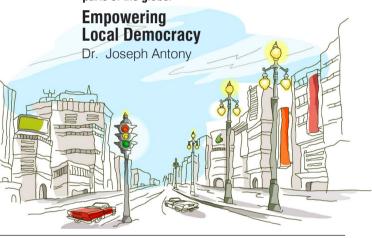


## ELECTION 2015 The high literacy rate has made our state the hub

The high literacy rate has made our state the hub of human resource, which we export to different parts of the globe.



WEATHER
Climate Change
Current Status & Stresses

Dr. Resmi L

REMEMBERANCE
The Walking Encyclopaedia
Sreevarahom Balakrishnan

AGRICULTURE
Ensuring Food and Nutrition
The importance of
Family farming

Dr. N Anil Kumar, Dr. K P Smitha

PARENTING
Cautious with
every step
Jaseena Backer

## **COVER STORY**

14 Challenges in Twilight Years Prof. Dr. P K B Nayar

18 Health Care
of the Elderly
Dr. Thomas Mathew

20 Diabetes in the Elderly

Dr. Jothydev Kesavadev

24 Caring with human touch
Dr. Sobha B Nair

44 BOOK REVIEW
Retrieving honour of
Malayalam Newspapers

P.K. Surendran

46 GARDENING
Grand beauty of
three generations
Suresh Muthukulam

FEATURE
Painting the Child Metaphoric
Strokes in the Wilderness

Dr. S K Prathap

34 OBSERVANCE For integration, Peace, Prosperity

Abin K I





OCTOBER 2015 | Volume 35 | Number 12

### Responses may be sent to Mail:

keralacalling@gmail.com Fax: 0471-2331793 ENQUIRIES

Editorial: 0471-2518648 Subscription: 0471-2517036

SUBSCRIPTION Payment for subscription can be made by Money Order addressed to the Director, Information and Public Relations Department, First Floor, Secretariat Annexe, Thivurananthapuram, PIN- 695 001. The subscription amount in cash is received at Information and Public Relations Department, First Floor, Secretariat Annexe, Thiruvananthapuram, PH: 2517036

- State Information Centre, Press Club Building, Thiruvananthapuram, Ph: 2518471
- District Information Office, Civil Station, Kudappanakkunnu, Thiruvananthapuram, Ph:2731300
- District Information Office, I Floor, Civil Station, Kollam, Ph: 2794911
- District Information Office, Ground

EDITOR-IN-CHIEF Mini Antony IAS
CO-ORDINATING EDITOR C Ramesh Kumar
DEPUTY EDITOR - IN- CHIEF A S Santhosh Kumar
EDITOR K P Saritha

ASSISTANT EDITOR C Rajesh SUB EDITOR Merlin J N CIRCULATION R Anilkumar DESIGN V S Prakash

DESIGN & LAYOUT R Ratheesh Kumar rash8590070404@gmail.com

PRINTING St. Joseph's Press, Thiruvananthapuram
Representatives:

New Delhi Dr. C Venugopal
Thiruvananthapuram C Suresh Kumar
Kollam K Abdul Rasheed
Pathanamthitta Kiran Ram
Idukki N P Santhosh
Alappuzha C Ajoy
Ernakulam T C Chandrahasan
Kottayam V R Santhosh
Thrissur Suresh Kumar P C

Palakkad C Ayyappan
Malappuram V P Sulabha Kumari
Kozhikode K P Abdul Khadar

Wayanad Rasheed Babu Kannur E V Sugathan Kasaragod K T Sekharan Total no. of pages 48 + Covers

Floor, Civil Station, Pathanamthitta, Ph: 2222657

- District Information Office, Ground
   Floor, Civil Station, Kuyilimala, Painavu,
   Idukki, Ph: 2233036
- District Information Office, Civil Station Compound, Alappuzha, Ph:2251349
- District Information Office, First Floor., Civil Station, Kottayam, Ph: 2562558
- District Information Office, Park Avenue, Kochi, Ph: 2354208
- District Information Office, Second Floor, Civil Station, Ayanthole, Thrissur Ph: 2360644
- District Information Office, Ground
   Floor, Civil Station, Palakkad, Ph: 2505329
- District Information Office, Civil Station, Malappuram, Ph: 2734387
- District Information Office, Civil Station,
   Main Building, Kozhikode, Ph. 2370225
- District Information Office, Ground Floor, Civil Station, Kalpatta North, Wayanad, Ph: 6202529
- District Information Office, Ground Floor, Civil Station, Kannur, Ph: 2700231
- District Information Office, Civil Station,
- Vidyanagar, Kasaragod, Ph: 255145

   Information Office, Kerala House,
- 3, Jantar Mantar Road, New Delhi, Ph:23343424

#### **EDITORIAL MATERIALS**

Articles/features appearing in this magazine are either commissioned or assigned.

Nevertheless, other articles are also welcome. A maximum of 750 wordage is appreciated.

Such items should be addressed to

The Editor
Kerala Calling
First Floor, Secretariat Annexe, Thiruvananthapuram. PIN 695 001
These may also be e mailed to
keralacalling@gmail.com

Unused scripts or photographs will be returned if self addressed envelopes having sufficient postage stamps are also sent with the articles

VIEWS expressed in the articles published in Kerala Calling are not, necessarily, those of the Government. Kerala Calling welcomes free expression of divergent views and exchange of ideas through its pages.

TO SUBSCRIBE send

Rs. 120 as money order to
The Director, Information & Public Relations Department, First
floor, Secretariat Annexe, Thiruvananthapuram,
PIN 695 001.

#### **EDITORIAL**



## Care and concern for the old age

Geriatric care is one of the biggest challenges that Kerala is facing at the moment. While several steps have been taken for ensuring quality geriatric care much needs to be done on this front to ensure quality of life not only for the aged but also for their care givers.

With the elderly population projected to go up from the present 13.5 per cent to 18 per cent of the state's total population in a decade, there is need for urgent addressing the core issues of aged people. Drop in birth rate and death rate have mainly contributed to the high percentage of elderly population.

At 72 years for men and 78 for women, life expectancy in the state is much higher than the national average of 69 years for both sexes. This too has resulted in the increase in population of senior citizens.

But the challenge confronting the society is to ensure quality life, regular treatment, sustenance and family support for the elderly. Health care for the elderly is not only expensive but elongated one because of the chronic ailments that set in during their twilight years. This often leads to neglect of their health care and maltreatment from their own kin. Sufficient care giving of the elderly has been decreased with the decline of joint family system.

Another major problem among the elderly in Kerala is the state of widows who constitute nearly 55 per cent of the total aged population. With most women spending their old age without spouse support, in solitude and lack of trained attendants, it is high time the problem of widows is to be addressed comprehensively.

Age related eye diseases, cataract, muscular degeneration, diabetic retinopathy and glaucoma affect a large number of them. But regular medical check-ups can help them in preventing onset of major diseases. Clearly a multi pronged strategy involving policy makers, NGOs, health care institutions and the public at large is required to deal with the issue of our senior citizens. As a society we definitely owe a lot to the elderly people who have contributed immensely in every sphere of our lives.



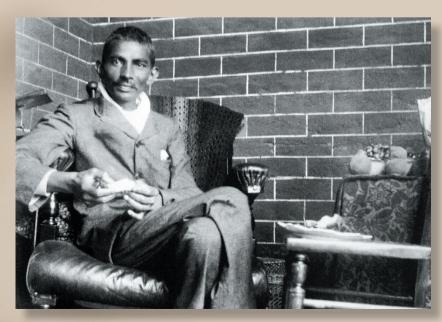
# Gandhi's Green Vision

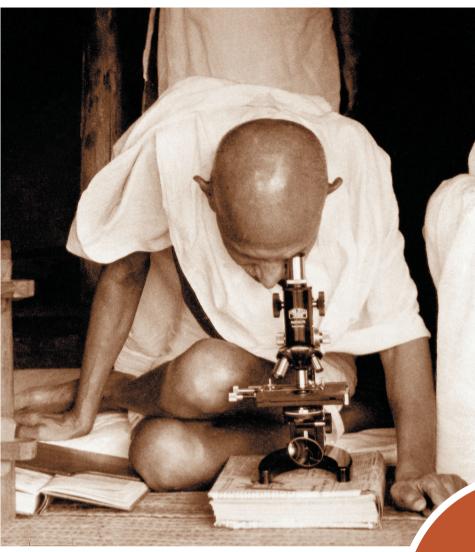
Nobody has spoken so poignantly nightmares. and clearly on the dangers of realization.

accompanied by environmental having a healing touch on the

andhi's vision embraced the problems, social stratification fundamentals of existence, and stress, water scarcity, soil regardless of time and space. depletion, air pollution and traffic

Gandhi was not, as is commonly industrial civilization, which imagined, against science and he qualified as self destructive. technology. On the contrary, Gandhi had sounded the warning he favoured science in its true already in HIND SWARAJ in 1908. essence. He predicted that a Now after over a hundred years, new science of the future would we are slowly waking up to this take into account the realities of the spiritual dimensions and This is the result of a growing the resulting technologies would realization that our present way of be very different from what we living is leading us headlong into witness today – protecting rather disaster. Wherever development than destroying ecology, healing has made rapid strides, it has been the wounds of the earth and thus





human psyche too.

societal level.

'Indian Opinion', dated 1st times that 'air is free'.

February 1913, the irony But for the above of the situation that one spite of all vision to be translated has to pay a price even to the progress, into practice, we need get pure air and water: "We we have the to reverse the following have seen something of strange and five trends which have the structure of the body anomalous become necessary and have learnt that it situation of corollaries to our notions requires three kinds of extreme poverty of what development is nourishment: air, water for at least 80 crore all about. Urbanization, and food. Of these, air people; severe water heavy industrialization, is the most essential. shortageformorethan 300 commercialization, Consequently, Nature crore people; inadequate resources and a minimum monetization, and has provided it to such sanitation facilities utilization of nonmilitarization. Unless extent that we can have for a huge number. renewable resources. and until we discard our it at no cost. But modern There are many other

so on.

The root cause of all the threats we face today was pinpointed by Mahatma Gandhi. He warned us about the dangers of industrialism, such as destruction of environment, depletion of natural resources, uncontrolled consumerism, domination of market, ruin of rural economy, increasing marginalization of the poor, displacement of labor, people's sovereignty over resources etc. He also experimented with and developed alternative practices which led to the formulation of his famous 'Constructive Programmes'

modern Ιn terminology, Gandhi's strategy is modified in terms of pattern of growth, which preliminary uses

**Nature** has provided it to such extent that we can have it at no cost. But modern civilization has put a price even on air.

renewable

It should be noted that attachment to the above civilization has put a unjust and iniquitous use of renewable sources five as necessary elements price even on air. In these situations- ranging of energy, evils of large of 'progress', we cannot times, one has to go off to from gross violations of scale industrialization and implement Gandhi's distant places to take the human rights, gender dangers of environmental notion of Swaraj at the air, and this costs money... discrimination and huge pollution were recognised It would not, therefore, be military expenditure by Gandhi eight decades Gandhi pointed out in quite true to say in modem unending exploitation ago, as he put more of natural resources and emphasis on nonviolent upliftment of village economy and the utilization of laborintensive technique of production.

