FOCUS

THE ROAD TO MANDALAY — MY TRAVELS IN MYANMAR For the Unlucky Few Who Haven't Heard About it in Person!

ALEEM dropped by a Burma. While there have been few days ago just after we got back from our vacation in Myanmar. "So the intrepid explorers have returned from 'the heart of darkness', the exotic land of 'ex-Burma'. How was it?"

"Don't mix your literary metaphors Saleem. The 'heart of darkness' was Conrad in Africa. 'Ex-Burma' as you so elegantly put it is more Orwell and Kipling. We had a great time."

"Don't be so terse O R Give me details. Was Big Brother watching you? Did you get a glimpse of Aung Sang Suu Kyi - our Burmese Joan of Arc? Did you get to go to Mandalay?"

"Saleem, we went on holiday. No. Big Brother was not watching us, atleast we didn't catch on, and no, we didn't get a glimpse of Suu Kyi, but did go past her house, and yes we did get to go to Man-

I should explain that Myanmar (formerly known as Burma) has always had a certain fascination for me. When I was growing up, my father used to tell us stories about Burma. Apparently it was quite common for people in Bangladesh (particularly Noakhali and Chittagong) before the Second World War to own agricultural land in Burma, and there used to be a regular seasonal migration of agricultural labour from southern Bangladesh to

HE disastrous climate

change and droughts

in some parts of the

world have raised fears that

the dreaded "greenhouse

effect" resulting in global

warming due to build-up of

carbondioxide and other

gases in the atmosphere

might already be there.

Environmental scientists now

increasingly believe that the

carbondioxide gas released

when coal, gas or oil burns is

now responsible for more

than half of the impending

global warming. Data and

findings revealed by the

World Resources Institute

(WRI) suggest that green-

house threat is more serious

than had been realised. About

40 to 50 million acres of

tropical forest are disappear-

ing every year. Deforestation

is second only to the burning

of fossil fuels as a source of

carbondioxide (CO₂) concen-

tration. The disastrous "green

house effect" causing global

warming as predicted by the

scientists will raise sea levels

enough to inundate the plain

of Holland and Bangladesh.

and obliterate the Maldives.

The danger of ozone de-

pletion is only part of the

problem. This threat to ozone

was first detected in 1983.

when scientists of a British

Antarctic Survey Team made

the startling observation that

concentrations of ozone in

the stratosphere about 10 to

30 miles above troposphere

were dropping at a dramatic

rate over Antarctica. Other

than various factors responsi-

ble for this drop, scientists

are now convinced that there

are some more disturbing

factors at work. The cause is

a group of man-made chemi-

cals called chloroflourocar-

bons (CFCs) which are used,

among other things, as

coolants in refrigerators and

air conditioners, for making

plastic foams and as cleaning

solvents for micro-electronic

circuitry. Mounting evidences

are available that under cer-

tain conditions these com-

pounds, rising from earth

plane into the stratosphere,

set off chemical reactions

James Bond

BY IAN FLEMING

ORAWING BY HORAL

among other consequences.

long historical ties between Bangladesh and Burma, these ties however, have not always been looked upon favourably by the Burmese. The British colonialists in their usual strategy of divide and conquer used 'Indians' as middle men between the British administration and the Burmese people. Thus, Indians owned a significant amount of agricultural land used for rice cultivation in lower Burma and controlled small businesses and shops in the major cities. Indeed Rangoon (the Anglicized version of the, current Yangon) was in many respects a thor-oughly Indian city, one of the great cities of the Raj on par with Calcutta, Delhi and Bombay.

Once Burma became independent in 1948, all the property owned by non-Burmese was confiscated in waves of nationalistic zeal culminating in 1962 when most non-ethnic Burmese were expelled. From about that time, and until recently, Burma was in a long period of isolationist, authoritarian, socialist hibernation, cut off from its neighbours and the rest of the world (except for China). Since 1988 however, Burma (now Myanmar) has cautiously opened up to the outside world. Despite overtures towards economic liberalisation, political liberalisation is still a contentious

that rapidly destroy ozone.

