



# Krishi Tantrajna

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*He first refused. Then, on pestering, for which your editor is well known for, he budged. Result, this highly scholastic, well-researched piece of article on the drought staring directly into the eyes of this great country.*

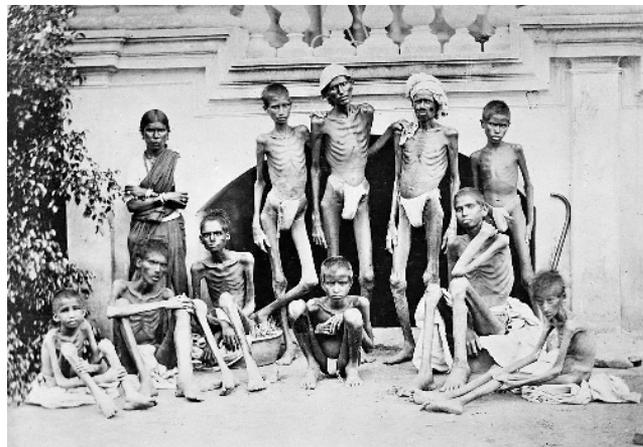
**Dr. Chandrashekhara Krishnappa**, nick named **butterfly professor** of entomology dept, UAS-B has poured in his heart, anger, sarcasm, pain, facts very judiciously, more than that, contextually into the article. KT thanks Prof. Chandra for his '**uneditable**' write-up which I did not dare editing as I feared destruction of the flow & distortion of the facts.....

**Read on.... search your soul.....and respond. The best response would be published in the next issue of KT**  
**Dr. Chandra's**  
**Phone: +91 9243065444**

## Drought.....the most dreaded word in Indian economy!

Every year the industry, business and pundits of Indian economy eagerly wait for the monsoon forecast by IMD. Quite simply a good monsoon means a bountiful harvest and good harvest means – disposable income in the hands for farmers. A good monsoon also means fewer power cuts and increased industrial productivity. It is not surprising that RBI, trade bodies (FICCI) and international rating agencies hedge their economic outlook on monsoons. That nobody likes a drought is a no brainer, for drought is the single most dreaded word in India.

The serious water crisis in the country was brought into public *consciousness*, through the most unexpected of quarters - the English game of cricket. But for Indian Premier League the country would not have discussed the specter of drought. Interestingly, it was the same country and the same citizens who had completely ignored the passionate appeal for judicious water management by its visionary President, Prof. A P J Kalam! But then, even as the PIL against IPL brought the issue of water crisis into focus, the response was typically Indian in nature – just a knee-jerk. IPL matches were shifted to other venues and there is also some talk of shifting IPL outside India. The cause of action – water shortage was given a short shrift, save for sharing distressing images on WhatsApp.



**Bengaluru Famine-1876-78 Photo Courtesy: Horace Harral**

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ಅನು ಹೋಗುಗಳಲ್ಲ ಮೇಗು ಕೀಳುಗಳಲ್ಲ  
 ಭೋಗಗಳ ಅಲ್ಲಿ ಮೊದಲಿಲ್ಲ, ಯೋಗಿಗೆ!  
 ರಾಗವೇ ಇಲ್ಲ ಸರ್ವಜ್ಞ  
 ❀  
 ಹೆಚ್ಚು ತುಂಬಾ ಹಸು; ಮಗೀಗೆ ಹಾಲಿಲ್ಲ!

In the elections held on 27<sup>th</sup> Dec, 2016, the following contestants were elected to the Managing Committee of IAT for



the period 2015-2018 and subsequently the office bearers were also chosen.



**Dr. M. Mallappa**  
President



**Dr. G. Eswarappa**  
Vice President



**Ms. C.N. Nandini Kumari**  
Vice President



**K. Krishnappa**  
Secretary



**Dr. Shivamurthappa**  
Treasurer



**R. Ramamurthy**  
Joint Secretary



**K.P. Aiyappa**  
Member



**S.N. Lakshminarayana**  
Member



**N.P. Shivashankar**  
Member



**Siddaraju**  
Member



**P. D. Jatti**  
Member



**T. Made Gowda**  
Member



**B.R. Nagabhushana Reddy**  
Member

### EX-OFFICIO MEMBERS

- The Vice-Chancellor, UAS, Bengaluru
- The Vice-Chancellor, UAS, Dharwad
- The Vice-Chancellor, UAS, Raichur
- The Vice-Chancellor, UHS, Bagalkot
- The Vice-Chancellor, KVAFSU, Bidar
- The Director, Dept. of Agriculture, KSDA
- The Director, Dept. of Watershed Development Dept, KSDA
- The Director, Dept. of Animal Husbandry & Veterinary Sciences, KSDA
- The Director, Dept. of Fisheries, KSDA
- The Chief Conservator of Forests (Development), KSDA
- The Director, Dept. of Horticulture, KSDA
- The Commissioner & Director, Dept. of Sericulture, KSDA
- The Commissioner, Dept. of Agriculture Marketing, KSDA
- The CGM, NABARD, R.O, Bengaluru



**Dr. D.M. Hegde**  
Co-opted Member



**Dr. S.C.V. Reddy**  
Co-opted Member



**Siddalingappa**  
Co-opted Member



**Gurnath**  
Co-opted Member

**The following Managing Committee members were chosen as Chairmen of the following Sub-Committees:**

**Sub-committee**

**Chairperson**

- |  |                                |
|--|--------------------------------|
| 1. Seminar and Endowment                 | Dr. G. Eswarappa               |
| 2. Agricultural Policy and Development   | B.R. Nagabhushana Reddy        |
| 3. Agribusiness Consultancy Services     | R. Ramamurthy                  |
| 4. Cultural, Sports and Health           | K.P. Aiyappa                   |
| 5. Ecology and Environment               | K. Krishnappa                  |
| 6. Enrolment and Regional Chapters       | P.D. Jatti & N.P. Shivashankar |
| 7. Extension Education and Agri-tourism  | Made Gowda, T.                 |
| 8. Infrastructure and Maintenance        | Dr. M. Mallappa                |
| 9. Knowledge Enhancement                 | Siddaraju                      |
| 10. Newsletter, Publications and Library | S.N. Lakshminarayana           |
| 11. Youth and Women Empowerment          | Smt. C.N. Nandini Kumari       |
| 12. Finance                              | Dr. Shivamurthappa             |

**IATians punctured..... thanks to Dr. Sukur!**

'Diseases like Cancer, BP, Sugar, Arthritis & many Women related disorders etc., can be cured by practicing acupuncture' said Dr.A.Abdul Sukur. He was speaking in a program on Acupuncture where he treated several IATians & their family members on 26<sup>th</sup> March 2016 @ IAT premises.



