

HAW Hamburg in cooperation with DGLR, RAeS, ZAL und VDI invites to a lecture

# Electric and Hybrid Aviation – From Media Hype to Flight Physics

Prof. Dr.-Ing. Dieter Scholz, MSME, HAW Hamburg

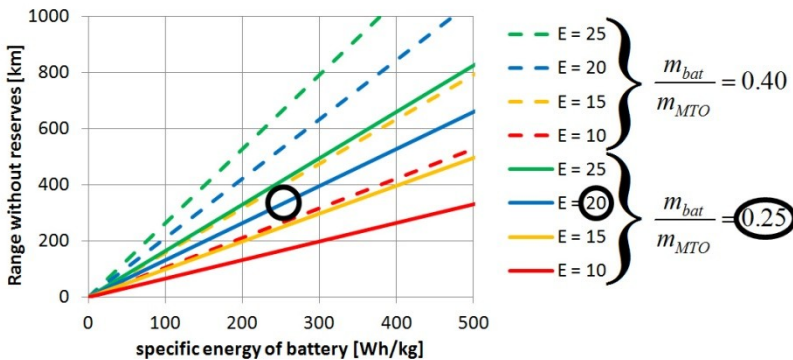
Lecture followed by discussion  
No registration required!  
Entry free!

Date: Thursday, 25.04.2019, 18:00  
Location: HAW Hamburg  
Berliner Tor 5  
Hörsaal 01.11

Electric air mobility may become useful in some areas of aviation. Small short-range general aviation aircraft may benefit from battery-electric or hybrid-electric propulsion. Urban air mobility in large cities will give time advantages to super-rich people, but mass transportation in cities will require a public urban transport system. Battery-electric passenger aircraft are neither economic nor ecologic. How overall advantages can be obtained from turbo-electric distributed propulsion (without batteries) is not clear. Maybe turbo-hydraulic propulsion has some weight advantages over the electric approach.



CityAirbus – an urban air taxi for mega cities.  
Endurance: 15 minutes (Airbus Press Release 2017)



Range of a battery-electric aircraft with given glide ratio (E) and battery mass ratio



Extra 330LE with electric 260 kW engine.  
Endurance: 20 minutes. (Marie-Lan Nguyen, CC BY)

HAW  
DGLR  
RAeS

Prof. Dr.-Ing. Dieter Scholz  
Dr.-Ing. Martin Spieck  
Richard Sanderson

Tel.: (040) 42875-8825  
Tel.: (040) 9479-2855  
Tel.: (04167) 92012

info@ProfScholz.de  
Martin.Spieck@thelsys.de  
events@raes-hamburg.de



DGLR Bezirksgruppe Hamburg  
RAeS Hamburg Branch  
ZAL TechCenter  
VDI Hamburg, Arbeitskreis L&R

http://hamburg.dglr.de  
http://www.raes-hamburg.de  
http://www.zal.aero/veranstaltungen  
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Die **Hamburg Aerospace Lecture Series** (<http://hav-connect.aero/Group/Lectures>) wird gemeinsam veranstaltet von DGLR, RAeS, ZAL, VDI und HAW Hamburg (Praxis-Seminar Luftfahrt, PSL). Der Besuch der **Veranstaltung ist steuerlich absetzbar**. Bringen Sie dazu bitte eine ausgefüllte Teilnahmebestätigung zur Unterschrift zum Vortrag mit. Mittels **E-Mail-Verteilerliste** wird über aktuelle Veranstaltungen informiert. **Vortragsunterlagen** vergangener Veranstaltungen, aktuelles **Vortragsprogramm**, Eintrag in E-Mail-Verteilerliste, Vordrucke der Teilnahmebestätigung: Alle Services über das Internet: <http://hamburg.dglr.de>.