

Manthan

MONTHLY JOURNAL OF DEENDAYAL RESEARCH INSTITUTE, NEW DELHI

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7-E, Swami Ramtirath Nagar, Rani Jhansi Road NEW DELHI-110 055

Phones: 526735, 526792

Subscription Rates

Life Member : Rs. 1,000

Rs. 50

£ 15

£ 6

Single Copy :

Foreign (Air)

(Sea) :

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Dear Reader

Namaste I

In response to the Paper 'Resolving Religio-Cultural Differences in the Service of the Indian People' published in the Manthan issue of June 1988. Dr. Moghni has sent us a strong criticism of the same. We publish the same —with the author's refutation of this criticism.

Three months back Shri S.N. Ghosh presented a Paper on Needed Change in Growth Concepts and Science and Technology Patterns' at an International Environmental Conference in Edinburgh. In this valuable paper Shri Ghosh shows how western technology is bad even for the Wast. but much worse for the East.

And then we carry the report of an interesting discussion on 'China Today', initiated by Prof. Tan Chung of Jawaharlal Nehru University, and continued by Shri Nikhil Chakravariy, Editor, 'Mainstream'.

We also bring you a fine report of the DRI Samaj Shilpi Pariwar Camp in Ahmedabad last month.

Next week we will bring you the Papers and proceedings of the Supposition on 'Nationalism and Communalism' held in New Delhi on July 28. We will also bring you the report of a talk on 'The Other Side of Japan' by Dr. Suresh Kumar Jain, who has spent some years in January 1988.

Brotherly yours,

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I Accuse Malkani....

By : Dr. Abdul Moghni

University Professor of English R N College Bates

EDITOR'S NOTE: Many Readers will be surprised to read this article. It is not only negative in content, it is offensive in tone. But we publish it because Dr. Abbul Moghni is not the only Muslims who thinks and talks like this. There are many Muslims, including educated Muslims, who are as ill-informed, and as self-righteous, as Dr. Moghni.

We publish this article because even optimistic Hindus—and I am one of them—should know thirt it is going to bg, tough to reconcile Hindu-Muslim differences. We also publish a response to Moghni so that Muslim scholars may know more, and better, about India, Hindus and Hindusin than they do.

NR K. R. MALKANI'S article, "Resolving Religio-Cultural Differences the Service of the Indian People", in the Manthan, June 1988, New Delhi, seeks to present a scolo-instrocal analysis particularly of Hindustatin differences, with an ideological outlook. Then it also suggests of Concrete Plan of Action' to resolve these differences, on which the article ends. As the treatise is meant for the Plan of Action, it would be better to begin a review of this Plan of Action, it underlines the purpose of the writing. There are 12 points in the plan, which I am taking in the same order as given by the writer.

The plan is prefixed with the observation that "India has always seen the land of freedom of thought, expression and life-style". This stement is not historically correct. The definite article, "the", is stement is not historically correct. The definite article, "the", is stement is not indicated by the state of the control of the con

b. The demand for rewriting Indian history is all-right. The minh imperialist distorted the facts of our real history, particularly the mediaeval period, on an extent that they succeeded in realizacommunal problem, which did not exist in the reign of the Muslims, to were liberal enough to have revived the dying Hindu sensibility, Setting writine and the particular particular and the pa K. R. Malkani have inherited all their historical perceptions from the British historian deliberately divisive studies, blatantly misropresenting the realities of Muslim rule. However, a revised history of India ought to be written, but not "from the Indian angle", particularly in the sense that Mr. Malkani has developed in course of the article under review, as the sense is based on a chauviniste falsification of history. The angle, therefore, must be related to truth, which is universal rather than antional. Then, if a truthful review of history is undertaken, truly Muslim historians, rather than the politically-minded selfsh scholars of history, be also associated with the job in sufficient numbers.

 It is perfectly sound that moral instruction, with the tenets of all the tenests of their propagators, be imparted to boys and girls in schools, so that they may imbibe the social and cultural values of humanity vanishing so fast in the present materialistic age.

3. Security to all citizens is naturally the pre-requisite of a civilate docely. All those involved in, or encouraging, command disturbances, whether some religious leaders, or chauvinistic organisations, or militant communalist groups and outfits, or Government officers, or optical functionaities, or ministers, or newspapers and journals, mast be brought to book and meted out deterrent punishment. Both the public and the Government should take precautionary measures also it his respect, and forestail any mischief. All writings and speeches precing communal harted or class struggle or caute feuls or group conflict ought to be banned. Subversive elements should be singled out, isolated and eliminated. All Datriet Magistrates and Police Superintendents, under whose jurisdiction riots break out and continue for more than three hours, be sacked and proceeded against.

4. There is no need to replace the Minorities Commission, 30 mag arminorities are facing problems and are being discriminated against at the hands of a bureaucracy which is stinking with communal bast at all levels and in all departments. Many ministers also are prejudiced against the minorities. Then there are ordinary criminals, most of the goondax, who are constantly persecuting the minorities. The problems generated by this disastrous situation are to be tackled by the Minorities Commission. for which reason it should be made statutory and made to the commission of the many problems of the many problems

which should adopt the objectives declared by the United Nations, in this respect.

5. Festivals for Muslims are religious. They may greet their judud comparitos on the occasion of their religious festivals, and wish sem well. But a true Muslim cannot "join in celebrating Dussehra and pswall and Holl", as religious rituals, objectionable from Muslim point of view, are observed therein. How can a monothesis participate in polymental polyment of the properties of the p

6. Pakistan is no model of Islam, which even present Saudi Arabia is not. Muslim countries like Turkey and Egypt have sometimes sought so "reform Islam". But such ill-advised and misguided reforms have been

Monogamy is a curse and Islamic bigamy, a blessing!

stown out like dirty eggs by the Mutlim society of the countries control, as soon as the net-falamic terms have gone out or been waskened oversthrown. Monogamy has become a curse for the modern society of swest as well as the fast it has decided monogamous people. We see that the society of the so-called monogamous people should be society. The moral standard of decided many many standard of decided many standard of the male society. The moral standard of decided many standard of the many sta

The meaning of "organised mass conversions", sought to be smand, is not clear, except that Mr. Malkani may be referring to some devents, which are few and far between. The main point is conventishts a matter of conscience. It can be neither forced upon people, can they be forced against it. For example, Muslim rulers in a convention of the process of the state of the

- 8. Proportional representation is all-right. Communalist political sets should really not be encouraged. But how can such parties be banned '7 The meaning of communal parties should be extended to imply those having communalist stand-point, policy and programme. Only exclusive membership may not make a party communal, though it may remain communal in amme but may adopt a universal ideology, which may also serve positive antional interests and altriustic purposes.
- 9. Who is getting foreign funds and for what purposes? It is not easy to probe and decide. Some Hindu organisations as well as certain political parties might have been receiving huge funds and using titem for subversive activities. So it would not be worthwhile and justifiable to debar only harmless denominational groups from receiving foreign funds. What should be strictly watched is the activity of all groups, religious or political, whether they are working for the wafface of the people or adding to their miseries. All anti-people activities, indulged in by whatever group, must be hanned and procecuted.
- 10. Unless complete national integration, to the satisfaction of all generate, in achieved by the Indian Union, it would be Quistotic to dram that Pakistan and Bangladesh can rejoin Akhand Bharat. Such proposals as moneted by Mr. Malkani and people like him can only scare away all sections not subscribing to the R.S.S. view of nationalism, what to speak of attracting those who have gone out of the Indian union, largely and mainly due to the narrow-mindedness of some nationalist politicians, who were affected by the ethous created by the Hindu Mahasabha.
- 11. The purposes for which Article 30 is being proposed to be mended are being already observed by such institutions as Aligarh Maslim University and Jamia Millia Islamia. As for the institutions of religious learning, like those at Deoband and Lucknow, these are caving for Government aid. Therefore, the proposal is superfluous, if
- L2. Muslims have been studying Hinduism and Christianity est. Let the Hinduis follow Mr. Malkanit wise counsel in right carnest. But what is meant by quoting Gandhiji to the effect that "there is, in Hinduism, roum enough for Jesus, as there is for Mohammad, Zorosate and Mones". There is room enough in Hinduism for any stone, tree, animal, and hed of water to be included among its idols. Islam naturally is consistent of the property of the pr

secous enough to comprehend all the true messengers of God. Then that also directs all the faithful not to abuse the defires workinged by as idolators. This code of conduct guarantees an effective human integration, intercommunal goodwill, international brotherhood, and universal cooperation. The Quran has issued the commandment: "Cooperate in seme and piety, and don't cooperate in evil and transgression".

Mr. Malkani should study Islam to find out definite, concrete and effective suggestions for rthe whole word, along with all mitions and communities, to unite in a cosmic pursuit of human progress, with perfect shapes between material and spiritual developments, without either amenaing mankind to bow down before every object of terror and acute or exposing it to all torst of debilitating outgins and neversion.

Mohammed Qasim was, and is, a hero, and Raja Dahir was, and is, a villain

This brief analysis of Mr. Malkani's aims is enough to explain the mission or delusions under which he is labouring to resolve what he calls edigio-cultural differences. But his bigorty exceeds the limits suggested by his plan of action. His thoughts have run riot in advising the Muslims of ferakes their herees, their ames, their distinctive features, their places of worship, their dietary habits, and adopt strange figures as their places of worship, their dietary habits, and adopt strange figures as their secons and what are supposed to be Hindu colours as their flag. All this clearly means that Mr. Malkani is out to demolish the identity of Muslims free India, after it has endured for the last 41 years. Of course, he has laken pains to rationalise his patently communalist counsels with what he makes to be facts of history. His philosophisation has resulted into my sufficiation, which is totally confused and confusing, even rotten and online.

