

Research

My research interests are combustion in engines in general how to control the combustion in particular. In order to control the combustion accurately and robustly it is essential to extract detailed information about the combustion from in-cylinder measurements, e.g. cylinder pressure measurement. Once this information has been extracted it can be used as feedback information for both cycle-to-cycle and intra-cycle control of the combustion.

Per Tunestål

Combustion Engines

Department of Energy Sciences

LTH Profile Area: Aerosols

LTH Profile Area: The Energy Transition

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Employment

Professor

Combustion Engines

Lund University

Sweden

2000 Apr 1 → present

Director of third cycle studies

Department of Energy Sciences

Lund University

Lund, Sweden

2021 Sept 2 → present

Profile area member

LTH Profile Area: Aerosols

Lund University

Sweden

2022 Jun 28 → present

Profile area member

LTH Profile Area: The Energy Transition

Lund University

Sweden

2022 Jul 5 → present

PhD student

University of California, Berkeley

Berkeley, United States
1994 Jan 1 → 2000 Jan 1

Recent research output

Performance and emissions of diesel-biodiesel-ethanol blends in a light duty compression ignition engine

Shamun, S., Belgiorno, G., Di Blasio, G., Beatrice, C., Tunér, M. & Tunestål, P., 2018 Dec 25, In: Applied Thermal Engineering. 145, p. 444-452 9 p.

Effect of the engine calibration parameters on gasoline partially premixed combustion performance and emissions compared to conventional diesel combustion in a light-duty Euro 6 engine

Belgiorno, G., Dimitrakopoulos, N., Di Blasio, G., Beatrice, C., Tunestål, P. & Tunér, M., 2018 Oct 15, In: Applied Energy. 228, p. 2221-2234 14 p.

In-Cycle Closed-Loop Combustion Controllability with Pilot-Main Injections

Jorques Moreno, C., Stenlåas, O. & Tunestål, P., 2018 Sept 12, THIESEL 2018: Conference on Thermo-and Fluid Dynamic Processes in Direct Injection Engines.

Analyzing Factors Affecting Gross Indicated Efficiency When Inlet Temperature Is Changed

Lam, N., Tunestål, P. & Andersson, A., 2018 Sept 10, In: SAE Technical Papers. 2018-September, 19 p., 2018-01-1780.

Start of low temperature reactions detection based on motoring pressure prediction for partially premixed combustion

Fang, C., Ouyang, M., Yin, L., Tunestal, P., Yang, F. & Yang, X., 2018 Aug 1, In: Applied Thermal Engineering. 141, p. 1101-1109 9 p.

Cylinder Pressure Based Virtual Sensor for In-Cycle Pilot Mass Estimation

Jorques Moreno, C., Stenlaas, O. & Tunestal, P., 2018 Apr 3, In: SAE International Journal of Engines. 11, 6, p. 1167-1182 16 p.

Performance and emissions of diesel-gasoline-ethanol blends in a light duty compression ignition engine

Belgiorno, G., Di Blasio, G., Shamun, S., Beatrice, C., Tunestål, P. & Tunér, M., 2018 Apr 1, In: Fuel. 217, p. 78-90 13 p.

Detailed numerical simulation of transient mixing and combustion of premixed methane/air mixtures in a pre-chamber/main-chamber system relevant to internal combustion engines

Qin, F., Shah, A., Huang, Z. W., Peng, L.-N., Tunestal, P. & Bai, X. S., 2018 Feb 1, In: Combustion and Flame. 188, p. 357-366 10 p.

Double Compression Expansion Engine Concepts: Efficiency Analysis over a Load Range

Lam, N., Andersson, A. & Tunestal, P., 2018 Jan 1, In: SAE Technical Papers. 2018-April

The Potential of SNCR Based NO_x Reduction in a Double Compression Expansion Engine

Muric, K., Tunestal, P., Andersson, A., Andersson, L. & Oom, K., 2018 Jan 1, In: SAE Technical Papers. 2018-April

Closed-loop combustion phase control for multiple combustion modes by multiple injections in a compression ignition engine fueled by gasoline-diesel mixture

Fang, C., Ouyang, M., Tunestal, P., Yang, F. & Yang, X., 2018, In: Applied Energy. 231, p. 816-825 10 p.