violet radiation, a form of

eye, causes sunburn and skin

cancer. In addition, it has

been linked to cataracts and

weakening of the immune

system. "A layer of ozone in

the stratosphere protects the

earth by blocking the sun's

ultraviolet radiation and the

future danger is presented in

the form that when man-

made CFCs reach the upper

atmosphere, some of the

ozone is destroyed allowing

more harmful ultraviolet light

out the ultraviolet rays all

these ills will multiply enor-

mously. The National

Academy of Sciences esti-

mates that even an one per

cent drop in ozone levels

could cause 10,000 more

cases of skin cancer a year in

the US alone. The UN-spon-

sored Conference held in

Montreal, Canada in 1987

urged all the developed

countries to reach an agree-

ment for limiting the produc-

tion of CFCs and similar

compounds that wreak havoc

than ozone depletion and

much harder to control is the

ORDERS ARE TO

MJRK YOU OUT

Potentially more damaging

on the ozone.

Without ozone to screen

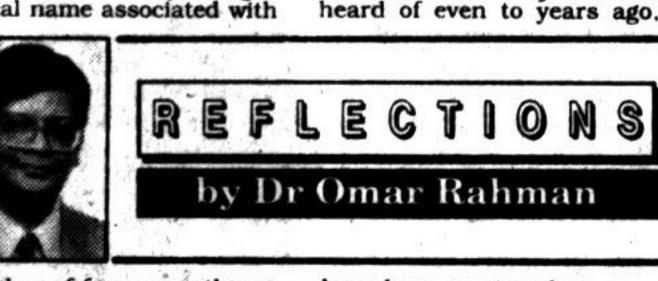
to strike the earth."

climate."

issue. The trials and tribulations of Aung Sang Suu Kyi are of course familiar to all of

I was eager to travel to Myanmar, as it was supposed to be one of the few places in South East Asia which had been spared the onslaught of reckless modernization. Within Myanmar, the city of Mandalay had a special attraction - Mandalay being a magical name associated with

nants of British Colonial architecture. It seems like a city slowly emerging from a long sleep. The pace is very laid back, the people friendly and courteous. But even in sleepy Yangon, the wheels of International Trade appear to be spinning. Five star hotels are coming up in every other corner as Myanmar prepares for Visit Myanmar year in 1996, and traffic jams, un-



a number of famous authors: Kipling, John Masters and Daphne Du Maurier. Thus my wife and I had set out with a lot of excitement and some trepidation on our one week holiday to Myanmar with stops in Yangon, Mandalay and Began.

"Saleem you would have loved Yangon. It reminded me of Dhaka in the mid sixties. It's very picturesque, wide streets, beautiful trees - (its a shame how many of these similar trees we have cut down in Dhaka to make way for ugly concrete edifices), very few people or cars (compared to the Dhaka of today) and beautiful rem-

have been rearing their occasional ugly head. Trade is picking up, although international investors are understandably cautious with the political process in limbo. The big growth industry is tourism, with everyone scrambling to learn English. Apparently tourist guides earn three times as much as Yangon University lecturers. with the tips in hard currency. This is a big perk that the Kyat (pronounced 'Chat") trades at 120 to the US dollar unoffi-

Dollar. "O R, enough about Yan-

cially while the official ex-

change rate is 6 Kyat to the

gon, tell me about Mandalay - I have this romantic notion about it, the very name has a certain ring of exotic-ness about it. How does one get

"Saleem, we cut our way through dense jungle, fighting the odd tigers, white ele-phants, snow white leopards - just kidding. It is like this only! Actually, we flew to Mandalay on a private carrier. Air Mandalay, which was expensive (Tourist tickets are all in hard currency and cost 10 times as much as what it costs Locals) but was surprisingly a pleasant experience. The flight left on time, the seats were comfortable and the service excellent. Quite a contrast to Bangladesh Biman on our return home, where the flight was late, the seats refused to go back, and the overhead luggage bins kept opening up in mid flight. There is a lot to be said for private enterprise. On the other hand, if your want a touch of home! - (Bangladesh Biman), fly the government owned Myanmar Airways. where flying is always an adventure!"

