

# Physicists Waiting Most Powerful Ever A-Particle Crash

# Group to Ask Duffy Building Use for College

By JOHN VAN BUREN  
Democrat and Chronicle Science Writer

Other Story, Picture, Page 18

A colossal crash of nuclear particles—the most powerful ever devised by man—will be consummated before the end of the year at Stanford University.

What may result from the collision is anyone's guess, physicists say.

Perhaps strange new particles will be created. Perhaps fundamental cornerstones of nuclear theory will be shattered.

The Tenth International Conference on High Energy Physics at the University of Rochester was told yesterday that the collision will have an energy 30 to 40 times greater than any achieved thus far in "atom smashers."

A phenomenon of relativity, it was explained will kick the energy of the Stanford collision to 1,000 billion electron volts (BEV). The most powerful artificial clashes of nuclear particles carried out so far have been in the range of 30 BEV. By comparison, one electron volt is roughly equal to the amount of energy expended by a flashlight battery in forcing one electron through the filament of the bulb.

**Two Group Crash**  
To understand how the great force is to be created in the Stanford collision, one should understand that up to now physicists have used "atom smashers," or accelerators, to whirl a particular variety of nuclear particle at high energies.

When the desired energy is obtained, the beam of particles is then hurled at a stationary target, an assemblage of particles. In a sense, it is like a speeding automobile crashing into a parked vehicle.

Dr. W. K. H. Panofsky and associates at Stanford University now propose to whirl two beams of particles simultaneously and then send them flying into one another, much like a head-on collision of two onspeeding cars.

Each beam, physicists said, will have an energy of 500 million electron volts (MEV). Coming towards one another at this energy, the velocity will approach the speed of light (186,000 miles per second).

At this speed, relativistic phenomena will set in, boosting the resulting collision by a factor of 2,000, or making it roughly the equivalent of 1,000 BEV.

Physicists said the two beams, both composed of electrons, will be generated in Stanford's 1 BEV linear accelerator. This kind of accelerator is like straight line, as differentiated from the more common circular accelerators, such as the UR's 240-MEV cyclotron.

**May Alter Concepts**  
After being energized in the Stanford accelerator tube, one beam will be sent flying in one direction in one ring, the other beam will whirl in the opposite direction in another ring. The herculean crash will be culminated in a target zone between the rings.

Physicists said the resulting impact may well produce undreamed-of particles. It is also possible, they said, that certain basic laws of nuclear physics, such as the quantum theory governing electromagnetism, may break down at such an energy.

Although man up to now has been able to produce energies of about 30 BEV, higher energies are known to exist in nature. Primeval protons, produced somewhere in the cosmos, comprise the raw stuff of cosmic rays which perpetually bombard earth from outer space. These protons have energies of millions of BEV.

The Board of Education's community college committee agreed yesterday to ask City Council to make a formal application for the former Duffy-Powers Building for possible community college use.

Dr. Louis A. Cerulli, school commissioner and committee chairman, stated a desire for cooperation with the city-county subcommittee on the community college if action isn't stalled.

Dr. Cerulli indicated an intention of attending without an invitation this morning's meeting of the county group with Dr. Lawrence L. Jarvie, the state's executive dean for community colleges.

**City Coffer Bare**  
The resolution agreed upon yesterday will be presented to Thursday's meeting of the Board of Education if it can be drafted in time.

"If it serves no other purpose, it will pressure them (the county) into getting a college established as soon as possible," Dr. Cerulli observed about the school board committee's action.

Some doubts about the Board of Education becoming the sponsoring agency for a community college were expressed by others.

Dr. Howard C. Seymour, superintendent of schools, noted that the school board is fiscally dependent upon the city, which doesn't know where its next dollar is coming from because of the constitutional tax ceiling on real estate.

The county, Seymour added, is in a better position to finance the local contribution to a community college because it has no tax limit and its real estate and sales tax base is growing.

**Questions RIT Plan**  
Dr. Cerulli indicated doubts about the advisability of converting Rochester Institute of Technology into a community college, one of the major possibilities the county has been studying.

Even as a gift, RIT might be a "white elephant," he said.

Dr. Cerulli questioned whether the operating cost of RIT would make the one-third contribution required by students so high that the major purpose of low-tuition education would be lost.

No details of how RIT would be converted into a community college have been made public. Under present law, the state would have to match for capital funds the educational value of any buildings and real estate given to a local community college.

**City Letter to S. Asks Building Sale**

City Corporation Counsel David Schoenberg yesterday wrote to the federal government's chief of disposal for this region regarding the city's desire to regain the Duffy-Powers Building.