While calling Acupuncture, a drugless therapy, he extensively spoke on the importance & impact of 'pancha buthas' on human health. Dr.A.Abdul Sukur who also serves as an Executive Director, National Institute of Indian Classical Acupuncture was assisted by his team of 10 members. Some IATians

who underwent the treatment shared their experiences. Dr. M.Mallappa, President, IAT presided over the program and Mr.K.Krishnappa, Secretary, IAT welcomed the participants, introduced the guest and proposed vote of thanks.



**Republic Day, Bengaluru**

**Dr. Mallappa hoists a Tricolour**

67th Republic Day was celebrated on 26<sup>th</sup> January 2016 at 9.15 A.M by IATians by hoisting the Tricolour and singing the National Anthem.

Dr. M. Mallappa, President, IAT, Dr. G. Eswarappa, Vice-President, M.C. members Mr. K.P. Aiyappa, Mr. P.D. Jatti, Technical Manager, Mr. D. Krishnappa, and Accountant Mr. R.M. Shamanur participated in the celebrations.

**Dr. Shivanna, V.C., UAS Bengaluru,** was the Guest of Honour and Mr. M.V. Rajashekarana, Former Minister of state for Planning, Gol was the chief guest & Mr. Padmanabha Kedilaya V. District and Sessions Judge was the Special Invitee on the occasion of Republic Day, celebrations on 26.1.2016 at Hotel Residency at Bengaluru.

## Republic Day Celebrations @ C'Durga



Republic Day was celebrated by Chitradurga Chapter on 26<sup>th</sup> January 2016 at IAT premises. While Dr.E.Jayaram Reddy, IAT President hoisted the National Flag Dr.S.Laxman Kallennavar, JDA, Chitradurga, all the Executive Committee members co-opted members, IATians and the invitees participated in the program.

## Anjaneya honours Thippe Swamy



Dr. C. Thippeswamy, Secretary of **always vibrant IAT**, C'durga presented the **Best Performer-2016**, a District Administration Award by the by the Hon'ble Minister Mr. Anjaneya on the occasion of Republic Day on 26<sup>th</sup> January 2016.

## Utilise Govt. schemes & support"- Raichur Farmers advised

Various speakers who addressed the 65 odd farmers from Appanadoddi, Naganadoddi, Kotha Doddi and Matamana Doddi villages in the '**One Day Program on opportunities for dairying & facilities from Govt'** jointly organized by Raichur Chapter, KVK, Krishik Samaj, Forest Department,

Grama Vikas Samsthe and Rayasiri Organic Farming Production Company on 20<sup>th</sup> January, 2016 advised the farmers to utilize the facilities provided by the govt.

While Dr.Muralidhara, Animal Science faculty of KVK suggested that farmers should pursue poultry and sheep rearing besides dairying for their economic growth, Mr.Nanjappa Swamy, Asst. Manager from KMF advised them to utilize the services of KMF.



Mr. Veeranayaka, Asst. Director, AH&VS explained the subsidy schemes of AH&VS Department for Buffalo, cow, sheep and poultry rearing. Mr.Shivaraju, Deputy Conservator of Forest requested the farmers to adopt cost-effective Integrated Farming system, Organic Farming and also Agro Forestry. He said that the farmers can obtain seedlings of Drumstick, Nimbe, (Citrus), Curry leaf, Teak, Honge, Neem and other plants from forest dept. under Employment Assurance Scheme (EAS). Continuing, he added that an amount of Rs.45/- per plant will be given in a three year period to maintain the plants.

Mr. Narayana Raju, Deputy Principal Manager, NABARD stressed on the savings and to utilize the loans for the purpose they are raised in order to repay the loans easily. The Banks are ready to advance loans to any farmer provided the repayments are in order. He requested the women farmers to maintain one or two cows/buffalos in order to maintain the family from their products.

Mr.S.M.Sidda Reddy, President, IAT Raichur and President, Taluk Krishik Samaj joined the other speakers in urging the farmers utilize the loan facility from the banks to purchase cows & buffaloes & to establish the Milk Societies in the area.

While Mr.Mohan Chavan, Training Coordinator, KVK anchored the program, Kumari Radhika, Field Coordinator from Grama Vikas Samsthe welcomed the audience and Mr.Basavarajaiah, Program Coordinator, Grama Vikasa Samsthe proposed vote of thanks.

## Shivamogga farmers remember Charan Singh on National Farmers Day 2015

Choudhary Charan Singh who served the country as Deputy Prime Minister, Home Minister, Finance Minister of Gol and Chief Minister of UP was remembered on the **National Farmers Day** by Mr. Madhusudhan, JDA & President IAT, Shivamogga on 27th April, 2016. While farmers celebrated it as a '**Jai Kisan Jai Vigyan Divas**', a **Farmers-Scientists Interaction Program** at Tammadihalli, a village selected under **Samsadara Adarsha Grama Scheme** in Shivamogga Taluka to mark the occasion In his presidential address Mr. Madhusudhan paid rich tributes to Charan Singh for his contribution to the farming community in India .



In his introductory speech Mr. Mohan Kumar, ADA Shivamogga stated that the Agriculture Department has started a '**Custom Hiring Center**' in collaboration with Shrikshetra Dharmasthala Gramabhivruddi Samsthe of Dharmasthala at Ayanur. Hitech Implements, Sprayers, Weed cutters, Paddy Transplanters, Harvesters cum Threshers of Paddy and Maize etc. are available on hire basis for farmers at low rates compared to private suppliers at the centre. He urged the farmers to avail individual benefits like Hitech Implements, sprinklers etc. at subsidized rates from the Department.