Effect of Piston Geometry on Stratification Formation in the Transition from HCCI to PPC

Li, C., Xu, L., Bai, X. S., Tunestal, P. & Tuner, M., 2018, SAE 2018 International Powertrains, Fuels and Lubricants Meeting, FFL 2018. Vol. 2018-September. 2018-01-1800. (SAE Technical Papers).

In-Cycle Closed-Loop Combustion Control with Pilot-Main Injections for Maximum Indicated Efficiency

Carlos, J. M., Ola, S. & Per, T., 2018, In: IFAC-PapersOnLine. 51, 31, p. 92-98 7 p.

Medium and high load performance of partially premixed combustion in a wave-piston multi-cylinder engine with diesel and PRF70 fuel

Muric, K., Tunestål, P. & Magnusson, I., 2018, *Large Bore Engines; Fuels; Advanced Combustion*. American Society Of Mechanical Engineers (ASME), Vol. 1. ICEF2018-9568

Modeling and control of gasoline PPC engine approaching high efficiency with constraints

Yang, T., Yin, L., Long, W., Tunestål, P. & Tian, H., 2018, In: IFAC-PapersOnLine. 51, 31, p. 442-447 6 p.

Partially Premixed Combustion (PPC) Stratification Control to Achieve High Engine Efficiency

Yin, L., Turesson, G., Yang, T., Johansson, R. & Tunestål, P., 2018, In: IFAC-PapersOnLine. 51, 31, p. 694-699 6 p.

Predictive Pressure Control with Multiple Injections

Turesson, G., Yin, L., Johansson, R. & Tunestål, P., 2018, In: IFAC-PapersOnLine. 51, 31, p. 706-713 8 p.

SCR-catalyst utilisation and mixing comparison using a novel biomimetic flash-boiling injector

Larsson, P., Ravenhill, P., Larsson, L. U. & Tunestål, P., 2018, *Emissions Control Systems; Instrumentation, Controls, and Hybrids; Numerical Simulation; Engine Design and Mechanical Development*. American Society Of Mechanical Engineers (ASME), Vol. 2. p. 1-7 7 p. ICEF2018-9763

Experimental investigation of methanol compression ignition in a high compression ratio HD engine using a Box-Behnken design

Shamun, S., Haşimoğlu, C., Murcak, A., Andersson, Ö., Tunér, M. & Tunestål, P., 2017 Dec, In: Fuel. 209, p. 624-633

Impact of diesel pilot distribution on the ignition process of a dual fuel medium speed marine engine

Garcia, P., Tunestål, P., Monsalve-Serrano, J., García, A. & Hyvönen, J., 2017 Oct 1, In: Energy Conversion and Management. 149, p. 192-205 14 p.

Evaluation of Different Turbocharger Configurations for a Heavy-Duty Partially Premixed Combustion Engine

Svensson, E., Yin, L., Tunestål, P., Thern, M. & Tunér, M., 2017 Sept 4, In: SAE International Journal of Engines. 10, 5, 2017-24-0164.

Parametric Analysis of the Effect of Pilot Quantity, Combustion Phasing and EGR on Efficiencies of a Gasoline PPC Light-Duty Engine

Belgiorno, G., Dimitrakopoulos, N., Di Blasio, G., Beatrice, C., Tuner, M. & Tunestål, P., 2017 Sept 4, In: SAE Technical Papers. 2017-September, September, 2017-24-0084.

Proportional–Integral Controller Design for Combustion-Timing Feedback, from n-Heptane to iso-Octane in Compression-Ignition Engines

Ingesson, G., Yin, L., Johansson, R. & Tunestål, P., 2017 Sept 1, In: Journal of Dynamic Systems, Measurement, and Control, ASME. 054502.

Simultaneous Control of Soot Emissions and Pressure Rise Rate in Gasoline PPC Engine

Yang, T., Yin, L., Ingesson, G., Tunestål, P., Johansson, R. & Long, W.-Q., 2017 Aug 27, *Proceedings of the 2017 IEEE Conference on Control Technology and Applications (CCTA)*. IEEE - Institute of Electrical and Electronics Engineers Inc., p. 572-577 6 p.