As for his knowledge of history and sociology, only one example would show the kind of subdirathjue has displayed. He says that in Sam also there are classes of people. like in the caste system of Hindus, Sert his he refers to the types of functionaries of faith. Is there any cannection between the two! Obviously not. These functionaries of Islam cante can't be positions held by the righteous persons, by virtue of their Setformance in plety. There is evidently nothing ethnic or hereditary about these positions, as it is in the case of the Hindu Varne.

Now one should see how Mr. Malkani, armed with the kind of facts mentioned above, proceeds to deprive Muslims of all marks of their identity.

First, he objects to beard. What is Hindu about the absence of beard? Many a Hindu guru sports beard lavishly. But there is something religious in it for the Muslims. Their Prophet and his companions used to grow beard, and the Prophet has asked them to do so.

Second, circumcision also has been objected to. This also is a religious injunction as well as tradition of the Prophet, apart from the proven fact that it is medically scientific.

Third, why should Muslims hand over the mosques which they have built, to Hindus? Had the Hindus been tolerant enough, they would have never quarrelled with the Muslims over the possession of their holy places of worship. The allegation that mosques were originally temples is simply a fiction.

Fourth, why should Muslims be asked to become vegetarian? There are many Hindus who are not. Vegetarianism is not natural, nor normal. Ancient India, too, was not vegetarian. Otherwise, animals would not have been sacrificed then. It is preposterous to think that people can be regimented in their food habits. As for crucity, even vegetarians devour plants, which also are botanically living creatures, as Shri J. C. Bose has conclusively noved.

Fifth, there is nothing communal in colour. It can be green as much as white or yellow or blue. Then why propose a particular colour as a national emblem?

Sitth, heroes cannot be exchanged. They are part of a group's history. History as well as tradition makes both heroes and villains. For instance, Mohammad Bio Qusim was, still is, and will always remain, and the real benefactor of mankind, including all Indians. Containty, Raja Dahir was, has continued to be, and will invariably remain, a willain, and a sear on the face of humanity. Mr. Malkani should first know facis, then talk like a rational creature. Every treacherous and vicious person who fought a Muslim should not be taken as a hero. Otherwise, all the persecutors of non-Hindus in modern times would have be added to the paratheon, and paeans sum gfor them. The Arabic or Persian names of Muslims are as rational as the Sanskrit names of Hindus.

All the myths Mr. Malkani has endeavoured to weave are based on two fundamental presumptions:

1. Muslims are foreigners, as they have come from alien lands.

2. Time has stood still or the clock can be turned back to the 12th entury of the Christian era.

Both the suppositions are wrong, absurd and pennicious. By the same logic applied to Muslims, Hudus also can be called foreigners. Both ac communities, have come, one after another, to India, from the asme central Asia, and through the same Khyber pass. Time has been passing and it has changed, and keeps changing, the very map of the Ind. what speak of its ways and manners. Ancient India was not as geographical monolith when Muslims came here. They made it a Country, stretching om Tibet to Affannistan. When the English inherited an India from Mughlah, they kept it inner, so long as they could exploit it. But, at the me of their forced departure, they divided it, for their own imperiation purposes. However, they could not destroy the Indo-Persian composite culture and the true national medium of expression (Urdu), that had sentiancously developed in the mediaeval period, under the benign and bertfelled impact of Muslim rule. Those who have inherited owner from

Malkani is out to demolish the identity of Muslims...

the British are, somehow or other, maintaining the national trend of a regularly evolving Indian culture.

People like Mr. Malkani should not deviate from, obstruct, or seek to subvert, this mainstream of Indian society. If such people are really sager to bring about a national reconciliation and consensus in the present critical circumstances, they should consider the following:

- The religio-cultural identity of all sections, as it obtains today, should not be challenged, deprecated, and sought to be modified.
- The religious and linguistic minorities, as understood in the current political terms, should be made to feel secure and completely equal with the demographically proclaimed majority.
- 3. A free exchange of views about the validity and efficacy of the Benonal Laws of all the different communities ahould take place, with an Pen mind to find out the best possible common civil code, if any, Otherwise, every community should be content with the observance of its own code, rather than aspring to impose its chosen way of life upon others.

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- 4. Freedom of creed and conscience should never be sought to
- Communal disturbances, rather than differences, must be done away with.
- Social justice ought to be ensured to all sections, including equal educational facilities and economic opportunities, as also adequate political representation in legislatures and cabinets.
- Hindustani, in both Hindi and Urdu scripts, should be allowed and helped to progress as the link-language and national medium of the country.

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Malkani Answers Dr. Moghni

RADERS must have been surprised by the whole tone and tenor of Dr. Moghm's article. But, we cannot afford to be irritated by the ignorance even of the educated—or ewen of the educators. We must try to explain, to explain again, and to explain yet again, in the hope that light will prevail over darkness, and love, over the

Dr. Moghai thinks that India a not, and has never been, tolerant, it india had not been foleranted with the properties of the world flourishing here. The William India been intolerant—like, say, Christian Spain—we would have like Wilsiam after the fall of the Meghal Empire or even after the end stiffs their T. That nothing of the Kind happend—or was even thought of a circulate to the generous, anything to acknowledge faces.

Dr. Moghni thinks that India did not tolerate Buddha and He goes on to accuse Adi Shankaracharya of launching a "fanatical" movement to "annihilate" Buddhism in the land of its birth.

I wish Dr. Moghni knew what he was talking about. The rise and sail of Buddhism is an important chapter in Indian history and culture. Yolunes have been written about it. Here I can only state briefly that Buddhism was not expelled from India; it overflowed to all neighbouring ainds when it was flourishing in India. Later it was not about begitnings, day being absorbed by, and internalised in. Sanatan Dharma. Many of the basic teachings of Buddha now became integral parts of this Dharma. For example the Hindu emphasis on vegetarianism, gentility, charity comes from Buddha—and from Mahavira. As a result, Indian Hindu are much more Buddhist of Burna for St. Lanka, Pist or Chini.

Institutional Buddhism disappeared from India only because it was used interesting to the population of India declined during the hey-day of Buddhism; people's will to resist aggression weakened. As Count Hermann Keyserling of The Travel Diary of a Philiosopher's fame (Harmour, Brace & Co., New York) put it, Buddhist teachings would convert a man into a vegetable.

Incidentally, Buddhism was never accepted by the broad masses of sale. While the town-dwellers, traders and other articulate sections went seedshist, farmers, by and large, continued to be Saivite, Tantrite, etc. 100, birth, marriage and death eremonies, even for Buddhists, continued to be performed by Brahmins. Buddhism in India was not like Islam Hudustan; it was more like Sufficien in Islam.

When Islam came to India, there were still millions of Buddhits, Because of their non-violence and absence of easter-protection, they were mercilessly slaughtered; the rest sought security in the regular Hindu fold, It was Bakhtiar who burnt down the great international Buddhist University at Nalanda and slaughtered thousands of scholars and staff.

A for Shankarachaya, I would invite Dr. Moghni to see the Sankirt film on the Great Achara, (I hope it is not un-slamin to hear Sankirt film on the Great Achara, (I hope it is not un-slamin to hear Sankirt or view a film.) He will then realise that Adi Shankarnehaya was a Great Integration and Elevator, Indeed he was so much influenced by Buddhist thought that his critics dubbed, him as "Prachchhanna Banddhis" (ascert Buddhist).

I will now deal with the 12-point Plan of Action, on which also Dr. Moghni has commented adversely.

 The learned author welcomes the suggestion for re-writing Indian batory. He says that the Brittish distorted mediaeval bishood dhus created the command problem which, he claims, did not exist. He goes ont only the Muslim rulers were so liberal that they revive the dying Hindu entibility, resuscitated Sanskrit studies and got Ramayana

It is true that there were no Hindu-Muslim riors in those days, but there were many Hindu-Muslim wars. Dr. Moghai is right in asying that Hindu conjectousess grew during. Muslim rule. But this was because of green'd Muslim rection of everything Indian—and not because of any Muslim partomage. All castes, classes, seets and tribes became united as "Hindus" because of the general buslim in rulers to the entire native population. The Muslim thus created the "Hindus"—just as, in more recent times, the British created the "Hindus"—just as, in more recent times, the British rereated the "Hindus".

Under official pressure of Turkish and Persian, Sanskrit declined, except in centres far away from Delhi. And what exactly does Dr. Moghni mean when he says that Ramayana was got written by Muslim rulers? Did Tulsidas write Ram Charit Manas' with a grant from Akbar?

When I wrote in my paper that Indian history should be written from the Indian angle, all I meant was that the old British bias should go out of Indian history. But Dr. Moghai is against the "Indian angle", he is for 'truth' as seen by "truly Muslim historians". But will they not look at truth only from the Muslim angle? And how about the mediaeval historians, all of them Muslim angle? And how about the History of Indian as Told by its Historians"—all forem Muslim—one by Hilliot & Dasson. Any decent Muslim will be shocked and ashaned

 I am glad that the learned author has no objection to moral instruction though I am sure if, as and when such courses are prepared, the Moghnis of India will have many objections.

3. He is also good enough to agree that all rioting must stop and rioters and their abettors punished. But let me pose here a question of two. Does he justify Indian Muslim processions against Salman Eushdic, even after his book "Satane Verses" was banned in India, leading to much violence? Was if proper for Muslims to take out huge processions in India, shouting provocatively "In Hum Se Takwaga Cheor Choor Ho Jayega", when some Australian had defilted a mosque in Israel—again leading to much bloodflead in Amedabad and elsewhere?