Mr. Manjappa, a progressive farmer and Ex.President of Grama Panchayat inaugurated the program. DDA Shivamogga Dr.K.P.Arun, ADA Shivamogga Dr.T.M.Soumya, Dr.Nagaraj, ADA SMS Mr.T.Shivakumar, ADA (Enforcement), Mr.S.Maruthi, A.O, Kumsi RSK, Chandrasheker, AAOs, ATMA & other field staff and farmers of Tammadihalli G.P. participated in the program jointly organized by Agriculture Department Shivamogga and Krishi Vignana Kendra, Shivamogga.

While Dr.B.C.Hanumantha Swamy, spoke on Choudhary Charan Singh's contributions to agriculture sector & activities of KVK, Shivamogga, Dr.Soumya of KVK shared some vital information on crop management practices,

Mr. T.Shivakumar ADA, SMS highlighted the significance of Soil Health Mission, Soil Testing and use of Neem coated Urea.

Mr.Manjappa, Mr.Halayya of Tammadihalli & Mr.Suresh of Chikka Marsa, all, progressive farmers also shared their experience.

Mr.S.Maruthi, ADA Enforcement and Secretary, IAT Shivamogga chapter welcomed, anchored and proposed vote of thanks.

### VC-UAS-D bats for organic Terrace gardening by women

“Follow organic terrace gardening in your households to aid produce healthy vegetables & healthy food for your family and serve as model for future generation” said Dr. D. P. Biradar, VC, UAS-D while addressing the women on the eve of **International Women's Day celebrations**.

He was addressing the rural & urban Terrace Gardening women trainees of Dharwad district under **Rashtriya Krishi Vikas Yojane** on 8<sup>th</sup> March, 2016 at KVK, Dharwad. He also congratulated the women participants and expressed that the trainings given to women are implemented successfully and fruitfully too; more

*Continued on Page 8*

### 'Adopt New Technology in Ground nut cultivation' Dr. B.S. Janagoudar @ Vijayapura

Adopt new technology in Ground nut cultivation; get the soil health tested; use water judiciously; use new varieties of seeds; all kinds of seeds produced by UAS-D are available at the Seed Unit, RARS, Vijayapura”said Dr.Janagoudar, Special Officer [Seed] and Director of Research, UAS Dharwad.



He was addressing a group of trainee farmers who participated in the **Summer Groundnut Seed Production Training-Cum-Field Day inaugurated by him &** organised jointly by Seed Unit, RARS, Vijayapura and

Dr. Ashok S. Sajjan Professor and Head, Seed Unit, RARS, Vijayapur and Secretary , IAT, regional chapter Vijayapur, in his introductory remark said that the seed is the basic input in agriculture & the efficiency of other inputs depends on the seeds only. UAS Dharwad has initiated Farmer Participatory Seed Production Program on Groundnut. He urged the farmers to use the high quality-high yielding UAS-D seeds to reap better results. It is better not to use bunch groundnut varieties as they are self pollinated, he added.

#### The Number Game!

Four three eighty five

4385

.....that's the no. of IATians @ the end of March 2016!

**Welcome Newcomers! It's your Day!**



Droughts, famines or floods are not new to India, going by recorded history, they have been commonplace. A good evidence of this can be

found in Sir M Visvesvaraya's autobiography '**Memories of my working life.**' The legendary engineer, it appears he spent most of his career addressing two major problems across the country - drought and floods.

Drought is a natural phenomenon which has been a part of the geographical and ecological landscape of the sub-continent since millennia. The monsoon weather system with all its vagaries has ensured that good monsoons and droughts follow a somewhat cyclical pattern, occurring of course with varying intensities. In short droughts are as natural as good monsoons!

The scientific reasons for this are only beginning to be understood now, thanks to the science of physics and meteorology. It is only recently that the world weather system is being understood through the '**El Nino and Southern Oscillation**' phenomenon, which in itself is a result of solar temperature, sea surface temperature and a host of other factors acting in very complex manner.

### **“Chaos Theory” & “Butterfly Effect to understand drought”**

The whole weather system is so chaotic that an entire branch of physics called '**chaos theory**' is being used to understand global weather system. The complexity of the weather system has been metaphorically stated as the '**butterfly effect**' – which suggests that a butterfly flapping its wings far away in the rainforests of Amazon can unleash a cascade of events that will either result in a good monsoon or drought in India. However, anthropogenic actions such as

burning of fossil fuels, emission of green house gases and deforestation have only aggravated the situation.

Serious droughts have actually determined how the sub-continent has been peopled since pre-historic times. In the absence of technology, water siphons and other Persian innovations notwithstanding, severe droughts on the sub-continent led to mass migrations to new habitats in pre-historic times. In fact archaeological evidence of the Indian sub-continent, particularly the Harappan and Lothal pottery remains have been used to build a climatic history of India supported by other evidence like palynological evidence (pollen remains of different plant species which thrive in different climatic conditions).



As human ingenuity and skills improved, the ability to cope with droughts also improved. The best example of this is provided by the famed tank irrigation system of peninsular India which was widely adopted during the Vijayanagara Empire. Of course, water management technology in India even in the past was truly global and influenced by the Persian, Sumerian and Arabic engineers who were masters of water management in the Euphrates and Tigris river valleys.

This system served us perfectly well for over three hundred years; droughts were manageable with surplus stored water sufficient to

meet the needs of the population. The system was so effective that even the British encouraged and supported the tank irrigation technology. In spite of this there were famines and they have often been blamed, though not always, as arising out of faulty economic policies of British in managing agricultural production and produce.

### **Bengal famine**

The major recorded famines in recorded history are 1770, 1876-77, 1898 and 1943 (Bengal famine) where almost one third of the population perished. The famine of 1898 affected old Mysore too and millions died here in Bengaluru where the British had set up gunjee camps! Mercifully however, such massive famines are behind us, thanks to irrigation capacity and increased food production.

India receives 4000 cubic kilometers of water through rains alone (not to mention ground water), which works out to about 1million gallons of fresh water per person per year. Even if we consider that the rain occurs over a period of four months and water has to be conserved for rest of the dry season, it is clear that we are completely mismanaging the situation.