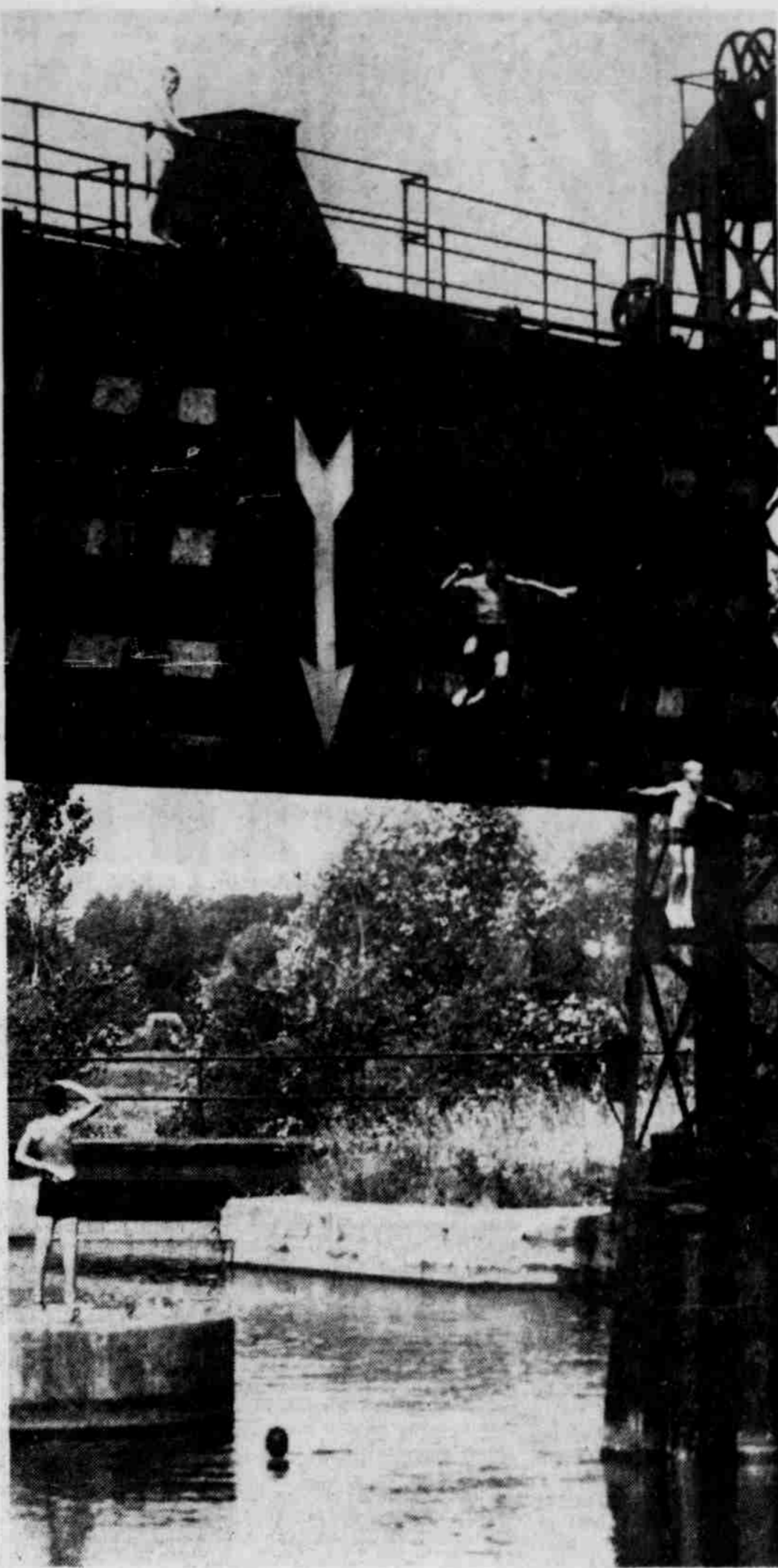
Schoenberg wrote to Albert Wilson of the New York City office of General Services Administration. He wrote a similar letter, expressing the city's desire to reacquire the former Navy Ordnance Division building owned by Eastman Kodak Co., to the Washington office of GSA on Aug. 22.

The city attorney was acting upon direction of City Council and the city manager. He pointed out the city sold the building to the federal government in 1944 for \$100,000, "a small fraction of its full value," and has received no taxes on it since. He wrote that it would be inequitable for the government to convey the structure to anyone else but the city now.

