

New Atom-Smasher May Be Power Key

By FRANK CAREY
 WASHINGTON (AP)—A new atom smasher proposed by the United States government may hold the key to whether science can ultimately hope to tap a hypothetical source of energy vastly more powerful than that loosed by hydrogen bombs.

Such a titanic force could come from still-undiscovered—but theorized—sub-nuclear particles called "quarks."

Some physicists believe that such particles exist within the nuclei, or hearts, of atoms and that they constitute the long-sought basic building stones of all matter in the universe.

Indeed, these physicists say, the hypothetical quarks may even be the keystones to the basic forces of nature, such as gravity.

They long have said that the possible existence of this particle is a prime reason why the U.S. should build its proposed \$375,000,000 atom smasher. Weston, Ill., was selected Friday as site of the device.

energy would for an indefinite time offer science its most powerful tool for tapping the secrets of matter.

Only a generation ago, the atomic nucleus was thought to consist of only two kinds of particles — neutrons and protons. But the atom smashers now have uncovered a brigade of about 100 additional ones. Scientists figure there will be others in what they call the "nuclear jungle."

The atom smasher is designed to explore the fundamental forces of matter by "accelerating" sub-nuclear "bullets" — such as protons and electrons — to speeds approaching to velocity of light (186,000 miles a second) and imparting tremendous energies to them.

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The Arctic tern flies from the Arctic Circle to Antarctica and back every year, a round trip of up to 22,000 miles.

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WOULD TAP SECRETS
 The Atomic Energy Commission has neither confirmed nor denied that its huge machine might settle once and for all whether quarks exist. But its scientists have indicated repeatedly that a machine of such

Sukarno Challenges Opponents

By T. JEFF WILLIAMS

JAKARTA (AP) — Shirtless and defiant, Indonesia's President Sukarno has appealed to a roaring crowd of young supporters to fight for his goals. He thus threw a challenge to his opponents that could shatter the fragile peace of this island country.

Sukarno's impassioned address to the youth wing of the Indonesian Nationalist party reflected a struggle for control of the nation of 110,000,000 which has been going on since Oct. 1, 1965, when a Communist-backed coup attempt was thwarted by the Indonesian Army.

Although some of Sukarno's closest and most powerful aides have been eliminated from the scene, the president's speech indicated he is far from abandoning a drive for a return to his "guided democracy" which has been repudiated by the present military-supported government.



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JOINS IATA
 MONTREAL (CP) — British West Indian Airways is joining the International Air Transport Association as an active member, bringing the group's membership to 101 airlines. IATA announced Thursday. British West Indian Airways, based in Port of Spain, Trinidad, operates services from there to the United States and West Indies points.

also services from there to the United States and West Indies points.

PREFERS THE HEIGHTS

The vicuña of South America, an animal similar to the llama, thrives between 12,000 and 16,000 feet above sea level.



JOY TO ALL!

Warm greetings to the most wonderful people in the world... our patrons!

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CONVICTS TREAT ORPHANS

Convicts at the Leclerc medium-security prison in the Montreal suburb of Laval held a Christmas party in the prison gymnasium for they tots between the ages of two and five from the St. Francois Orphanage.

Assise Orphanage Santa was a bank robber who has served 12 years of his 20-year sentence. The 400 convicts each donated a week's pay to buy \$600 worth of presents. (CP Wirephoto)

Vancouver Tax Prediction Described As Coincidence

VANCOUVER (CP)—A tax prediction by the president of the Vancouver Stock Exchange was an unfortunate coincidence, a spokesman for the president said recently after the federal government announced an increase in sales tax.

John Van Laven predicted in an interview that the federal sales tax and income tax each would be increased by one per cent. He said "it was only a guess," but "I had a little help in arriving at that conclusion."

A spokesman for Mr. Van Laven said the prediction was an "unfortunate coincidence in which he turned out to be 50 per cent correct." He said it is wrong to read anything into it. The exchange president was not available for comment.

MEY SHARP
 Mr. Van Laven met last week in Vancouver with Finance Minister Mitchell Sharp, who was here on a one-day speaking visit.

Mr. Sharp announced in the Commons Monday night that the federal sales tax will be increased to 12 per cent from 11 per cent Jan. 1 to provide an extra \$155,000,000 toward higher pension payments. The old-age security tax was increased for people in higher income brackets.

Mr. Van Laven made his prediction in an interview with Ab Kent, business editor of the Victoria Times, while Mr. Kent was working on a story dealing with the Vancouver exchange.

The Times published the story Monday.

The exchange president and Mr. Sharp were together about two or three hours last week at an unpublished exchange reception during Mr. Sharp's visit.

The spokesman said the two men were in company with others.

Mr. Van Laven said in his prediction he did not think the federal government wanted to increase the 11 per cent sales tax beyond 12 per cent. A one-per-cent increase, he said would produce about \$185,000,000.