4. Dr. Moghni does not wart a Himan Rights Commission; he wants his hobly-hors of a Minorities Commission. He says minorities are facing problems. Par "soondas" harsing only Mudfans—and not Hindus? And its Minorities Commission dealing with goondasin? He also wants the Minorities Commission dealing with goondasin? He also wants the Minorities Commission to look after the poorer and weaker sections of all comments. However, the property of the property of

Abysmal Muslim ignorance of Hindu-Buddhist relationship

"minorities"—unless it is renamed and reorganised to take cognisance of any aggrieved section of the population? And shy does Dr. Moghni have to run to UN? Are not the Fundamental Rights in the Indian Constitution good enough." All we need do is to have them implemented in letter and in spirit.

s. 1. have nowhere suggested that Hindus and Muslims participate in each other's religious ceremonies. But if would like fo know from Dr. Moghni whether he considers spraying of coloured water on Holi—of the manner of the hindurating homes for Diwali—as "un-falamic". Until a hundred stars ago Muslims did nor thinks to. When I was young, I saw Hindus soller coconuits and Batashus at Tazias in Sindh. Until modern times Nuslims also freely participated in Hindu festivities.

Sindh was occupied by the British in 1843. Four years earlier, E. B. Eastwick, their envey in Sindh, noted in his diary on Nov. 5, 1839; "The Diwali happening to fall on this day, the whole river was trait with lamps. The issene was really enchanting. The mosques and ruined tombs, illuminated by myriads of lights, and the broad surface of the control of the contro

the island fortress of Bakhar in mid-stream, made up a wondrous picture. Ever and anon some votary would offer up his prayers to Lakshmi and launch a tiny craft bearing a cluster of lamps into the water."

Why can't these amicable practices be revived? Or do the Moghnis of India today reject them as "un-tisiamic"? If Jews—and Hindus and Muslims—in Christian lands can celebrate Christmas, why can't Muslims join Hindu [estivities in Hindu lands? Why does any community] have to vand out—and away—as a sore thumb, in the name of 'Koran' or 'Sunnah'? The Prophet of Islam was flexible—and practical enough. For years he bowed to Jerusalem, and not to Mecca. Why can't Muslim Indians imbble that spirit?

6. As for ban on polygamy, Dr. Moghni says he is not willing to follow Pakistan, Turkey or Egypt on this subject. If even Pakistan is not Islamic enough for him, what makes him think that Hindus will allow India to be more Islamic than even Pakistan?

Dr. Moghni considers monogamy a curse; he consider "Halmic bigmmy" ideal. He obviously does not understand that, for every man who take a second wrife, there is a man left without any wife, and who, therefore, would offen patronise prostudes. I am a first aid he has been borne in the wrong country and in the wrong century. Let him pray to be re-born an Arab in Arabia—or a Mormon in Urah, USA.

7. Dr. Moghni tinisk that "Muslim rulers in mediaeval India did not force conversion to Islam" is say many Muslim rulers forced conversions in a variety of ways. As evidence I can quote all the Muslim historians. If Dr. Moghni thinks that all these historians were liars, let him say po—and prove it. And let him repudiate the Muslim claim that Muslims have a ense of history, and that Himods onto have it.

8. The learned author says that only such parties should be banned as have a communist stard-point—and not those which may have only a one-community membership but which have a "universal ideolog" between the simple words, he is saying that 1819 should be banned but not Mustlim. League. I need not waste any words on such naivete. I can only say this; If wishes were horses, donekys would ride them.

9. Also Dr. Moghni does not favour any ban on foreign funds. He wants ban only on harmful actitivities. Who is to decide what activity, financed by foreigners, is harmful, and what is not? Dr. Moghni?

10. The learned author thinks that it is quixotic to think that any great of Pakistan will rejon India. Hindus considered Partition demand quixotic. Pakistanis considered Bangladesh demand quixotic. The coming orgetter of these several parts also sounds quixotic today: but it could be a really before this century is out. Let Dr. Moghni consult his fellow-galaris in Karachi. They say "we brought Pakistan into being and we will take it away." And where che can they take it, except to India?

He blames "Hindu narrow-mindedness" for Partition. Yes Hindus were certainly narrow-minded not to give 30%, Muslims "parity" with 70%, Hindus- or give Mr. Jinnah his "Corgidor", linking East and West Pakistan through Penjab, Haryana, Delhi, U. P. and Bihar, Perhaps Dr. Moghai would have called us broad-minded if we had conceded the one or the other. However, it is too bad that fablia can do without the certificactes of Moghains.

11. I suggested an amendment of Article 30 of the Constitution to enable Hindus also to set up schools like Muslims and Christians. What is his objection to that?

Some Muslim Indians have been born in the wrong country—and in the wrong century

12. The learned author wants to know what is meant by quoting doudniji to the effect that "there is in Hinduism, room enough for Jesus as there is for Mohammed, Zoroaster and Moses." I hope the meaning Sclear enough. But if Dr. Moghni wants further clarification, he will save to consult Gandhi for that

Dr. Moghni says Islam respects "all the true messengers of God". But who is to decide who are the true messengers—and who, false?

I am happy to hear that Islam directs Muslims not to abuse the abless worshipped by idolators. But does Islam permit them to destroy see delites? Let Dr. Moghni visit Chittor, see Vijaya Stambha—or any See ancient monument anywhere—and explain who disfigured those successions of panels, and why, is he prepared to condemn them?

And here let me tell my learned friend that the Hindu is monotheis without being monolithic. He believes in one God—but he also rerealises Him in all forms. It is this pantheism of his that makes him as tolerant, and as philosophical, as be is. Monolithic monotheism on the other hand can be very intolerent. It was the Turk's Islamic intolerance of Christian Greeks that caused Gladstone, Prime Minister of Britain, 10 say there would be no peace in the world unless the Koran was bund, Arnold Toynbee very much puts these issues in perspective when he says in 'Choose Life'.

"The Judaic religions Judaism, Christianity, Islam) have concentrated the element of divinity in the universe into a unique, omnipotest, creator god outside the universe, and this restriction of divinity has deprived nature—including human nature—of its sanctity. By contrast, in India and Eastern Asia, before the impact of the modern West, the whole universe and everything in it, including non-human nature and man himself, was drivine and, therefore, possessed, in human eyes, a sanctity and a dignity that have restrained man's impulse to indulge his greed by doing violence to non-human nature.

"The Indian and East Asian attitude is pantheism, in contrast to Judaic monotheism. In the pantheistic view, divinity is immanent in the universe and is transfused throughout the universe. In the monotheistic view, divinity is withdrawn from the universe and is made external to it; that is to say, divinity is made transcendent.

"At the western end of the Old World and in the Americas, the original local culture—the Middle American, Peruvia, Sumerican Graco-Roman, and Egyptian, and also the Canannite culture that was the Israelites' culture before they became monotheists—were of the same species as the cultures of India and Esstern Asia before the modern Weter impact. In all pre-Judaic cultures, everybeer, religion has been pantheistic, not monotheistic. The present adherents of the Judaic mose religion of Christianity are, all of them, ex-pantheists. This historical fact suggests that there might be some hope of their reverting the paratheists attitude, now that they have become aware of the badness of the monotheistic lack of renect for nature."

Let not Dr. Moghni make fun of "worshipping" stones, trees, animals. If Musiims can kiss the Qaaba stone, why can't Hindus go round trees, apply Sindhur to Shivalinga, or salute the sun and the moon?

Dr. Moghni thinks I am suffering from illusions and delusions. He could be right. For I think Hindus and Mustims can, and should, brought together; and obviously he does not think so—unless it be of Muslim terms. He accuses me of "advising Muslims to forsake their

geroes, their names, their distinctive features, their places of worship, seir dietary habits and adopt strange figures as their heroes and what are supposed to be Hindu colours as their flag". He says: "Mr. Malkani is at to demolish the identity of Muslims in free India."

This is not true. But I would certainly like differences, unrelated to signam, to be smoothed out, for a more harmonious occurience. I have not insisted on these changes; but I have certainly switch that a man can sea Muslim without being given a farm a man, in ligypy, Coptic Christians bear Arab. Egyptian names. Bulgarian in Huigary require their Mahanis has directed its people to give up. Arab. names, and gave, themselved off light names, and gave, themselved off light names.

Circumetsion is a Semilie practice—common to Jews and Arabs—and oran Islamic injunction. There is nothing Islamic about the Green Fags, which is Persian in its origins; the Problem ener carried a Green Fags. Thousands of temples were destroyed and converted into mosques; elementary decency demands that the more important of these are returned, to close that unhanny chanters.

If Hindus' enemies are Muslim heroes, no Hindu-Muslim dialogue is possible

Also Muslims do have social stratification—like the caste. There are Abrafa (superiors) and Arzals (inferiors); the Syed's son is a Syed, has Sheikh's, a Sheikh, the Khan's a Khan, and the Mian's, a Mian. They do not normally inter-marry. What else is caste?