'Mandalay, the Chittagong of Myanmar (sorry, Rafay!) is not quite as exotic as its name. There are, however, a few things to see there, such as the royal palace, and Mandalay hill with its huge pagoda. But I must confess to a vague sense of disappointment, I am not sure what

soil. So the need is for pre-

serving the forests that are

still there and replenishing

those that have been de-

Without any contradiction

expected, but this provincial capital did not capture my imagination. Sometimes it's best not to have reality intrude on one's romanticized

"What made up for the disappointment of Mandalay was the fifteen-hour trip down the Ayerawaddy river from Mandalay to Bagan on a slow steamer. The Ayerawaddy was as calm as a lake. We drifted along, the villages on either bank with the Shan hills in the background, werefrozen in time, seemingly untouched by modernity. It was almost unreal, like a water colour land-

"The high point of our trip to Myanmar was visiting Bagan, an architectural wonder. In a land of pagodas, this was the apogee - a 30-squaremile area with over two thousand pagodas mostly built between the tenth and twelfth century, a testament to the very high level of sophistication of ancient Myanmarese civilization. There is so much to see there that our one day there hardly did it justice."

"So to sum it all up, Myanmar was everything a holiday spot should be, wondrous, exotic, unspoiled (atleast so far), a society in transition. So take my advice Saleem, go before the onslaught of international investment makes it into a second class Thailand."

(CH₄), a carbon-hydrogen

compound produced by mi-

crobes in swamps, rise pad-

dies and the intestines of

refrigerators and as propel-

lants in aerosol sprays had

shown growth rates that

were fabulous and at the

same time pretty useful. They

were almost produced at a

rate of hundreds of thousands

of tons yearly. But they

seemed too good to be true.

CFCs in aerosol cans are

sprayed directly into the air,

they escape from refrigerator

coils, and they evaporate

quickly from liquid cleaners

and slowly from plastic

are immune to destruction.

But in the stratosphere they

break apart easily under the

glare of ultraviolet light. The

result : free chlorine (CL)

atoms, which attack 03 to

form chlorine monoxide

(CIO) and Oxygen (02). The

CIO then combines with a

free oxygen atom to form 02

and a chlorine atom. The

chain then repeats itself. "For

every chlorine atom released,

100.000 molecules of 0_2 are

removed from the atmo-

sphere" — a catastrophic

phenomenon as announced

by Rowland, a chemist at the

University of California at

not totally unwelcome. Un-

like ozone depletion it is

natural phenomenon with

positive consequences. With-

out it, Rowland Group of sci-

entists points out, "the earth

would be uninhabitable. It is

what keeps us from being an

ice-frozen planet like Mars.

Indeed, if gases like CO2 did

not trap the sun's energy, the

earth's mean temperature

would be 0 Forather than

tion about the catastrophe

that is likely to strike planet

Earth because of the guzzling

of fossil fuels by automobiles

and factories must not come

to pass all too sudden. Scien-

tists from 38 countries along

with the Bush administration

of the US in 1990 called for

60 per cent cut in CO2 emis-

sions. Conservation is the

cheapest and fastest way to

do that, at least until solar

and wind powers, which emit

However, the dire predic-

the current. 59

The greenhouse effect is

In the troposhere, CFC

CFCs used as coolants in

sheep, cattle and termites.

Maize to Combat Food Crisis

by Jerome Sarkar

HE Population boom in as co-produces. the third world coun-**Diversified Uses** L tries poses a global concern. There are very few options left to improve the present situation, particularly for a country like Bangladesh with alarming over-popul-ation and diminishing arable land. An enormous amount of

money is being channelled to

Maize is a staple food in a few countries. Main advantage of maize is its diversified uses. Maize can be used as popcorn, flour and grills in food, pudding and, with the maize cereal different delicacies can be prepared. It has food value for ani-



methods of family planning. But the result is of a little

On the other hand, the land is depleting due to erosions of river banks and the arable land is being gradually transformed into shelters, office buildings, factories, highways, railway tracks etc. This has substantially caused a fall in agricultural output. These are some of the major factors which are responsible for the shortage of food in the country beside natural calamities like drought, cy-

clone and flood. Under the circumstances hungry mouths are perpetually multiplying. The poor are groaning under the pangs of food-shortage and consequent ever-escalating prices of food grains. The views of the executive class, the decision-makers from the windows of the air-conditioned rooms almost never see through the hardships of the rural poor, the majority of the population.