There are three reasons why we are facing the heightened impact of drought, there has been a whopping three-fold increase in population since independence (water for personal use), we are a far more industrialized now (water for industry and manufacturing) and engage in far more intensive

agriculture; a fourth factor which really is a fallout of the three factors is 'development.' With total rainfall remaining the same (on an average) for over hundred years; from where can we find water for our over-indulgence? The amount of water used annually for washing cars is perhaps not yet estimated! The mantra of Vikaas should willy-nilly include a chant on judicious water use planning. The natural resources are finite and nature does not tolerate inefficiency, Vikaas would critically depend on how efficiently we use these resources.

In the name of development we have already ripped off the watersheds. Mining, housing, industry everything has been recklessly placed anywhere and everywhere. This has resulted in destruction of draining channels of natural watershed and land use patterns which had evolved over centuries. The efficient tank irrigation system which served the drought prone peninsular India today lies in ruins. Many of these tanks have no inflow of water despite good rains of 70 – 130 cm in arid and semi-arid regions of southern Karnataka. As if this were not enough, we have also exhausted the capital part of water – the underground water. Instead of using it to tide over drought we use it on daily basis!

### Garland Canal, panacea for water crisis?

Thinking far ahead of his time K L Rao, the irrigation engineer and a minister in Nehru's cabinet proposed the so called 'garland canal' in 1972 for inter-connecting all Indian rivers (both seasonal and snow-fed rivers). The ecological impact, social implications and the quarrel between states in case the plan takes off is a different matter. Inter-basin transfer of water, first proposed by Arthur Cotton, is an idea whose time has come. Connecting cities by high-speed trains may be important, it is far more important to ensure connectivity in the flow of water – the elixir of life. However, given its contentious nature, its successful implementation would critically hinge on leadership of a true statesman who is trusted by all stake-holders. We just need to wait, may be for generations.

**Here are some broad pointers on what we need to do to tackle the problem of water scarcity. The details, pros and cons of each of these broad strategies are not outlined here due to space constraints. Many of these have been tried out on a pilot basis in the state; in that sense these are not new but only require a new resolve!**



- First and the foremost, attention has to return to population growth, we cannot keep increasing in numbers despite the opinion of political economists.
- Completely re-haul and restore the tank irrigation system in the state. Haphazard de-silting of tanks for sand-mining and brick making should be stopped forthwith.
- Implement mission mode delineation of every single watershed using Remote Sensing imagery and excellent survey maps.
- Implement crop plan for state based on water availability. Growing areca, sugarcane, cotton and paddy by bore-well irrigation in arid and semi-arid tracks should be dissuaded by disincentives and adoption of recommended crop plan should be positively incentivized.
- Even where irrigation is available non-consumptive use of water must be encouraged. The new irrigation schemes with their focus on efficient irrigation technology will hopefully address this.

- A stringent ground water policy has to be put in place in consultation using whatever data we have with central ground water commission and other agencies.
- Take up massive reforestation program in all watersheds for water conservation.
- Promote use of desalinated water by all coastal industries, food processing industries etc. by incentivizing captive desalination plants.
- Fine-tuning industrial policy can also help refine water management. Non-water guzzling industries like garment manufacturing, software development, electronic units (only assembly not manufacturing) etc should be located in water scarce districts to create employment *in lieu of* intensive agriculture.

**Let us be very clear on this - droughts will continue to occur may be with increasing frequency and have greater impact owing to population, the only way out is to find a solution, not by indulging in blame game, but by working together. Can we do it? The future of our civilization (we are hopefully adequately civil!) hangs in balance on the answer to this question.**

### ಗಾದೆಗೆ 'ಬರ'ವಿಲ್ಲ; ಗಾದೆ ಬಲ್ಲವಗೆ ಬಾಧೆಯಿಲ್ಲ! (ಬರಗಾಲದ ಗಾದೆಗಳು)

- ಬರ ಬಂದರೆ ಊರು ಬಿಡಬೇಡ; ದಂಡು ಬಂದರೆ ಊರಲ್ಲಿರಬೇಡ
- ಬರಗಾಲದಲ್ಲಿ ರೊಕ್ಕ ಹಿಡಿದುಕೊಂಡು ಭತ್ತಕ್ಕೆ ಅಲೆದರು
- ಬರ ಬಂದ ಕಾಲಕ್ಕೆ ಮಗ ಉಂಬೋದು ಕಲಿತ
- ಬರದ ಅನ್ನ ತಿನ್ನುವವ ಹೋಳಿಗೆ ಬಯಸಿದನಂತೆ
- ಬರಗೆಟ್ಟು ಬರಿ ಬಾಳೆಗೆಡ್ಡೆ ತಿಂದ ಹಾಗೆ
- ಬರಬರ ಭತ್ತ ಕೈ ಹಿಡಿದೆತ್ತ
- ಬರ ಬಂದರೆ ಮೂರು ದಿನ; ಮಾತು ಅನುಗಾಲ
- ಬರವಿಲ್ಲದ ಕಾಲಕ್ಕೆ ನೆಲ ಎದ್ದು ಬಡಿಯಿತು; ದೆಸೆ ಮುರಿದ ಕಾಲಕ್ಕೆ ಕಸವೆದ್ದು ಬಡಿಯಿತು



women should participate in such trainings and assist in transfer of need based technologies. He also distributed seedlings of banana, curry leaf, tomato, brinjal and chilli, varieties of local seeds of different vegetables and a handbook of Home Science technologies to the participants.

Dr. Shailaja D. Naik, Dean, Home Science College, Dharwad said that women are playing an important role in dissemination of scientific knowledge and suggested them to adopt the inputs of the handbook provided. She also advocated that women are empowered.

Ms. Shobha Desai, President, Yoga Mitra Mahila Mandal, Dharwad promised that the members of SHG will join hands in creation of **“Swachha Gruha”** through utilization of household waste for terrace gardens in future.

Ms. Varsha Samuels, a Dharwad resident and State level terrace gardening awardee, Ms. Paravva, an organic farmer of Galagihulakoppa and Mr. R. S. Bhavikatti, Head, Sarvodaya Maha Sangh, BAIF, Surashettikoppa, shared their experiences on terrace gardening and use of medicinal plants for health benefits.