When asked what type of machinery he approved of. Gandhi said in 1935: "Any machinery which does not deprive masses of men of the opportunity to labour, but which helps the individual and adds to his efficiency, and which a man can handle at will without being its slave". Mahatma Gandhi's views on machinery were not confined to a theoretical level. Perhaps more than anywhere else in the world, these views found practical application. They became an integral part of India's freedom movement.

The environmentfriendly nature of Gandhian economics is further revealed when one notes the emphasis on the 'last man'. In such policy, poverty has been described as the most severe polluter. The Gandhian prescription of 'simple living' also attempts to put a check on unlimited consumption and unending exploitation of natural resources

In a speech at Ahmedabad meeting We are generally very consumerism. He rejected those who are working kinds of food. Air is free among us." to all, but, if it is polluted, it harms our health. perspective this crisis is of air. Next comes water. over consumption and, oppression, war and Foundation, UK



G a n d h i 's dehumanization... " Ιn

on 1-1-1918, Gandhi careless about it. If we the modern civilization. for a better world, a explained the importance were to be sufficiently Forhimitwas a disease and better quality of life. He of purity of air, water careful about air, water a curse. "This civilization is no longer an individual. and food: "Air, water and and food, the plague would leads to violence, conflicts, He is the symbol of the grains are the three chief nevermake its appearance corruption, injustices, alternative in all the mistrust and a process of areas of life- agriculture,

Doctors say that bad air not an isolated issue. It is of inspiration and a role health, politics etc. is more harmful than bad bound with other issues model for all those fighting water. Inhalation of bad such as: industrialism against environmental air is harmful by itself (not industrialization), destruction, violation International- Leadership for and this is the reason we privatization, ruin of of human rights, Environment and Development [sometimes] need change traditional agriculture, racial discrimination, initiated by Rockefeller

education, industry, Gandhi is now a source technology, economy,

> The writer is former Secretary of Kerala Gandhi Smarak Nidhi and Fellow, LEAD

hen India framed its Republican as it may be necessary to enable Constitution in 1950, the them to function as units of self-Constitutional fathers have government." Indian history is structured the distribution replete with the experiments of administrative power of local administration. The into two divisions - the Indian epics like Mahabharata Central Government and the and Ramayana mentioned about State governments in India. the Panchayati system existed in It should not mean that they those period. It was an accepted were ignorant about the modus way of addressing local problems. operandi to address the issues The father of the nation, Mahatma of local governance. By drawing Gandhi was also a great votary experiences from of old, they of this system. According to had included a provision in the him "Gram Swaraj" was the sole Directive Principles of State Policy panacea to solve the problems (Article 40) saying that: "The State of rural India. So the historical shall take steps to organize village experiences and Gandhijis love for panchayats and endow them "Gram Swaraj" had prompted the with such powers and authority Constitutional fathers to include





provisions on panchayati raj in our Constitution. They too believed, like Gandhiji, that India lives in villages.

Although the Indian leadership under Nehru was successful in designing a new Panchayati Raj system for India, it was not strong enough to become a catalytic force to change the rural life. Naturally, it failed to empower the

their problems effectively. Finally, the rulers of India realized the pitfalls of the weak Panchayati Raj system and decided to strengthen it with Constitutional backing.

The 73rd and 74th Amendment of the Constitution in 1992 was the right step in the right direction to address the

It was in fact a revolutionary move to strengthen the local governance. Through this the local bodies became true local governments with some significant powers to redefine the life of the people they serve. Acts were capable of changing the destiny of both the rural and urban regions through the socio-economic planning. The new Acts were inclusive in nature and took special care regarding women and especially people belonging to dalit communities. As a result, they have got ample representation in the decision making bodies of the local governments. The provision to extend 50 % reservation to women in the local government has helped about 1.5 million women to participate in the local administration in India. It is a record to be proud of. This is the genuine democratic exercise.



The high literacy rate has made our state the hub of human resource, which we export to different parts of the globe.

The State of Kerala has a unique record in implementing the decentralization of power. It has made many experiments in the devolution power to the lower levels of administration by establishing District Councils, People's Planning, etc. The latest in the series is the decision to reserve 50 % seats at the local governments to women. Now more than half of the local governments are chaired by women. Moreover, more than half of the representatives in the local bodies are women. It is positively impacting on the socio-political matrix of Kerala. Again Kerala has entered into an election mode. Now we are in search of persons who can lead our local



Responsibility of Voters



The divide between rural and urban regions in Kerala is too thin to distinguish. The Keralites are also exposed to the world compared to other states of India. The high literacy rate has made our state the hub of human resource, which we export to different parts of the globe. The money order economy has changed our life styles which have made Kerala a consumer state. Our appetite for electronic goods like computer, mobile phones, etc. with cutting edge technology has been producing great menace of e-wastes. The solid waste management is the

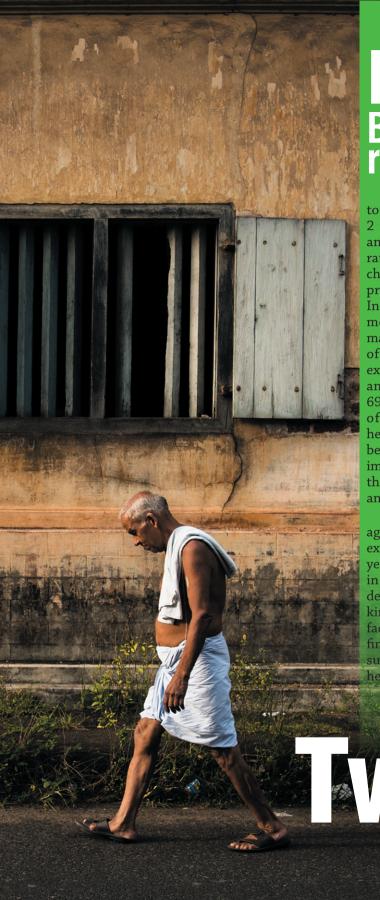
greatest issue before almost all local bodies.

Lot more issues have raising their heads which need urgent solution. The 73rd and 74th amendment to the Constitution has given the local governments many powers to address these issues effectively. As a result of the Amendment, the local governments have power on matters like: Agriculture, Irrigation, housing, drinking water, roads, health and sanitation, women and child development, social welfare, etc.

Kahlil Gibran termed citizens are the real emperors of any nation. It is the voters' responsibility to choose right representatives to lead us in solving the problems we face in an imaginative manner. So casting of vote is the first step to caste away the maladies from our life.

The writer is Associate Professor. Department of Political Science, University

## **COVER STORY** Prof. Dr. P K B NAYAR opulation ageing will be the most important socio-economic and demographic phenomenon in Kerala throughout the first half of the 21st century and if appropriate and timely measures are not taken to cope with it, the quality of life not only of the old but of their care givers and of the rest of the population will be at risk. If this happens, this would contrast unfavourably against many plus points on the currently high quality of life of Kerala people. Kerala's elderly account for 13.5% of the total population compared to India's 8.3%. It is projected to 18% by 2025 and to more than 30% by 2050. Ghalenges in It is high time we took care of the Elderly

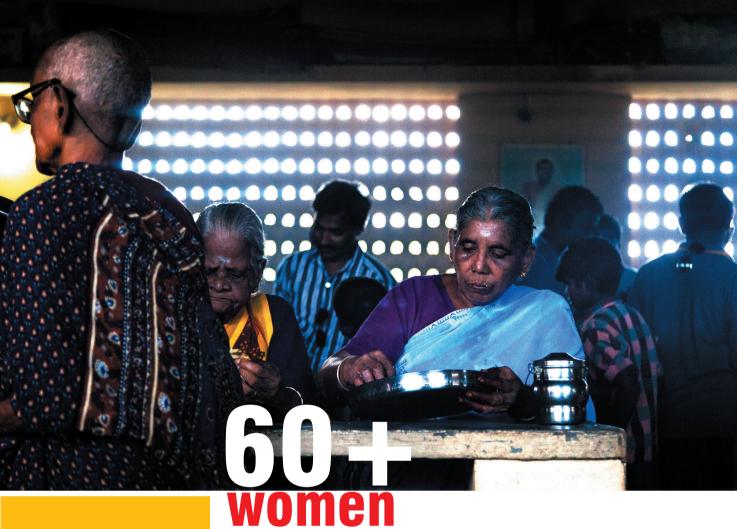


## Fall in Birth-Death rate

The high percent of aged in the total population of Kerala is due to 2 major factors - Fall in birth rate and fall in death rate. Fall in birth rate has resulted in the birth of fewer children per couple, reducing their proportion in the total population. Increased longevity of life and lower mortality at later ages has been a major factor in increasing the number of older population. Currently life expectancy in Kerala is 72 for men and 78 for women against around 69 for both sexes in India. Control of killer diseases, revolution in health management technology and better standards of life, have greatly improved the health of the people and this has contributed to longer life span and lower mortality at higher ages.

Life after age 60, which we call old age, has several problems that do not exist or are of lesser intensity in earlier years. Foremost among them are fall in income, failing health- Increasing dependence on others, especially close kin- arising out of these two is a third factor. Even when an old has adequate finances to take care of him, he needs support in several areas especially if he is frail

Twilght Years



A major problem faced by the oldest old other than frailty and poverty is abuse from others, especially from own kin. among the aged population ageing. Among the 60+, widows

The outnumbering of women The proportion increases drastically as age increases, so much so that in the is another characteristic of 80 plus age group, around 75% women are widows against 25% among old outnumber widowers. This men. This means two things - more is a worldly phenomenon. In women have to spend their old age Kerala, widows constitute 55% without spouse support and more old of old women while widowers women have to live with disability constitute 18 among old men. that is characteristic of advanced age.



Thus, for most old women, the additional years of their life are fraught with diseases, loneliness and lack of proper care givers. Studies have found that among the 60+ who live alone 65% are women.

The actual problems of aging start around the age of 80 (sometimes referred to as the oldest old) when physical and psychological problems come out in full force. Up to 80 years, many old do not face the problems of aging in a significant manner. In India which predominantly agricultural, many old persons continue to work after reaching 60 because they have no retirement age or social security, the number of people in the organised sector being very small. Health-wise also their problems are reasonably manageable but once one reaches the age of 80, the real problems set in.

### Elderly Abuse

A major problem faced by the oldest old other than frailty and poverty is abuse from others, especially from own kin. While abuse has been found to be part of the experience of the old of all ages, it is faced more by the oldest old. Abuse takes several forms - physical abuse, financial abuse, psychological abuse and neglect in the field of health care, food and shelter. For several reasons the old would become unwanted to the young kin caregivers financial problems, having no money to take care of

**80+** 

The 80+ constitute around 3% of the general population and 15% of the older population. A characteristic of this segment is that they grow faster than the 60+ and soon will form a significant proportion of the population of the aged.

