IIT-Indore working with US varsity to devise thermally safe batteries

TIMES NEWS NETWORK

Indore: Research collaboration by Indian Institute of Technology (IIT) Indore and Purdue University of US can open new avenues in the field of energy storage and make batteries thermally safe in future. The collaboration is based on how to make batteries more effective and ensure more energy storage at economical rates.

The institutes are working on sodium-ion batteries, which are different from lithium-ion batteries and could be good for sustainable storage.

"Our primary focus is energy storage and that's why we have collaborated with IIT Indore as they are also working on energy storage. We really wanted to make batteries that are thermally safer. Safety is paramount," said professor of Purdue University, **Vilas Pol** who has also been working as an ad-junct faculty member of IIT Indore.

> As this is 150th anniversary of Mendeleev periodic table and 10th anniversary of IIT Indore, building blocks on IIT Indore campus have also been named after elements
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> **Pradeep Mathur**| IIT-I DIRECTOR

Pol holds Guinness World Record for being fastest to arrange all elements of modern periodic table.

"We're putting sensors inside battery. Currently, sensors are on top of the battery so the sensors detect it only, when battery has thermal runaway and heat comes out. But, by that time battery is already exploding. We're putting 3-D printed sensors behind electorate cell. So once temperature starts rising, we can switch off the battery before thermal runaway," said Pol while talking to TOI.

"Several students of IIT Indore are working in laboratories at Purdue University," said director of IIT Indore, Pradeep Mathur.

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