center for Physics in Trieste Tries to Check Brain Drain From 'Third World'

By WALTER SULLIVAN Special to The New York Times

TRIESTE, Italy - A remarkable institution where highly developed countries can rub elbows with their peers - but Salam says. are then required to return home - has been created here centre, he said recently, "the on a wooded height overlook-groups of which they formed ing the Adriatic Sea.

tre for Theoretical Physics, good libraries, there was no which flies the United Nations good flag and is headed by Dr. Ad-groups abroad. bus Salam of Pakistan, whose "There was no criticism of own frustrating career inspired what they were doing. New him to bring the institute into ideas reached them too slowbeing.

tor, Dr. Paolo Budini, puts it, doing before they left." "in a corner of Italy but in the center of Europe," it has "were isolated - and isolation become a meeting ground for in theoretical physics as in physicists from East and West, most fields of intellectual work as well as from the "third is death." world" of developing countries.

It has also drawn, as lecturers, such heros of the "golden age" of physics, early in this century, as Drs. Werner Heisenberg, P. A. M. Dirac, Eugene P. Wigner and Hans A. Bethe. Its early sponsors included such figures as Drs. Nils Bohr and J. Robert Oppenheimer, both now deceased. home.

Branch of Atomic Agency

tions. A prime mission of the years. developing countires.

tries, he points out, tend to go home institutions. This, Dr. have worked here in recent into mathematics and theore- Salam hopes, will enable such months. They came from 15 tical physics because their scientists to inspire a more countries, including Brazil, countries lack the facilities for rapid scientific evolution in Kenya, Nigeria, Peru, the Sudan. other kinds of research. Such their native lands. talented men sooner or later Dr. Salam passed his univer-Republic. are drawn to great centers of sity entrance examinations in Such visitors mingle with

learning in the West or in the Soviet Union, Some never return to their native lands. Others, after reaching the first talented physicists from under-rank, return home but find themselves utterly isolated, Dr.

Before establishment of the a part were too small to form It is the International Cen- a critical mass; there were no communication

ly. Their work fell back within Situated, as its deputy directhe grooves of what they were

These men, he continued,

This was Dr. Salam's own experience when, after working at Cambridge University in England and at the Institute Pakistan at the age of 14 with for Advanced Study at Princeton, N. J., he returned to Lahore University, although he

The centre was formed in last year moved into a \$1.5- when he explodes with laugh-1964 as a branch of the In-million building erected for it ter. ternational Atomic Energy by the city of Trieste, "associ-Agency, whose headquarters ates" from developing counare in Vienna and whose mem-tries and other areas are enbership now exceeds 100 na- rolled for from three to five the centre here and the Im-

British spelling of center), ac-year they work here, renew-he holds a professorship. cording to Dr. Salam, is to ing thier contacts with the The diversity of nations from check the "brain drain" from main stream of physics. For the which talent has been drawn remaining nine months of the to this centre is illustrated by Men of genius in such coun-year they must return to their the list of 33 associates who



Dr. Abdus Salam

the highest grades on record there. He has since been in the now credits Pakistan with hav-front line of several advances ing greatly improved the op-in physics theory. Today he portunities for physicists at confronts an interviewer with an impressive black mustache At the centre here, which and an intent mien - except

Diversity of Nations

His time is divided between perial College of Science and Centre (whose title uses the For three months of each Technology in London, where

Uganda and the United Arab!

theorists from the United hope that long-established uni- Conference on Science and States, the Soviet Union and versities in the United States, World Affairs, attended by leadother advanced countries. There Britain and other countries will ing scientists from East and are symposiums, international begin to provide associateships West at Sochi in the Soviet conferences and courses in all fields of physics. Those scheduled for 1970 deal with uch subjects as condensed matter, plasma physics and high-energy physics.

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Italy has supported the centre with an annual contribution of \$250,000. The International Atomic Energy Agency has also contributed. Starting next year it will provide \$150,-000, with the United Nations Educational, Scientific and Cultural Organization adding an equal sum.

The Ford Foundation gave

\$200,000 two years ago.

eral schemes for upgrading more advanced countries. science in developing coun- This proposal was spelled of Rochester, "seems favor-

lecture comparable to those at the centre here.

'World University'

the idea of a "world university" built on a confederation of advanced research institutes like his own. Still another scheme envisions an international science foundation that would depend on funds from would provide grants to researchers in developing countries.

Such grants would encourage them to stay at home and work on scientific problems of special concern to such nations — problems that often The centre is but one of sev- are of little interest to the

tries. Dr. Salam and others out at last month's Pugwash able."

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Union, Dr. Robert E. Marshak, physicist at the University of Rochester and an early spon-Dr. Salam also is promoting sor of the Trieste centre. has formed a committee within the American Academy of Arts and Sciences to press the idea.

> The proposed foundation private foundation, industries and governments of wealthier countries like the United States. Dr. Marshak has discussed the plan with representatives from the Departments of State and Commerce as well as other United States agencies.

The reaction, according to a press release by the University,