Many of them are frail at that age. Old age diseases are not curable and treatment is costly and prolonged - diabetes, hypertension, cardiac problems, arthritis and of late cancer. Treatment being prolonged and costly, a large part of the savings of the old will have to be spent on disease management. It also tells upon the care givers who may be immediate relatives – son/daughter.

Even with one's own money, the old requires the help of someone to take care of him and of his finances. Since most would not have saved enough for their older days, they become a burden on their care givers. This will not always find favour with many care givers even when they are sons and daughters for whom the first priority is their own children. Even when the old has finances, the kin will be frugal since treatment of the sick old is considered at best unproductive and at worst a waste. In the developed countries, expenditure on healthcare of the old is much higher than that on younger ages.



them, especially their medical problems, no by-stander to attend on them while sick and so on.

Help Age India which has been conducting studies on abuse of the elderly in the past 4 years has found several forms of abuse but the sadder thing is that the son and the daughter-in-law are in the forefront in these abuses. What is more, abuse is progressively increasing.

The UN has been cognisant of this malady and, finding no appropriate solution, has designated June 15 every year as the World Elder Abuse Awareness Day (WEAAD). There is also a global association to prevent elder abuse – The International Network for Prevention of Elder Abuse (INPEA).

Ageing has come to stay and several of the problems of ageing both at individual and social/national level baffle solution. Most solutions have to be found at the family level. Unfortunately, the family's consideration for the old is weakening and the trend shows that there is no coming back to the traditional family where the old found protection and congeniality. This has put more burden on the state and the community. The question is to what extend are these agencies ready to take up the corrective roles to make the life of the old peaceful.

The writer is Chairman, Centre for Gerontological Studies, Thiruvananthapuram

# Health Care of the Elderly

geing is a normal, inevitable,

in India.

India has an estimated number of 100 million elderly citizens and by 2050 this is physical, mental and emotional of life of elderly persons. expected to increase to 315 million.

care and support. The hospitalization rates are also Study 2013-14)

The population of the much higher in older people biological phenomenon. elderly in Kerala has been than the total population. The Ageing of population is a major increasing rapidly in recent ageing scenario and specific emerging demographic issue decades. The proportion of problems of elderly demand and is an inevitable consequence elderly (60+) constituted 10 interventions to take care of of the demographic transition percent of the population as per all aspects of elderly person's experienced by most countries. the 2001 census which rose to namely financial, psycho-social, Today, all over the world, 12 percent in 2011. They play health and safety to ensure a there are around 600 million a critical role in promoting better quality of life for them. persons aged 60 years and over. knowledge, by helping the In Kerala the Department of Among these, majority of them community and families by Social Justice has been the belong to developing countries. sharing their experiences. The key player in implementing There is a rising trend in the elderly population faces various programmes for the elderly in population of the older persons physical, psychological and the state. Non Governmental social problems. The elderly, Organizations (NGO) and especially those who are weak private agencies also contribute and/or dependent, require towards improving the quality

(Acknowledgment: Quike



## Major recommendations for better medical care

- Health services should be more accessible to the elderly population. All government medical colleges should have full-fledged geriatric care facilities. There should be at least one major institution in a district, with trained staff, to provide comprehensive care to the elderly. Taluk hospitals and peripheral health centres should be equipped with trained staff. The hospital services should be elderly-friendly
- Elderly-friendly physical structures may be provided at health facilities. The hospital services should be elderly-friendly such as separate OPD or priority in consultation, preference in allotment of bed, free food, facilities for investigations etc.
- Training of manpower should be given priority.
  Doctors, nurses and peripheral health workers
  should be trained in geriatrics and community
  management of elderly.
- Strategies should be developed to ensure private sector participation in health
- Home-based medical care services, especially for incapacitated elderly, should be provided in rural areas by a team including doctor and paramedical staff from the local PHCs .Palliative care services should be more effectively implemented.
- Health care of tribal elderly needs special attention. Norms for providing financial support to tribal elderly for seeking health care should be redefined so that specialist health services and financial incentives are made more accessible.

- All needy elderly should be given one free nutritious meal every day. This could be provided through AWCs.
- All BPL elderly and those below the income tax ceiling should be covered by a free and comprehensive health insurance scheme to meet their treatment expenses.
- Vayomithram project should be extended to cover all parts of the state in a time-bound manner, after taking remedial measures to correct the deficiencies.
- Family support services
- Home nursing services need to be strengthened. Uniform and compulsory training in accredited centers should be made mandatory for home nurses.
- DCCs should be established in all Panchayats, with adequate infrastructure facilities and services.
- Other venues may be planned for the elderly to come together and interact eg. library and reading room, recreation centres, geriatric clubs etc.
- More emphasis should be given on value education.
  - Multi-Service Senior Citizens' Centres may be started in each block panchayat for strengthening the family in taking care of the older persons
- Awareness generation on active ageing and existing welfare schemes should be given to the elderly.
   Mass media and interpersonal communication channels need to be explored.

The writer is Principal, Government Medical College, Thiruvananthapuram

# Diabetes in the Elderly



in the elderly population and common geriatric is often difficult due to syndromes that include complex co-morbid medical cognitive impairment, depression, urinary incontinence, falls, and persistent pain. Aging is associated with sarcopenia, referred to as the universal and involuntary decline in often, many age-related skeletal muscle mass. This results in loss of muscle strength and contributes to Atypical presentation of a the eventual inability of the typical illness is common elderly individual. A major mechanism of insulin years of age. Homeostatic action is facilitating glucose uptake by the muscle. A reduction in lean body mass leads to eventual associated with a different inability to dispose glucose.

Treatment of diabetes one compromised by pre- in the geriatric population existing disease. Thus should be aimed at the "weakest link" organ avoidance of hypoglycemia systems will manifest the and addressing all symptoms. In addition, basic metabolic elderly people are at high abnormalities which risk for polypharmacy, includes management

of hyperglycemia, dyslipidemia, blood pressure and other abnormalities. With increasing duration of diabetes, there is a higher chance for complications. Fasting plasma glucose increases by 1-2mg/dl per decade and 2-hour postprandial plasma glucose increases by 8-20mg/dlperdecade after 30 to 40 years . Though intensive glycemic control

is proven to be beneficial in the prevention and progression of microvascular complications in diabetes, the merits are largely offset by the fear of hypoglycemia which can be more fatal in the elderly.

New guidelines from the American Diabetes Association (ADA) and the International Association of Gerontology and Geriatrics for treating diabetes in older adults have set goal that is much safer for patients older than 65. The new guideline does not recommend a fasting value below 90 mg/dl. The HbA1c have been set at 7-7.5% for elderly diabetes patients who are healthy. For those with multiple chronic illnesses or mild dementia, the A1c levels are set at 8%, and even higher at 8.5% for

Treatment of diabetes in the geriatric population should be aimed at avoidance of hypoglycemia and addressing all basic metabolic abnormalities





nursing homes or with moderate to severe dementia. The American common since age related success of a given therapy. Geriatric Society strongly recommends setting of diabetes care should be to avoid acute episodes of hypoglycemia, hyperglycemia and associated problems such as urinary frequency, infection and slow wound healing.

concept in geriatric their functional status, diabetes is based on the life expectancy, social that glucose counter level when insulin is life expectancy of the and financial support, regulation involving individual. If the life and their own desires for glucagon, epinephrine, expectancy is less than treatment. A full geriatric and growth hormone 5 years they are unlikely assessment performed responses to hypoglycemia to benefit from intensive control of the blood glucose. According to the position statement by the ADA, for elderly who are functional, cognitively intact and with significant life expectancy, it is recommended to set goals

However, for those who changes can affect drug The basic management include an evaluation of adverse drug events.

establishing do not meet this criteria any long-term diabetes it is advised to relax the therapy may aid in glycemic goals and to avoid identifying potential risk of hypoglycaemia. problems that could Adverse drug reactions are significantly impair the

A recent study by disposition in the body. researchers at the individualizing the target This can be aggravated Department of Veterans by the use of complex Affairs, notes that in the elderly. The aim regimens or higher dose among adults aged 65 of certain medications. and older, insulin and Therefore, the risk-benefit sulfonylureas(SU) are the ratio must be assessed second most common to ensure safety, efficacy medications associated and compliance. Goals with emergency of therapy for elderly department visits or diabetic patients should hospitalizations and

are diminished even in

elderly. Older adults may have more neuroglycopenic manifestations of hypoglycemia compared adrenergic manifestations. These symptoms may be missed or misconstrued as primary neurological disease, leading to inappropriate reporting hypoglycemic episodes by the patients. Hypoglycemic episodes in older individuals may also increase the risk of adverse cardiovascular events and cardiac autonomic dysfunction.

Metformin considered to be ideal for elderly unless they have a kidney disease. Older adults are recommended to avoid drugs like glibenclamide to avoid low blood glucose levels. It is recommended to Studies have shown maintain a higher A1c

The basic management concept in geriatric diabetes is based on the life expectancy of the individual.

prescribed.

Long acting analogue basal insulin is preferred to minimize the risk of hypoglycaemia. For past more than a decade, insulin glargine and detemir with lesser variability than NPH insulin were recommended in geriatric population. (12) Recently, insulin degludec(Tresiba), with flatter profile, prolonged duration of action and half life twice as that of glargine has been introduced. One of the safest basal insulin for use

in elderly population, can bе prescribed even in t h e presence

of renal and hepatic disease.

Its uniqueness of action by dissemination of zinc and release of monomers from terminal part of molecule makes it similar to rapid acting insulin which is secreted from the physiological human pancreas.

The introduction of DPP4 inhibitors have proven extremely beneficial for elderly people

with diabetes since it imparts little risk for hypoglycemia, are weight neutral and well tolerated.

DPP-IV inhibitors are a natural choice in the management of hyperglycemia in the elderly with normal or mildly impaired renal function, i.e. CrCl > 50 mL/ min. Some of the commonly used DPP4 inhibitors are Sitagliptin, Vildagliptin, Saxagliptin, Linagliptin etc. They also come in fixed dose combination with metformin as Janumet, Galvusmet etc. which are probably the safest combinations in diabetes in elderly. Sitagliptin ((Januvia) was the first gliptin to get introduced into Indian market and has the largest available safety data in elderly population.

