

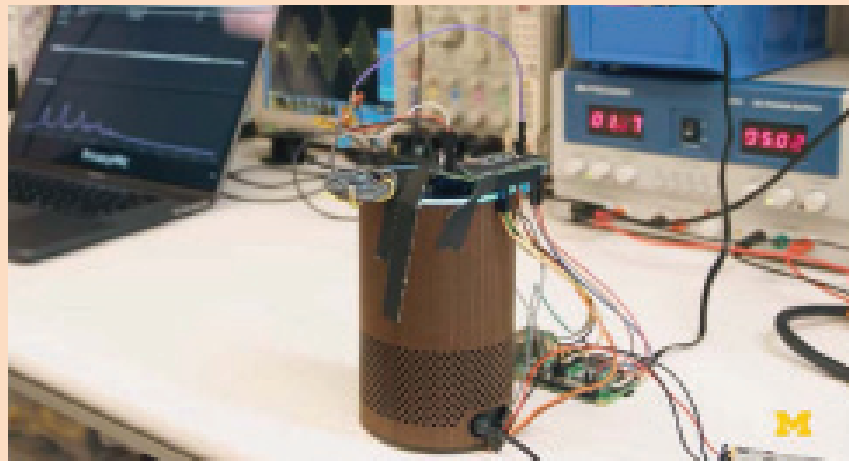
“AmbiTAG”— India’s First Indigenous Temperature Data Logger for Cold Chain Management



INDIAN Institute of Technology (IIT), Ropar, Punjab, has developed an IoT device called AmbiTag which records real-time ambient temperature during the transportation of perishable products, vaccines and even body organs and blood. The recorded temperature further helps to know whether an item transported from anywhere in the world is still usable or has perished because of temperature variation. This information is particularly critical for vaccines, organs and blood transportation.

Source: PIB, Press Release

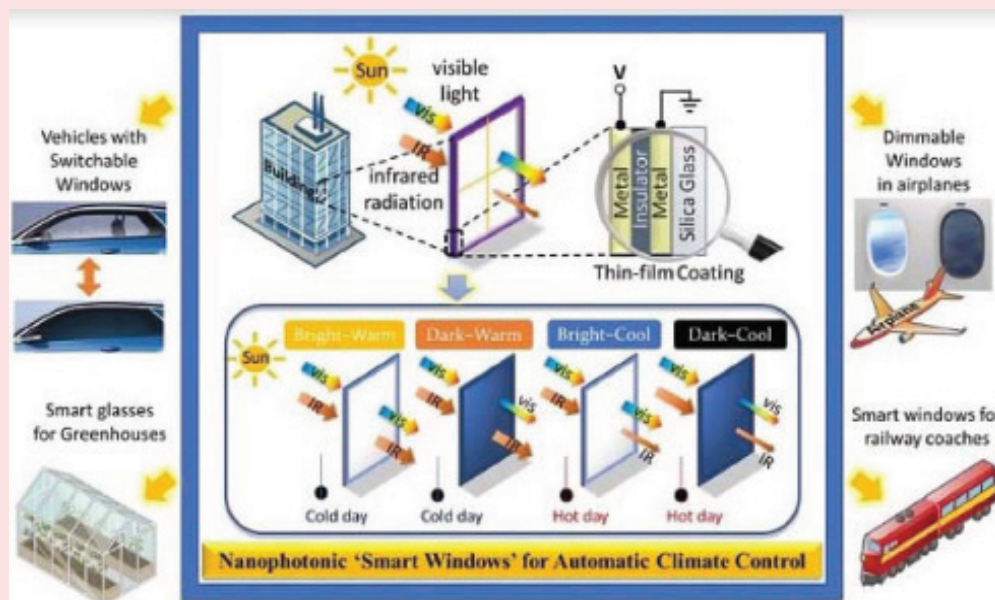
PrivacyMic — Smart Home System



RESEARCHERS at the University of Michigan have developed a system called PrivacyMic which is a smart speaker but doesn't record speech. “There are a lot of situations where we want our home automation system or our smart speaker to understand what's going on in our home, but we don't necessarily want it listening to our conversations,” says Alanson Sample, U-M associate professor of electrical engineering and computer science. “And what we've found is that you can have a system that understands what's going on and a hard guarantee that it will never record any audible information.”

Source: news.umich.edu

Smart Windows for Automatic Climate Control of Buildings



RESEARCHERS at the Indian Institute of Technology (IIT), Guwahati, have developed smart window materials that can help design smart climate control systems in buildings to save energy and reduce carbon emissions. The smart window material can effectively control the amount of heat and light passing through it in response to an applied voltage. The results of their study have been published in the journal, *Solar Energy Materials and Solar Cells*.

Source: India Science Wire

'Cool' PPE Kits for Corona Warriors



STUDENT innovator Nihaal Singh Adarsh from Mumbai has developed a belt-like wearable ventilation system for PPE kits called Cov-Tech. The Ventilation System takes the surrounding air, filters it and pushes it into the PPE suit. The design of the ventilation system ensures a complete air seal from the PPE kit. It provides a breeze of fresh air to the user in a gap of just 100 seconds. Cov-Tech aims to keep the health workers well-ventilated while preventing bodily discomfort and also protect them safe from various fungal infections.

Source: PIB, Press Release