In the backdrop of this, to a few thoughtful, an alternative source to combat shortfall of grain appears imperative. Since there is no opportunity to bring more land under agriculture sector, improved methods, high yielding varieties for greater output in the agriculture sector may be earmarked as alternatives. This may be implemented by providing improved seeds, extending irrigation facilities, ensuring easy access to fertilizers at a fair price etc.

The experts opine that the constant application of chemical fertilizers erodes the natural fertility of the soil thus gradually diminishing soil's ability to produce. Hence additional input to revitalize the soil by replacing partly the chemical fertilizer as far as practicable with indigenous and locally procured fertilizer ingredients like green manure, decomposed organic manure, cowdung etc. would help retain and raise the reproduction capacity of soil. On the other hand, introducing improved irrigation facilities, mecha nized ploughing, off-season production etc. will help enhance crop production.

As stated above, one of the

troduce new crops of improved varieties to raise the supply of food grains. The choice of Maize is thought a breakthrough towards this end. Maize is considered an alternative with bright prospect. It is being introduced in the country. In a few countries including our neighbouring country India, maize is considered an im-

Maize is not a foreign crop to the farmers in Bangladesh. But unfortunately it is neglected. They are not aware that our soil and climate is favourable for maize cultivation. Maize can be grown both in Kharif and Rabi seasons. Too much rainfall or too much cold hampers the seed from germinating and sprouting. Otherwise there remains practicably no risk. A little caution in this respect will

significance so far.

Seeking an Alternative

A Hope

alternatives of choice is to inportant cash crop.

mitigate the risk.

As Inter-crop/Co-crop The experiments and experiences of other countries suggest that maize is a high yielding variety. It canbe grown in the interval between the main cropping seasons without hindering the major crops. Experts further opine that its production per hectare is more than any other cash crop. It needs less irrigation compared to rice or wheat. Yield of Maize is almost double of that of paddy and wheat. It grows 8 to 10 tons per hectare. It can be grown as inter-crop/cocrop too. It can be grown with crops like choola (gram), mugh pulses, groundnuts, peas, chilly etc.

has carotin and thiamine which is suitable for chickens and cattles. Hence it can be a very good source of fodder for livestock and feed for poultry birds. Maize is used in the food

industry to produce bakery products like bread/biscuits etc. as supplementary ingredient. It contains high quality of starch and has multiple uses in other countries.

According to experts, Maize grains contain more than six hundred units of Vitamin 'A'. Maize grains contain oil which is edible, colourless and odour free and, often used to enrich other food. Maize oil has poly-unsaturated fatty acid which helps children to develop their body and the oil help reduce cholesterol.

Last but not the least, dry trunks of the maize plant. leaves, cover-cells and corncobs can be used as fuel and thus can meet the demand of fuel in the villages.

RDRS Initiative

In the light of the above, RDRS took initiative to introduce maize and motivate the poor farmers in the field evel within its working areas (Rangpur Dinajpur Regions) in 1994. Crop Diversification Programme (CDP) took a drive to introduce several crops including Maize. In the process some NGOs including RDRS signed agreement with "Integrated Maize Promotion Project" of the Ministry of Agriculture to promote maize in its working

RDRS selected the poor farmers, organized trainings and set up demonstration plots. RDRS field staff underwent "Training of Trainers" (TOT) on maize at the cost of CFP and they in turn imparted trainings to the prospective growers. Under the supervision of RDRS trained personnel, the small farmers cultivated in their own land the Hybrid Maize in 23 acres of land in Kharif and 20 acres in Kharif II and 150 acres in Rabi season. Farmers bore 50% cost of the seed. Other production expenses were supported by CDP. RDRS motivated the farmers and extended all technical assistance. Hybrid seed called "Pacific-II" was imported from Thailand. Yield was amazingly high and it attracted the attention of the farmers widely.