In long standing diabetes, sexual dysfunction is extremely common in both men and women. In the modern world, more and more elderly men and women desire to be sexually active. The treating diabetes team may also consider these factors. Insulin pump is an alternative delivery device which delivers insulin continuously and can also be pre programmed to deliver different basal profiles. Insulin pump therapy (IPT) results in dramatic disappearance of ageing process is necessary symptoms of peripheral neuropathy and also improves the sexual function. Though IPT is gaining popularity, the of treating diabetes in major limitations are affordability and the elderly population

availability of a responsible caregiver. Glucometers and new generation Continuous Glucose Monitoring devices have drastically helped treatment in the elderly to be more successful with least cure of the disease or its chances of hypoglycemia. The yearly influenza vaccine is a mandatory vaccine recommended for adults with diabetes. The ADA recommends all adults 65 yrs or above to be revaccinated with pneumococcal vaccine if the vaccine was administered speciality team. Let the 5 years ago. Hepatitis B has also become mandatory for diabetes patients. All elderly, based on need, should be continued on statins and anti hypertensives whenever indicated.

The management of diabetes in the Diabetes Research Centre, elderly is the same as the management Trivandrum

in any other age group. However, consideration # has to be given to \$ duration of diabetes, age g of individual, presence or absence of co-morbid illnesses and caretakers at home, affordability and access to diabetes team, dexterity, vision etc. A basic understanding of the physiology and

patho physiological abnormalities of the for the physician.

The ultimate aim should be to preserve the quality of life of the subjects with diabetes and not aimed at complete complications. Intensive or aggressive therapy may end up in trouble unless and until the patient is under the care of a motto in geriatric diabetes be individualizing care and to 'start low and go slow.'

The writer is Consultant in Geriatrics & Diabetes Fellow, Mayo Clinic USA and Jothydev's



geing is a natural and loss of adaptability with the support to maintain his or inevitable process. For each passage of time, so that, the her autonomy. Globally, life person, there is a turning individual is less and less expectancy has increased point after which she or able to react adaptively to the from 47 years in 1950 to over he feels physiologically challenges from the external 65 today. It is projected by or functionally 'old'. This or internal environment. the UN Population Division event could take place at With the passing of time, to reach 75 years by 2045.

any age before or after the individual become With the increase in the the age of 60. It has been progressively frailer and longevity of life there is an

defined as a progressive are in need of increasing increase occurred in the



and independence. In Health Organization some cases these falls (WHO) estimates that are the leading cause of about 75% of deaths death from head injury in people over the age in this age group. There of 65 in industrialized are many social problems countries are from heart also that are confronted disease, cancer and by the elderly, such as cerebro-vascular disease falling health, economic (such as stroke). Common insecurity, isolation, ailments that generally loneliness, neglect, abuse, affect senior citizens are fear, boredom or idleness, blood pressure, cardiac low self esteem, loss of problems, diabetes, joint control over one's body pains, kidney infections, and system, and above all cancer, tuberculosis etc. lack of preparedness for Once they occur, these old age.

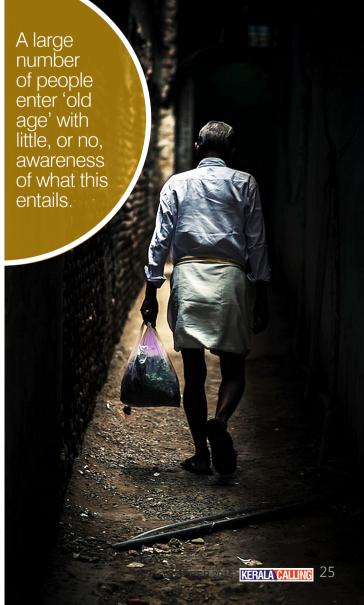
with problems, mostly a long time to heal due

that decrease mobility health related. The World diseases are either Often old age comes incurable or may take

number of elderly persons have no cure such as with chronic health Cognitive Loss, including need of special health and Depression, Visual giving by family members. and Hearing problems. A large number of people Some of them need this entails.

problems that the elderly one-third of adults age face due to their increasing 65 and older experience age and which are hard to a fall. 20 to 30% of those treat and many of which who fall suffer injuries

conditions who are in Alzheimer's, dementia care services and care impairment, joint pain enter 'old age' with little, regular medication and or no, awareness of what some others need regular rehabilitation procedures. There are many In a given year, more than

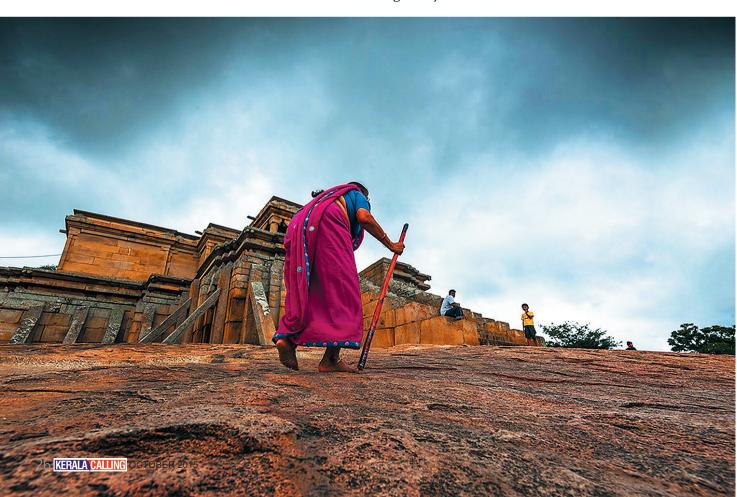


to old age. major cause of death and to permanent damage and and other unexplainable glaucoma, this disease can disability is osteoporosis the aging of the joints physical problems. be arrested but cannot be and associated bone called osteoarthritis. Gout According to World Health restored if vision is lost. fractures, which affects is caused by an excess Organization, 25% of Traditional medicines like many women due to post- of uric acid in the body, the world population is Ayurveda are very effective menopausal bone loss, which then accumulates suffering from mental in elder care. Regular About three-fourths of incertain joints. It causes illnesses. But only physical exercise and adults aged 60 and older sudden attacks of severe 40% of these cases are walking, a balanced diet, are having overweight pain and tenderness, diagnosed and treated. a healthy life style etc., or obesity. This causes usually in a single joint One million annual can prevent these diseases several diseases like type and most often in the big suicides are the result to some extent. Avoid 2 diabetes, cardiovascular toe. problems, breast and and prostrate diseases.

colon cancer, gall bladder susceptible to a variety common causes for these testing of bone density, of mental illnesses. suicides are depression, including sufficient Muscular-skeletal Depression is the most dementia, anxiety and amount of vitamins in diseases are among the common among them. Schizophrenia. most common diseases Symptoms of depression Care and Management in old age. Osteoarthritis include- Lack of interest (OA) is the most common in activities you enjoyed form of arthritis. It is a doing, sadness or chronic, irreversible and unexplained crying spells, degenerative condition jumpiness or irritability, ranging from very loss of memory, inability to mild to very severe. It concentrate, confusion or is characterized by the disorientation, Thoughts breakdown of cartilage of death or suicide, in joints, which causes Change in appetite, sleep affected bones to rub patterns, persistent

It is important to get medical checkups regularly to prevent the onset of any of these health conditions. Age-related eve diseases, cataract, muscular degeneration, diabetic retinopathy and glaucoma affect a large number of elderly. Regular eye examinations

Another against each other leading fatigue, lethargy, aches including screening for of these undiagnosed smoking and excessive Senior Citizens are or missed cases. Most alcohol consumption, the diet. Osteoporosis can be prevented by avoiding smoking and alcohol intake, take adequate amount of calcium, and limit food with high acidic content. A healthy lifestyle can reduce the risk of heart disease by as much as 80%, according to data from the Nurses' Health Study. Eat as much food prepared naturally as





Age-related eye diseases, cataract, muscular degeneration, diabetic retinopathy and glaucoma affect a large number of elderly.

brain is supposed to do occupied. only one thing at a time. Factors Helping Multitasking overloads the brain and cause memory problem which increases over time. Loneliness is inevitable in life. Even though children move away from families, reach out for new people, friends and even can be grandparent for other young nearby children and youth. Another problem that that the

## **Successful Ageing**

Physical Health can be improved through Regular medical checkup, Adequate and appropriate treatment of diseases, Adequate nutrition, Good personal and environmental hygiene, Good personal appearance, Providing adequate time for rest

possible to maintain low elderly face is the feeling and sleep, Assistance in in everyday life. Teach fat, high fiber content in of worthlessness and low meeting the activities of the client /family about the daily diet and limit salt self esteem. Self-worth daily living. Undertake the importance of using intake to control blood and value can be improved Physical Activities - like appropriate clothing and pressure. For memory by encouraging the elderly - Passive and active footwear for the elderly. loss and dementia, to take part in family and exercises, Daily walking, This includes- wearing stress, anxiety, and community activities, jogging, etc. as the health of light and fit clothing mental overload are most learning to use their permits, Participation in of suitable length and likely responsible. "Stop skills, developing new the outdoor and indoor size, avoiding slippers and multitasking". According ones or otherwise keeping games, Participation sandals while going out for to Dr. Brangman, our themselves productively in household works, walking, use of perfect fit Encouragement to shoes with non slippery participate in those soles. activities he/she is used is needed in old age. be prevented through Accidents are one of the adopting preventive and mortality among the and periodic checkups.. elderly. It is therefore important to increases the Professor, Dept. of Sociology, elder's awareness of safety Kerala University

In short, it can be with, Rehabilitation of the concluded that, much of physically handicapped. illnesses, disability and For their Safety and deaths associated with Protection, Special care chronic diseases can major causes of hospital measures including admission, morbidity, exercise, healthy life style

The write is Associate



ast night I watched the much acclaimed Documentary "An Inconvenient Truth" directed by David Guggenheim about the former U.S Vice President Al Gore's

Campaign to educate citizens about Global warming. Though I am a keen learner of environmental changes, this documentary re energised and prompted me to write an article about climate change. The documentary had immense effect on me and I couldn't resist my longing to spread the awareness on climate change.

The term `climate change' has been actively discussed

for a few decades owing to its fearful impacts on mankind and nature as whole. Despite of having policies and laws to cope up with the alarming situation, climate change has been

## Current Status & Stresses



emerged as a global threat to food of total energy related Rest of them included security and agriculture sustainability. CO2 emissions in 2010, Germany, Indonesia, Though the term literally refers to producing 7.0 Gt CO2 Brazil, US, China, changes in the statistical distribution eq. (Giga tonnes of CO2 Japan, Korea, Russia of weather across a period of equivalents). In 2011, and Canada. Climate time; human activities mainly the concentrations change performance deforestation as well as increasing of GHGs exceeded the index 2014 ranked India the atmospheric concentrations preindustrial levels by at 30th position with a of green house gases (GHGs)and 40%, 150% and 20% poor performance. Our aerosols accelerated the process respectively for CO2 (391 position was downgraded into several thousand folds. The ppm), CH4 (1803ppb) and by dropping 6 places result is factors such as heat waves, drought, CO2 emissions from performance index in floods, salinity, soil heavy metal cement production were the previous year (24th accumulation, tropospheric ozone 9.5GtC/year (Giga tonnes position in CCPI 2013 and excess UV radiation have become of carbon per year) in Ocean acidification more prevalent.