He said a one-per-cent hike in income tax and the increase in sales tax would raise about \$5 per cent of an estimated \$275,000,000 required for new old-age pension payments.

CHALLENGE TO BREED

BURNABY, B.C. (CP)—Students at Simon Fraser University have challenged colleges throughout Canada to compete in blood donations. They have offered a trophy to the university which annually has the highest percentage of students giving blood to the Red Cross.

H. BENNETT CARR

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HAPPY NEW YEAR

The members of your government of Prince Edward Island and all of the people working in the service of your government join in offering best wishes for a Merry Christmas and a happy and prosperous New Year to all.

The celebration of the birthday of Jesus Christ offers an opportunity for spiritual renewal and an awareness of our responsibilities to others around us.

The advent of 1967 lends a particular excitement to this season of the New Year since we are on the eve of the achievement of many Centennial plans and occasions. The concept of the human community will be paramount over the next twelve months, and the visits and celebrations should lead us to a new awareness of our neighbors as fellow citizens united with us in furthering the progress and prosperity of our province and our country.



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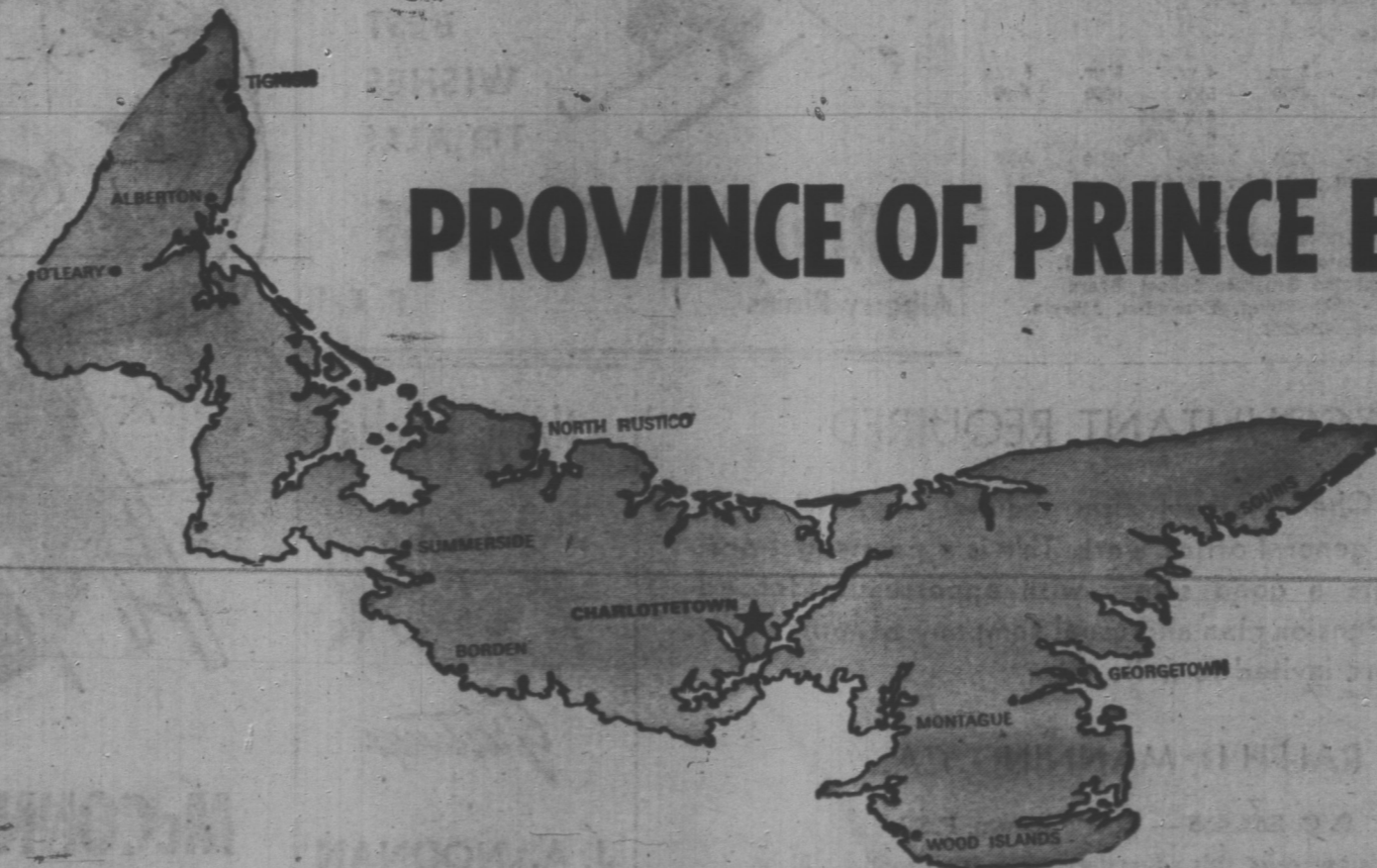
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Premier