Dr. S. M. Mantur, Senior Scientist and Head, KVK, Dharwad, in his introductory remarks on importance of celebration of International Women's Day requested the participants to achieve this year's theme **“Planet 50:50”** for gender equality by 2030. More than 250 women participated in the training program.

Presiding over the program, Dr. V. I. Benagi, Vice President, IAT, Dharwad and Director of Extension said that this program shall serve as a link between the women groups and Krishi Vigyan Kendra for the future trainings.

Mr. T. S. Rudreshappa, President IAT, Dharwad and Joint Director of Agriculture, Mr. C. I. Hugar, Treasurer, Mr. Mallalla Hubballi, MC member, IATians and staff of KSDA were present during the program jointly conducted by IAT, Dharwad and Directorate of Extension, UAS, Dharwad

Dr. B. N. Vishwanath, President of Garden City Farmers and Consultant, Organic Terrace Gardening, Dr. Rajendra Hegde, Director, Biological Research Innovation Centre served as resource persons. During this period besides training on plant care, organic farming, integrated pest management, kitchen gardening, vermicomposting and demonstration of pot culture followed by discussions were also held.

## “Diploma Certificate must for Agri-Input Dealers”-Dr. Mallappa

“The Union Govt. has made the obtention of Diploma Certificate mandatory for Agri-input dealers within two years. The Dept. of Agriculture will have to disallow any business if they fail to obtain the certificate” said Dr. Mallappa, President, IAT & Former Director of KSDA.

He was speaking to the input dealers who attended the Diploma Course on Agriculture jointly organized by the District administration, Zilla Panchayat,, Agriculture Department, Davanagere Regional Chapter of IAT on 23<sup>rd</sup> March, 2016 at Tungabhadra Sabha Bhavana, D.C.'s Office, Davanagere.



The Diploma course on Agriculture to the Input Dealers programme was organized by district administration, Zilla Panchayat,, Agriculture Department, Institution of Agricultural Technologists, Davanagere Regional Chapter on 23-03-2016 at Tungabhadra Sabha Bhavana, D.C. Office, Davanagere.

The program inaugurated by Mr. R. Girish, CEO, ZP, Davanagere was attended by M. V. Sadashiva, Joint Director of Agriculture and also the President of IAT, Davanagere Chapter who stated that diploma classes will be conducted for agriculture input dealers under ATMA project of State Department of Agriculture with the help of Hyderabad based MANAGE.

IATians Ms. Hamsaveni, DDA, Mr. B. Umesh, ADA, Mr. K. Siriyanna, ADA and other IATians also participated in the program along with 160 Input Dealers of the District



Dr. MSN played an important role in the Conference where practitioners from various parts of the globe participated. The Conference, itself a cross-disciplinary in its scope, created a forum for the discussion of innovative theories and practices of sustainability.



### Dr. G. M. Hiremath goes Dutch!



**Dr. G. M. Hiremath,** Assistant Professor of Agricultural Economics, College of Agriculture, Raichur

participated in

the International Short Course on **“Market Access for Food Security Towards Pro-poor Inclusive Market Development Payment”** held in Wageningen, The Netherlands from 30<sup>th</sup> November to 18<sup>th</sup> December 2015 organized by the **Centre for Development Innovation (CDI), Wageningen UR**. This program was sponsored under the Netherlands Fellowship Program (NFP) financed by the Dutch Ministry of Foreign Affairs from the budget for development cooperation.

### MSN plays a pivotal role in 12th ICECESS

**Dr. M.S. Nataraju,** Professor and Coordinator, NAEB, UAS-B attended the **Twelfth International Conference on Environmental, Cultural, Economic & Social Sustainability** as an in-person participant and a speaker. Dr. M.S. Nataraju presented a paper on **Small and Micro Enterprises for Sustainable Forest Developing** in a themed panel in Forest Conservation and Environmental Management.

### Dhanpal's buys a lock in China & turns its key in Turkey!



**Dr. G.N. Dhanpal,** Professor of Agronomy and Scheme Head, AICRP on Weed Management, MRS, UAS-B,

Hebbal was invited to present a paper entitled **“Effect of weed management practices with fertility levels on weed flora, grain yield and economics of transplanted rice in southern transition zone of Karnataka** in the Konuralp Rice workshop in Duzce, Turkey from 14-16 December, 2015.

He was also invited as Chairman to conduct a session on **“Ecology, phylogeny and evolution in parasitic plants”** in the 13<sup>th</sup> World Congress on Parasitic Plants held at Kunming, China from 5-10<sup>th</sup> July, 2015.

### U, A Scientist? Share your research with KT

We are proud that our UASites are visiting various countries, delivering lectures, attending conferences, seminars, workshops, round table conferences.....in the rush of publishing these visits in KT, their real contribution is being morphed & the report is simply becoming dry & routine.....Hence, may I suggest that if any of the University Scientists have done a path-breaking research resulting in a long-term benefit to agriculture, KT will be pleased to publish a gist of the research.

The research should have been recognized at the state/national/international level; it should be a unique research which helps the farming community; it should have been highly successful on the field. The achievement accompanied with photos, written in a **layman's language not exceeding 1000 words in MS Word format may be posted to us**

On an approval from the specialists in the respective field, if published, we will be doing some justice to the work done & the IATian who did it.

### Kumsi chosen as Ombudsman



**Basavakumar Kumsi,** graduated in the year 1984 B.Sc. Agri. Known as a Progressive Farmer and a Social Activist has been appointed as **Ombudsman MGNREGA, ZP Shimoga** on 2<sup>nd</sup> July, 2015. As the President, **Sahyadri Rural Development Society (R) Shimoga,** an NGO, Mr. Kumsi involved in promoting Agricultural & RDPR activities since 2002. He has also served as a member in the Board of Management at UAS (B).

## Lifetime Achievement Award to Krishna Murthy

Dr. Krishnamurthy N received Lifetime Achievement Award (Teaching) on the occasion of 2<sup>nd</sup> International Conference on Environment and Ecology held on 7<sup>th</sup> March, 2016 at Bharathiar University, Coimbatore, Tamil Nadu.



This award has been instituted for honouring the the persons who are guiding the people facing the conflict between human activities and environmental constraints who have to prepare themselves save the fragile and endangered planet already burdened by natural resources.