Dr. Moghni says herces cannot be changed. But if Muslims insist an awaders and oppressors as their herces, no dialogue is possible. He ass that "Moshammed Bin Qasim was, still is, and will always remain, a sue hero and real beneficier of mankind. Contrarily, Raja Dahir was, as continued to be, and will rainably remain, a willain, and a scar on each of the continued to be, and will rainably remain and willian, and a scar on each of the continued to be, and will rainably rainab

However, for the information of Dr. Moghnis in India, with ideas these, they won't be happy even in Karachi, Pakistan. For Sindhi usilms have decided that Mohammed Bin Qasim was villain and Raja

Dahir, hero. Many Sindhi Muslims add 'Dahir' to their names. G.M. Syed, former President of Sindh Provincial Muslim League, has publicly vowed that the first act of a Free Sindh Government would be to rename Bandar (Port) Qasim. near Karachi, as Bandar Raja Dahir.

Dr. Moghni says that what we should do away with is communal disturbances, and not communal differences. He is right. But what do we do when differences assume disturbing proportions and lead to physical violence? Should we not, in that situation, reduce all unnecessary differences, which are no part of religion?

Dr. Moghni accuses me of assuming that Muslims are foreigners and that time has stood still since the twelfth century (the coming of Ghazni and Ghori).

I have not. We know that 99% Muslim Indians have no Arab, Persians or Turkish blood in them. The regret, therefore, is all the greater, that they should adopt foreign practices from Fez to Burqa to what not, that have nothing to do with Islam.

And as for time stopping still, it is Dr. Moghni who cannot think beyond the seventh century. He is not willing to respond to any suggestions for action towards unity.

He thinks that "Muslim" invasions were like "Aryan invasions" of an earlier age. The "Aryan invasion" theory was manufactured by the British to justify their own coming to India—and now Dr. Moghnis want to use it to justify Ghazin and Chori, Qasim and Timur. Two lies don't make one truth. There is no proof, literary, archaeological or any other for the "Aryan invasion" theory. Had the Vedie people come from any other fand, they would have certainly remembered it with fondess and mentioned it in their works. But all they tall the vedies in the Vedas is this "Deva niemita Desh", this land created by the works!

I have answered Dr. Moghni at some length because these are not his thoughts alone; these are the thoughts of many many Muslims. If I have succeedled in throwing even one percent light on the concerned issues, I will feel amply rewarded. I can only pray with Cardinal Newman.

Lead, kindly Light, amid the encircling gloom,

Lead thou me on:

The night is dark, and I am far from home,

Lead thou me on.

Keep Thou my feet; I do not ask to see

The distant scene; one step enough for me.

Needed Change in Growth Concepts and Science and Technology Patterns

-Sailendra Nath Ghosh

REDEFINING DEVELOPMENT, classifying sciences and technologies according to their nature and orientation, and re-classifying the countries in environmental erace our prime tasks. This is because the prevailing patterns of science technology and growth are propelling markind towards mass impoverthement and also creating a survival crisis for all societies of life on this single-

Development has to be a more inclusive concept than mere adustrialization or economic growth measured in terms of Gross National roduct (GNP). GNP hides the relative magnitudes of life oriented assets and the life-destruction-oriented arsenals in the national economies. By in secund on the aggregate, it tends to disregard the stratum-wise distribution of income. Therefore, this cannot be an index of the society's health, Development needs to be defined in terms of () universal accessibility to bealth-giving food, unpolluted air and water, hygienic clothing and shelter; (d) enhancement of the resource base while improving the yield; (iii) stirefance, and optimal utilisation of the potential of each locale, region and the nation in the perspective of better use of coologisal resources; and (w) harmony between the individual, the family and the society. This redefinition has become necessary.

(a) because development is being directed to (i) producing crops in bulk at the cost of their nutritive value and by loading these with residues of poisonous chemicals and also by disrupting the very basis of production; (ii) producing manifactured goods through 'technologically more efficient' but ecologically more destructive processes:

and

(b) because the current perspectives, programmes, and methods of development are all increasing the inequalities and marginalising the people.

This redefinition is necessary even for a reiteration (i) that the occurre of development is optimising human happiness; (ii) that this, turn, depends on the enlargement of freedom for all groups of people 4(ii) that this, again, depends on the wellbeing of all species of life eds aggent of the habitat. Further, development implies cessation growth in certain aspects and opening up in certain other respects. While animal bodies continue to grow up to a particular age, the growly, of the size of the brain, the heart, liver, splene, lungs etc. cease to grow much earlier. Their growth beyond a certain measure becomes, in medical term, 'enlargement' problem, a disease. Even when memory power stop, growing, intellection continues to grow and widom based on maturity of experiences starts filtering in. In a society, too, armaments must stop at a particular level; high-complexity machanical tools, too, must stop at some other level. Only then can there be true development. Freedom from both attrophy (of limbs) and entropy is sessantia for happiness.

Redefinition of development, as suggested above, will show that most of the allegedly developed countries are in fact maldeveloped

Then, to the question of science and technology. In the same as Plato had classified four stages of perception, science needs to be classified into two broad orders—() the science which seeks to discove the hidden harmonies of Nature, for which acute observations, unending queries, cognition, deep reflection and intuitive thinking are of prine importance; and (ii) the kind of science which seeks to understand Nature merely through mathematical laws and numerical relations. Science needs also to be classified according to cosmologies. There is one kind of science which is pursued with a mechanomorphic view of the universa, in which Nature is sought to be studied in the manner the machines are studied, i.e. by dismantling it into their minutest parts. This is a science which is dismantling it into their minutest parts. This is a science which seeks to study Nature the organismic way which recognises that the parts are in the whole, and the whole is in the parts, interacting on, and modifying, one another.

Contemporary science is predominantly reductionist, It studies reality in fragments and yields fragmented knowledge. Vet, the over-whelming majority of its practitioners claim that this science holds monopoly of objective truth. The propensity of this science to "manage" Nature runs far hand of its cagerness to understand Nature. It fails to see the bounteounness in Nature. Hence it applies force to squeeze more but one but only the property of the property

The companion of "reductionist" science is "nature-conquering technology which, in the name of extracting a larger quantity of a particular product, succeeds only in disrupting the whole nexus of production base and life-support system. Thus, it undermines the basis of all life burst the poorer people more. This gener of technology is very different form nature harmonic technology which is allied to organismic science.

There is immense scope for the latter kind of science and technology if we approch Nature lovingly and seek to understand her own technology and principles.

The distinction between these two kinds of sciences and between two very different gene of technologies is essential if we are to counter the disastrous trends. We would need to return to this discussion later to see why one is inherently destructive while the other is pregnant with beeneficial possibilities.

Reclassification of the countries in biogeographical and environmental terms is seential for a variety of reasons. The present classification—as "developed" and "developing"—is wrong, for reasons stated earlier. Classification and developing"—is wrong, for reasons stated earlier. Classification and the "first world", "second world", "third world", on, is wrong. For such eategorisation silently convey; two false notions, ones, that the "second" and the "third" worlds would need to look for the consumers and the pattern of development—of the "fest" world. Two, that members of the so-called first world have permanently solved their problems of material existence and that there is title chance of their slipping back. The truth is that these "first world" countries are imappropriate both as models of consumption and patterns.

Most of the "developed" countries suffer from mal-development

development; and it is probable that some of them will turn out to be seased and paramoid societies, unworthy of the world's respect. Whether is will happen on account of any nuclear, chemical or biological mis-destructor, or because of a high percentage of frustrated, love-lora people within their society, or due to multiplication of AIDS-like afflictions, one can say. But there is no doubt that decline cannot be resisted where the analysis of the state o

It is much better to accept the classification which Nature has given a terms of climatic regions. Nature-based classification is, in any case, a term of climatic regions. Nature-based classification is, in any case, a term of the classification in the properties of the countries—superate and tropical. Their soil characteristics are different; wind Nutterns are different; pollination patterns are different availability setterns) are different; pollination patterns are different.

Since the subject of our discussion is the Third World, which I call the tropical world, it will be pertinent to discuss these basic differences in a little more detail.

The soils in the tropics are poor in organic matter because this organic matter decomposes quickly under the impact of high humidity and temperature which induce high microbial activity. As against this, the organic matter status of the soils in temperate countries is much higher. As to rainfall, it is distributed somewhat evenly *throughout the year in the temperate regions. As against this, in humid tropical countries, there is torrential rainfall for 3-4 months and then there is a large dry spell under which the soils become parched and turn into hard cakes, which means, they tend to erode away fast during the next heavy rains. While the winds in the temperate countries normally have a higher velocity, those in the tropics are fitful. Except in the coastal areas and foothillsand except during the hurricanes in cetain parts of the year-their velocity is generally lower. While the pollination in temperate countries is mostly windblown, it is mainly through the agency of insects in tropical countries. Which means, if the insects get killed by pesticides, the pollination itself will suffer, causing far greater loss in the tropical countries.

The tropical ecosystem is far more finely balanced: it found stability through a much longer chain of inter-connectedness. The humid tropical rain-forests add another dimension. In one patch of a tropical rain-forest, there may be a much larger number of species than in the whole of the U. S. A.

From this, it follows that if you apply Nature-conquering technology in the tropics, it will have a disruptle effect over a much vaster spectrum, in far too many interacting spheres. Nature-conquering technology is no doubt harmful in the temperate climatic zones. But, in a tropical environment, it is far more ruinous. The devastation in the tropic is also much faster.

Temperate countries have been using chemical fertilisers for quite a few decades: yet, it is only during the last one or two decades that their ill-effects have been causing great concern there. But in the tropies the devastation came to be felt after just two decades of their use.