**Perinton GOP To Open Office**

Perinton Republicans plan to establish an election headquarters in Fairport, Mrs. John F. Rodd, newly-installed president of the Republican Club, announced yesterday. The club also plans to have a tea in honor of Representative Judy Weis in October.

Other officers of the club and committee chairmen are: Robert J. Hirsch, vice president; Mrs. John G. Walber, secretary; R. Bruce Carlson, treasurer; Thomas F. Marion and Donald H. Torrens, members; Carl G. Haselmaier, men's activities; Mrs. Charles E. Butler, women's activities; Mrs. Hirsch, social; and William F. Dwyer II, publicity. Advisers to the club are Perinton Executive Committee member Robert H. Wagner and Committeewoman Mrs. Robert C. Stevens.



DOWN AND IN—It's cooler below, as arrow indicates, and that's just where these two high divers are headed. Their diving board was a Barge Canal gate used to control water level just east of Pittsford. The arrow is a navigational aid.

# Agreement Reported Giving Home Option To Negro Physicist

By JACK WILLIAMS

Negro physicist Peter M. Tolliver will get the house he wants, on Brighton's Varinna Drive.

A conference yesterday between Tolliver's attorney and the two men he charged conspired to prevent him from purchasing it ended with an agreement that Tolliver will gain title to the home at the terms he had offered.

Final papers assigning the option on the home to Tolliver are to be signed this afternoon, it was reliably reported. Parties to the agreement are expected to issue statements.

**Agreement Alleged**  
Tolliver, a physicist for the Stromberg-Carlson Division of General Dynamics, had brought suit in connection with his efforts to obtain a home at 42 Varinna Dr.

He charged he had completed a verbal agreement to purchase the home from Mrs. Lois Labatt-Simon, its owner, but that before the deal was consummated two neighbors conspired to outbid him because of his race.

The two men who agreed yesterday to assign to him the option to buy — Arthur W. Schwartz of 30 Varinna and Joseph J. Morton of 35 Varinna.

Announcement of the suit last week brought a chain-reaction of protest meetings and involved the efforts of several intermediaries.

One of these was Republican County chairman Gordon A. Howe, who last week passed on a conciliatory message from Schwartz and Morton to Tolliver's attorney, Martin S. Handelman.

**Letter Reassures**  
Also active were a number of residents of Castlebar Road, several blocks away from Varinna Drive, who wrote an "open letter" to Varinna Drive householders.

The Castlebar Road residents, who have a Negro neighbor, wrote that "the things that you might worry about the most never happened."

Tolliver and his wife, a graduate of the Eastman School of Music, now live with their son at 81 Arch St. In the suit, filed in the County Clerk's Office, they charged: —That they had completed a verbal agreement with Mrs. Labatt-Simon on the night of Aug. 3 to buy the home for \$23,000 and that she had planned to sign papers on the matter after final consultation with her attorney the next day.

—That on Aug. 4 the Tollivers were informed that Schwartz and Morton, offering \$23,500, had been given an option to buy the home.

—And that Schwartz and Morton "did solicit" funds from other neighbors to buy the house and thus block the sale to the Tollivers.

Since the suit was filed, it has been reported that five Varinna Drive residents—including Schwartz and Morton—had contributed toward the down-payment. All but the two defendants disassociated themselves from the transaction last week.

**Man, 74, Attacked By Two Muggers**

Mariano Montrose, 74, of 2 Middle Pl., told police yesterday two muggers knocked him down in front of his home about 1 a.m. and stole \$1 and a wrist watch. He was treated at Genesee Hospital for a head injury. The victim reported that he slashed at one of his assailants with a penknife.

# McCurdy Lets Contract For Downtown Addition

McCurdy & Co., Inc., has awarded a contract to construct an addition to its downtown store, increasing its size more than a third.

The addition, on the southeast end of the store, will front on the mall of Midtown Plaza which is being built by the owners of McCurdy's and B. Forman Co.

Gilbert J. C. McCurdy, president, said the contract was awarded to Robert F. Hyland & Sons, Inc., whose president is M. Stuart Hyland.

Cost was not disclosed. McCurdy said it is hoped demolition can begin next week on a two-story building which covers part of the site and previously housed McCurdy's appliance division. Completion is expected by the middle of next year.

The addition, McCurdy said, will have a sub-basement, a basement and six stories above ground. The present store has six stories above ground also, plus a basement and in some sections a sub-basement.

Approximately 115,000 square feet will be added to the store's present 300,000 square feet by the addition, McCurdy explained.

When the job is finished, he explained, McCurdy's will have 211 feet of frontage on the main mall of Midtown Plaza.