Nonlinear Air-Path Control of a Heavy-Duty Diesel Engine—A Receding Horizon Sliding Control Approach

Yin, L., Ingesson, G., Johansson, R., Tunestål, P. & Hedrick, J. K., 2017 Jun 29, *2017 American Control Conference, ACC 2017*. IEEE - Institute of Electrical and Electronics Engineers Inc., p. 3619-3624 6 p. 7963507

Control-Oriented Modeling of Soot Emissions in Gasoline Partially Premixed Combustion with Pilot Injection

Yang, T., Yin, L., Ingesson, G., Tunestål, P., Johansson, R. & Long, W., 2017 Mar 28, In: SAE Technical Papers. 2017-March, March

Influence of Small Pilot on Main Injection in a Heavy-Duty Diesel Engine

Jorques Moreno, C., Stenlåås, O. & Tunestål, P., 2017 Mar 28, *SAE Technical Paper*. 2017-01-0708. (SAE Technical Paper Series).

Investigation of Small Pilot Combustion in a Heavy-Duty Diesel Engine

Jorques Moreno, C., Stenlaas, O. & Tunestal, P., 2017 Mar 28, In: *SAE International Journal of Engines*. 10, 3

Analysis of Exhaust PM Composition Emitted from Non-Sooting Volatile Alcohols

Novakovic, M., Shamus, S., Malmborg, V., Preger, C., Shen, M., Pagels, J., Messing, M., Tunér, M. & Tunestål, P., 2017 Mar 21. 1 p.

An Investigation on Ignition-Delay Modelling for Control

Ingesson, G., Yin, L., Johansson, R. & Tunestål, P., 2017, In: *International Journal of Powertrains*. 6, 3, p. 282-306 25 p.

A Study on the Effect of Elevated Coolant Temperatures on HD Engines

Singh, V., Tunestal, P. & Tuner, M., 2017, In: *SAE Technical Papers*. 2017-October

Combined Low and High Pressure EGR for Higher Brake Efficiency with Partially Premixed Combustion

Svensson, E., Yin, L., Tunestal, P. & Tuner, M., 2017, In: *SAE Technical Papers*. 2017-01-2267.

Comparison of Gasoline and Primary Reference Fuel in the Transition from HCCI to PPC

Li, C., Tunestal, P., Tuner, M. & Johansson, B., 2017, In: *SAE Technical Papers*. 2017-October, 2017-01-2262.

Detailed characterization of particulate matter in alcohol exhaust emissions

Shamus, S., Novakovic, M., Malmborg, V. B., Preger, C., Shen, M., Messing, M. E., Pagels, J., Tunér, M. & Tunestål, P., 2017, *COMODIA 2017 - 9th International Conference on Modeling and Diagnostics for Advanced Engine Systems*. Japan Society of Mechanical Engineers

Efficiency Optimal, Maximum Pressure Control in Compression Ignition Engines

Ingesson, G., Yin, L., Johansson, R. & Tunestål, P., 2017, *2017 American Control Conference*. IEEE - Institute of Electrical and Electronics Engineers Inc., p. 4753-4759 7 p. 7963690. (IEEE Xplore Digital Library).

Humid Air Motor: A Novel Concept to Decrease the Emissions Using the Exhaust Heat

Arunachalam, P., Tuner, M., Tunestal, P. & Thern, M., 2017, In: *SAE Technical Papers*. 2017-October, 2017-01-2369.

International Journal of Powertrains: Special Issue on: Vehicle Powertrain Research

Tunestål, P. (Guest editor) & Shahbakhti, M. (Guest editor), 2017, In: *International Journal of Powertrains*. 6, 3, p. 201-202 2 p.

Partially Premixed Combustion Multi-Cylinder Engine Cycle-to-Cycle-Oriented Temperature Estimation and Control

Yin, L., Ingesson, G., Johansson, R., Tunestål, P. & Johansson, B., 2017, In: *International Journal of Powertrains*. 6, 1, p. 5-22 18 p.