The recipient of this award will also help in developing new & humane approach to environmental education and the unending assaults on the Mother Earth.

## Amaresh shines in Bangkok!



**Dr. Amaresh, Y.S.**, Assistant Professor of Plant Pathology, College of Agriculture, UAS Raichur attended the International Conference on

**“New Challenges in Plant Protection and Awareness for Crop Health”** held at Bangkok, Thailand from 20<sup>th</sup> to 22<sup>nd</sup> January 2016 and delivered the lead paper on **“Antagonistic Activities of Trichoderma spp against major Soil borne Pathogens”**.

## Wah! VLM Prasad completes an international course



Dr. V.L. Madhuprasad, Professor of Agriculture Extension, has successfully completed the Inter-national course on **Managing for**

**sustainable development impact –** An integrated approach to participatory planning, monitoring and evaluation held in Wageningen, The Netherlands, during March 2016.

## Gurudevobhava!



**Dr. B.V. Temburne**, Associate Professor, Dept. of Plant Breeding & Genetics, College of Agriculture, UAS Raichur received **Excellence in Teaching Award** for his outstanding contribution in the field of Genetic and Plant Breeding on the occasion of **National Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2015)** during 12-13 December, 2015 held at Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya Gwalior (M.P.)

## Sarvoththama Award to Angadi



**Mr. Siddappa C Angadi**, IATian and Program Assistant (Soil Science), Krishi Vigyan Kednra, Bagalkot UAS-D was awarded **Zilla**

**Sarvottama Seva Prashasti** on the occasion of republic day by district administration Bagalkot.

## Neat Semon before AI, Bala finds the way for RB



**Dr. N.N. Balasubramanya**, former Principal Scientist (Biochemistry), NDRI (SRS) Bengaluru was awarded **“Best Citizen of India Gold Medal Award”** for his outstanding contribution to the field of Animal Biochemistry and Dairy Industry and farmers in particular.

The award carrying a Gold Medal, a Trophy and a certificate, was conferred on Bala at the **“National Unity Conference”** organized by **“Global Economic Progress and Research association”**, New Delhi. **Dr. Bala** has Biochemically resolved the **“Repeat Breeding (RB)”** in cows following Artificial Insemination (AI).

On AI, 30 to 35% of cows do not become pregnant. Dr. Bala's team has identified a micro-constituent which becomes distinct on extending the neat semen. By introducing micro constituent into the genital tract of RB cows just before performing the AI, 99% of RB cows become pregnant thereby improving the economic conditions of the farmers.

## Srinivas blessed with TWINS....., one for plant protection and the other for conservation!

**Dr. A.G. Srinivas**, Associate Professor of Entomology, UAS Raichur received **“Dr. B. VASANTHARAJ DAVID”** award-2016 for his outstanding research contributions in the field of plant protection at the **XV AZRA International Conference on Recent Advances in Life Sciences** held at Ethiraj Women's College, Chennai on 11-13<sup>th</sup>



**Achievement Award of the ISAPM Society**” for his contributions towards the livestock development during International Conference, ISAPM 2016 on **“Innovative Designs, Implements for Global Environment & entrepreneurial Needs Optimizing Utilitarian Sources(Indigenous)”** held at the College of Veterinary Sciences, Rajendra Nagar, Hyderabad, from 28<sup>th</sup>-31<sup>st</sup> January 2016.

Feb 2016 and **“Green Transport Technology of the Year Award 2016”** for outstanding contribution to the Conservation of the Environment at the **International Conference on Green Technologies for Sustainable Ecosystem** held at St. Joseph's College Autonomous, on 26<sup>th</sup> and 27<sup>th</sup> Feb 2016.

### Young Scientist Santhosh chases an award, not gold@ Dubai!



**Dr. Santhosh G.P**, Assistant Professor, Department of Agricultural Microbiology, College of Agriculture, Bheemarayanagudi-585287, UAS-

R was awarded the 'Young Scientist Award' for the paper entitled **“Formulation and shelf life of liquid biofertilizer inoculants using cell protectants”** in the 1<sup>st</sup> International conference on Science, Engineering and Technology for Academicians, Industries and Society held at Birla Institute of Technology, Offshore campus- Ras al Khaimah, Dubai, UAE during November 21<sup>st</sup> to 23rd, 2015.

### “Life Time Achievement Award” for a live stock manager



The Indian Society of Animal Production and Management honoured Dr. M.M.Kailas with **“Life Time**

### Desai visits France



Dr.B.K.Desai, Professor of Agronomy, College of Agriculture, UAS, Raichur has participated in the 5<sup>th</sup> International

Symposium for Farming System Design from 7-10 September 2015 held at Le Corum- Montpellier, France and presented a paper entitled **“Design and development of integrated farming system module for various agro-eco systems of Hyderabad- Karnataka Region”**

### IAT'ian elected C'durga Kannada Sahitya Parishat



**Mr. Dodda mallaiah**, an IATian has been elected as the President of Chitradurga Zilla Kannada Sahitya Parishath for a period of three years from 2015-16 to 2018-19.

### ಮುಂಗಾರಿಗೆ ಮುನ್ನ

ಉತ್ತಮ ಹರಗದಲೆ | ಬಿತ್ತರವು ನೋಡದಲೆ |  
ಹೊತ್ತೇರಿ ಹೊಲಕಿ ಹೋದರೆ ಅವ ತನ್ನ |  
ನೆತ್ತರವ ಸುಡುವ ಸರ್ವಜ್ಞ

### IAT, getting smarter! WhatsApp Group created!

*A million dollar question for all the IATians was how to reach maximum no. of IATians in a short span of time to make them attend the programs of IAT and actively participate.*



*It was a herculean task.....for those who had to muster the attendance.....and also for those who had to speak..... speak..... and speak to the empty chairs!*

*It was suggested by many including your editor when he was an MC Member during 2009-12 that IAT office should have a mobile phone of its own to share the details of the events/programs organized by it with the members.*

*Now, it has taken a shape.....IAT is getting a smart phone to share the activities of IAT with its members instantly, send alerts and reminders. This effort has already been received with much excitement by the **“Active IATians”, a WhatsApp group created by IAT.....***