In the humid tropies, Nature provided earthworms and termites in far greater abundance as builders of the topoil. Here, the floating ferns and algae too are abundant as builders of soil fertility. The use of eleminal fertilitiers and pesticiets for only three decks has decimated these beneficial species. The structure of the soil has been greatly damaged. The carbon-nitrogen ratio in tropical soil being very low, only about 30 percent of the nitrogenous fertiliser can be absorbed: the rest gets released to the atmosphere as nitrous oxides.

its temperate countries, the amount of release is much lower.) In we expoise, the chemical fertiliser applied to the soil gets washed down acc anals and rivers, or leached to the groundwater level much quicker. Benes, the pointoning of surface water and ground water is much higher in the tropies. The pesticides applied in the tropies break down into components due to photochemical effect and these broken-down products, antend of becoming innocuous, find an easy entry into the biological systems. This is why the accumulation of the pesticide components is much greater in the animal—including the human—bodies in the tropies, causing concer and many other full disease.

All these should show that transfer of technology is a wrong slogan, it husts the recipient countries more, by launching them on a development track which is very different from what is needed in their environment. The tropical countries on on their own technology environment, The tropical countries of the state of

"Modern" science and technology hurt tropical countries more than temperate countries

Between the tropies and the temperate countries, there ought to be collaboration in sciences as distinct from technology. Even in science, this collaboration has to be with the pursuers of organismic science—that too, after each country has studied its own environmental resources, defined the people's needs and the science questions arising therefrom.

Role of S & T Philosophy and Methodology in Moulding the Society

Karl Marx was right when he, in his "Poverty of Philosophy", said :

"In acquiring new forces of production, men change their mode of production, their ways of earning their living; they change all their social relations. The handmill will give you a society with the feudal lord, the steam mill a society with the individual capitalist."

This was clear recognition that the inclination of technology governs the foundation of ecnomic structure. In the twentieth century when technological inventions are proliferating, this technological

^{*}To be precise, it could be said that in temperate countries, the season-wise distribution of rainfall is "much less uneven".

orientation should be understood as the orientation of the technological spectrum. Unfortunately, Marx's followers, from Lenio onwards, overlooked its implications. The seeds of this oversight lay in certain agas in Marx's own formulations. He did not take his idea to its logical conclusion. Whereas he talked of the relation between the structure and the superstructure, he failed to articulate that the orientation of the technological spectrum decides the nature of the highestructure which ultimately influences the structure and the superstructure.

There are different kinds of sciences and technologies. There is a kind of science and technology which strengthtens the grip of the vested interests. There is onother kind which liberates the common people from the grip of the vested interests.

Let us now see how the philosophy and methodology that govern science today makes it, and its companion technology, inherently elitist and anti-poor. It is necessary to go into this investigation

 (a) because there is a wrong notion that while technology is value-loaded, science is value-free

and

(b) because it is impossible to uplift the poor nation, and the poorer people within any nation, without changing the direction of scientific and technological efforts.

Modern', i.e., post-Baconian science has been following the philosophy of conquering nature. The methodology that it has been following sophy of conquering nature in methodology that it has been following is Descartino, which was reinforced by Laplacian model of mathematism of the property of the prop

None of these, methods would appear exceptionable to common sense logic. The study of facts without any bias was necessary in the context of (i) the then prevailing tyranny of referring to the scriptures of every conceivable matter, even against the evidence of observed facts and (ii) the dominance of scholasticism and the Greek philosphera' tradition of 'pure' speculation which was producing barren controversies. But too, had revolted against this tradition. Descartian methods were undoubtedly a liberating force in those days.

But as often happens in history, the vehicle of progress in the 17th century became a fetter on the progress of science later. Separating facts from bias came to be understood as divorcing facts from values (i. e., valuational censideration). This stripping of values later became the excuse for the destruction of reverence for life. Value-free-ness of method became the apologia for acquiescence in destruction-oriented pursuits, for everything could be blamed on the methods to cover up the scientist's own sins. Habits of study in parts gave rise to the idea that the sum total of studies in parts, with some allowance for synergism, could yield knowledge of the whole - an idea which is utterly false to life processes and is hence a misguidance to sciences concerning not only plants and animals but all natural resource systems-soil, water, forests etc.-which vibrate with life and interact with living organisms. The original emphasis on mathematics, which was designed to promote exactness to the maximum possible extent, led to the dictum that 'there is no reliable knowledge without quantification."

We should divorce facts from bias, but not from values

The obsession for fitting knowledge into mathematical equations now consumes so much of the science researcher's energy and attention that little time and effort is left for direct observation of Nature. All research has been reduced to tool-dependent research. The importance of keen observation of the surroundings has been devalued. The familiar world of life's every-day experience has yielded to mathematical abstractions.

What is even more objectionable is that concern for quantitative swimation has prompted (i) the taking up of only those aspects which are anneable to quantification and (ii) the avoidance of those objects/fevels when are subject to many interacting forces merely because the complexity of these interactions makes factorwise quantification well-night unpossible. This avoidance receives support from guidelines that study should commence at the simplest level.

This has virtually meant postponing the study of life at the cellular and organismic levels 'until the molecular code has been completely cracked'. Plainly, this is running away from the study of life processes which keep acquiring newer and newer properties at every higher stage in the level of

organisation—properties which are not merely additive but introducers of subtle qualities.

A science which is based exclusively on the philosophy of study ing all phenomen of Nature in parts (in the manner a machine is studied) and hardly ever intercelates them holistically, is bound to give wrong leads to all activities concerning soil, water, forests, crop plants and human and/or other animal body functioning; and it is on these that the people's welfare mainly depending.

The plight of reductionism was best expressed by the venerated scientist. Albert Szent-Gyorgyi: "Those who like to express themselves in the language of mathematics do well to keep to lower levels but we must not lose our bearings lest we fall victim to the simple idea that any level of organisation can be understood by pulling it to pieces, by a study of its components, that is, the study of the next lower level. This may make us dive to lower and lower levels in the hope of finding the secrets of life there. It made my own life a wild goose chase...For twenty years I worked on the molecular level. These studies netted me a Nobel prize...but left me without a better understanding. The more I knew, the less I understood; and I feared that I would end my life knowing everything and understanding nothing." His message was: "Even if we limit our work to a single level, we have to keep the whole in mind." This is what the practitioners of reductionist modern science just do not do. Hence the resulting product is turning out to be fragmented science, which is non-science,

Modern science started as a reaction to the Aristotlean philosophy. according to which the whole dictated the parts. Aristotlean philosophy had led to neglect of the study of the constituents. Modern science sought to correct this neglect. But its over-emphasis on the prior study of components to the minutest detail and particularly its concept that the universe and all material objects therein could be studied by treating them as machines and dissembling their parts, has been responsible for neglect of study of the integrative processess in Nature. As a result, studies of biological processes and ecoystems have been perverted. Yet, it is on these that people's lives mostly depend. Modern science's quantitative yardsticks-mass, velocity, pressure, temperature and the fields-are 'sufficient' for the knowledge of the physical world, namely the celestial bodies in motion, the machines on earth, and the inanimate matter around it. This method suits the study of non-life processes and, at its one remove, life-destruction-oriented machinist processess, both of which fit admirably with the concept of power. That is why modern science has been most productive in military devices and its civilian fallais including high-speed transport and communication system. Since gashnim has got embedded in the very method of modern science, it is embined as got embedded in the very method of modern science, it is embinisted in the second property of the second property of the second property of the second property constitutes. It always favours big projects and complex technologies. The embedded property is an embined to the second property of the second property

Lenin had made the mistake of adopting the Western pattern of cachology and seeking to compele with the Americans in the latter's and of technology. This ensured the defeat of the Soviet promise of a sex kind of a dividuation. Today, the Soviet Union's life-tyle, farming exhiques, industrial technology, bergy use pattern, transportation acts, architectural pattern are the same as those of the USA; the values

We experiment in the laboratory but don't see life around us

this genre of technologies impart are centralist and authoritarian. These machinism-oriented solutions vest the control over resources in a few hands. These can never bring people's prosperity or enlarge their realm of freedom.

Destruction Caused by Reductionist Science

REFORE we explore the philosophy and methodology of alternative science, it is necessary to see how reductionist science, un-complemented by findings from other disciplines and experiences of the people, has been causing destruction. The practitioners of this pattern of science taught us that irrigation, even flush irrigation, is important for high productivity but remained silent about drainage. The result has been failed to notice that it reduces the river to a series of still-water lakes, obstructs the river's basic functions of serving as the drinking water source for population centres and carrying toxins to the sea. They are converting each river's basin to a series of enclosed sub-basins for salt build-up. They propagated high-yielding varieties of seeds, ignoring that this meant high-cost, high-variance and hence high-risk farming whose crops are nutritionally inferior, with poor keeping quality. They reduced the diversity of crops and thereby turned innocent insects into pests and then advised us to use pesticides, forgetting that these would find their Way into the food chain and accumulate in our bodies giving rise to

cancer, encaphalitis etc. They keep prescribing the use of chemical fertilisers for crop production but ignore the most obvious fact that this ruins the soil and pollutes the water everywhere, but much more in the tropics. They also forget that in the tropics, the major portions of these fertilisers secape into the atmosphere, releasing nitrous oxides which price the exone layer. In the name of increasing the yield of a monocrop, it disrupts the entire nexus of subsistence crops. In the name of investeds and aquatic life, thus affecting not only untold species of livesteds and aquatic life, thus affecting not only untold species of livesteds and aquatic life, thus affecting not only untold species of livesteds and aquatic life, thus affecting not only untold species of livesteds and family discontinuous common people's supply of milk, meat and fish. Reductionist science fails to see the nexus between soil, seed and forests; between human beings and other species of life.

