



Three Southfield-Lathrup students — the Herman twins, Linda and Janet (left and center) and Harry Fried — work on a physics experiment in Lawrence Institute of Technology's Summer Science Institute.

Young physicists on target

A classroom physics lesson provided the training needed to find a lost contact lens recently at Lawrence Institute of Technology (LIT).

Some of the high school students attending the Summer Science Institute applied the laws of physics on a recent windy day to find the elusive blue-tinted speck of plastic blown from a coed's fingertip.

The students searched on hands and knees after first determining the wind direction and velocity and taking into account the height from which the lens became airborne. One student found the lens in the grass.

Among the 60 students participating in the Summer Science Institute are Eric Schnauffer of Franklin, a Groves High School student; John Barker of Birmingham, a Seaholm student; and Michael Whitley of Birmingham who attends Brother Rice.

Dr. Richard E. Marburger of Birmingham is president of LIT and director of the Summer Science Institute.

"THE SUMMER Science Institute participants gain all kinds of educational dividends," Dean Zaven Margosian of LIT's School of Arts and Sciences said.

"They take back to their individual high schools an expanded awareness of the sciences and mathematics, including a brief exposure to numerical methods for solving problems on the digital computer."

Margosian oversees the summer

program for selected high school students and, as chairman of LIT's department of mathematics, is one of the institute's two regular lecturers in math.

The 60 high school juniors in the summer program were selected from among 100 applicants to attend the six-week program of intensive study in the 10th annual exploration of science and engineering.

Their daily schedule includes three hours of morning lectures by college professors in mathematics/computer science, physics and chemistry. On three days, they attend afternoon laboratory sessions in each of the three disciplines.

BY THE END OF the program, students will have learned the fundamentals of the Fortran computer language and shared hours at LIT's key punch and computer terminals running programs of their own conception.

In physics, they will have completed several experiments designed to help them learn the physics principles leading to the operation of LIT's X-ray diffraction machine.

In chemistry, they will have determined rates of reactions of selected chemicals and performed hydrolysis and titrations. They also will have learned the principles of extraction and been introduced to the fields of chemical kinetics and thermodynamics.

Interspersed in their routine have been special lectures including talks

by Dr. Stephen Fuller, vice-president in charge of the personnel administration and development staff at General Motors; William Coleman, general manager of Eaton Corp.'s Research Center; Wangungler, and the deans of LIT's five schools.

Students also have taken field trips to Eaton and the Bendix research laboratories hybrid computer laboratory.

Competitive softball, chess, ping pong and Frisbee tournaments have been held and opportunities to meet other LIT faculty and staff have been arranged at cookouts and Tiger baseball games.

Science Institute participants this summer represented 35 Detroit-area public and parochial schools, one from Anchor Bay and one from Decatur, Ill. Participants will receive certificates of graduation at the completion of the program.

Applications for the 1979 institute will be available to next year's high school juniors with a B average or better after Feb. 1.

All applicants must be recommended by high school counselors or principals and science teachers. The only fee for the Summer Science Institute is a non-refundable \$25 registration fee payable on student acceptance.

Workshops scheduled

A workshop, Meditation in Motion, will be held at the Alpha Omega Center, 553 N. Woodward, 10 a.m. to 5 p.m. Saturday.

A series of participating leaders will be featured on subjects ranging from bioenergetics, psychosomatics and meditation in movement. The fee for the workshop is \$20.

On Aug. 3 and 10, Bathebeba, English-born psychic and mystic, will give

two Thursday evening workshops on dream analysis and dream diaries.

A conference on alternatives in education is being planned for Aug. 12 with the idea of bringing parents and personnel from alternative schools together.

Michael Gramlich will give a workshop from 10 a.m. to 4 p.m., Aug. 26, to help individuals develop inner awareness. This workshop will include a demonstration of regression into what may be past life experiences, imagination and early life experiences without hypnosis.

On July 31, the Rev. Bill Ley of Rochester will present evidence for life after death. This session begins at 8 p.m. and is open.

The Sunday night artists' sharing will feature photography of Jack Kaufman, Aug. 6. Esther Frank will highlight a poets reading. For information on activities scheduled through August, call 644-1000. There is a donation requested for the programs.

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