

CURRICULUM VITAE – Jens E. A. Fridh

HIGHER EDUCATION

- 2019 Associate professor (Docent) in Energy Technology, KTH
- 2012 *Kungliga Tekniska Högskolan, Inst. för Energiteknik, Stockholm*
Doctor in Philosophy in the subject area of Energy Technology. Thesis:
Experimental Investigation of Performance, Flow Interactions and Rotor
Forcing in Axial Partial Admission Turbines

PROFESSIONAL EXPERIENCE

- 2012 - *Kungliga Tekniska Högskolan, Inst. för Energiteknik, Stockholm*
Researcher/Teacher/Lab manager
Project leader, budget responsibility, personnel responsibility. Funding
applications, supervisor for PhD students. Teacher and responsible of
Turbomachinery courses. Research interest: turbomachinery,
aerodynamics, heat transfer, measurement techniques, space propulsion.

COMMISSION OF TRUST/NON-PROFIT-MAKING ORGANISATION

- Board member of Euroturbo Society and Heat Transfer Committee in
IGTI/ASME, session chair responsibilities at various conferences
Member of the local organizing committee of two international conferences,
ISUAAAT 14, ETC12
- Since 2012 Evaluation committee member and opponent of a PhD dissertations (national
and international)
- Since 2018 *Skyddsombud* at the department of Energy Technology, EGI/ITM/KTH
- Since 2017 Reference group member for ITM School in KTH Space Center
- Up until 2020 reviewed about 40 papers for international conferences and
journals

RESEARCH ARTICLES

Authored/co-authored about 50 scientific articles. Five recent ones:

S. Thantla et al., "Performance Analysis of a Dual-loop Organic Rankine Cycle System for Waste Heat Recovery from Engine Coolant and Exhaust of a Heavy-Duty Truck," *Applied Thermal Engineering*, vol. 219, no. part A, 2022.

J. Rijpkema et al., "Experimental investigation and modeling of a reciprocating piston expander for waste heat recovery from a truck engine," *Applied Thermal Engineering*, vol. 186, 2021.

A. S. Roy et al., "Flow instability effects related to purge through a gas turbine chute seal," *Journal of the Global Power and Propulsion Society*, vol. 5, pp. 111-125, 2021.

Y. Gao et al., "Numerical Investigation of the Performance Impact of Stator Tilting Endwall Designs on a Mixed Flow Turbine," *INTERNATIONAL JOURNAL OF TURBOMACHINERY PROPULSION AND POWER*, vol. 6, no. 2, pp. 14, 2021.

J. C. Heldens, J. Fridh and J. Ostlund, "On the characterization of methane in rocket nozzle cooling channels," *Acta Astronautica*, vol. 186, pp. 337-346, 2021.



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