CO2 accounts for about 76% of the combustion was 8.3 Gtc/ total anthropogenic GHG emissions year when averaged over in 2010, followed by Methane (CH4, 2002-2011. 16%), Nitrous oxide (N2O, 6.2%) and fluorinated gases (2%). Transport sector the 10 largest CO2 was responsible for approximately 23% emitting countries.

number of stress N2O (324ppb). Annual when compared to the 2011, while from fossilfuel

India is one among

uptake anthropogenic carbon since 1750 has led to the ocean becoming more acidic. Ocean acidification poses serious threats to marine ecosystems,

especially polar ecosystems and coral reefs with impacts on physiology, behaviour and population dynamics of individual species from phytoplankton to animals. Ocean acidification possesses potential detrimental consequences for fisheries and livelihoods.

Climate change is directly related to changes in the frequency Water resources of extreme weather including heat, drought and heavy rain. Increase in temperature cause impacts on unique and threatened systems, species extinction, and large risks to global and regional food security. Ambient UV levels and maximum summer time day temperature will result in the prevalence of non-melanoma skin cancer and cataracts in the eye. Children become more vulnerable to heat related illness due to their small body mass to surface area ratio. Increasing temperature will cause the spread of Malaria, Dengue and many more vector-

borne

diseases.

Climate change will reduce renewable surface water and ground water resources especially in dry subtropical regions. The first and foremost threat to food security will be sharp decline in the quantity and quality of water. Raw water quality will be highly reduced and even after conventional treatments, drinking water quality will be at greater risk due to increased temperature, increased sediment, nutrient and pollutant loadings from heavy rainfall, increased concentrations of pollutants during droughts, disruption of

treatment facilities during floods

Six out of ten biggest natural disasters in 2011 were flood events both in terms of number of affected persons and deaths. production. Flooding affect the Cholera etc.

GHG emissions, lead to an ground levels of ozone. increase in the formation of chemical precursors of Ozone. Higher levels of

surface O3 may be found hundreds or thousands of miles away from the original sources often affecting the remote rural areas, the active centres of agricultural

Ozone at ground levels people severely through will cause damage to lung the spread of water bone tissue, particularly among diseases like Diarrhoea, elderly and children. Chest pain, coughing Increasing nausea and pulmonary urbanisation, use of congestion may occur solid biomass fuels and in healthy individuals industrial development, as a result of relatively without any control for low level of exposure to

Changing land use pattern and increased



rise by 25.90% relative in the Arabian Sea. to 2000 and Earth could rise of 1 - 2.5 degree of beach tourism. of all plant and animal species.

demand for energy and Andhra Pradesh and rise as the major mega with a high degree of resources caused by Tamil Nadu are more cities, Chennai, Mumbai vulnerability to natural urbanization contribute a prone to cyclone related are located coastally. A hazards. major share to the drivers disasters because of the mere 20 rise in global

India is ranked as the Chennai. warm by 30C this century. most vulnerable of 51 Even with a temperature Asian countries in terms rise in sea level is projected school bagging. Celsius will cause serious one meter sea level rise about 169 km2 of coastal power to buy 1-2 cars, to effects including reduced is projected to displace region surrounding build >3000 sqft homes, crop yields in tropical approximately 7.1 million Kochi. State Action Plan let's think on giving some areas leading to increased people in India along with on climate change has space to live them with risk of hunger, spread of 5,764 km2 of land area identified Alappuzha, fresh air and water. climate sensitive diseases and 4200 km road. India's Palakkad, Wayanad and and an increased risk of economy will be drastically Idukki Districts as climate Professor, Department of

A to inundate an area of we have excess money

Though it is too late, of climate change. IPCC more frequent cyclone temperature is projected let's join our hands predicts that by 2030, formation observed in the to displace 7 million together to protect air and GHG emissions could Bay of Bengal rather than people due to submersion water for our own children. of parts of Mumbai and Otherwise we have to see them carrying an oxygen In Kerala, an one meter kit along with their heavy

The writer is Assistant extinction of 20-30 % affected by sea level change hot spots in Kerala Kattakada

#### **Disaster in India**

India accounts for 24 % of deaths within Asia due to disasters in terms of size, population and vulnerability. Floods and high winds accounts for 60 % of all disasters in India. India has an 800 km coastline and is very much susceptible to cyclonic activity and sea level rise. States of West Bengal, Orissa,

## **GLOBAL WARMING**

Already global warming has resulted in an increased cyclonic activity, sea level rises and flooding displacing millions of people from their dwelling places. Increased risk of floods due to melting of glaciers which ultimately result in an increase in the sea level, threatens millions of people living in the catchment areas of the Himalayas and Andes. Kolkatta is the most vulnerable city to flooding incidents after Bangaldesh. The Sunderban islands in West Bengal are also sinking due to frequent flood incidents. 7000 people have already been displaced and by 2030 it is anticipated that over 70,000 people from this area will be exposed to the risks of losing their homes and livelihoods due to sea level rise, increased cyclone intensity and flooding. In addition to the widespread community displacement, the mangrove forests in the world and are well known for their biodiversity and habitat for threatened species (including the Royal Bengal Tiger) will have diminished over 75 % in the next 20 years due to climate change.

# The Walking Encyclopaedia

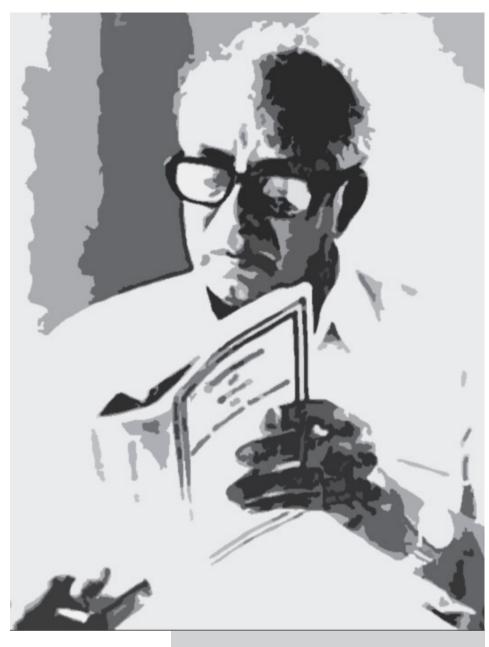
## Remembering N V Krishna Warrier

Prismatic splendor. That is what we can say about the creativity of N.V Krishna Warrier. Whatever went though his permeable mind used to come out in splendid colors.. He was at once a poet, critic, orator, scholar, educator and above all an editor par-excellence. As a matter of fact, he has distinguished himself in every sphere of activity of his choice, outshining one another in the process.

Trust has resolved to observe 2015-16 as the NV Year in Malayalam Literature when workshops and seminars will be held highlighting the various aspects of his versatile personality. The Trust has already brought out a collection of his poetic pieces, and it is all set to compile his other contributions as well.

A poet of the highest order, Krisha Warrier has as many as a dozen collections to his credit. That was a time when Malayalam poetry was under the magic spell of such romantic poets like Changampuzha Krishna
Pillai and P. Kunhiraman Nair.
Warrier became a true warrior for
liberating it from the skin-deep
and shallow musicality of the
period. His celebrated poems,
'Kochuthomman' 'Elikal' (Rats),
'Swana Pradarshanam', and
the most renowned of the lot,
'Mohandas Gandhi and Nathuram
Godse' bear ample testimony to his
radical approach and affirmation
of values.

Krishna Warrier practised and perfected a unique poetic style that was devoid of the trappings of the past, particularly in terms



of design, diction and depiction. While Gandhi appears as a common man waiting in a queue to purchase ration, Nathuram Vinayak Godse has been portrayed as a VIP enjoying the cool comfort of a modern car. Both satirical and sarcastic, the contrast between the two has been appreciated and acclaimed by the new generation of readers.

A prolific writer, his literary output includes

Krishna Warrier practised and perfected a unique poetic style that was devoid of the trappings of the past, particularly in terms of design, diction and depiction.

two travelogues - the 'Rising North India' and 'Through America' three plays and two Kathakali plays – 'Sree Buddha Charitham' and 'Chitrangada' based on Tagore's 'Chitra'. 'Pariprekshyam' and 'Kalotsavam' are collections of essays which bring out the writer's well thought-out perspective with regard to different aspects of culture, tradition and literature and his profound views on a variety of topics.

NV's contributions as the founder of Kerala Bhasha Institute are widely appreciated. His voice was keenly listened to by those at the helm of affairs in the State as well as the centre. His role in the selection of G. Sankara Kurup on the first Jnan Pith winner has been accepted and acclaimed. A recipient of several awards and accolades, Krishna Warrier was down-toearth in his doings and dealings. Simple to a fault, he has often been hailed as a Gandhian in the true sense of the term.

NV's pivotal role as the Editor of the influential Mathrubhumi Weekly has motivated a wide range of writers to seek their fortune in the competitive and challenging world of letters. In retrospect, it is obvious that NV was instrumental in initiating a new sensibility to Malayalam literature and its appreciation.



## **World Tourism Day**

ourism Society of England defines tourism as "the temporary, short-term movement of people to destination outside the places where they normally live and work and their activities during the stay at each destination". Millions of tourist travel each year to divergent destinations to experience varied cultural heritage, history, natural attractions and also to discover novel tourist spots. Currently tourism has the status of a global service industry promoted by almost all nations and it touches the life of all forms of people directly or indirectly. Tourism accounts for 9% of the world's GDP, 8% of iobs and 6% of world trade as well as US \$1.2 trillion in exports.

## **United Nations World Tourism Organization** (UNWTO)

World Tourism Organization is an UN body headquartered at Madrid in Spain which is entrusted to look after the tourism developmental activities at the global level. The major initiative of UNWTO is in promoting and developing sustainable tourism with a view to contributing to economic, social, political and cultural development, improves international understanding and integration, peace, prosperity and universal respect for human





rights and fundamental freedoms for all classes despite on the basis of sex, race, religion, language etc is at the spirit of UNWTO's mandate.

#### Reason for celebrating World Tourism Day

World Tourism Day (WTD) is celebrated on 27thSeptember every year since 1980. WTD is organized at global level by UNWTO and is celebrated to foster awareness among the universal community about the importance and benefits of tourism and its social, cultural. political and economic value. World tourism's role in breaking down international boundaries and barriers across divergent cultures and to foster tolerance, assimilation, respect, sharing and mutual understanding between world nations and



community is immense.

## WTD Theme-2015"One billion tourists, one billion opportunities"

WTD - 2015 is focused on the theme "One billion tourists, one billion opportunities" and is actually to highlight tourism's role in improving the living standards of the host community who are part and parcel of tourism development in a destination. The announcement of the theme was made at the 20th UNWTO General Assembly held at Victoria Falls on 29th August 2014.On 13thDecember 2012, the UNWTO

announced that for the first time in world history one billion tourists crossed international borders. This number included people on vacation, family visits and business trips. By comparison, the number of international tourists in 1990 was 435 million.

