

Left to right are Harley Feldman, Fred Marcus, James Rosenberg, Lynn Howard, Jay Rothman, Steve Paavola and Jeff Grove. They, along with Danny Rose, absent from picture, received a top grade of 5 in last spring's testing at George Washington.

ing to Hoffman's estimates, 'the average kid spent between of competing." It gave him three and five hours a night do- great satisfaction, he said, to ing homework."

ly every other Saturday afternoon for two to three hours to cover what could not be covered in class. At these sessions, lectures on extra-curricular subject matter often were given at all was a real challenge. by the students.

After graduation, some of the group voted to continue the outside meetings through the every Wednesday night from 7 p.m. to midnight.

For these sessions, past graduates and specialists in the mathematics field were invited to lecture.

"You couldn't do this," said Hoffman, "if the kids did not want to.

"The student with average capacity can't be motivated. I from the students."

as a team all together instead observe at the end of the year The group also met voluntari- that "everybody wanted everybody to get an A, not just himself."

In fact, said Hoffman - who has both bachelor's and mas-

With all knowledge about mathematics and science doubling about every 10 years, those who work in these fields have to constantly go back to school.

Thus, after attending a briefing conference at Wesleyan University in Connecticut to prepare for the task, he spent at least two to three more hours per night in further preparation.

His total teaching load was five classes. He received no extra pay for the AP teaching, but he said he could not complain about his "biggest charity" because he "learned quite a bit

"We did all sorts of things I

vious kid."

Student 'Dreams' Solution ter's degrees in mathematics When Computer Fails Test

Irwin Hoffman, advanced placement math teacher at George Washington High School, said a high point of true drama" occurred in his class last year.

The students were overjoyed, he said, when a previously shy classmate, Steve Paavola, decided to "humanize mathematics" by programming a computer questionnaire pairing 800 students for a school dance.

At the last minute, the program would not work, however.

Engineering consultants from the University of Denver were prevailed upon to analyze the situation, but catastrophe remained imminent.

Hoffman went home at midnight on the eve of the dance and took a tranquilizer.

Paavola calmly went home to bed.

At 6:30 a.m., the youth phoned Hoffmann and told his teacher not to worry-he had dreamed the solution!

The "vision" worked. The dance was a success. Paavola was an overnight celebrity. Hoffmann aged.

pressured, even though, accord-to do was to make them work own," he confessed, "if the kids had not been encouraged to bring a more sophisticated solution and proof than the pre-

(Next week: The secret of Hoffman's success.)