PPC operation with low ron gasoline fuel. A study on load range on a euro 6 light duty diesel engine

Dimitrakopoulos, N., Belgiorno, G., Tuner, M., Tunestal, P., Di Blasio, G. & Beatrice, C., 2017, *COMODIA 2017 - 9th International Conference on Modeling and Diagnostics for Advanced Engine Systems*. Japan Society of Mechanical Engineers

Preface

Tunestål, P. & Shahbakhti, M., 2017, In: *International Journal of Powertrains*. 6, 3, p. 201-205 5 p.

Preface

Tunestål, P. & Shahbakhti, M., 2017, In: International Journal of Powertrains. 6, 3, p. 201-202 2 p.

Exhaust PM Emissions Analysis of Alcohol Fueled Heavy-Duty Engine Utilizing PPC

Shamun, S., Shen, M., Johansson, B., Tunér, M., Pagels, J., Gudmundsson, A. & Tunestål, P., 2016 Oct 17, In: SAE International Journal of Engines. 9, 4, p. 2142-2152 11 p.

Control of the Low-Load Region in Partially Premixed Combustion

Ingesson, G., Yin, L., Johansson, R. & Tunestål, P., 2016 Oct 3, *Journal of Physics: Conference Series: proceedings of 13th International Conference on Motion and Vibration Control (MOVIC 2016)*. 1 ed. IOP Publishing, Vol. 744. 15 p. 012106

Exhaust particulate matter emissions of ethanol in comparison with gasoline and diesel fuels in a heavy-duty compression ignition engine

Shen, M., Shamun, S., Malmborg, V., Tunér, M., Tunestål, P., Johansson, B., Pagels, J. & Gudmundsson, A., 2016 Sept 5 , p. P1-AT-CA-019.

Control Design Based on FMI: A Diesel Engine Control Case Study

Nylén, A., Henningsson, M., Cervin, A. & Tunestål, P., 2016 Jun 20, *8th IFAC Symposium on Advances in Automotive Control AAC 2016*. Tunestål, P. & Eriksson, L. (eds.). IFAC, p. 231–238 (IFAC-PapersOnLine; vol. 49, no. 11).

An Experimental Investigation of a Multi-Cylinder Engine with Gasoline-Like Fuel towards a High Engine Efficiency

Yin, L., Ingesson, G., Tunestål, P., Johansson, R. & Johansson, B., 2016 Apr 5, *SAE 2016 World Congress and Exhibition*. April ed. Society of Automotive Engineers, Vol. 2016-April.

A Double-Injection Control Strategy For Partially Premixed Combustion

Ingesson, G., Yin, L., Johansson, R. & Tunestål, P., 2016, In: IFAC-PapersOnLine. 49, 11, p. 353-360 8 p.

A Droplet Size Investigation and Comparison Using a Novel Biomimetic Flash-Boiling Injector for AdBlue Injections

Larsson, P., Lennard, W., Andersson, O. & Tunestål, P., 2016, In: SAE Technical Papers. 2016-Octobeer

Analysis of Dual-Fuel CNG-Diesel Combustion Modes Towards High Efficiency and Low Emissions at Part Load

Garcia, P. & Tunestål, P., 2016. 9 p.

Effects of Intake Manifold Conditions on Dual-Fuel CNG-Diesel Combustion in a Light Duty Diesel Engine Operated at Low Loads

Garcia, P. & Tunestål, P., 2016, *SAE Technical Papers*. Society of Automotive Engineers, 2016-01-0805

Evaluation of Nonlinear Estimation Methods for Calibration of a Heat-Release Model

Ingesson, G., Yin, L., Johansson, R. & Tunestål, P., 2016, In: SAE International Journal of Engines. 9, 2, p. 1191-1200

Influence of Injection Timing on Exhaust Particulate Matter Emissions of Gasoline in HCCI and PPC

Shen, M., Tunér, M., Johansson, B., Tunestål, P. & Pagels, J., 2016, In: SAE Technical Papers. 2016-Octobeer

Model-Based Partially Premixed Combustion (PPC) Timing Control

Yin, L., Ingesson, G., Johansson, R., Tunestål, P. & Johansson, B., 2016, In: IFAC-PapersOnLine. 49, 11, p. 340-346 7 p.

