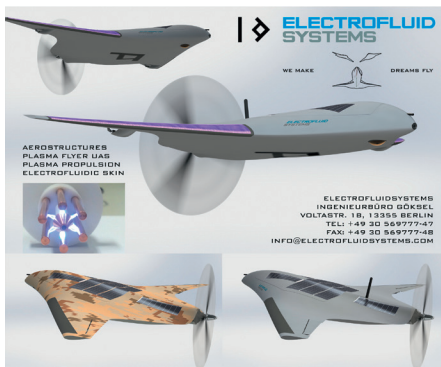


Electrofluidsystems - Ingenieurbüro Göksel

Hall 3/603



It is the first time that new flight-capable flying wings with plasma flow control will be presented. The first 5 kg prototypes with 111 cm wingspan are flying scale

models of 50-70 kg UAVs with 361 cm span.

Mobile high-voltage generator powered plasma actuators are used to control flow separations at low speeds and realize flight control without mechanical flap deflection. The new plasma technique enables low speed flight maneuvers at high angle of attack. With flexible solar cells the plasma drone can fly for up to 5 hours.

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