Burning rubber – cheap, safe rocket fuel Norway-based aerospace company Nammo plans to conduct the first test flight in 2016 of a hybrid rocket propulsion system aimed at powering a low-cost, next-generation orbital launch system **NORTH STAR** Hybrid **LAUNCH VEHICLE** rocket motor Payload: 10kg low-cost "nano" satellite to 350km-high Hvbrid propulsion: Liquid polar low earth orbit oxidiser reacts Corona: Single with solid fuel hvbrid "unitary" Oxidiser tank rocket motor Liquid oxidiser: High-concentration solution of hydrogen peroxide - 85-98% - in Aurora: Four water. Nonflammable unitary rocket and stable motors Sources: Nammo Raufoss AS, Andøya Rocket Range Hydrogen Solid fuel **Borealis:** Oxygen Cluster of Combustion channel seven rocket motors HTPB solid fuel: Synthetic rubber - hydroxyl-terminated polybutadiene - it cannot explode and is totally safe to handle Carbon Hydrogei © GRAPHIC NEWS Hybrid rocket motor is environmentally friendly, producing carbon monoxide. carbon dioxide and water vapour