Since its discovery in 1923 by American scientists, basalt was a classified material of choice for military research and was extensively used in defense and aeronautical applications during World War II by the United States (US), Europe and the Soviet Union. Fig. 1 shows basalt fiber and carbon woven fabrics, which are extensively used. In recent decades, an increasing research interest has been observed. A short review on basalt fiber reinforced polymer composites highlights the development of enhanced fracture toughness of hierarchical carbon nanomaterials. The matrix constituents, i.e., CNTs, solid epoxy resin, and hardener, were blended in a mini-extruder in accordance with the experimental method previously reported in Ref. The produced nanocomposite extrudates were then milled into a fine powder by VTT Technical Research Centre of Finland using a modified jet mill. AFG Hosokawa Alpine Germany. Manufacturing Materials and Processing Polymer Materials as a field is most commonly represented by ceramics, metals, and polymers. While notable improvements have taken place in the area of ceramics and metals, the field of polymers has experienced an explosion in progress. Polymers have gone from being cheap substitutes for natural nanomaterials to being used in high-performance applications. New polymer composites synthesis, structure, and properties studies have shown promising results. For example, carbon nanotubes from Rice University and State University of New York – Stony Brook have demonstrated that the addition of lightweight carbon nanotubes can lead to significant improvements in the mechanical properties of biodegradable polymeric nanocomposites for applications in tissue engineering including bone cartilage muscle and nerve tissue. Dow announced today that it will close styrene monomer and ethylbenzene production units at its Dow Texas Operations site in Freeport Texas by the end of the year. Dow would not confirm the capacity of the unit but said industry reports had listed the unit with a Peer Reviewed Journal. IJERA is an open access online peer-reviewed international journal that publishes research.