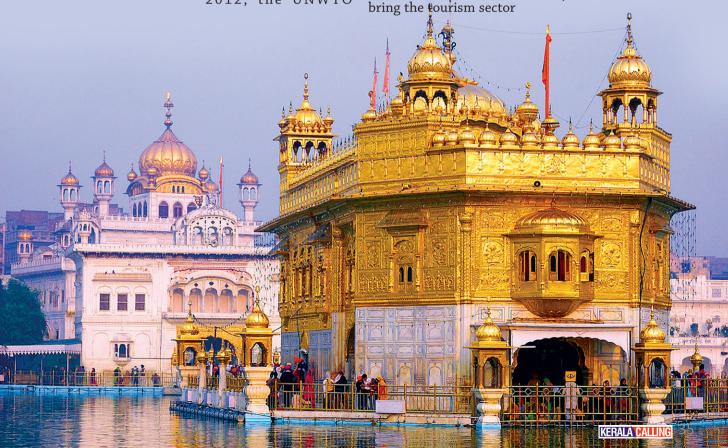
The theme "One billion tourists, one billion opportunities" draws special attention to the potential of tourism to actively involve all the stakeholders and hence contribute to a critical building block of sustainable development.

WTD - 2015 theme highlights the need to bring the sourism sector

and host community together to drive tourism's contribution to community welfare, effective community participation and sustainability. This year's theme is ideally timed to contribute to the debate on tourism's contribution to the Sustainable Development Goals (SDG's), the UN development blueprint after 2015, which places a high priority on host community participation. Seminars, tours and competitions such as photography are organized as part of WTD celebrations. UNWTO secretary general delivers a message as part of WTD celebrations every year.

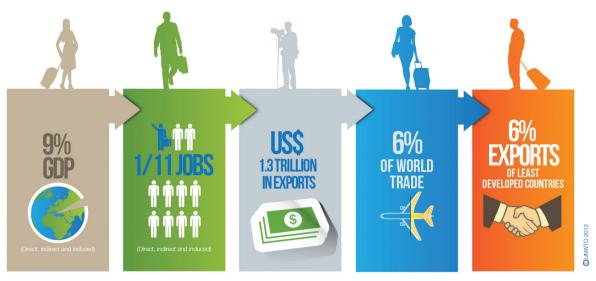
#### Burkina Faso – Official Host for WTD celebrations - 2015

WTD is officially hosted by a specific country every year and this year it is Burkina





In 2012, a record one billion tourists crossed international borders in a single year. Another five to six billion are estimated to travel in their own countries every year.



#### WHY TOURISM MATTERS

Faso – a West African opportunity for a country religious belief.

#### **Opportunities for** Incredible India

Tourism provides an

landlocked nation hosting like Indiato contribute the week long celebrations substantially to sociounder the theme "One economic development, billion tourists, one employment generation, billion opportunities" a conservation and burning topic which has a protection of natural, great relevance currently. historical and cultural Burkina Faso is proud resources and poverty of its immense cultural reduction. In India heritage and throughout sustainable tourism is the length and breadth increasingly receiving of the country there are attention as it combines indigenous communities the aspects of conservation an excellent opportunity the numerous benefits living according to their of natural and cultural to develop the rural it offers. Sustainable own unique ethnicity and resources, provides economy. Community tourism enables the

## Seven Iconic Attractions of Incredible India

Tourism Destination

Agra Delhi Jaipur Mumbai Aurangabad

Kolkata Amritsar Iconic Attraction

Taj Mahal Outub Minar Amber Fort Gateway of India Ajanta and Ellora Caves Howrah Bridge Golden Temple

economic benefits for host participation in the rural delivery of quality tourism community and generates and eco-tourism projects products and services high level of satisfaction of India is very immense which ultimately leads for the tourist. Rural and has been widely to high levels of tourist

tourism projects provide supported because of satisfaction. As far as India is concerned tourism provides infiniteoptions for achieving sustainable and responsible growth of the sector.

#### **Statistics of Tourist** arrivals in India (2014)

Tourist arrivals in India registered a double digit growth in 2014 over the previous year. The number of domestic tourists grew by 12 percent against 9.59 percent in 2013 and the





number of foreign visitors domestic visitors (32.76 rose by 13.12 percent crores) and foreign visitors against 9.24 percent the (46.6 lakhs) respectively. previous year. Tamil Nadu Uttar Pradesh with 18.28 ranks first inreceiving crores arrivalsranks the highest number of second in domestic visitors

arrivals. Maharashtra (43.9 lakh) attracted the second highest number of foreign tourists followed by Uttar Pradesh (29.1 lakh), Delhi (23.2 lakh), Rajasthan (15.3 lakh), West Bengal (13.8 lakh), Kerala (9.2 lakh), Bihar (8.3 lakh), Karnataka (5.6 lakh) and Haryana (5.5 lakh). The data on tourist arrivals is compiled by the

market research division

of the Union Tourism

Ministry based on inputs

received from the tourism

departments of all States

Tourism is definitely a vital source for earning foreign currency and employment creation particularly for developing, under developed and island countries. Income earned from tourism projects and activities is redirected towards the sustainable conservation of natural resources and cultural assets. Responsible and sustainable tourism developments help to raise awareness among tourists, host communities and travel intermediaries about the importance and benefits of tourism. Above all world tourism day creates a sense of tourism consciousness and its necessity and importance during the hectic and monotonous life of global community. •

The writer is Lecturer, Dept. of Tourism, MG University

## World Tourism Day Themes & Host Nations

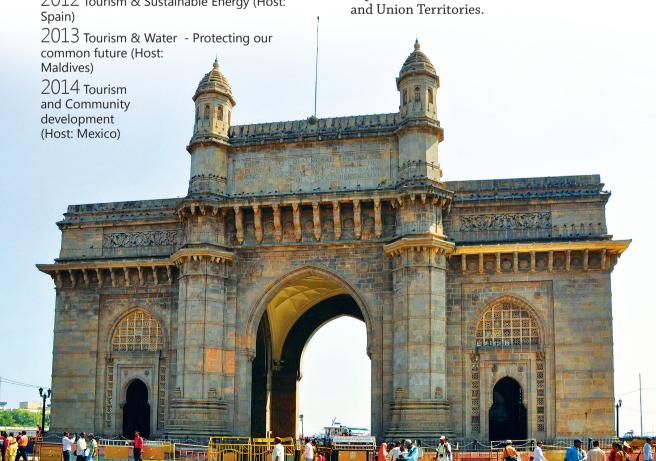
2008 Tourism Responding to the Challenge of Climate Change and global warming (Host: India)

2009 Tourism Celebrating Diversity (Host: Ghana)

2010 Tourism & Bio-diversity (Host: China)

2011 Tourism Linking Cultures (Host: Egypt)

2012 Tourism & Sustainable Energy (Host: Spain)



### **AGRICULTURE**

Dr. N ANIL KUMAR, Dr. K P SMITHA

## The importance of **Family farming**

Wayanad is one of the regions with rich agro biodiversity conserved at on-farm by the ethnic communities like the scheduled tribes.

amily Farming, which now becomes part of human cultural heritage, has been recognized as one of the most sustainable ways to ensure food and nutrition security at household level. This is more evident in parts of Asia -Pacific, Latin America and African regions where family labour as well as inputs generated in-situ are used to produce bulk of

The small holders of China, India, Indonesia, Bangladesh and Viet Nam that alone account for 300 million small farms, out of the world's 500 million small farms engaged in production of diverse grains, starchy staple foods like several roots and tubers to wide ranges of

**FAO** (1996) Kuruma warned are the almost all rice growers. Plant Genetic Resources (PGRs) of small farms will extinct in on-farm by 2050 unless there are concerted actions to save such diversity. However, the worldwide trend is in promoting large scale use of a few high yielding crops and breeds with focus inputs that maximize the food production.

Here we discuss the starchy staple food yams and aroids that contributes much to the food and nutrition of the most marginal communities.

## **Agriculture System**

Wayanad is one of the regions with rich agro biodiversity conserved at on-farm by the ethnic communities like the scheduled tribes. The farming takes place at both the steep mountainplanes and on the valleys. The principal food crop, Rice in the valleys, and mountain slopes being cultivated with high concentration on native varieties. Predominantly, the tribal communities like Paniya, Adiya and Kattunaikka are the Yam Xanthosoma. Normally and Aroid cultivators, whereas Kurichya and prominent crops in family

## **Diversity of Yams and Aroids** (cultivated and wild)

Th e subcontinent, one of the in the agro-biodiversity prominent Vavilovian hotspots. centres of crop plant

farms, wild/ semi-wild conditions, which managed mostly by women almost Indian across India especially

At Wavand, it is used

dwelling community. This group of tubers still serve as a 'life saving' crop during periods of seasonal and acute food scarcity.

## **Cultivated Yams**

M S Swaminathan Research Foundation Community Agrobiodiversity Centre has recorded 30-40 cultivated varieties of YA-AROS complex and about 20 wild species/varieties of Dioscorea from Wayanad



Yams and Aroids on diversity holds a high degree of diversity in Yams and Aroids, more specifically in Dioscorea (about 50 species and over 100 varieties!), Colocasia, Amorphophallus, and these crops are the most

as an important source of starchy and mineral rich foods in the food basket of mainly Paniya, Adiya and Kattunaikka communities. Collectively these two crops could be called as "YA-AROS". The Dioscorea are the major staple food to Kattunaikka -the forest

and adjoining regions. Out of these, 15 varieties are now maintained at MSSRF's Community Agrob Centre's Field Gene Bank in puthurvayal village of the district. Protein analysis of these varieties showed that Inchikachil (D. alata) had the highest protein

had the lowest protein hamiltonii (Vennikalasu), is another very popular (3.67%). 38.72% of D. Thoonan Kachil (D. alata) (Hehkkukalasu), of Wayanad. It is excellent was dry matter, which was D. the highest among the (Kavalakalasu) are seen found in moist forests on samples. Nanakizhangu in interior evergreen and which the Kattunaikka (D. esculanta) had the moist deciduous forests, community depends lowest with only 15.59%. and D. wightii (Erakalasu) more. D. tomentosa

### Wild Yams

Wild yams serve as a 'life saving' plant group during periods of food scarcity for tribal people in Wayanad. More than fifteen species/varieties of Dioscorea, are still sourced for food by the forest-based communities like Kattunaikka. The communities who are dependent on wild Dioscorea for their food classify each member of this genus, based on characteristics like edibility, taste, colour, size, direction of growth, fiber content, cooking properties and occasionally the proliferation underground. Kattunaikka call these tubers as 'Kalasu' and they are knowledgeable about 12 species. Among the varieties known

in rocky grasslands. D. (Salukalasu) is not pentaphylla (Noorakalasu, consumed regularly due Nallanoora), D. wallichii to its high mucilaginous (Narakalasu), D. bulbifera content, and is eaten only (Hendiridaekalasu) during times of acute are found in wayside- famine. Communities bushes and D. pubera other than Kattunaikka (Boojikavalakalasu) in keep away from this tuber marshy areas.

collect Dioscorea from itching sensation when almost all these places, consumed, particularly on but more frequently from children. the forests and other such unmanaged habitats. tubers, D. hamiltonii, Among the different D. oppositifolia and D. species of Dioscorea, D. pentaphylla are the most pentaphylla (Nallanoora) frequently consumed is the most commonly ones. The collected tubers consumed tuber. As the are stored inside the huts name indicates, 'nalla' in the open. A wide range means safe or good to eat. of methods are adopted The tuber is single, less for processing the tubers. fibrous and is powdery The tuber of D. hispida when cooked and tastes (Kottunoora) requires good. This variety is thorough processing common on the fringes before consumption.

