





Asian Nuclear Research

Conceived to implement President Eisenhower's "Atoms for Peace" plan, the proposed center will serve as a training ground for Asian countries in harmessing atomic energy for research in agriculture, medicine and industry. Operation of the center stands to benefit the underdeveloped countries in this part of the world. To quote a Manila daily editorial. "The operation of the center will contribute not only to the knowledge but (also) to the immediate economic progress of this part Asia."

Among the countries intended to be served by the proposed center are: Pakistan, Nepal, Cevlon, India, Burma, Thailand, Indonesia, South Vietnam, Cambodia, Laos, Malaya, British North Borneo, Japan, and the

Implementation for the establishment of the proposed center requires coordination of the decisions of the State Department with the actions taken by the International Cooperation Administration on advice of the Atomic Energy Commission.

project will be financed by the Unit- the ideal site for the project. The

HE Philippines was recently ed States government, \$30 million chosen, from among South is estimated cost to "spark plug" an and Southeast Asian coun- extensive atom research program in tries to be the site for the Southeast Asia for the first

> With the choice of the Philippines as site for the Asian Nuclear Research Center, experts on atomic energy who conducted an "on the snot" survey of the area have allayed fears of some neonle who would take the center as a "center of destruction."

> > 'Center in the Arc'

In a speech before the Consultative Committee for Economic Development in South and Southeast Asia. in Singapore, last October 20, 1955, Director Hollister of International Cooperation proposed that the regional research center for atomic energy matters be established some place in the arc of free Asia.

Following the developments leading to the survey of Southeast Asia for a suitable site for the proposed atomic center, each of the Colombo Plan countries in the area - with the exception of India which has its own program of research - vied for the honor of being selected as the site for the Asian Nuclear Research Center

The final selection of the Philippines as site for the center goes to It is anticipated that, the entire show that the Philippines is just

The choice of the Philippines as site for the Asian Nuclear Research Center stands to benefit the underdeveloped Asian countries in harnessing atomic energy for research in agriculture, medicine and industry

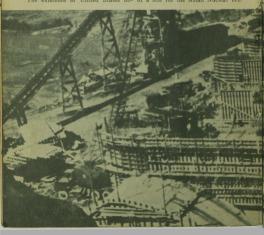
deed, the center in the arc.

Ike Okays PI for Site Herbert Hoover, Jr., Assistant Sec. Asian Nuclear Research Center, retary of State, that the Philippines proposed center.

The existence of United States mi- of a site for the Asian Nuclear cen-

country can boost of the fact that it litary and naval bases in the isis still the "freest of the free" in lands and the over-all peaceful conthis part of free Asia. It is, in-ditions obtaining in the islands, inno small measure, may be attributed to have spurred the department of Early in 1956, President Eisenho- state officials in urging the approvwer approved the recommendation of all of the Philippines as site for the Designate Atom Experts

be designated as the site for the Under the Joint National Economic Council-ICA Interdepartmental Hoover toured Southeast Asian Committee on Atomic Energy, precountries in the latter part of 1955, parations were made for the survey



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leading atomic experts, namely: Dr. Marvin Fox, senior physicist and chairman of the Reactor Department of Brookhaven National Laboratories: Dr. Harold Smith senior geneticist, pology, and program director, for Brookhaven National Laboratories; training; Ralph J. Strom, division of

ter by a team of atomic scientists political science department University of Kentucky, and expert in In-The Brookhaven National Labora- ternational Organization: Dr Harold tories was designated to constitute B. Tukey, agricultural experiment a technical panel to conduct an "on expert of New York State and Corthe spot" survey for the proposed nell University; Dr. Victor P. Bon. center. The team consists of ten M.D. with Brookhaven National La. boratories and expert on radiobiology and ionizing mamals.

> Dr. Fred C. Vonderlage, director of Oak Ridge school of reactor tech-





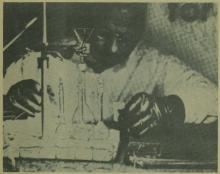
long sea flight to Mindanao precluded the consideration of the Maria Cristina power site in Iligan, Lango. Photo above shows a section of the aigantic Maria Cristina hydro-electric power project.

gy Commission of the United States: tions for the arrival of the team. Horace H. Smith, diplomatic and who were on the way from Europe. consular officer: Solomon H. Chaf- the Middle East and South Asia. kin, international economist Interna- The projected survey spurred the Corporation of America, and Atomic the success of the mission. Industrial Development expert.