The harvest has generated a sense of confidence among the farmers about Maize production. They intend to cultivate more this year provided the seeds are available. Once farmers assimilate the knowledge of its food value and other benefits, and integrate it into the family consumption, Maize is likely to turn out as leading cash crop

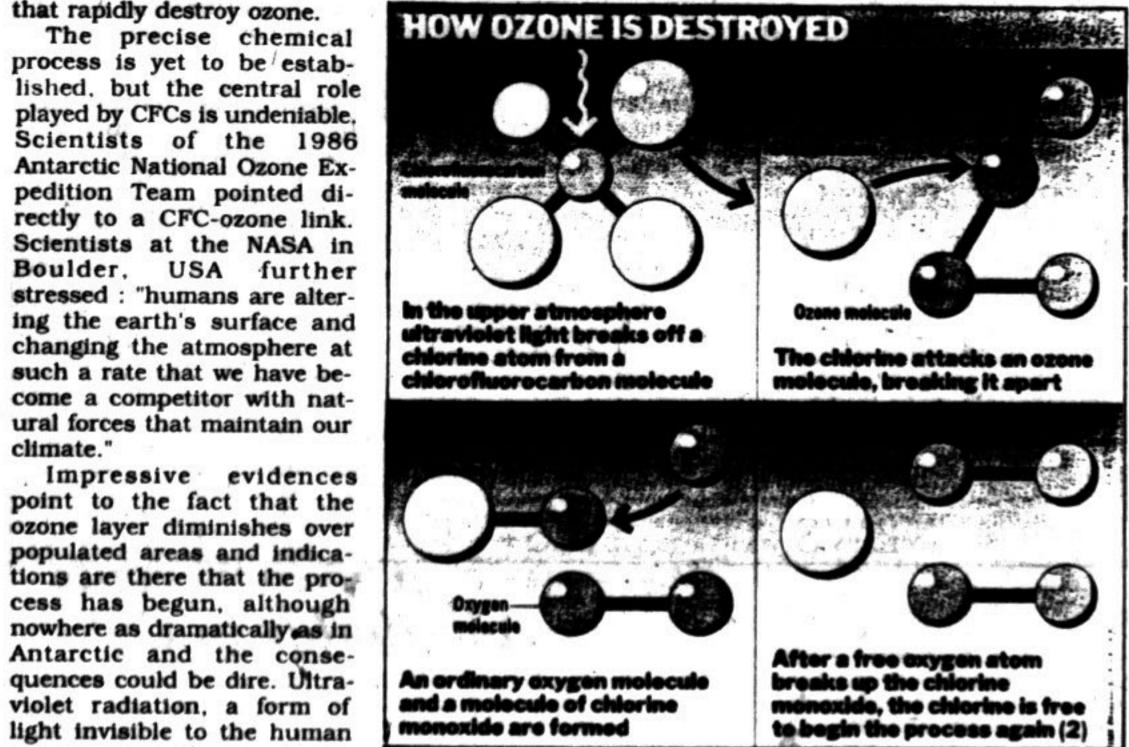
in the passage of time. However, according to agriculture experts, the facility for the preservation of seeds of Hybrid Maize is not existent in the country. Hence the seeds are to be imported from abroad. Preservation facilities however would save both time and money and boost up incentives for production.

In conclusion, taken stock

of all factors, the "Crop Diversification Programme" launched by the government is a step towards right direction and sure to serve the purpose best in the present context. The supplementary measures by the NGOs to the Government programme has also borne fruitful results. Maize is obviously an additional crop. Once accepted by the farmers, it will contribute greatly to minimise the dependency on imported food grains. Bold initiatives, active cooperation and meaningful assistance from the concerned authorities for the promotion of Maize will open a new horizon in the field of agriculture production and alleviate the sufferings of the poor farmers, resulting in an answer to the food crisis.

Fighting Greenhouse Effect and Ozone Depletion

by Md Asadullah Khan



greenhouse effect, caused in large part by carbondioxide (CO₂). The effect of CO₂ in the atmosphere is comparable to the glass of a greenhouse: it lets the warm rays of the sun in but keeps the heat from radiating back into space. Findings based on continuous research and data monitoring suggest that human contributions to the greenhouse effect, mainly CO₂ that is generated by the burning of fossil, may be hastening the global warming trend that could shoot up avenage temperatures between 2 F and 8 F by the year 2050. Other than this, the smoke and fumes and exhaust that humans generate because of the increased use of fossil fuels in automobiles and factories will eventually alter the earth's climate. On a global basis, every year we are adding a net 3 billion tons of carbon to the atmosphere in the form of CO2 plus methane, CFCs and other harmful trace gases. The consequences may be most disastrous. They could trigger coastal flooding, droughts

and all these alarming signals are already there. The country experienced severe drought last year followed by four successive floods. The prescribed cure that environmental scientists suggest is to reduce fossil-fuel emissions, stop producing CFCs, stop deforestation and start replanting. Shockingly true. reports available from Sylhet. Chittagong, Mirzapur, Sundarban forest zone, and all over the northern zone indicate that felling of trees for fuel wood and timber extraction has gone up on a massive scale without any effort to

