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## Pune-based scientist elected American Physical Society fellow

#### **CSIR-NCL**

His work has attracted attention and funding from the Government of India as well as from companies such as Reliance, Indian Oil Corp (IOC), General Electric, Procter and Gamble, Honeywell, DuPont, General Cable Corporation.

Guruswamy Kumaraswamy, a scientist from the CSIR-National Chemical Laboratory (CSIR-NCL), Pune, has been elected a fellow of the American Physical Society (APS). This is a prestigious recognition, as the international scientific community elects fewer than 0.5% of APS' membership as fellows.

In a statement, the NCL said Guruswamy was honoured for his research project on 'Opening new routes to templated polymeric structures using mesophases and crystallization, and elucidating their physics'. Guruswamy is a 1996 graduate in BTech from IIT Bombay. He also holds an MS and PhD, received from the California Institute of Technology, USA, in 1996 and 2000 respectively. He did his postdoctoral research at the Max Planck Institute for Colloids and Interfaces, Germany, and joined CSIR-NCL in 2001.



Guruswamy's research falls into the broad area of soft matter that includes industrially-important materials such as polymers, surfactants, liquid crystals and nanoparticle colloids, added the statement. His group conducts experiments to understand and design the structure and properties of such materials. His work has attracted attention and funding from the Government of India as well as from companies such as General Electric, Procter and Gamble, Honeywell, DuPont, General Cable Corporation, Reliance, Indian Oil Corporation, among others.

Guruswamy's work has been previously recognised with the CSIR Young Scientist Award in Engineering Sciences in 2005, and the NCL-Research Foundation Scientist of the Year award for 2012-13. In addition to his research, Guruswamy has been actively involved in science outreach for school students and coordinates the Exciting Science Group. He received a commendation from the NCL Director in 2010, for his efforts towards promoting interest in science through the group.

October 31, 2016 Source: energy.economictimes.indiatimes.com/news/oil-and-gas/pune-based-scientist-elected-american-physical-society-fellow/55147775///





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#### **CSIR-IICT**



Deccan Chronicle | November 1, 2016



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## Greens threaten to move court over felling of trees

#### **CSIR-NEERI**

Expressing concern over the felling of trees near Mahatma Gandhi Mission (MGM) campus for constructing a memorial of Bal Thackeray, environmentalists have demanded the civic body to immediately stop the activity and also threatened to move court.

They said a study conducted earlier by city-based scientists in collaboration with National Environmental Engineering Research Institute (NEERI) and Council of Scientific and Industrial Research (CSIR) had revealed that 14 of the 17 locations in Aurangabad recorded high pollution levels.

"It is shocking that despite reports of the study revealing high pollution levels in such places triggering a red alert and only one place, MGM campus, being able to maintain standard norms because of the dense garden there, the Aurangabad Municipal Corporation (AMC) is bound to destroy the green lungs in the name of erecting the memorial," said environmentalist Kishore Pathak.

He said a group of environmentalists, including Milind Girdhari and advocate Swapnil Joshi, recently highlighted the issue and urged the municipal commissioner not to carry out any development activities and destroy the green lungs of Priyadarshini garden on MGM campus in Cidco at the cost of environment.



"The municipal commissioner has also assured us that no trees will be cut. But it is shocking that more than 50 huge trees were hacked by the civic body by pressing a bulldozer into service in an insensitive manner," Girdhari said.

"According to the report, the average concentration of PM10 (particulate matter) in the city ranged between 82.1 and 343.9 microgram per metric cube (g/m3), of which 14 locations reported alarming situation, while two fell under the worst category. Despite such alarming situation in the city, the authorities are turning out to be destructors in the name of development instead of taking care of the environment," said Rekha Shelke, principal of MGM's College of Journalism & Mass Communication, adding that if the civic body does not stop the destruction of green cover, she will be compelled to approach the court.

"Since 1982, MGM has been developing this green zone and has nurtured more than 1,000 trees of different species. In the meantime, the civic body has taken over the charge of the 17-acre land and started mercilessly hacking trees nurtured for years," she said.

MGM secretary Ankushrao Kadam has written a letter to the municipal commissioner demanding to stop tree felling immediately and also to initiate strict action against the culprits.

