

Fire without flames - Is this possible?

How to extinguish flamless fires?

This FRIC Report deals with smouldering fires, why they are fascinating, their consequences, and how to extinguish them. Join us on the journey through 13 amazing facts to get a popular scientific overview about smouldering fires.

Smouldering fires can be tourist attractions or environmental disasters. The report gives an insight into the reasons for the fragmented knowledge about smouldering fires, even though these fires are a worldwide phenomenon and a global challenge.

The role of smouldering fires in climate change cannot be ignored. In this context, zombie fires are discussed. Peatland fires of Indonesia, the oldest fire in the world, located in Australia and China's coal fires are introduced.

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Silo fires as industrial hazards, and smouldering as a domestic problem are also presented, as are extinguishment methods and detection challenges.

Smouldering fires are not only relevant on earth but also in space. How NASA contributes to the understanding of fires in microgravity is shown. These flameless fires even have a connection to both the Titanic and the 9/11 terrorist attacks. The presentation and report gives details on all these topics.

Full online presentation:

<https://prezi.com/view/yVFHODruMbxK3e9yMLkF/>

You may find the full FRIC report here:

https://www.researchgate.net/publication/342625081_Fire_without_flames_-_13_amazing_facts_about_smouldering_fires