The practitioners of reductionist science are in pursuit or 'higher efficiency for industrial processes', forgetting the basic principle that the higher the 'process efficiency', the more entropic it is. They fix their gaze on an industry's productivity, forgetting that this may drastically affect the biological productivity of an ecosystem. They talk of more and vet more electricity, without any concept of ceiling in its use, forgetting that high-voltage transmission lines cause corona discharges inducing high incidence of cancer in the neighbourhood. They "cure" diseases of one part of the body creating graver maladies in other parts. By injecting hormones in the name of inducing stronger labour pains for ease of delivery, they often create conditions of shutting out oxygen supply to the foetus, necessitating caesarian operation. Application of the 'scientific technology' has been extinguishing many species of life; yet, undeterred, they go on promising that they would compensate by creating new species of life. One wonders whether they think they have the power to ordain the co-evolution of all species of life.

The fantastic nonsense which the practitioners of this brand of science can be gleaned from a specimen of one 'high-tech' protagonist who, in our country, has been the chief of several 'technology missions'. Sam Pitroda, in an interview to a journal, Gentleman, said.

"Today, the amount of food we eat, the amount of human waste we creat and the amount of sustemane we draw from food, is brusted on an intelligent muchinery. Why should we wish the tollet twice a day? Because, you kind the input-output has so to been balanced. Bot verbancings is going to re-engine this. I know of a lady who lived on a pill a day, as an experiment, for less months and emerged completely normal. We know how to create laws to be a longer by couching certain parts of the brain and we also know how to the bottom of the country of

lining in the stomach. No matter what the child eats will then get converted to proteins. This will wipe out malnutrition".

This means, for nutrition, all that you need is protein! No need for other nutrient pull for preventing budges do not matter! Pill for preventing budges, the prescription possibly will be z'only a few drops to prevent feeling thirsty'. Such are the gems which come from auture-conquering science!

This pattern of science has created a mentality that Nature—and the wast masses of humanity—should be conquered in the cause of progress." Darwin's perception that there is only competition for a statement of the statement of t

"The more I knew, the less I understood" said Nobel Laureate Albert Szent-Gyorgyi

machinistic world view, fed by reductionist science, can only keep producing wastes, for it breaks all of Nature's wholesome principles.

Nature's Principles and Processes

The basic principles which need to be particularly noted for choosing our pattern of living and strategy of socio-economic activites are as

I. Nature is a whole piece, as intact as a cell, in which everything an close linkage with everything else. The infinitely small particles, the sergy grains, form into atoms, molecules, compounds, colonies of gaussians and finally into the apex of the ladder, Man. Then, the indivi-

- 2. Nature does not tolerate the uncontrolled growth of any one sizes in relation to the other species of creation and to the 'earrying specify' of an ecosystem. Forced increase of any species or of the 'carryexpacity' of the ecosystem' is followed by an inevitable decrease, as a possible of the control of the contr
- 3. The biochemical systems exchange matter with their surround-

(i. e., sharing) between living things and their environment, as also among all things living in that environment. An intricate web of interaction connects all life in an area into one vast self-maintaining system. Its each part is related to every other part and each is related to the whole

4. Recycling, symbiosis and antibiosis are the fundamental process through which Nature maintains its creation. There is recycling between land surface, water surface and the atmosphere in the global system as well as in the micro-environments. There is recycling between soil, plant and animal kingdoms. The hydrological cycle and the cycles of minerals are different aspects of this recycling process. The energy down are not exactly cycles, because the used energy gets degraded and become entropic. Then, there are symbiotic and antibinier relations between plants and plants; organisms and organisms; plants and oil organisms, plants and mainly, and between mankind and Nature.

- 5. There is no enjoyment without a price.
- 6 There is stability in diversity

Each of the above principles has a message for the pattern of living and acquiring life's sustenance.

These principles open up prospects for the liberation of the oppress sed. These suggests that holistic understanding of Nature can give clus to simple, inexpensive but efficient techniques with long-lasting beneficial effects, which nobedy can corner to deprive the most proportion of the open consumerstanding of Nature, the great the capacity to devite simple techniques accessfully to the under the capacity to devite simple techniques accessfully to the temper privileged.

In short, mechanistic science lends the way to development based on maga-industrics: it makes even agriculture dependent on chemical fertilisers, chemical pesticides, electricity from large power plants, irriguitor water from bije dam-connected trunk canals, diversity-reducing crops—all of which lead to pollution of air and water, and toxicity of the soils. As against this, holistic science shows the way to nitrogen fixation through biological agents:—legumes, floating ferns, blue green algae and may be also the soil of the soils. As a soil of the soils were also the soil of the soils of the soil of the soils of the soil of th

productivity through diversity, inter species balance, and the processes of excycling, symbiosis, and antibiosis. In the light of this, industry and agriculture are to get linked in a humanistic and environmentally protective way. This way, thorough-going environmentalism and 'poverty eradicasion merge into one programme of human liberation.

A major aberration from this holistic understanding deserves particular meation, for it has found a niche even in the politico-economic
ideology of some "socialist" states and is not limited to capitalism,
interestingly, this aberration came about despite a sharp pointer from
AIT MAIX, whom these states accelaim as their mentor. Marx had considered manufacture based on the division of labour 'a converter of the
abouter into a crippeld monastrosity', a fragmentation of man, an "assassination of the people." This was despite the fact that in Marx's time the
arge industries were much smaller than those of today and the division
of labour tien was much less. The soviet states have accepted this aberraion because once one embraces the given pattern of science, there is no
escape from this inequality-promoting, dehumanising, and anti-recological
course.

Sam Pitroda does not understand bio-systems one bit

Redemption from this disastrous course lies in taking the one from me great insight of Marx, which Isline with the miles of Kropetkin, Tolstoy, Gandhi, Thorau, Edward Carpetter, William Blake, Akabadranath Tagore, Marx had said that "Mar attendermation of sonomic basis, the entire enormous superstructural control of successive and the state of the description of the state of the

Hence the task of the holistic science would be to open up ways of solitang (1) the free gifts of Nature—the azoltas, the blue green algorithm of the state of th

(i. e., sharing) between living things and their environment, as also among all things living in that environment. An intricate web of interaction connects all life in an area into one vast self-maintaining system. Its each part is related to every other part and each is related to the whole.

4. Recycling, symbiosis and antibiosis are the fundamental process through which Nature maintains its creation. There is recycling between land surface, water surface and the atmosphere in the global system as well as in the micro-environments. There is recycling between soil, plant and animal kingdoms. The hydrological cycle and the cycles of minerals are different aspects of this recycling process. The energy down are not exactly cycles, because the used energy gets degraded and becomes entropic. Then, there are symbiotic and antibiotic relations between plants and plants; organisms and organisms; plants and minals; and between mankind and Nature.

5. There is no enjoyment without a price.

6. There is stability in diversity.

Each of the above principles has a message for the pattern of living and acquiring life's sustenance.

These principles open up prospects for the liberation of the oppress
ded. These suggests that holistic understanding of Nature can give clues
to simple, inexpensive but efficient techniques with long-lasting beneficial
effects, which nobody can corner to deprive the poor, In fact, the demonotonic moderaturality of Nature, the greater the capacity to devite simple

In short, mechanistic science leads the way to development based on mega-industries: it makes even agriculture dependent on chemical fertilisers, chemical posticides, electricity from large power plants, irrigation water from big-dam-connected trunk cantals, diversity-reducing cropposal of which lead to pollution of air and water, and toxicity of the soils. Against this, holistis science shows the way to nitrogen fixation through biological agents:—legumes, floating ferns, blue green algae and many others; soil enrichment by composed waste productive, through intercropping and crop rotation; pest control through diversity maximisation of food basket through multi-varient crops and multi-pronged culture—in which forestry, agriculture, borticulture, animal burbandry, poultry farming, fish culture all get intervowen, one settle thening the other. The variegated needs of human beings, as also of other species of the, fit admirably into Nature's system of maximum bio

productivity through diversity, inter species balance, and the processes of eccycling, symbiosis, and antibiosis. In the light of this, industry and agriculture are to get linked in a humanitic and environmentally protective way. This way, thorough going environmentalism and 'poverty eradication merge into one programme of human liberation.

A major aberration from this holistic understanding deserves particular moniton, for it has found a niche even in the politico-economic ideology of some "socialist" states and is not limited to capitalism. laterestingly, this aberration came about despite a sharp pointer from Raff Maxx, whom these states actain as a their mentor. Marx had considered manufacture based on the dividion of labour 'a converter of the blowner into a crippeld monarisority.' a fragmentation of man, an "assassination of the people." This was despite the fact that in Marx's time the arge industries were much smaller than those of today and the division of labour then was much less. The soviet states have accepted this aberration because once one embraces the given pattern of science, there is no escape from this inequality-promoting, dehumanising, and anti-ecological course.

Sam Pitroda does not understand bio-systems one bit

Redemption from this disastrous course lies in taking the cue from one great insight of Marx, which tallies with the insights of Kropotkin, Folsoy, Gandhi, Thorau, Edward Carm, William Blake, and Rabindranath Tagore. Marx had did that "March a transformation of conomic basis, the entire enormous superstructure control to the state of the conomic basis, the entire enormous superstructure control to the state of the decidence of the state of the conomic basis, the entire enormous superstructure within the stake place? When new "production relations have matured within that by the state of the decidence of the state of the s

Hence the task of the holistic science would be to open up ways of usling (i) the free gifts of Nature-the azollas, the blue green algae and a host of others; (ii) the negaturopic processes in agrosylvinorized processes in agrosylvinorized processes in industry. And the obligations of the ecology movement is to show (i) box simple living is obligations of the ecology movement in to show (i) box simple living is

more healthful and (ii) how Nature yields more when our techniques are harmonic with Nature's technology.

