

# RESEARCHERS PUT UMP FLAG IN USA

**D**r. Arun  
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Senior  
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from

**Research &  
Innovation**

Faculty of Chemical & Natural Resources Engineering (FKKSA), received gold medal for his project on "Nano-wood composite" in Furniture Category at The Invention & New Product Exposition (INPEX) 2011 at Pittsburgh, USA recently.

INPEX is a unique trade show that showcases numerous inventions, new products and innovations that are available to license, market or manufacture.

The team members have developed a new kind of composite, called Nano-Wood Composite, by using high thermal conductive carbon nano tubes.

The product will take less time in manufacturing and will have higher strength. It can be used for furniture, auto mobile and several other places.

The product will emit lesser amount of formaldehyde vapours and boards are more eco friendly.

The composite can be used as a replacement for solid wood, MDF and particleboard. It will help the Malaysian wood industry to increase the existing export market and will provide jobs to the people.

There are 22 MDF and Particleboard plants in Malaysia with the total production capacity of 3.5 million cubic meters per year.

Previously this product got two gold medals one in Bio Malaysia 2010 and another in CITREX-UMP-2011.

Other team members in the project are Professor Dr. K.V.Sharma, Professor Dato' Dr. Dr. Rosli Mohd Yunus, Associate Professor Zulkafli Hassan and Anuj Kumar.



Some of the top companies of Malaysia and US are interested to apply this technology in their plants and to manufacture nano wood composite.

Associate Professor Dr. Hayder A. Abdul Bari from FKKSA also received gold medal for the development of novel mechanical technique to improve the flow

in pipeline. It will help in reducing the cost of power consumption in oil industries.

"The Invention Show" brings inventors and entrepreneurs together with industry representatives in one convenient forum. The exhibition is considered as the largest in USA