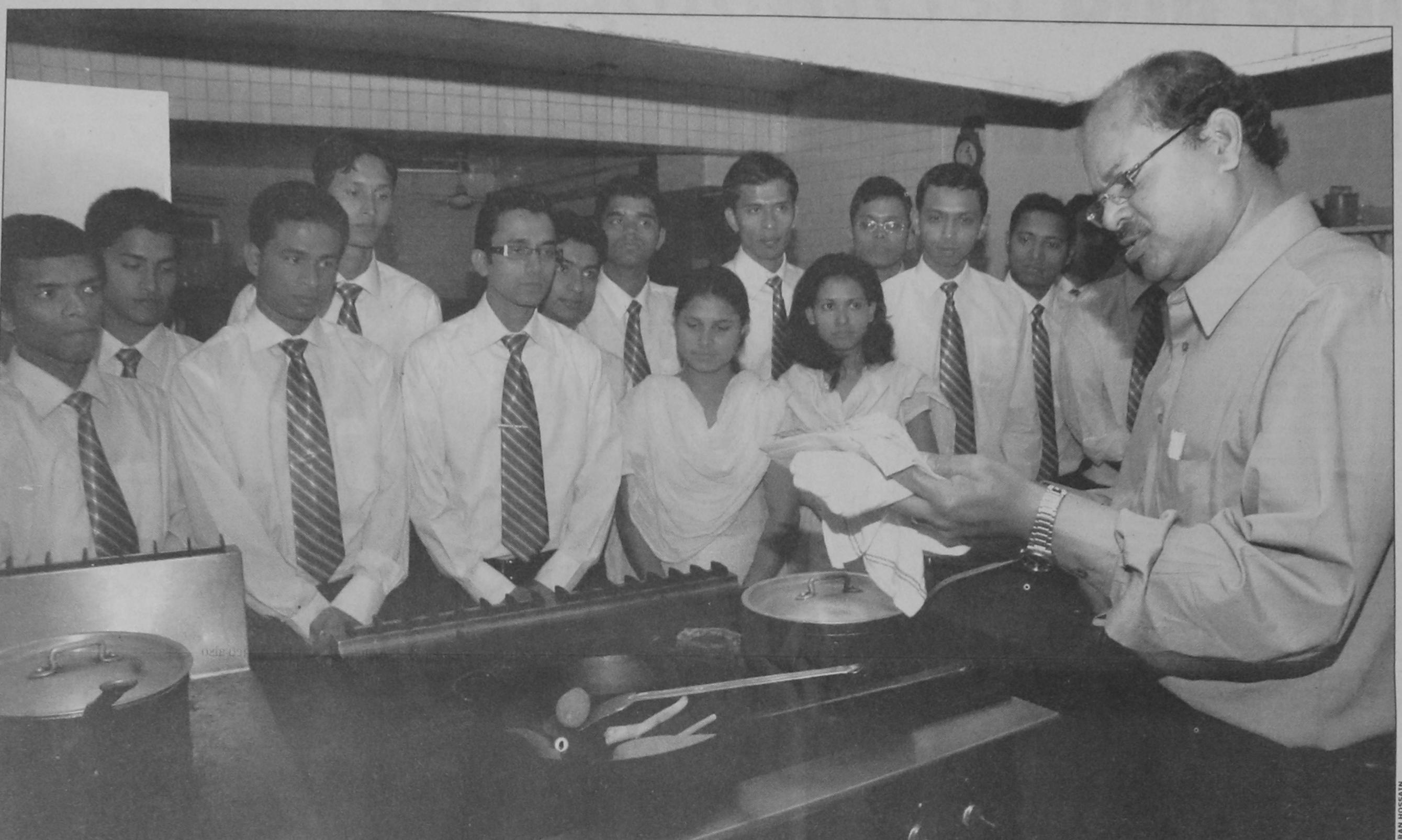
## Anniversary Special

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## ...national development



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and similar bodies can extend their support by increasing scholarships; the private sector can also help, either as a service to the country or through collaborative projects between research groups and industry. The Bangladesh Atomic Energy Commission and the Bangladesh Council of Scientific and Industrial Research have played important roles in Research and Development for decades. There is room and need for further improvement. It is very important, in the various research groups, in addition to providing the appropriate facilities, to maintain a relaxed and congenial research environment, in which there is a spirit of cooperation for pursuing truth and knowledge and suitable applications to benefit society, rather than competition for personal advancement.