Vijay Patil, garden superintendent in the AMC, said no trees have been cut so far. "Only the shrubs have been cleared considering the safety and security of those visiting the garden. If needed, we will translocate the trees but will not hack them," he added.

Oct 29, 2016 Source: timesofindia.indiatimes.com/city/aurangabad/Greens-threaten-to-move-court-over-felling-of-trees/articleshow/55127925.cms



# Dr Jitendra leads 'Run for Unity' organized by IIIM

#### **CSIR-IIIM**

The whole nation is celebrating National Unity Day (Rashtriya Ekta Divas) today to pay tribute to former Home Minister of India and a great freedom fighter Sardar Vallabhbhai Patel. At Jammu, to commemorate the 141st Birth Anniversary of Sardar Vallabhbhai Patel, the Iron man of India, Run for unity was organized at different places today.

CSIR-Indian Institute of Integrative Medicine, (IIIM) Jammu also celebrated the day as National Unity day by organizing run for unity marathon in which hundreds of people from all walks of life participated. This Run for Unity marathon was led by Union Minister of State in PMO, Dr Jitendra Singh who was the chief guest on the occasion.

It was organized by Indian Institute of Integrated Medicines (IIIM) from its main campus, Canal road to Belicharana and back to IIIM Canal road.

Hundreds of volunteers including the staff and students of IIIM under the chairmanship of its Director Dr Ram Vishwakarma also participated in the Run for Unity.

While paying glowing tribute to Sardar Patel on his birth Anniversary, Dr Jitendra Singh described him among the towering personalities of the country who played a leading role in freedom struggle and uniting the whole India.

Terming Sardar Patel a symbol of dignity and unity of country, Dr Jitendra Singh said historians are of the opinion that merger of 500 princely States into Indian Union was not possible without his assertiveness. Sardar Patel was architect for the formation of Indian Republic, he added.



Dr Singh said Sardar Patel was known for his rectitude, conviction and quick decision making. It is a matter of vindication for all of us that after more than six decades of independence, in 2014, the Government had declared his birthday as National Unity Day, he added.

He said the run for unity was also taken out at various other places of the country.

Dr Singh said it is occasion for us to rededicate ourselves for unity and integrity of the country as cherished by Sardar Patel.

He congratulated Dr. Ram Vishwakarma and his staff for organizing run for unity besides doing world class science as this would have great impact on nation building. Besides the officials of the IIIM, social activists and prominent citizens also participated Run for Unity on the occasion.

November 1, 2016 Source: www.dailyexcelsior.com/dr-jitendra-leads-run-for-unity-organized-by-iiim//



## Amidst tensions, Diwali celebrated with religious fervour across Jammu

#### **CSIR-IIIM**

Scientists from the Indian Institute of Integrative Medicine (IIIM) also visited a BSF camp in Paloura in Jammu to celebrate Diwali.

Diwali, the festival of lights symbolising the victory of good over evil, was celebrated with religious fervour and gaiety across Jammu region on Sunday. People were seen exchanging greetings and sweets and bursting fire crackers. A huge rush of shoppers was also witnessed across the region with people purchasing sweets and gift items.

Elaborate security arrangements have been put in place across the region in the wake of the heightened tensions on the International Border and the Line of Control and the increase in infiltration attempts from across the border. "Elaborate security arrangements have been kept in place across the region, especially on the routes connecting the border areas with the city, to thwart the nefarious designs of anti-national elements," a police officer said.

A large number of people also went to border areas to celebrate the festival with soldiers guarding the frontiers in the region. Reports of Diwali celebrations also poured in from other districts of the region. Sixteen scientists, including four women scientists, from the Indian Institute of Integrative Medicine (IIIM) also visited a BSF camp in Paloura here and celebrated Diwali with the personnel.

The scientists visited to show solidarity and convey their best wishes on the occasion of Diwali to troops, a BSF spokesman said.

Oct 30, 2016 Source: www.dnaindia.com/india/report-amidst-tensions-diwali-celebrated-with-religious-fervour-across-jammu-2268833



# No more odd-even in capital? Delhi set to install air purifiers to tackle air pollution

#### **CSIR-NEERI**

To give Delhi a clean sigh of relief, air purifying systems will be installed at five locations and a mist fountain will also be installed at one major intersection to purify the air.

As part of a pilot project, air purification systems will be installed at five major intersections of the city within two months, the Delhi government said.