*It has also opened up a platform for IATians to share the information, thank God, not a conflict yet! I would rather support a conflict and confusion than a silence! Some wonderful discussions on the latest developments in agri-sector have taken place giving a hope for healthy developments. Aimed only to share the IAT activities & information pertaining to agriculture, the group has an in-built system to discourage anything extraneous to IAT & agriculture.*

*The First Group is really performing well & it is proposed to create minimum of four to five such groups of 250 participants each. This, surely will make more & more IATians to show up in number at IAT.....it is expected.*

*Mr. Rama Murthy has taken the onus of running the show initially.....& has really done well to put the effort on the right track.....*

*Thank you Ram!*

## "Centre of Excellence" @IAT



Mr. Rama Murthy R, the Chairman, Sub-Committee for Agribusiness Consultancy has announced that he is

contemplating to create a "centre Of Excellence" @IAT, Bengaluru to pursue the following goals:

- \* To develop a good library with books of different fields of agriculture, Agribusiness and Management
- \* To enroll Resource Persons -experts in all faculties of Agriculture Science

### IAT needs experts & expertise in the following fields to create this centre:

Putting the brains together Data collection, project idea & identification / project developing, crop production in field / greenhouse / covered /net house /monitored crop management. productivity enhancing techniques, input supply & distribution, seed production management, post-harvest management, agri-packaging technology, storage and warehouse technology management, backward & forward integration, contract farming, import/export management, policy developers / motivators / marketing, economists, Business management, biotic /abiotic management, food including veg / fruits processing & handling, Horticulture, Dairy, Forestry, Sericulture biodiversity and all other faculties of agriculture science including CA'S /CS/ engineer 's apart from all Agricultural science graduates..... the list is endless.

Mr. Murthy has appealed to all graduates to enroll themselves as their field of expertise with IAT irrespective of their age.

One can seek a defined format thru a request mail to

[iatbangaloreabc@gmail.com](mailto:iatbangaloreabc@gmail.com)/[iatbangalore@gmail.com](mailto:iatbangalore@gmail.com) to register themselves as resource persons/experts. IAT will upload the list of experts for resource persons on his official website. IATians also may contact Mr. Mahadevaiah.

## Once upon a time.....



### Go nostalgic...

Dear IATians, there are many such instances like the one narrated by Dr. Parameshwar in your life too.....Why not share them & make our funny bone tickle.....

You can write to "once upon a time..." Column on some emotional incidents too that you have come across and experienced while you were studying

Please post your nostalgic moments to us within 1000 words in MS Word Format with Photographs if any. The best will be published in KT

-Editor

### Hero scores zero!

Dr. G. Parameshwar, (GP) the present Home Minister of Karnataka & an alumnus of UAS-B was speaking.....

The occasion was the 40<sup>th</sup> re-union of 1975 batch of UAS-B celebrated a few months back. I was one of the invitees, thanks to Mr. H.P. Mohan & Mr.S. Narayana Swamy.

Dr. GP was really in an excellent mood to travel back to the glorious years of his study in Hebbal. He enthralled the jam packed hall at Kuvempu Sabhangana in GKVK by humorously narrating an incidence which resulted in failing of a candidate in a test.

He said " It was the time we used to have **un announced quiz** which made us shivering in our pants.....one of the very strict teachers had taken all of us off-guard & gave an unannounced quiz in a normal class where we all competed with each other to score the least!"

GP continued "We knew what we would score. Fearing that we may not be allowed to take a few related courses if we fail, decided to sneak into the chamber of the wily professor who fooled all of us to erase the pencil-written marks in his register & re-write our marks suitably"

"It was not an easy task as we had to do only in the thick of darkness. We waited till the nightfall to reach the place. As planned, one of my

closest friends, KG stood on my shoulders to reach the open ventilator which was found suitable (as he is a short guy) for his entry into the room/chamber of the professor! While my shoulder was still paining, he entered the room & used a torch to search the tables & drawers for the Marks Register.....Lo! He got it & armed with a pencil lying on the table, he changed the marks of all the brilliant students standing outside & came out triumphantly!"He added.

Continuing, GP said "Two days later, the professor announced the marks scored by each student, everyone who were part of the mission was happy except KG.....as the professor announced that he had scored 'zero' to our utter surprise.....The professor said "**KG has scored 15 out of 10.....!**" He had sensed the probable misadventure of KG & gave magnanimously a big Zero to our Hero". The whole audience burst into a loud laughter; the classmates, the wives and children of their batchmates who never knew this misadventure of their parents were seen discussing this after the event.....!

### ನೆನೆಯೋಣ ಸರ್ವಜ್ಞ ಉಂಬುವ ಮುನ್ನ

ಚೋಳವನು ತಿಂಬುವನು | ತೋಳದಂತಾಗುವನು |

ಬೇಳೆ ಬೆಲ್ಲಗಳನುಂಬುವನು ಬಹು ಕಾಲ |

ಬಾಳನೆಂದರಿಗು ಸರ್ವಜ್ಞ

ನವಣೆಯನು ಉಂಬುವನು | ಹವಣಾಗಿ ಇರುತಿಹನು |

ಭವಣೆಗಳಿಗವನು ಒಳಬೀಳನೀ ಮಾತು |

ಟವಣೆಯಲ್ಲೆಂದ ಸರ್ವಜ್ಞ

ಒಮ್ಮೆಯುಂಡವ ತ್ಯಾಗಿ | ಇಮ್ಮೆಯುಂಡವ ಭೋಗಿ |

ಬಿಮ್ಮೆಗುಂಡವ ನೆರೆರೋಗಿ | ಯೋಗಿ ತಾ |

ಸುಮ್ಮಿರುತಿಹನು ಸರ್ವಜ್ಞ

## “Pay the Farmer-scientist his due”

Let us pay the devil his credit.....  
which is long overdue.



I joined BScAg just b'cos I loved the perfume used by my brother's friend who attained superannuation a few years back! I thought that the farming was a cake walk at that time.....