At the Second General Conference of the Third World Academy of Sciences held in Beijing, China in 1987, the late Prof. Abdus Salam made the following remarks:

"I had the privilege of meeting Chairman Deng last year, when I came to China for preparations of this meeting. I was deeply impressed by his insistence on science transfer in addition to technology transfer. He remarked that the science of today is the technology of tomorrow, and that China and the Third World must build tomorrow's science for tomorrow's technology. In this respect, we of the Third World Academy of Sciences follow Chairman Deng's lead in humble way."

Prof. Salam went on to explain the main purpose of

the meeting: "... to honour the recent achievements of scientists of the South, by making prestilisten to them..."

"... to reflect on the growing behind the disparity in economic well-being and influ-

proportions of its GNP on television, jet airliners, space erations other than purely --- and valuable resources of are or would be undesirable for defence, education and health as the North, does not spend more than one twelfth of the proportionate amount on science and technology. To highlight this, let us remember that if, like the North, the South was to spend 4% of its educational budget on basic sciences, this would amount to 3.5 billion dollars to be used for building up self-reliant basic sciences in the South. We shall be pleading for the allocation of 4% of the educational budget for basic sciences from the leadership of the South."

"... (A) most important reason for our being here in this beautiful city of Beijing is to study Chinese science in depth. As we all know, China was the world leader in creative technology until about 1600. Since 1949, it has had a state policy of enhancing science which has enabled China to increase its researchers' population from 500 in 1949 to 300000 in 1985 -- an incredible growth factor of 1:600 in 36 years, with a high impact on China's development!"

The enormous 'growth factor', because of China's size and situation, is, of course, unrealistic for Bangladesh, but the emphasis on science is important. I remember the Chairman of the Local Organizing Committee, Prof. Lu Jiaxi, gave the following reasons for China's success in

Bangladesh.

It is well-known that there and technology have brought solved by scientists alone. gap in sciences between the are some negative aspects of in their wake weapons of Even in the putative benefi-South and the North which, in science and technology, which destruction on an unprece- cial aspects of science there stress is that we must get away our view, is the real reason arise from their misuse. I wrote dented scale which have are problems. Technical from the idea of catching up ing eventually, to what the some years ago:

casual observer that a certain as purely scientific ones. The and luxury items far beyond of the advanced world, which "It is a sad fact that the aspect of science has been tackling of these problems the needs of society, with are direct results of technologi-South, while it spends similar highly successful. We have presumably require consid- consequent depletion of the - cal innovations, which I believe

ences of Physics, Chemistry, collective spirit". This could advances in medicine. The list words, the advance of science danger to the environment, Biology and Mathematics; to well be emulated in is endless and well-known. As and technology has given rise not to mention the dehumanis also well-known, science to problems which cannot be izing effect of the ethos of the consumer society.

raised acute political, social developments have caused a with the First or the Second "It is clear even to the and moral problems, as well proliferation of consumer World. There are many aspects

many of the societies of the Third World. I do not simply mean things like nuclear weapons, which are obviously a threat to the whole of mankind, but more mundane things, such as the proliferation of automobiles in the advanced countries, with the concomitant pollution and nervous strain and road deaths. Another example is the unprecedented increase in mindless television and video programmes, which is a direct result of technical advance. There are many such examples of so-called scientific development which would be, and in some cases already are, harmful for our societies."

Let me now add a few somewhat pessimistic remarks, first by the late Nobel Laureate radio astronomer Sir Martin

"Our world is one-yet evolution has now reached the stage where as a species we may soon die... We, as scientists should be able to see this more clearly than most and must use our influence to change the too limited aspirations of governments."

## The following is a quote from Bertrand Russell

"So long as national states exist and fight each other, only inefficiency can preserve the human race. To improve the fighting quality of separate states without having any means of preventing war is the road to universal destruction."

One of the starkest examples of what Russell had in mind is, presumably, the existence of nuclear weapons, which can destroy humanity many times over. Although scientists are not, in the main, responsible for this state of affairs, I believe, as Ryle implies, they cannot be gious awards in the basic sci- science: "Self-reliance and travel, and the many scientific ones; in other the planet and concomitant absolved completely from their responsibility in this matter. Ryle's remark reminds us of the two world wars in which, at every stage, the governments One of the things I want to involved thought they were following the right steps, leadsociologists would call 'unintended consequences of purposive action'. Over fifty million innocent people around the world lost their lives! I **CONTINUED ON PAGE 47** 