Delhi Transport Minister Satyendar Jain said a mist fountain will also be installed at one major intersection to help purify the air.

"We have identified five major intersections in Delhi where comprehensive air treatment systems will be installed. If the pilot project is successful, it will be expanded to other intersections as well," Jain said.

The system has been designed by the National Environmental Engineering Research Institute (NEERI) along with the Indian Institute of Technology Bombay (IIT-B).

The five locations where the systems will be installed are Sarai Kale Khan, Anand Vihar, Kashmere Gate, ITO and IIT Delhi/AIIMS.

"It is a modular system and can be scaled based on the space available at the intersections. It can even be installed on the central verge of the road," Jain said.

Jain added that a mist fountain will come up at one location.

"Experts say that it can have a big impact on pollution by arresting the pollutants in the air. Recycled water can be used in this fountain which will be supplied by Delhi Jal Board," Jain said.

Produced by Unit for Science Dissemination, CSIR, Anusandhan Bhawan, 2 Rafi Marg, New Delhi

## **PURIFICATION SETUP**

A government statement said the purification systems will tackle carbon monoxide, nitrogen oxide and hydrocarbons. "The system has potential to reduce carbon monoxide and particulate emission by 40 per cent to 60 per cent in 20 to 30 metre radius during peak hours of traffic," the statement said.

The decision was taken at the third meeting of the inter-ministerial task force set up by Delhi Chief Minister Arvind Kejriwal to tackle the issues of air pollution and garbage disposal.

## MORE THAN THAT

During the meeting, the government also decided that Rajghat power plant will be converted into waste-to-energy plant by December 2017. Jain had announced on Wednesday that the government is considering the proposal. "During the first phase, we will build a capacity of processing at least 4,000 tonnes of garbage. We intend to increase it to 6,000 and 8,000 tonnes in subsequent phases," Satyendar Jain, who heads the task force, said after the meeting. According to a Gulf News report, when asked if Delhi government will implement odd-even scheme during the coming winters, Jain said the government's main focus right now is to enforce bus lane policy which makes it mandatory for buses to ply in the designated lane.

"For that, we will need to remove encroachment on the roads which will significantly reduce congestion and will be more effective than odd-even scheme to curb pollution," Jain added.

> Mohak Gupta | October 29, 2016 Source: indiatoday.intoday.in/story/delhi-install-air-purifiers-pollution-odd-even-arvind-kejriwal/1/798471.html



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#### **CSIR-CIMAP**

# Farmready, a profit & potent turmeric variety

#### M SOMASEKHAR Hyderabad, October 25

Turmeric farmers in India have some good news. A new variety named CIM-Pitamber is available for commercial cultivation. It holds much promise for a large number of traditional Indi-(curcuma longa) is not just one of the popular spices, but also a valuable first aid-cum medical ingredient to tackle a range of anti-inflammatory problems.

Scientists at the Lucknowbased Central Institute for Medicinal and Aromatic Plants, CSIR-CIMAP conducted extensive research for eight years to identify and finally develop the high yielding variety. An average vield of 50 tonnes of rhizomes/ ha, containing more than 10 per cent curcuminoids has been leaf botch disease, affecting the demonstrated in multi-centre field trials.

One of the super yielding varieties with expected production of 60-65 tonnes of rhizomes/ha also contains more than 12.5 per cent curcuminoids. The general duration of the crop is 180-190 days, scientists said.

The active ingredient an homes where turmeric curcumin has a wide spectrum of medicinal properties. These include anti-inflammatory. wound healing, anti-cancer, antioxidants, anti-microbial as well as anti-aging properties.

#### Super clones

The scientists used genetic techniques on 130 germplasms collected from different places to select, cultivate, differentiate characteristics and finally develop super clones. The CIM-Pitamber is tolerant to the common turmeric crop.

The variety will be able to pro-



more curcuminoids and yields, more than double the existing varieties, and IISR Pratitiona, now grown in North Indian plains.

double their yields and also siginstitute said. The variety was endra Modi on the 75th founda-

tion Day of CSIR, which has 38 national labs, on September 26, Andhra Pradesh, Telangana, Tamil Nadu and the South generally account for 70 per cent of turmeric production, Trading Erode (TN), Duggirala (AP) and Kotesh Komar, in-charge, at CIMAP's Centre in Hyderabad.