NO_x-Conversion and Activation Temperature of a SCR-Catalyst Whilst Using a Novel Biomimetic Flash-Boiling AdBlue Injector on a LD Engine

Larsson, P., Lennard, W., Dahlström, J., Andersson, O. & Tunestål, P., 2016, In: SAE Technical Papers. 2016-Octobeer

Scalability Aspects of Pre-Chamber Ignition in Heavy Duty Natural Gas Engines

Shah, A., Tunestål, P. & Johansson, B., 2016, *SAE Technical Papers*. Society of Automotive Engineers, 2016-01-0796

Experimental Investigation on CNG-Diesel Combustion Modes under Highly Diluted Conditions on a Light Duty Diesel Engine with Focus on Injection Strategy

Garcia, P. & Tunestål, P., 2015 Sept 6, In: SAE International Journal of Engines. 8, 5, p. 2177 2187 p., 2015-24-2439.

Double Compression Expansion Engine Concepts: A Path to High Efficiency

Lam, N., Tunér, M., Tunestål, P., Arne, A., Lundgren, S. & Johansson, B., 2015 Apr 14, In: SAE International Journal of Engines. 8, 4, p. 1562 1578 p., 2015-01-1260.

Effect of Pre-Chamber Volume and Nozzle Diameter on Pre-Chamber Ignition in Heavy Duty Natural Gas Engines

Shah, A., Tunestål, P. & Johansson, B., 2015 Apr 14, *SAE Technical Paper*. Society of Automotive Engineers, 10 p. (SAE Technical Paper Series).

Sensitivity Analysis of Partially Premixed Combustion (PPC) for Control Purposes

Yin, L., Ingesson, G., Shamun, S., Tunestål, P., Johansson, R. & Johansson, B., 2015 Apr 14, *SAE Technical Paper*. 2015-01-0884. (SAE Technical Paper Series).

A Model-Based Injection-Timing Strategy for Combustion-Timing Control

Ingesson, G., Yin, L., Johansson, R. & Tunestål, P., 2015, In: SAE International Journal of Engines. 8, June 2015; 8 (3), p. 1012-1020

CFD Simulations of Pre-Chamber Jets' Mixing Characteristics in a Heavy Duty Natural Gas Engine

Shah, A., Tunestål, P. & Johansson, B., 2015, [Host publication title missing]. Society of Automotive Engineers, 9 p.

Simultaneous Control of Combustion Timing and Ignition Delay in Multi-Cylinder Partially Premixed Combustion

Ingesson, G., Yin, L., Johansson, R. & Tunestål, P., 2015, In: SAE International Journal of Engines. 8, 5

Recent activities

Tianjin University

Tunestål, P. (Visiting lecturer)
2018 Nov 30 → 2018 Dec 3

IFAC conference on Engine Control, Simulation and Modelling 2018

Tunestål, P. (Organiser)
2018 Sept 20 → 2018 Sept 22

System Control Technology for Smart Mobility of Cyber-Social Environment

Tunestål, P. (Participant)
2018 Sept 17

Sophia University

Tunestål, P. (Visiting lecturer)
2018 Aug 19 → 2018 Aug 25

Combustion control - an enabler for clean, efficient combustion engines

Tunestål, P. (Keynote/plenary speaker)
2018 Jun 27

SAE World Congress Experience 2018

Tunestål, P. (Organiser)
2018 Apr 10 → 2018 Apr 12

Droplet size, concentration, and temperature mapping in sprays using SLIPI-based techniques
Tunestål, P. (Commissioned member of Examining committee)
2018 Feb 16

Combustion control – an enabler for high-efficiency clean combustion engines
Tunestål, P. (Invited speaker)
2017 Nov 30

Robust Diesel Engine Performance: An approach based on multi-pulse fuel injection control
Tunestål, P. (Commissioned member of Examining committee)
2017 Nov 29

Advanced Engine Control Symposium, 2017
Tunestål, P. (Organiser)
2017 Oct 21 → 2017 Oct 22

Combustion control – an enabler for high-efficiency clean combustion engines
Tunestål, P. (Invited speaker)
2017 Oct 21

Humid Air Motor: a novel concept to decrease the emissions using the exhaust heat
Tunestål, P. (Speaker)
2017 Oct 16