(14.52%) and Neelakachil to them, Dioscorea oppositifolia (Kavala) b e l o p h y l l a tuber among all the tribes oppositifolia in taste and is commonly as it has peculiar kind The Kattunaikka of fibres that leave an

> Among the various of deciduous forests. D. The chopped tubers are





wrapped in a white cloth and kept in running water in the streams for over 24 hours before being cooked. This species is considered toxic and none of the other communities consume it.

## Wild and Cultivated

There are six varieties of taros found in pure wild in abandoned fields and marshes and consumed mainly by



health. Colocasia "thalu"

A variety named Karim strengthen the bones and are traditionally high very high. Chembu is adored for improve the immunity of resilient crops, which

where they are collected. in extreme marginal availability of food per Wayanad

widely used greens by the in fact orphan crops, as vulnerabilities of climate. and Unani as purgatives, Paniya community. Three there is little attention to Also as the volume of laxatives, expectorants, three different habitats important aspect of Yams large with long shelf life diseases and poison bites. are collected and their is that they have very low compared to any other names are associated water footprint, which food crops in the region, with Agro-biodiversity Centre, with the habitat from means it can be grown and correspondingly the MS Swaminathan Research

Paniya and Kattunaikka. Thalu is considered to environments. YA-AROS person at household is

Many of the aroids are its medicinal properties body. Young girls are fed matters to counteract used for both its corms like curing rheumatic on a diet of thalu during the deleterious effect and culms, which form complaints, purifying their menstrual periods to of climate change and an important source of blood and improving eye improve their immunity. have the potential to help readily available vegetable. Many of the cultivated the poor and marginal Some of the YA-AROS (petiole) is the most varieties of YA-AROS are farmers to adapt to the have use in Ayurveda varieties of Colocasia from their improvement. An food (tuber), is very for the treatment of skin

> The writers are associated Foundation Community,

## Cautious with

big white sugar candy in whata sight to see, the entire in the society and the shorts and blue T shirt. Like the sugar candy daughter. the typical mother who is a I clicked instantly.

out into the defense of my normal? daughter and I screeched a "NO" at him. He was silenced context. As a mother, I am that in the Third world, 250 by my over rated expression and drama. His face suddenly turned taut and looked around to see if there were any audiences to the staged show. We were standing near the escalator boarding and

every- moment- of -your- gesture from the side of the was on my mind? Child Immediately the Hindi abuse / Child pornography/ speaking young guy who pedophile/ morphing??? It happen recently, but I am sold the sugar candy to us is a fact that I do not have referring in the context of at the mall also took out his to allow a stranger to take today. A few days back I phone; being member of the my daughter's picture right read another friend spread selfie generation himself. The infront of me. But was my Tiger mom within me jumps reaction to the incident page on a social media which

around

her hands and even a bigger traffic on the escalator that environment my daughter smile on her face, a perfect was gliding down turned up lives in, that every gesture is combination with her white towards the tiger mom and looked upon with suspicion... The phones in the hands of Why did I over react? It people are dangerous. The jingoistic member of the 'click could have been a simple social media pictures that we upload of our children are child' generation of parents, boy selling the candy. What dangerous. Its danger, danger and more danger.

> This incident didn't awareness about a pedophile was formed by people of my Yes, it is normal in today's own state. It is estimated on alert mode million children have to put 24x7. So up with the encumbrance of m u c h survival. Pedophiles are on a b u s e the streets, on the Internet, g o i n g on the roads, in the school...

innocent and they have such instances. Parents to put up with abuse have to earn the trust of in many ways from the their children. When a day they learn to take a child complains about a few steps on their own. problem, parents have The worst of abuse for children are exposure to pedophiles, and this goes unrecognized largely. Tourism which is one of the main currency making industry in the country seems to be pedophile's paradise. Child sexual abuse is an epidemic and a reality. Parents are you listening???

There are several laws to protect children and several campaigns to to listen with interest create awareness; these and intent and be very somehow don't seem cautious to be noncritical. to suffice. The more the effective initial agent to available to the mass. address this issue. It is extremely important that of mine later asked me, parents have awareness instead of making such of the existence of a hue and cry about the power, especially when couldn't I just stop posting you are reading what pictures of my child on

They are all over the place. you don't want to know. These pedophiles seek a Parents have to read and target-rich environment understand about law for finding their prey, and and protection. Parents the Internet has become have to be sensitized to their flocking ground. Its understand the problem danger on the roads, its and act accordingly danger on the internet, with sympathy and its danger on the social compassion. Parents media, its danger on the need to have an open door campus, it's even danger policy in communication on the floor of the homes. with their children so that Children are most children come open about

There are several laws to protect children and several campaigns to create awareness: these somehow don't seem to suffice.





The school should protection, the more the also keep awareness predators find other ways programmes for students to get to children. The and parents. Teachers government can't seem and counselors should be to be catching up with equipped to handle such the predators and their issues. Media should not ways. It's upon parents only flash news of isolated to ensure the safety of incidence and later wash their children. Family off their hands. Media nurtures the child first, should take this up as an As infants they enjoys a ongoing awareness and long period of dependency keep it in the limelight so on the parents therefore that there is continuous the family is the most and constant information  $% \left( 1\right) =\left( 1\right) \left( 1\right$ 

A social media friend pedophiles around their photograph incident of children. Knowledge is my daughter at the mall,

social media? Would that be the best solution? By posting pictures on social media, parents are not doing anything wrong, it's the predators who wrongly abuse the pictures for their perverted pleasures; so shouldn't we focus on them. Shouldn't we expose them? Its rightfully the responsibility of everyone of us to report such acts if they happened to our child or someonelse's child. We need to bring these predators out in the open so that our children can walk freely.

Even if we stop posting pictures of our children on social media, can we stop our children from walking about freely on the roads? Let's not forget that children aren't expecting such Consultant

devastation when they take innocent steps in life. So while we protect our children from internet pedophiles lets also create greater awareness for all the other children. This cannot be achieved by just few people, this cause need to have the shoulder and hands of all the citizens so that together we can outnumber the perverts. It's the best we can do to make a safe place for our children.

While the pedophiles have one eye on our children, let's invest both eyes on our children.

The Chilean Poet, Gabriel Mistral wrote, "We are guilty of many errors and many faults but our worst crime is abandoning our children, neglecting the fountain of life. Many of the things we need can wait. The child cannot." I wish for my daughter to live in a better society where her mother is not so panicked; don't you wish the same???...•

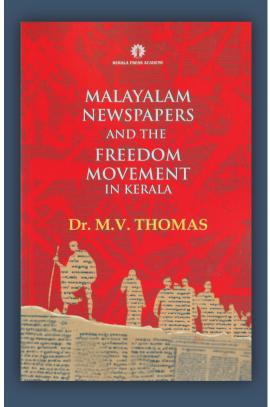
The writer is Parenting

# Retrieving honour of Malayalam Newspapers

Role of Freedom Movement in Kerala

t's amazing irony of history that the Colonial rulers of India themselves had, though unwittingly, laid the foundations for freedom. The British had made two important infrastructures that facilitated the Gandhian march for independence in the second half of the 20th century-- rail and press. Of this, the press proved a powerful nonlethal weapon to fight the foreign yoke.

How powerful the press was in shoring up mass support could be gauged from the fact that Mahatma Gandhi himself turned to journalism as a non-violent mass awareness medium. So did many stalwarts of the pre-independent era. But while the role of English press was feeble the vernacular newspapers proved virulent in garnering public support for the cause. Malayalam in its own way contributed greatly for the freedom



Malayalam Newspapers and the Freedom Movement in Kerala Dr. M.V. Thomas

Kerala Press Academy Pages 232 Rs. 230 movement, especially because it was in this southern peninsula that the printing of vernacular language came first in the country.

While imperialist intrusion into India is welldocumented, the book, Malayalam Newspapers and the Freedom Movement in Kerala by Dr.M V Thomas, is unique in its vein. It gives a pan-Indian approach with focus on Malayalam newspapers, giving the students of history an aerial view of Indian struggle and role of the English and vernacular press. More importantly, the book seeks to correct the high-brow view of national history writers that only grudgingly allows a small peripheral role for the vernacular newspapers, particularly those of Kerala which in reality had made massive contributions to furthering the freedom struggle. In fact, there is not a state that had more wholeheartedly accepted the



freedom movement led by same year. Interestingly, Gandhian movement. Gandhiji as Kerala did.

it takes in a deep breath of Malayalam journals the Malayali psyche. 15th Century when the from the front. first foreign adventurer-

## Early newspapers and freedom movement

In Kerala the first Malayalam journal was brought out not by a German missionary, Herman Gundert. Malayala Panchangam was brought out in Novemebr 1846 followed by Rajya Samacharam in 1847 and Paschimodayam in the

the first Malayalam real of the ambience prevailing and newspapers where

literature was very days. supportive to freedom inspiring verses lent a of letters as its editors. helping hand to the

The 232-page book, newspaper was brought all small but significant older than Manorama. based his research for out by a Gujarati, Devji newspapers and journals doctorate with Kerala Bhimji, in Cochin in andzeroinontwobiggies- renowned journalist TJS University, is not just 1865 under the name of Malayala Manorama and George remarked, "Dr. about the newspapers' Keralamitram. From then Mathrubhumi -that have Thomas shows us that role in freedom struggle; on it was a steady march made sizeable imprint in many reform movements

in Kerala in the tag end of patriotic stalwarts led March 22, 1890 as a weekly movement. Kerala, more underwent troubles and than any other part of The book explains tribulations when it was India, functioned as an trader, Vasco da Gama how the 19th century closed down by the royalty active lab where civic arrived in Calicut. and early 20th century and Mappilai suffered movements were tried Dr. Thomas points out saw a socio-cultural and incarceration. The paper's out and social reformers how conquer of Kerala was political renaissance of policy, though criticised found fertile ground." made possible because Kerala. Political awareness as a Christian-tinged view of the never-ending was not in isolation of of things, indeed did a digital generation to have internecine war among social movement. In yeoman's service to not atleastacursoryawareness small chieftains and kings. the second half of 19th only freedom struggle but of the sufferings of the century and first half of for the socially backward '47-midnight generation. 20th century Malayalam communities of those Value of freedom is

movement in Kerala. It another leading daily, thraldom. This book was a renaissance period was started in 1923 as a serves the purpose. The led by Sree Narayana Guru mouthpiece of Kerala PCC book is written in lucid whom Gandhi held in high and throughout its service simple English sans esteem.Great poets like remained firmly rooted for scholarly jargons. It adds Kumaran Asan, Ulloor, freedom and Indian ethos. to its readability. Vallathol had by their It had prominent men