India is the largest producer and exporter of turmeric and accounts for nearly 80 per cent of invat least eight large States.

The estimated consumption of the spice domestically is about 100 mg per capital amounting to around 480,000 tonnes per annum. However converte farmers have been facing trouble with stagnation in

#### Hindu Business Line | Kochi | Page 10 | October 26, 2016



#### **CSIR-NEERI**

ICSIR-Neeri revives barren land at Khapri village near Kalmeshwar

LORMAT NEWS NETWORK includ bambeo and Sarpanchs of reading to at Control bambeo and Director Control back of the second inclusis hamboo and said that re-rs NAGPUT  $\begin{array}{c} C & 8 & 11 & 0. \\ R & n & 11 & 0. \\ R &$ CSIR-Netional Environmental bood to the farmers, 487 barnhoe species of different varieties were planned on the degraded and at Khapri village. This is the forst time in bodis more than 50 vari-ettes of barnhoe collect. also creates employ-met on concentrations of the spectral spectrum of the spectrum text spectrum of the spectrum of were planted at one ment opportunities, he place (Khapri) for the added. He advised to benefit of the farmers as link this activity with benefit of the farmers as part of CSIR.B00 pro-gramme. Now the growth of the barboo expected to benefit the farmers from farmer 2017, informed a press rolease is New! by Neeri. return of ₹ 10 to 12 lakh Further, in a massive after 4 years, as the barnplantation programme boo diversity provides organised by CSIR-Neeri products of high value in association with the such as timber, decura furmers on October 26, tion materials, raw mate-2016, CSIR Neeri planted rials for paper and pulp 200 species at Kheri vil-industry, etc. Khapri village, which village Ritesh Parwalkar

Lokmat Times | Nagpur | Page 8 | October 27, 2016



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### **CSIR-NBRI**

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राज्यांग का पाविक दिवस समाराह सम्पन्न	
(भाव समाचार सेवा) म्याक्षत्रक, मंगलवान, संगर्भवार्थवार, राष्ट्रीय वनवती व्युवसीय संस्थान में मालवान, संगर्भवार्थवार, राष्ट्रीय वनवती संगर्भवार संस्थान को मालवान, संगर्भवार संस्थान को मालवान, राज्यक मुख्य क्रीतीय एवं एवं स्वान वी पी मुम्मांगदन, महानिदेशक, एवाएँ एववीपोडी, तिरुवनंतपुरम संस्थानित क्रतिथि ये का स्थानत किया एवं संस्थान की वर्ष की वार्थिक प्रगति विवरणी प्रस्तुत की। बी उप्रेरी ने पिछले एक वर्ष संस्थान हाथ किर एए दिकाक्ष्यों की जानकारी दी। इस अवसर पर संस्थान के वैज्ञानकों को संबोधित करते दुये प्रो टेंडन ने संकटग्रस्त एवं मास्त्रित की ये उप्रतिक्रियों के जानकारी दी। इस अवसर पर संस्थान के वैज्ञानकों को संबोधित करते दुये प्रो टेंडन ने संकटग्रस्त एवम महत्वपूर्ण पीधों के संरक्षण स आधारित अपने वार्थिक दिवस	परिवर्ण में उसीम की जा हो विधिज सरेश प्रदाग की जा हो वार्षिका करते हुवे परिवर्ण में स्थानेय जनता को पुनिका का रेखांकत किया एवं प्रार्था के उपयोग पर बल दिया। इसके पढाल सुख्य समारोह में प्रां प्रयोद टंडन के कहा के वैधिक कर्याव्यवस्था का एक बढा हिस्सा जैब उत्पादों से जाता है। आने वाले भविष्य में बक्तो जनसंख्या एवं घटते संसाधनों तथा स्थर होता जैव विधियक्षा के कारण हमें अपनी भोजन, पानी, कर्जा एवं स्वस्थ्य जावरपकताजों तथी पूर्व के लगतार शोध करते होंगे। इस दिशा में उन्होंने कहा को वैधिक हर्वल उत्पाद साजार में भारत को हिस्सेदारी मात्र 2.5रू है जो चीन का एक चौधाई मात्र है। हमें इस स्थिति से आग निकालना होगा साथ ही विधास जार्या करने में सखस है।

Aaj | Lucknow | Page 10 | October 26, 2016