SAE Powertrains, Fuels & Lubricants Meeting, 2017
Tunestål, P. (Organiser)
2017 Oct 16 → 2017 Oct 19

Lean homogeneous combustion for SI-engines
Tunestål, P. (Commissioned member of Examining committee)
2017 Sept 29

In-cylinder pressure resonance analysis for trapped mass estimation in automotive engines
Tunestål, P. (External reviewer)
2017 Sept 14

Combustion control – an enabler for high-efficiency clean combustion engines
Tunestål, P. (Keynote/plenary speaker)
2017 Jul 27

Sophia University
Tunestål, P. (Visiting lecturer)
2017 Mar 23 → 2017 Mar 25

Cheng Fang
Tunestål, P. (Host)
2017 Mar 1 → 2022 Mar 14

Spark Ignition Combustion of Direct Injected Alternative Fuels
Tunestål, P. (Commissioned member of Examining committee)
2016 Dec 2

Estimation of torque in heavy duty vehicles with focus on sensor hysteresis
Tunestål, P. (Commissioned member of Examining committee)
2016 Oct 21

Miao Zhang

Andersson, Ö. (First/primary/lead supervisor) & Tunestål, P. (Second supervisor)
2016 Sept 19 → ...

Kenan Muric (Double Compression Expansion Engine)

Tunestål, P. (First/primary/lead supervisor) & Tunér, M. (Second supervisor)
2016 Jul 4 → 2018 Nov 1

Waste Heat Recovery from Combustion Engines based on the Rankine Cycle

Tunestål, P. (Commissioned member of Examining committee)
2016 Mar 11

Vikram Singh (Waste Heat Recovery 2)

Tunér, M. (First/primary/lead supervisor), Tunestål, P. (Joint second supervisor) & Thern, M. (Joint second supervisor)
2016 Mar 1 → ...

Carlos Jorques Moreno (Closed-Loop Diesel Control - Part 2)

Tunestål, P. (First/primary/lead supervisor) & Stenlåås, O. (Second supervisor)
2016 Jan 1 → ...

SCR Aftertreatment Control based on a Grey Box Virtual Sensor Approach

Tunestål, P. (External reviewer)
2015 Dec 10

Tianhao Yang

Tunestål, P. (Host)
2015 Oct 1 → 2017 Sept 30

Tianhao Yang (KCFP Control)

Tunestål, P. (First/primary/lead supervisor) & Johansson, R. (Second supervisor)
2015 Oct 1 → 2017 Sept 30

Optimal Control of Electrified Powertrains

Tunestål, P. (Commissioned member of Examining committee)
2015 Jun 5

Optimal Predictive Control of Wheel Loader Transmissions

Tunestål, P. (Commissioned member of Examining committee)
2015 Mar 20

Sam Shamun (MOT-2030)

Tunér, M. (First/primary/lead supervisor) & Tunestål, P. (Second supervisor)
2015 Mar 1 → ...

Michael Denny (GenDies)

Andersson, Ö. (First/primary/lead supervisor), Tunestål, P. (Joint second supervisor) & Persson, H. (Joint second supervisor)
2014 Oct 7 → ...

Nikolaos Dimitrakopoulos (KCFP PPC-LD)

Tunestål, P. (Second supervisor) & Tunér, M. (First/primary/lead supervisor)
2014 Oct 1 → ...

Changle Li (KCFP PPC-HD)

Tunér, M. (First/primary/lead supervisor) & Tunestål, P. (Second supervisor)
2014 Aug 1 → ...

Nhut Lam (Double Compression Expansion Engine)

Tunestål, P. (Joint first/primary/lead supervisor), Johansson, B. (Joint first/primary/lead supervisor) & Tunér, M. (Second supervisor)
2013 Nov 1 → ...