Vanguard of Team

tional Cooperation Administration, Interdepartmental Committee on Atoand in-charge of projects under mic Energy headed by Caesar H. La-Asian Economic Development Fund: nuza, and the ICA Manila office un-John F. Hogerton, project manager der Col. Harry A. Brenn, to coorof Engineering Division of Vitro dinate their preparations to ensure

A program of conferences and technical seminar was prepared by Hogerton and Chafkin, formed the Thomas W. Alder, control officer of vanguard of the team. The two ex- the Asian Nuclear Center mission. perts arrived on April 1956 to con. The itinerary for the survey flight fer with Philippine officials and to be made by the Brookhaven team ICA, and to make advanced prepara- was arranged by Pedro G. Afable



Already nuclear energy is successfully performing many useful jobs in basic research, med icine, agriculture, and industry. Photo shows a scientist learning new uses of radioisotopes.

Coordination work with Commander 23. They were met at the Manila M. E. Calinawan, assistant appointments secretary at Malacanang and of ICA and FAO officials. Early Lt. Col. Emilio Borromeo, senior mi- the next morning, the 24th, the team litary aide to President Magsaysay was undertaken.

At this point it would not be amiss to say that in spite of the short time given to all the participating offices to put together and secure approval of an integrated program of activities for the survey, there was perfect coordination and every activity came off as scheduled.

Other Experts Arrive The other Brookhaven team mem-

of the NEC Planning division. And bers arrived on the evening of May International Airport by Col. Brenn made a courtesy call on President Magsaysay at Malacañang.

> A hectic round of activities followed later. An important conference and briefing attended by both the Brookhaven team and the Interdepartmental Committee on Atomic Energy members took place at the ICA Building at Dewey Boulevard at 10 o'clock in the morning of May



and better crops and finer livestock.

Site Requirements

approximate area of 500 acres (approximately 200 hectares).

During the conference. Octavio Maloles of the Foreign Affairs office inquired about the possibility of radiation and/or contamination of the surrounding area, especially the water supply near the projected center. Dr. Fox. to whom the ques-

tion was directed, emphatically an-Prime considerations for the site swered that there was absolutely no to be selected was the requirements danger of a destructive explosion, for an adequate water supply He assured all the Interdepartmental (150,000 gallons per day), and an Committee members that the water contamination, if any, would be comparable to an ordinary industrial plant processing non-atomic material.

Sites Considered

Using a large map of the Philippines for reference, the conferees discussed possible sites for the proposed center. Three probable sites were considered: Baguio City, near



Ambuklao power site: Quezon City. near the Novaliches and Ino watersheds; and the Caliraya power site, bordering Laguna de Bay. Final selection of the best site was held in Rodriguez, formerly head of the NEC the terrain in Central Luzon. pending the results of the Survey the following day. The

the Larap Mines, Daet, Camarines Sur, militated against its being included as a nossible site

Accessibility to Manila was a big factor in the final selection for the Center, since foreign scientists from the member countries of the Colombo Plan would be better accomodated in the city. Twenty conferees signed up for the survey flight, with most of the Brookhaven Team and their opposite numbers in the Interdepartmental Committee signifying their wishes and making helpful suggestions for the route to be taken.

On the Spot Survey

The actual flight started at 0700 hours on 26 May 1956 from the Nichols Air Base where the PAF plane took off. The modernistic skyline of Manila, impressed the visitors, some of whom were visiting the Philippines for the first time. A few passes were made over the UP Diliman site in Quezon City and the nearby watershed in Novaliches and Mariking hills. Mr. Jose Jovellanos of the National Power Cornoration. pointed out the steel towers for the NPC power line leading to Ambuklao, which almost parallels the Manila North Road. With the line of towers acting as our "beam," the PAF plane flew northward, maintaining an altitude of 1,000 feet to abeyance on motion of Mr. Filemon enable the Team members to observe