Ditto Kerala Kaumudi and Book takes note of Deepika which in fact is

Writing foreword, took place under the Manorama, born on umbrella of freedom

It's essential for the understood when seen Mathrubhumi, in juxtaposition with

The writer is former Bureau Chief of Times of India at Thir uvan anthapuram



breeding between the in warmer and tropical Ascocentrum, Vanda and climates. Arachnis orchids combining the most outstanding in the bright light orchid characters of each. This group. Placing it in a spot hybrid which is a mix of with morning sunlight three parent genera was until noon will be most first created in Singapore sufficient in terms of in the year 1969 and is lighting. But avoid now a popular favourite exposing it to direct among garden lovers world sunlight since their leaves wide as its parents. The first have flattened surfaces Mokara hybrid was called which tend to absorb more Mokara Wai Liang, named heat that can eventually after C.Y.Mok of Singapore. burn the leaves. Especially Since then countless other the modern hybrids, can types have been developed. tolerate only low light

its own range. For unique flower shape and example the purple the capability to last up colour is associated to two or three weeks in with spirituality the vase with proper care. and nobility. The Mokara is among those purple orchid types which are communicates hardy and very easy to riches, while grow. Once these orchids the light purple are grown with care, they reflects delicacy produce beautiful and and romance. In exotic-looking blooms. China and Thailand They are ideal beginner purple is the symbol of orchids as they are very grief and sadness. But forgiving. Especially some in other cultures purple species of Mokara orchids symbolises sovereigns. are incredible hardy and Mokara is a trigeneric quick growing. They are hybrid created by cross suitable as garden plants

Mokaras are included This beautiful hybrid has a while showing good

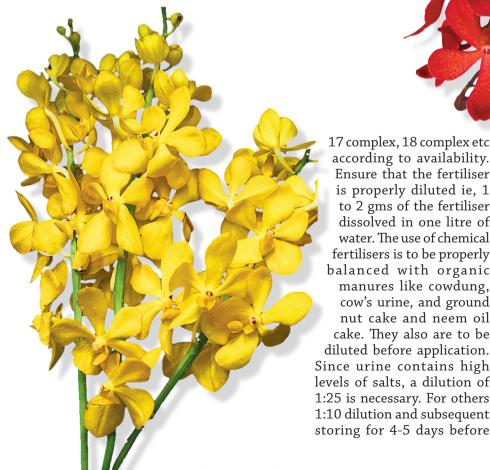
okaras are a group of orchids which can make good house plants that can bloom year round when given the proper environment. Perhaps this may be the only orchid flower with such a broad spectrum of colour shades including purple, pink, red, orange, blue, coral and yellow. Each of these colours has

health and successful from tip or crown of the leaning over. The plants plant. The inflorescences can be watered in the appear from the axis of morning and watering 15 flowers. Due to their for the plant. delicacy and bright colours bouquets.

Before purchasing a Mokara flowering. More over orchid for growing, ensure the if you have any doubt health of its roots and leaves. Roots regarding the availability of the plantlet should be plump and of sufficient light watch healthy without wither tips. The the colour of the leaves. leaves should be green and strong. If the leaves turn to These two features indicate that the reddish green instead of plant is healthy to be grown. When bright green colour, this grown indoors in pots of 18 to 20 is a clear indication of cm diameter, place the pot in an over lighting the orchid. east-facing window to receive full Mokaras belong to the sunlight in morning. Since the Vandaceous genera so Mokara orchids have heavy that it shows monopodial top, place a few river rocks growth habit which around the base of the pot means that they grow to prevent the orchid from leaves. Flowers are long can be done several times lasting and appear in a during hot weather. Take care cluster along the spike. that the plants are not over The Mokara has an watered and it never stands inflorescence of up to 60 in water. A healthy air circulation cm long, bearing about and some extra humidity is good

Mokaras can be fertilised once with its striking form a month. They prefer a diluted of a star fish, Mokaras solution of fertiliser. If possible are popular in wedding use fertiliser mixture 30-10-10 orchid fertiliser or mixtures like





according to availability. spray a week with organic Ensure that the fertiliser manure is enough. is properly diluted ie, 1 water. The use of chemical fertilisers is to be properly balanced with organic manures like cowdung, cow's urine, and ground nut cake and neem oil cake. They also are to be diluted before application. Since urine contains high levels of salts, a dilution of

17 complex, 18 complex etc application is ideal. One

There are several to 2 gms of the fertiliser showy varieties of Mokara dissolved in one litre of suited for growing in our homesteads.Mokara Norah Blue, Mok: Top Red, Mok: Lamberg Gold, Mok: Chark Kuan Orange, Mok: Bogus Sunspot, Mok: Omai Gold, Mok: Omai Jumbo. Mok:Walter Omae White, Mok: Syan Dung Pong, Mok: Kulthana Red, Mok:Syngyo Gold etc.

The writer is Deputy 1:10 dilution and subsequent Director, Editor, Farm storing for 4-5 days before Information Bureau

## Dr. S K PRATHAP

## Painting the Child Metaphoric Strokes in the Wilderness

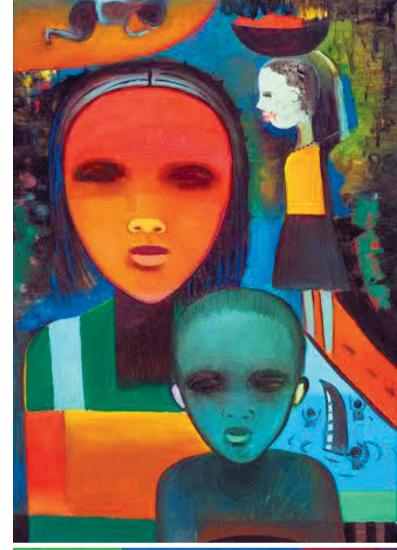
ain's is the art of representation. He relays through his paintings a sensitively critical message of protest against the callous exploitation of the child. Jain chooses, mostly, the girl child as the metaphor of tortured existence, and he is justified in it considering the facts the girl child is in the double bind of class and gender, the two-pronged condition that sets her in a social matrix congenial to inescapable exploitation. She is more prone to be abused sexually, pushed into prostitution and labour, and denied opportunities of education and the simple pleasures of childhood. Through



The girl child is in the double bind of class and gender, the two-pronged condition that sets her in a social matrix congenial to inescapable exploitation.

scores of paintings having the girl child as subject, Jain meticulously captures her suppression in its varying faces. Evidently, it is the lower-class girl, the one hailing from a working-class background, that occupies him. She is the one who embodies the universal proportions of feminine suffering in a patriarchal society; the boy child, even when he is no exception to exploitation and rejection, is less vulnerable, thanks to his gender.

C.D. Jain seems to be the lone painter in India, perhaps in Asia, who focuses his art exclusively on the subject of childhood. He is also a well known educator who conducts art classes for children and youngsters using his own original methods of instruction. Over the last two decades, as an artist, he has been preoccupied thematically and formally with existence as child. Jain's awareness of the pan-Indian situation vis-a-vis the girl child seems to be no less instrumental in gluing his attention to the cause of the child. In recent times, the media in India has been rampant with reports on child abuse ranging from sexual, domestic, to sheer victimisation by consumerism and middle-class aspirations. The diverse sufferings of childhood has been volubly discussed by the intelligentsia here. It is natural that the conscientious artist's attention gets entangled in this elemental problem, but to get steeped in it to the extent of making it the motif of art for long spells takes extraordinary depths of feeling and imagination. Added to this





are the impressions Jain garners in his travels exploring the underbelly of urban India. Many of his images of the suffering child owe their existence to the poor children he has encountered in its streets during his travels.

One of Jain's paintings in "The Joyous Moment" series entitled "Journey through a tempting past" ironically exemplifies how a subtext of gender discrimination is woven into the fabric of a joyful moment of childhood. Here there are three girls and three boys in a playful moment against the background of a house, besides figures of an elephant and a goat in a perspectiveless arrangement. The painting poses a subdued statement of the typically Indian condition of femininity in which the girl child is more domesticated than winged boyhood. The two females, one sitting as if she is nursing the one reclining, are watching the girl who is raising a boy-child in her arms. Next to her, a boy is given two wings, symbolically suggesting that he is free like a bird in the domestic sphere, while another boy looks on indifferently. So is "Livelihood," where a girl is seen carrying a load on her head. Her own sad close-up fills the larger part of the canvas, while a male child sleeps in the background, and another one looks on



unconcernedly in the foreground. The gloom that clouds the children's faces is Jain's statement of the effect of child persecution. Perhaps the pedophiles. pithiest representations of suffering childhood in Jain are his portraits of children, which too are predominantly of the girl child. They are of an impressionistic import, with the artist striving to capture the pathos in their countenance. The reduction of the subject's facial contours to geometric shapes - most of them are heart shaped - helps to transcend individuality, and embed the universality of experience. In "Ravished," a girl child is presented in stark

nudity, with an eerie suggestion as regards the precariousness of her physical security in a world infested with

What is his philosophy of humanity? Since Jain has chosen the child as its metaphor, he states his philosophy too through it. He looks on happiness as the essential condition of humanity, and seeks to relocate life in a visionary world that sheds its garbs of modernity and becomes verdant nature. Jain paints an entire series entitled "Benign Forests," in which the child radiates joy most naturally when it sits in the lap of bountiful, pristine nature. These

are acrylics, where the blue dominates with a mystic and lyrical charm. They make a series of paintings rendered over a period of six years. Here, the children reclaim their original joyfulness upon being nestled in the benignity of forests. They beam with careless abandon amidst the transparent blue of a dawn, forgetful of harsh reality. These are idyllic pictures of life in its elements, and contrast sharply with the grimness of the rest of Jain's paintings of childhood. The Benign Forests are microcosmic representations of holistic life; here plants, animals and humans are harmoniously entrenched in a single plain. Jain seems to use the images of the flora and fauna characteristic of Kerala; the paintings abound in meticulously drawn images of deer, monkeys and hornbills among other creatures - familiar sights in the forests of Kerala. Benign Forests are verily Jain's masterpieces in composition. The mystic blue that permeates them is in itself a marvel in terms of the varying intensity with which it spills over everything, yet not blurring its individuality. Certainly, blue is the colour Jain gives to benignity, the most regenerative of all human feelings. Looking at these paintings, one is drawn into a wish to regress to the uterine solace of benign nature.