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## Important Facts For Prelims (23rd April 2019)

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### Novel Fire Extinguisher

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- Scientists have developed a novel fire extinguisher for use in space environments that **sucks in the flame** as well as **combustion product**.
- The **Vacuum Extinguish Method (VEM)**, is designed by researchers at the Toyohashi University of Technology in **Japan**.
- VEM is based on the **completely "reverse" operation of widely-used fire extinguisher**, namely, spraying extinguisher agent(s) into the firing point.
- VEM is based on the suction of the combustible products and the flame with vacuum, and then collecting them into a vacuum container to be isolated.
- It is useful for the **special environments that are highly enclosed** -- such as space vehicles and submarines -- to prevent spreading the harmful combustion products such as fume, particulate matters, toxic gas component across the entire enclosed cabin.