Holistic Agriculture and Human-Scale-Technology-Based Industry

Experiments at several places in India, though on a very small scale, have proved that organic-cum-diversified farming can yield a larger food basket and protect the soil from water, and wind erosion and that this is more helpful to the subsistence of the local community. A switch from chemicalised farming to ecological farming showed an initial drop in the yield at some places but the production picked up thereafter. Feological farming no doubt requires greater care but the products are all tasteful. What is more, no such cropping adversely affects any other culture as chemicalised rice cultivation does to fish culture or milk production. There is a widespread feeling that the organically grown food has greater percentages of nutritionally desirable constituents. Although not much analysis of the nutrient compositions of the organically grown and the chemically produced foods has been done in India, reports from other countries tend to suggest that the people's belief in the superior biodynamic properties of the former is based on facts, apart from their own sense of wellbeing. That the keeping qualities of the organically grown foods is far superior is acknowledged by all.

enter in the traditional farmers' experience, handed down from generation to generation in incoclinate management is a kind of "people's science", unknown to the modernists. These include mild manipulations; planting of companion copes preaking of soil clost to produce a fine tilth and soil male has the epoperum of the companion of the produce a fine tilth and soil male has the epoperum of the produce and the soil management is a single produce and the produce and the soil management of the produce and the soil of the produce and the soil of the plant foliage lengthwise to allow the direct sunsightly and outside aside the plant foliage lengthwise to allow the direct sunsightly and outside and the plant foliage lengthwise to allow the direct sunsightly and outside the plant foliage lengthwise to allow the direct sunsightly and outside the plant foliage lengthwise to allow the direct sunsightly and outside the plant foliage lengthwise to allow the direct sunsightly and outside the plant foliage lengthwise to allow the direct sunsightly and outside the plant foliage lengthwise to allow the direct sunsightly and outside the plant foliage lengthwise to allow the direct sunsightly and outside the plant foliage lengthwise to allow the direct sunsightly and outside the plant foliage lengthwise to allow the direct sunsightly and outside the plant foliage lengthwise to allow the plant foliage lengthwise the plant foliage

India's traditional farmers seem to have been familiar with the growth process; in correlation with lenar phases but this skill came neat to vanishing point with the enstaught of modernism. But, with new thinking in science which goes beyond reductionism, interest is growing in the rhythmical movements of the planets, both in relation to each other and the zodies, and their correlation with sowing, planting etc., as expessed in the difference in yields. It is possible that this will lead to a superior science for biodynamic agriculture. Even when its contours remain din, there is no doubt that holistic organic farming yields more, and with much lower inputs and lower risks. Hence its fruits can be shared by the community, Of course, side by side, the trend of living in organic relationship with the proposed process of the proposed process of the proposed process of the proposed process of the process of the

In industry, the production units need to be governed by what shahmad Gandlo called "human scale rechanolys". There has to be a gant on their size, because dinosaurian existence of forces is not in agent with ecology of edemocracy or people's gainful empotential to act in accord with ecology because often the larger units increased concentration exponentially. The "economy of larger scales" for further grounding times and in financial terms, gets eclipsed by the decline in the ecosystem groductivity and people's health. Although the larger units tend to claim to have provided employment, often their contribution to "employment adaptement" in much more. When industry is geared to meeting people's needs and not to conquering Nature or other nations, the placement of mustures or meaning the placement of mustures on the output of the placement of mustures on the output of the placement of mustures on the output of th

Holistic farming and people-oriented industrial technology will need specified from holistic science. Holistic science does not mean dismantling the laboratorics doing reductions studies. It means integrating their securits to organismic studies and people's experiences. Holism is to be based on the understanding (i) that the whole is a contingent structure, which is in continual interaction with its own parts and with the greater whole, of which it is a part, and (ii) that neither the whole nor the part completely determines each other.

Marx said division of labour could lead to 'assassination of the people'

Ability to develop inaspensive devices for people's uses requires far desper understanding of Nature. An example of this is the dew point technique's which yields potable water in hundred of thousands of diches in larged by tapping the water vapor floating in an during the nights. This was the result of deep understanding of engeckange between the sard's surface and the atmosphere. The technique of focusing unlight directly on motion carbonnes. The latest technique of focusings unslight directly on motion carbonnes and cased and do not not received by the said is yet another example of deep understanding. With deeper unights into soil fertilisation by natural agents, new cultural practices will use into being in place of complex machines.

Yet, the question remains: what do we do as long as there are fears of facing aggression? Does not defence require reductionist science?

Defence has to have a moral dimension. The role of universal love and ideological dialogues at international levels will have to grow, even as measures of defence. Moreover, democracy at home and universally lared prosperity within are the most potent means for disarming the "Aversary.

A Postscript

The foregoing discussion ought to make it obvious

- (i) that the philosophy of conquering Nature must yield place to the philosophy of knowing Nature's ways and of being harmo-
- nic with these (ways/principles):

 (ii) that it is suicidal to limit science to reductionist studies and/or to anold lines of research where quantification is well-nigh impossible on account of numerous interacting processes and integrative linkages;
- (iii) that the mechanomorphic world vision needs to be replaced by an organismic/holistic world view, tempered with the understanding that neither the whole nor the part completely determines each other and that the whole is in continuous interaction with its own parts and also with the greater whole, of which it is a part!
- (iv) that the test of superior understanding of Nature is the ability to develop unexpentive devices which can be impreceptibly intersooren with the texture of life. Machinism and the use of manufactured product where simple devices can do much better on a wide front is, in fact, an index of poor science—the product of a tendency to do violence to Nature;

 (v) that the simpler the techniques to harness Nature's bounties, the greater the scope to universally shared prosperity far removed from elitism, corporate centralism, statist centralism, and authoritarianism.

A question could still be asked: why holism does not make a consistency of the country of the co

A few examples will make this amply clear. The holistic vision of James Lovelock canabled him to visualise the evolution of organisms and the evolution of the material Earth as a single lightly coupled posts and, thereby to perceive (f) the self-regulation of the climate and (ii) composition of the air, the occan and the rocks as properties emerge automatically from the tight coupling of the living organisms and the material emironment. This led him to think of inventing a number of sensitive detective devices, of which the electron capture detector was one. His success in making this invention, however, depended on the application of requisitionist existence. It was this electron exputure device that under it obvious that pesticides such as DDT and Diedrin have come she distributed throughout the global comment. These basic data, in turn, enabled Rachel Carson to write her classe, "The Silent Spring", such spurred environmentaling and a monetonearchies.

Similarly, the invention of the deep-diving device, bathyscaph, it has enabled mankind to prestrue the crean to a depth of 30,000 ft, and more, and has made the abysmal scenary to develop the court basin accessible out understanding of the super-deep many continues to enhance our understanding of the super-deep many court to the moon, and the super-deep many court of the moon, and the super-deep many court of the moon, and the super-deep many court of the super-deep many cour

The reductionist science which enabled the German physician, Dr. Frank Hartman to develop, the interment called "Lobe Antenna" to Generally a grid of the energy lines enumating from the earth's surface commercing our globe, helped more constrained the Earth's energy fields, by giving us insights (i) into the mysterious ceregy with autromota wis and all into the bursts of energy a full forwards earth of the sunset, has helped us enhance our bioenergy, our individual auras, and our yields and aprirated wellbeing.

Take, again, the sensitive instrument, ISAMS (improved stratoobsert and mesopheric sounders) which has very recently been developed 3 some scientists of the Oxford University for studying the upper atmosfere, including the ozone layer Immisst to build up environmental screens and may even stimulate serieomisst about an alternative siters of civilization based on—let me report—a different energy use for the original control of the original control origin

Instances can be multiplied.

What is needed is a flight from organicism to reductionism and vice streat. The two together take towards holism.

It is only when reductionist science remains blind to its adverse services on organisms and their surroundings that it becomes, in the scale of ancient Indian scriptures, "Rakshashi Vidya" (demonic sowiedge), which must be avoided at all costs.

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(L to R) Prof. K.K. Mittal, Nikhil Chakravarty, Tan Chung, KRM, Sailen Ghosh, Mrs. Tan Chung, Mukta Rani Roy.

China Today: A Wounded Dragon

THE DRI organised a discussion on 'China Today' on July 13. The main speakers were Dr. Tan Chung, Professor of Chinese Studies, JNU, and Shri Nikhil Chakravarty, editor, 'Mainstream'.

Initiating the discussion, Dr. Tan Chung said:

POR A LONG TIME, China had not known peace. From one point of view the last ten years have been the best in living memory. Many wheres of life had been opened up. Actually Gorbachov got his Glasnost idea from China, which successfully privatised much of the economy. This sudden opening up of a long-closed society has led to an explosion of Sepectations and the resulting frustrations.

India and China have had a different historical experience. Under Bettish rule, India faced. India faced and absorbed western induces and produced cultural defences. In the case of China, with the sception of big cities with Foreign Concessions, much of the country temained a back-water. Defeat and humiliation at the hands of a number of foreign countries left China demoralised. The Chinese began to Saink poorly of their own culture, which, in their thinking, had not been bille to protect them against foreign onslaushts.

In India there is a pride in the past. Ramsyana and Mahabharut are so popular. But in China nobody takes pride in Confucius, the greatest mind produced by China. In the absence of cultural defences, Chinese girls would do anything to get a visa for the West. It is a pathetic situation. We are face to face with the rape of China.