The addition will be built in the corner of the present store which is just south of the intersection of Elm and Euclid Streets. Elm runs south from Main Street along the easterly side of the present store.

# Echo I Satellite Changes Brightness for 3 Reasons

If the Echo I satellite seems to grow brighter or dimmer as you look at it—this isn't unusual, the National Aeronautics and Space Administration said yesterday.

According to the Associated Press, the NASA gave three reasons why the communications satellite reflects more light at one time than another:

1. On the horizon it looks dimmer than it does overhead, or nearly overhead.

2. The satellite is passing through periods of total or partial darkness.

3. Clouds and atmospheric variations may make the intensity of the reflected sunlight differ at short intervals.

The agency explained that the satellite is still in the shape of a sphere and thus cannot tumble—although it does roll. However, a spokesman said, when Echo I does lose its shape (as expected eventually), it probably will tumble through space.

Weather permitting, the balloon will be visible four times this evening and early tomorrow morning in the Rochester area.

Here is the schedule, provided by George R. Schindler of the Rochester Moonwatch Team:

8:42 p.m. — North of the city, 75 degrees above the horizon and traveling northeast.

10:48 p.m. — North of the city, 74 degrees above the horizon and traveling southeast.

12:54 a.m. — South of the city, 59 degrees above the horizon and traveling southeast.

2:06 a.m. — South of the city, 4 degrees above the horizon and traveling southeast.

**GOP Appoints Campaign Aide**

John Tarbox of Brighton yesterday was named chairman of the speakers' division of the Republican campaign organization.

He will be assisted by David Boehm of Brighton, Arthur Richardson, 19th Ward and Mrs. Harriett Ott, 21st Ward. The appointments were made by County Republican Chairman Gordon A. Howe and City Councilman Frank Horton, the party's campaign manager. The division will supply speakers on request of Republican and non-political groups.

# 89 Heat, .54 Humidity Give City Muggy Day

The weatherman called yesterday "muggy." Perhaps you called it something else, if you were working in an unair-conditioned office or factory or if caught in a traffic jam on the way home.

Temperatures around town and at Ontario Beach Park registered over 100 degrees. Officially the weatherman said the high hit only 89 degrees at 4 p.m. However, this combined with a humidity of 54 per cent and resulted in a day on which everyone should have been uncomfortable.

If you must compare figures, to see how hot you could have been—yesterday's high set no record for the day, which was 94 in 1953. However, we have had only one other hotter day this "summer"—July 26, when it was 90. The next lowest temperature—88—was reduced only twice; on Aug. 7 and 28.

Many thousands were lucky enough to be able to escape to their version of the "ole swimmin' hole." In areas where records are kept, more than 12,000 were counted at Ontario Beach; 4,500 at Durand; 6,000 at Mendon Ponds; 1,500 at Webster; 1,500 at Seneca Park pool; 4,200 at Genesee Valley Park pool and 2,000 at Hamlin Beach. Several attendance records were broken or nearly broken.

**Cave-In Bruises Worker On Gates Sewer Project**

A cave-in at a p.m. yesterday afternoon, trapped a man in dirt up to his chest.

Freed in a matter of minutes by fellow workers, Castile Hobbins, 35, of 552 Tremont St., escaped with only a bruised left ankle. He was treated at St. Mary's Hospital.

Gates Patrolman George Mason said the mishap occurred in Howard Road near Buffalo Road where an out-of-state construction firm is installing sewer laterals.

Hobbins was working in a 10 to 12 foot ditch when the cave-in occurred, according to Mason and Gates Police Chief William Stauber. A Gates-Chili Fire Department rescuer crew was dispatched to the scene but was not needed.

**WOMAN FOUND DEAD**

Gladys M. Carr, 54, of 24 Britton Rd., was found dead in a car parked near her home about 1 p.m. yesterday. Police said a hose hooked to the exhaust pipe was found leading into the vehicle. A certificate will be issued today.

New for FALL '60

from

**jaeger**

Imported

**Shetland**

Sweaters

**\$14.95**

The headline tells all you need know about these famous sweaters. Made in England by Jaeger, of the finest soft Shetland wool, and imported by McFarlin's. Always a campus favorite. Crew neck in Lt. green, charcoal blue, charcoal brown, charcoal, lt. gray, natural.

Furnishings—Street Floor

Shop Tonite till 9 Open All Day Saturday

Use Our 3-Pay 90-Day Charge or 6 Month Purchase Plan

**McFARLIN'S**

OF ROCHESTER

Baker 5-2720

COMPLETELY AIR CONDITIONED