Lianhao Yin (PhD student)

Tunestål, P. (First/primary/lead supervisor) & Johansson, R. (Second supervisor)
2013 Aug 9 → 2018 Jun 7

Pablo Garcia (PhD student)

Tunestål, P. (First/primary/lead supervisor), Andersson, Ö. (Joint second supervisor) & Garcia, A. (Joint second supervisor)
2013 Jul 1 → 2018 Jun 15

Slavey Tanov (KCFP PPC-LD Optical)

Andersson, Ö. (First/primary/lead supervisor) & Tunestål, P. (Second supervisor)
2013 Jul 1 → 2017 Jun 16

Peter Larsson (Biomimetic injection of AdBlue)

Tunestål, P. (First/primary/lead supervisor) & Andersson, Ö. (Second supervisor)
2013 Apr 1 → ...

Ted Lind (GenDies)

Andersson, Ö. (First/primary/lead supervisor) & Tunestål, P. (Second supervisor)
2013 Jan 21 → ...

Gabriel Turesson (PhD student)

Johansson, R. (First/primary/lead supervisor) & Tunestål, P. (Second supervisor)
2012 Nov 5 → 2018 Jun 1

Prakash Narayanan (Waste Heat Recovery)

Tunér, M. (First/primary/lead supervisor), Tunestål, P. (Joint second supervisor) & Thern, M. (Joint second supervisor)
2011 Oct 1 → 2016

Ashish Shah (KCFP Gas Engine)

Tunestål, P. (First/primary/lead supervisor) & Johansson, B. (Second supervisor)
2011 Jun 1 → 2015 Dec 16

Maja Novakovic (HD-PPC and KCFP PPC-HD)

Tunestål, P. (First/primary/lead supervisor), Tunér, M. (Joint second supervisor) & Johansson, B. (Joint second supervisor)
2011 Apr 1 → ...

Mengqin Shen (KCFP PPC-HD)

Tunestål, P. (First/primary/lead supervisor), Johansson, B. (Joint first/primary/lead supervisor) & Tunér, M. (Second supervisor)
2010 Aug 1 → 2016 Jun 15

Mengqin Shen (PhD student)

Tunestål, P. (First/primary/lead supervisor), Tunér, M. (Second supervisor) & Johansson, B. (First/primary/lead supervisor)

2010 Aug 1 → 2016 Dec

Prizes and distinction

Chairman of SAE Control and Calibration Committee
Tunestål, P. (Recipient), 2008 Apr 15

Chair of IFAC Technical Committee on Automotive Control
Tunestål, P. (Recipient), 2017 Jul 10

Excellence in Oral Presentation
Tunestål, P. (Recipient), 2014

Awards

Utveckling av en ny biomimetisk AdBlue-insprutare
Tunestål, P. (PI)
Swedish Energy Agency: SEK1,475,334.00
2017/03/06 → 2018/03/05

Projects

Bio-Inspired AUS-32 Dosing and NOx Conversion: using A Biomimetic Effervescent Injector
Larsson, P. (Researcher), Tunestål, P. (Supervisor), Andersson, Ö. (Assistant supervisor) & Larsson, L.-U. (PI)
Swedish Energy Agency, Swedish Government Agency for Innovation Systems (Vinnova)
2013/02/11 → 2019/03/28

Closed-Loop Diesel Control - Part 2
Tunestål, P. (PI), Stenlåås, O. (PI) & Jorques Moreno, C. (Research student)
2014/01/01 → 2017/12/31

Closed Loop Diesel Control part 3
Tunestål, P. (PI), Stenlåås, O. (Project coordinator) & Jorques Moreno, C. (Research student)
2018/09/01 → 2021/05/01

Development of a new biomimetic AdBlue injector
Ravenhill, P. (PI), Tunestål, P. (Supervisor) & Larsson, P. (Research student)
2017/03/06 → 2018/03/05

Diesel Assisted Gas Engine
Tunestål, P. (PI) & Garcia, P. (Research student)
Swedish Energy Agency
2012/10/30 → 2016/12/31

Diesel HCCI in a Multi-Cylinder Engine
Tunestål, P. (PI), Henningsson, M. (Research student) & Johansson, R. (Supervisor)
2009/02/06 → 2011/12/31

Dual fuel combustion modelling
Merts, M. (Research student), Verhelst, S. (Supervisor) & Tunestål, P. (Assistant supervisor)
2018/04/01 → 2022/04/01