Though I never laboured in the field, as a banker, I chased the farmers to give loan to them first & later for recovering it. While doing so, I came across many progressive & innovative farmers. You will also agree that most of the research since a few decades is conducted by our farmers on their field.....out of sheer necessity. The private companies also have conducted some research in various fields of agriculture.....mainly on how to fill their coffers..... The sad part is the failure of the research by our University Scientists in India in not reaching the farming community to the expected level.

The 'Lab to Land' concept has failed to see the success as was anticipated..... thanks to the lack of coordination on the part of UASs, line depts. & implementing agencies of agriculture. However, it is observed, the scientists of UASs and the researchers have not lagged behind in hogging the limelight for various other reasons unwittingly keeping away the real hero, the farmer, either by disinclination or by design..... I feel that whatever the intellectual property owned by our university scientists is being washed out on attending the conferences, seminars, paper presentations across the globe without much benefit to our farmers.

Hence, KT wishes to start an exclusive column 'salute the farmer-scientist' to pay the devil, the farmer, his due **from the next issue**.

KT invites fellow IATians wherever they are located to report any innovation, inventions, new technique, old village wisdom by any farmer- small, medium, bigger either poor or rich in any field of agriculture or in any form or school of agriculture sustainable, organic, zero tillage, Fukuvoka, Pallekar, integrated, Zero economy etc., .....and whatever that helps the farmer .....

### IATians are requested to file their reports keeping in mind the following:

- The reports should be only on the innovative farmer
- The reports should not exceed 1000 words
- The reports should be in only MS Word Format
- It would be wonderful if good photographs of the farmer & his field are accompanied with the report
- It will be published with the byline of the reporter under the column 'salute the farmer- scientist'

*Editor*

## No “Dr” for Agri. graduates, ICAR clarifies

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(Agricultural Education Division)  
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iatbangalore@yahoo.com)

### Sub: Agricultural Graduates using “Dr.” as prefix to their names –reg:

Sir,

Please refer to your letter dated 28/09/2015 regarding Agricultural Graduates using “Dr.” as prefix to their names. In this regard it is submitted that Dr.” is used as a designation for a person who has obtained a doctorate-level degree. Doctorates may be research doctorates or professional doctorates. Postgraduate research degree (Ph.D) holders are entitled as doctor. Dr. is also used as prefix for professional degree holders in the field of human & veterinary medicine. No such order exists for agricultural graduates.

Yours' faithfully  
Sd./-

(G. Venkateshwarlu)  
Assistant Director General (EQR)

## Santhe Swamy, invited to visit Germany



Young Krumbiegel

Santhe Narayana Swamy, Former SADH, has been invited by State Palaces, Castles & Gardens of Saxony State, Germany, to participate in the special exhibition on Krumbiegel in Pillnitz, starting on 4<sup>th</sup> June continuing upto November, 1<sup>st</sup>, 2016. He will be delivering a lecture on 5<sup>th</sup> June, 2016 highlighting the contributions of G.H. Krumbiegel, an eminent German Horticulturist who contributed for the development of Horticulture in the erstwhile Mysore State from 1908-1956.

Mr Narayana Swamy, who was instrumental in celebrating the 150<sup>th</sup> Birth Anniversary, says that Krumbiegel (contribution) has been responsible for the Lalbagh's present reputation as one of the world's best gardens. Lauding the efforts of Krumbiegel, Swamy recalled his services as a Great Landscapist, Orchardist, Economic Botanist, Town Planner, Architect and Conservationist. Though a German, Krumbiegel was almost a Mysorean in heart, Mr. Swamy opines. While remembering the contributions of Mr. Swamy in creating a beautiful garden for the UAS-B Alumni Association, IAT appreciates the recognition given to him by Germany & wishes him all the success.

Mr. H.P. Mohan, also an IATian, as a member of Mysore Horticultural Society, has also been invited to participate in the said exhibition.



Narayana Swamy

## I am back!

I am not rewinding one of Terminator series of movies where Arnold Schwarzenegger says "I will be back!"

I am back as the Editor of this Newsletter.....KT, with all my humility to serve IATians.

Earlier, I edited KT for 6 years from 2006-2012. It was a wonderful experience.....

writing & conducting surgery of words, layout designing, sitting with the DTP operator, coordinating with the printer etc., I really loved it.

Many people, with whom I interacted during the elections, remembered my role as the editor of KT & wanted me to take to pen-pushing again.

Thanks to the present MC.....It has reposed the same faith & confidence in me that I would scale up the beauty & quality of KT and chose me again as the editor of KT. I assure you that I would try to live upto their expectations & that of all IATians.

I do not like KT to be stuffed into one of your draws in the table as soon as it reaches you.....Making it more beautiful and experimental, more readable and colourful is my duty..... I humbly accept this responsibility.

The MC felt that the KT should revert to its original bi-monthly status from its present quarterly status & has approved it as KT has been carrying very belated reports generating scant or no interest to read.....

Hence, from August 2016 onwards, your KT will reach you as a bi-monthly. I request all the IATians to support it by filing their reports in MS Word Format immediately after the event/activity to retain freshness & currency of the news with **printable and clear photographs; not the ones clicked with even mobiles.** I have noticed that chapters are doing commendable work, but, failing to file their reports on time thereby deceiving themselves of the due recognition. I request them to avoid it.

One who is going to help me in making KT as exciting as possible in its own limitation is **Dr. Shridhara Adiga, a humble Soil Scientist Dept. of Agriculture.** The other one who is joining him is **busy bee entomologist Dr. Chandrashekhara Krishnappa from UAS-B.** Incidentally, he has contributed a special article on the drought the country is facing now in this issue. With them in the Sub-Committee as members, I am hopeful of making KT as presentable & as pleasing as possible.

**S.N. Lakshminarayana**  
Editor



### **You have left us, left our eyes wet...heart rending.....**



- Mr. H.R. Nanjundaiah, RCF, Bengaluru
- Mr. Ravindranath Gupta, Former A.O, Chintamani.
- Mr. S.P. Ramu, Former ADA, Bengaluru
- Mr. K.S. Narasimhan, Mysuru
- Mr. B.P. Venkataramaiah, Former Addl. D.A, Bengaluru

- Mr. K.V. Madhava Swamy, Former ADA, Bengaluru
- Mr. Rangaswamy, Former ADA, Bengaluru

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