Cutting to the west over Lingayen flight in a PAF plane scheduled for Gulf, the plane followed the Ilocos long sea Coast up to the Amburavan River. flight to Mindanao precluded the Taking an easterly heading to take consideration of the Maria Cristina advantage of the natural pass into Power Site in Iligan, Lango. The the Cordillera range of Mountain difficulty of land transportation to Province, the survey team

the headwaters feeding hers were served an early lunch at at a distance, the Ambuklao tesy of Col. Brenn Dam was very impressive. One of The return flight back to Manila

the Ambuklao watershed. Even the Officer's Mess through the cour-

the visiting scientists compared it to was made in the afternoon before Boulder Dam, and the enlarging bo- the fog from Sto. Tomas Peak could dy of impounded water as reminis- settle on the Loakan Airport. Flycent of Lake Mead. Landing at the ing southward along the Kennon Loakan Airport, after making seve- Road Canvon, the plane took the alral circuits of Baguio City and Camp ternate route of the NPC Power Line John Hay, the Survey party had a through Nueva Ecija, Bulacan and chance to "whiff" the cool Raguio Rizal. Veering southeast to the breeze. USAF vehicles were wait. Sierra Madre Mountains the survey ing at the airfield to conduct the party flew over the Ipo Dam and visitors on a tour of Baguio and neighboring Montalban Dam. Con-Camp John Hay, where team mem- tinuing over Antipolo and Binango-

Operation of the Nuclear Research Center in harnessing atomic energy will benefit the underdeveloped Asian countries. Its equivalent energy is sufficient to provide complete night-time electrical illumination for all of the rooms in a Filipino home shown in photo.





John Hay, the survey party had a chance to "whiff" the cool Baguio breeze. Author may be seen fourth from right.

nan, the plane followed the northern coast of Laguna de Bay to Calirava Power site, thus completing the aerial survey of all power and water sites in Northern and Central Lu-

zon.

A pass over Los Baños Agricultural College and Tagaytay Ridge rounded out the planned tour for the Brookhaven Team, who expressed complete satisfaction upon landing back at Nichols Air Base.

The PAF had completed another important Survey mission successfully without accident.

Most Promising Sites

The arrival of the Architect-Engineer members of the Brookhaven Team - Edson Churchill Lee and Colonel Lyle Rosenberg, USA (Ret). started the detailed consideration of the possible sites that had been surveyed. This resulted in a decision to go on ground reconnaissance of the UP Diliman and the La Mesa-Novaliches areas as the most promising prospective sites. Before a road and field survey was undertaken. UP and NWSA authorities were consulted, and detailed contour maps



facilities at Balara and artesian well of a PAF Helicopter.

Diliman and Novaliches sites. All accompanied by this author took aerthe opportunity to observe closely ial photographs of UP Diliman and the terrain features which would en- Novaliches. able them to select the best locations for the Research Center and subsi- UP Site for Center diary structures was given them. The culmination of the 10-day sur-After the thorough ground survey, vey of the Brookhaven Team was it was decided to supplement the the round-up conference with Pres-

were obtained from Office of the earlier plane flight with a lower le-Chief Engineer, AFP. The water vel aerial reconnaissance by means

possibilities were also looked into. Final survey of the approved site was undertaken by the Architect-Lee and Col. Rosenberg conducted Engineer Team, in a PAF Helicopseveral reconnaissance trips over ter. Engineers Lee and Rosenberg



to Pres Magaysay the different findings and observations of the Brookhaven team Col. Aleiandre (third from right), ligison officer for the projected survey, participated extensively in the successful accomplishment of the mission

ident Magsaysay, held at Malaca of UP Diliman area as site for the nang on 2 June 1956 at 10 o'clock Asian Nuclear Center. President in the morning. Dr. Marvin Fox Magsaysay approved the recommengave a verbal report covering the dation of the visiting experts on results of the survey, and the dif- atomic energy.

the Brookhaven team.

Brookhaven team's recommendation world.

ferent findings and observations of Thus culminated the difficult task of selecting the seat for one of the The President asked for a fill-in most important projects ever to be about the latest developments in Nu- undertaken in this country, and in clear Research, especially in the whole Asia for that matter. With fields of medicine and agriculture the accomplishment of the team's which are the two activities the mission comes another boon to peace Philippines is vitally interested in. -a rededication to constructive ef-With the presentation by the forts for peoples throughout the