FFI - Biomimetics
Tunestål, P. (PI)
2013/01/01 → 2016/12/31

HCCI Control

Tunestål, P. (PI), Johansson, R. (Col), Strandh, P. (Research student) & Bengtsson, J. (Research student)
2001/01/01 → 2003/12/31

KCFP: KCFP, Closed-Loop Combustion Control

Johansson, R. (Researcher), Turesson, G. (Researcher), Tunestål, P. (Researcher), Yin, L. (Researcher) & Widd, A. (Researcher)
2010/01/01 → 2019/12/31

LCCC

Holmqvist, A. (Researcher), Andersson, N. (Researcher), Cervin, A. (Researcher), Mannesson, A. (Researcher), Gattami, A. (Researcher), Ghulchak, A. (Researcher), Papadopoulos, A. V. (Researcher), Rantzer, A. (Researcher), Robertsson, A. (Researcher), Sootla, A. (Researcher), THEORIN, A. (Researcher), Bernhardsson, B. (Researcher), Olofsson, B. (Researcher), Wittenmark, B. (Researcher), Grussler, C. (Researcher), Johnsson, C. (Researcher), MADJIDIAN, D. (Researcher), Johannesson, E. (Researcher), Magnusson, F. (Researcher), Ståhl, F. (Researcher), Como, G. (Researcher), Chasparis, G. (Researcher), Turesson, G. (Researcher), Dressler, I. (Researcher), Åkesson, J. (Researcher), Cho, J. H. (Researcher), Årzén, K.-E. (Researcher), Åström, K. J. (Researcher), Sou, K. C. (Researcher), Mårtensson, K. (Researcher), Berntorp, K. (Researcher), Soltesz, K. (Researcher), Lessard, L. (Researcher), Hast, M. (Researcher), Rönn, M. (Researcher), Ansbjerg Kjær, M. (Researcher), Maggio, M. (Researcher), Kristalny, M. (Researcher), Garpinger, O. (Researcher), From, P. J. (Researcher), Larsson, P.-O. (Researcher), Giselsson, P. (Researcher), Johansson, R. (Researcher), Hägglund, T. (Researcher), Vladimerou, V. (Researcher), Romero Segovia, V. (Researcher), Aurelius, A. (Researcher), Cedersjö, G. (Researcher), Bür, K. (Researcher), Dellkrantz, M. (Researcher), Du, M. (Researcher), Amani, P. (Researcher), Larsson, R. (Researcher), Tärneberg, W. (Research student), Li, Z. (Researcher), Yin, L. (Researcher), Tufvesson, F. (Researcher), Höst, S. (Researcher), Nilsson, B. (Researcher), Stenström, S. (Researcher), Andersson, J. A. (Researcher), Diehl, S. (Researcher), Dürango, J. (Researcher), Ghazaei Ardakani, M. (Researcher), Forsberg, P.-O. (Researcher), Bengtsson, F. (Researcher), Jörntell, H. (Researcher), Arévalo, C. (Researcher), Führer, C. (Researcher), Andersson, C. (Researcher), Mohammadi, F. (Researcher), Ödling, P. (Researcher), Andersson, M. (Researcher), Kihl, M. (Researcher) & Tunestål, P. (Researcher)
2008/07/01 → 2018/06/30

Microwave-Assisted Ignition System for Reduced CO₂ Emission

Tunestål, P. (PI) & Dahlström, J. (Research student)
Swedish Government Agency for Innovation Systems (Vinnova)
2010/02/01 → 2014/01/31

MC2: Motorkoncept 2

Tunestål, P. (PI), Lam, N. (PI), Muric, K. (PI) & Johansson, B. (PI)
Swedish Energy Agency
2013/01/01 → ...

Motorkoncept 2

Lam, N. (Research student) & Tunestål, P. (Supervisor)
2013/11/01 → ...

Partially Premixed Combustion Heavy Duty

Novakovic, M. (Research student), Tunestål, P. (Supervisor) & Tunér, M. (Supervisor)
2011/04/01 → 2020/03/01

Pneumatic Hybrid Engine

Tunestål, P. (PI), Johansson, B. (PI), Trajkovic, S. (Research student) & Carlsson, U. (Project coordinator)
Swedish Energy Agency
2007/01/01 → 2010/12/31