We must try to realise that the country needs trees and unquestionably lots of them to store the carbon produced by the growing population. More than ever we have to realise now that forests are giant utilities providing an indispensable service to the stability of the planet. Forests are carbon dumps; trees extract CO2 from the atmosphere, emit oxygen and store the carbon in the wood, leaves, roots and surrounding

SIR? SUPPOS

WE START WITH A

FEW ROUNDS OF

RANDOM FIRE-THEN SOME QUICK DRAWS

replenish them.

it has now been established that the relationship between CO2 emissions and global warming is no longer debatable. Findings of a Soviethave revealed impressive evidence that CO2 levels and

stroyed.

French Joint Research Team worldwide temperatures are intimately related. The consequences, they fear, are that in the next half-century, dramatic change in weather patterns, major shifts of desert and fertile regions. intensification of tropical storms and a rise in sea level. caused mainly by the expansion of sea water as it warms up, would come about.

The area is which such climatic warming will first occur is the atmosphere, the ocean of gases that blankets the earth. The bottom layer of the atmosphere, the troposphere is the place where all global weather takes effect. It extends from the earth's surface to a height of 10 miles. Because the air warmed by the earth's surface rises and colder air rushes down to replace it. the troposhere is constantly churning.

Ozone (03) is a form of oxygen that rarely occurs naturally in the cool reaches of the troposphere. It is created when ordinary oxygen molecules (02) are bombarded with solar ultraviolet rays, usually in the stratosphere. This radiation shatters the oxygen molecules. and some of the free oxygen atoms recombine with 02 to form 03. The configuration gives it a property that twoatom oxygen does not have. The most startling feature of this ozone formed is that it can efficiently absorb ultraviolet light. In doing so, 03 protects 02 at lower altitudes from being broken up and keeps most of these harmful rays from penetrating in to the earth's surface. The energy of the absorbed radiation heats up the ozone creating warm layer high in the stratosphere that act as a cap on the turbulent troposhere below.

stantly being made. But they can be destroyed by a number of chemical processes, most of them natural. Stated precisely, the stratosphere receives regular injections of nitrogen bearing compounds such as nitrous oxide (N2O). Produced by microbes and fossil fuel combustion, the gas rides the rising air currents to the top of the troposphere. Like most chemicals, man-made or natural, that reach the stratosphere, N₂O tends to stay there. Reports gleaned from the National Academy of Sciences likened the upper atmosphere "to a city whose garbage is picked up every few years instead of daily". As long as five years after it leaves the ground. NoO may finally reach altitudes of 15 miles and above. where it is broken apart by some ultraviolet radiation that creates 02. The resulting fragments called radicals attack and destroy more.

ozone molecules. Another

ozone-killer is methane

no CO2 are widely avail ble Efficiency alone, suggests Ozone molecules are con-Christopher Flavin of Vorld Watch Institute, could cut among people born before

global CO2 emissions to 3 billion tons a year by 2010. from today's 5.6 billion. Environmental scientists have suggested the slowing down of greenhouse effect and ozone depletion. The Montreal Accord reached in 1987 urged the signatory countries to reduce production and consumption of CFCs by 50 per cent by 1999. The accord further allowed the developing nations to an increases use of the chemicals for a decade so that they can catch up in basic technologies like refrigeration. The environmental protection agencies have issued a stern warning on the basis of their calculation that without the accord being materialised, a staggering 131 million cases of skin cancer would occur

2075. This is an alarming

forecast that the developed

countries of the world must

pay heed to.

Davis



SWALL-ARMS PRACTICE. SIR. AT THE

MAIDSTONE

POLICE RANGE