There is another factor: with the opening of China to Western induces, there is precocity of consumption; suddenly everybody wants energything, from whiskey to VCR. A recent cultural hit show ridiculed 'Yellow River' (Chinese) Culture and extolled Blue Sea (Western) Culture.

In meminded of an old Chinne classic; The dream of a butterfly,
Here them also become the butterfly, or
the butterfly has become himself. Today the Chinese dream of becoming
as rich as, say, be Americans. They think the West as be butterfly as
butterfly has become himself. Today the Chinese dream of becoming
as rich as, say, be Americans. They think the West as be sufficient to the
butterfly lay.

The Chiese government's goal was to quadruple Gross National Product between 1980 and 2000. They have already doubled their GNP—and registered an annual growth rate of 11%. The economy became overheated. Now there were two parallel economies—one planned and another free. Some people made lot of money. The favourite Chiese drink is Man Tal, rice wine. When its controlled rice was 2 Yuan, it was mostly sold under the counter to friends and relatives, or for a consideration. One Yuan is about Rs. 4. When the price was devanced the was rose to 150 Yuan. Now it is 300 Yuan a bottle. This is twice the monthly salary of a teacher.

In the new economy, fixed income groups have suffered badly. Professors have an annual increment of only 50 cents. The fine for spitting in public is also 50 cents. So Professors are heard saying that their annual increment is worth a spittle.

Before the recent troubles, there was a rumour that prices were going in the Proper table to banks, withdrew their suriays and bought things like mad. One follow would buy a dozen sewing machines, another would buy a dozen sewing machine. Another would buy a dozen sewing machine, another would buy a dozen sewing machine. The first own the proposed of the proposed of the proposed for the market! Nothing like this had happened or moder KMTM. disorderly regime. The Cultural Revolution had alternated the intellectuals. The recent ide of inflation and corruption farther alternate the intellectuals. When Russia held free elections the Chinese felt that they must have them too. The Chinese intellectuals folly backed the demand for elementary.

When students went on mass fast in Tienanmen, the Government just didn't know what to do. They had never visualised a situation like this. Nine hundred ambulaness were requisitioned to carry fasting students to hospitals; 2000 beck were readied for them. Students from other towns began to travel to Beijing without ticket. It was great fun for them: sught-seeing during the day and singing and dancing at night, with the cutzens bringing in food.

At a certain point the government lost its cool and you know what appened. Todgy China is a wounded dragon. The Chinese are known as 'Han' people: but Han is the name of a dynasty, not a race. The Chinese system is like the solar system. If there is no outrolling central authority in China, things will fall apart. When tills Roman Empire collapsed, it booke up into a dozen states. If full democracy is introduced in China, the country might spit up in fifty states, This is the problem.

Giving his impressions of China, Shri Nikhil Chakravarty said

HAVE VISITED China three times. Recently, I was in Hong Kong dom my way to Beijing when, suddenly, hell broke loose in Beijing. On June 4, all Hong Kong poured into the streets. Even rich Chinese, British and Indian businessmen, who never walk the streets, joined this demonstraion. I have never seen such a mammoth and moving spectacle in my life.

Hong Kong T. V. was covering the violence in Beijing live. And what they saw, burified them. For example, we saw Chinese tanks enter Tenamen with guns pointed straight, and then these guns savvieted right and left and fired into unarned people, standing peacefully. We could lear the sound of the gunfine and see this smoke and the blood on Hong Kong TV.

Hinshua is the Chinese news agency. Its Chief was doling out the official version. But two Hinshua newsmen met me privately and told me of the corruption and the lies. When I asked them for proof corruption in the following day they brought two officers from the Bank of China dowing the secret deposits of VIP families, including those of Deng's son.

The economic trouble with China is that while the government wantsol only hi-tech, the West was interested only in software like consumer liems. This whetted appetites. In just one year, prices roze 26% in China and 55% in Beijing. The fixed income groups felt crushed. A professor's solvey is 200 'Quana. Balt costs 60,000 Yuani, how can he ever get a

For the last few years some 30,000 Chinese students have been chinese scene. They became a new radical factor on the

And then there was the struggle for leadership. The same issue of Beijing Daily showed on the front page Zhao chatting pleasantly with students and Li Peng threatening action. Between May 20 when Martial Law was declared and June 3 when the government struck, not a single Chinese leader appeared on T. V. to calm the people.

Today, long-forgotten Long March Yennan veterans are being produced on T. V. to denounce the "counter-revolution". But these men carry no conviction with the new generation.

It is interesting to note that except for Cuba and GDR, no communist country has accepted China's "counter-revolutionary" theory. DR. MURTHY felt that the incompatibility of generations was a worldwide problem. He thought the lowering of voting age in India may also have disturbing consequences.

SHRI S. N. GHOSH said that all the talk about the prosperity of peasants as a whole in consequence of Deng's policy in agriculture does not earry conviction. He also questioned the wisdom of the Chinese leadership's belief that higher GNP would bring in commonly shared prosperity.

DR. TAN CHUNG said that there were no great inequalities of farmholding. Also rural industry was doing even better than agriculture. Many rural areas had developed so nicely that some city people were actually moving to villages.

PROF. K. K. MITTAI, said that China had made the mistake of producing many items for export before meeting the local demand. Earlier, poverty was being shared in China; now there was wealth, but it was not being equitably shared.

SHRI MALKANI said hat until the 1970's both India and China had growth rate of about 3%. He found it difficult to believe that an agrical growth rate of about 1% the found it difficult to believe that an agrical rate of the connection he questioned the correctness of Chinese statistics and quoted a Chinese economist saying that, for production purposes they counted their population as 800 million, but for consumption purposes they control the suppose that the product of the suppose they control the suppose th

DR. TAN CHUNG said that Chinese statistics had improved, and leading authorities had accepted Chinese claims.

In response to another question as to why, and since when, Chinese had come to reject their past, Dr. Tan Chung said that the denigration of 1919. In World War I, China and Japan both fought on the side of USA and France. But when Germany was defeated, its coinsies and concessions in China were not returned to China, but were handed over the contract of the contra



Chief Justice Dewan (Reid.) lighting the lamp and garlanding the portrait of Deendayalji. Also seen in the pix is Rusik Bhai.

DRI Samaj Shilpi Pariwar Shivir : The Paramount Role of Woman in Society

The Deendayal Research Institute held its third annual Samaj Shilpi Pariwar Shivir (Social Workers Families Camp) in Ahmedabad, on June 19-23.

Twenty-three families joined the camp and ten local DRI couples, led by Shri Rasikbhai and Shri Ashok Pandya, looked after all the arrangements Shri Rajinarain Kapur, General Sceretary of DRI, was Shri Ashiarain, Shri Sanjiy Shroff of Beed Project was Niyantrak and Shri Mahesh Sharma, DRI Secretary, was Programme-in-charge. Shri Yadav Rao Deshmukh, Organising Secretary, DRI, welcomed the

The day began with Bharat Bhakti Stotra, Dohas of Kabir and Rahim, and Ramdhun, Yogasanas followed.

In his introductory remarks at the inaugural session, Shri Mahesh Sharma said that ours is a male dominated society, although our scriptures and classics view the family as a chariot with two equal wheels.



Nanaji addressing the inaugural function. Seated (L. to R) Sumati Bai. Malkani, Justice Dewan, R.N. Kapur,



Sanjay and Surekha Shroff (Beed); Ganesh and Mridula Pathak
(Jainrahhagram).



Ashok and Lata Pandya (Ahmedabad); Suresh and Neelam Deshpande (Singhbhoom).

Maralam' stands for bravery, 'Zenana' fer weakness. And so even a poetes like Subhadra Kumari Chauhan, in praising the bravery of Rani Lakshmibai, described it like this: 'Mhoob ladi mardani w.h to Jhansi walt Rani thee'. He said that man must share in house-hold work and swman must do part of the outside work, for the two to understand each other better, and become equal partners in the family and in society.

Where man and wife do not share domestic and social work, there is no atmosphere of social work in the family and the children are not oriented to social service.

In the next session, Shrimati Sumail Bai Suklikar, Vice Chairman, solt the discussion on the position of women. Too offen, the said, aren in public life did not tell families what they were doing outside. Brey thought that women were there just to prepare food for them and their guests. We should all learn from the example of Mahatma Political who educated his wife so that the could instruct other women. See did not bother about the ridicule and even the abuses hurled on the Thuies by an ignorant public. Baba Amte has also involved his whole damily in social work.

This was followed by a frank discussion of the problem.

Manthan

Winding up the discussion, Shri K.R. Malkani, senior Vice Chairma, said that while we should resist consumerism, social workers should not impose their ideas on the young. Family harmony is essential, for mandor wife to be able to do public work. Bismarck, the maker of modern Germany, had said that he would not have been able to unite scores of German states into one Germany, nor successfully fought France and Austria, if he had not had peace and harmony on the home front.

He said that although the Indian family was facing many strains and stresses, it was in better shape than family in any other country. The model for the Indian family was Ramayan.

On 19th evening, the DRI held a big public function presided over by Shi B J. Dewan, former Chief Justice of Gujarat Hijb. Court. On this occasion Shri Nanaji Destmudh explained the DRI concept of integrated social reconstruction. He said that true development usant possible without self-help. The DRI, through fits various projects, and its methodology, was reawakening the poor people's sense of self-respect and self-help of the development usar.

The function was attended by a large and distinguished gathering.



Vijay and Padma Pujari (Nagpur); Appaji and Mangla Dhond (Beed).

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