

Fuel Cells

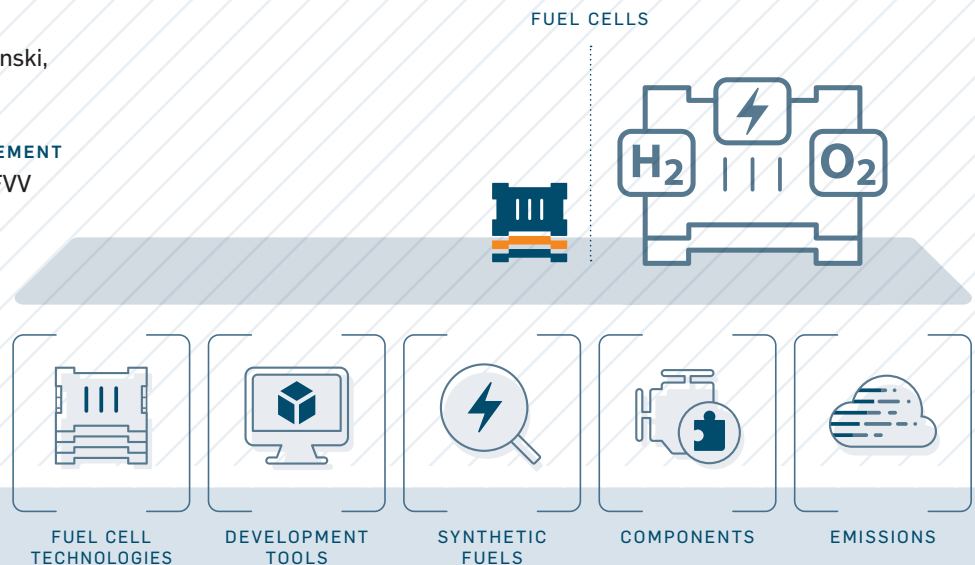
PLANNING GROUP 7

COORDINATOR

Dr. Volker Formanski,
BMW GROUP

PROJECT MANAGEMENT

Martin Nitsche, FVV



RESEARCH PRIORITIES

Planning group 7, ›Fuel Cells‹, is dedicated to the following topics:

System integration of fuel cells in mobile/stationary applications | Reduction of costs through innovative solutions | Hydrogen compatibility

And tackles the following lines of research/focuses:

Operating types and conditions of fuel cells | Hydrogen compatibility, handling, material properties of hydrogen-carrying components | Air path and filtering | Thermal management | Interfaces to the fuel cell and related components/units, e.g. compressors, expanders

PUBLICATIONS

- **VDMA Magazin 10/2020:** Off into the Cell: Development of a Generic Fuel Cell Stack
- **FVV PrimeMovers. Technologies. 04/2020:** One for all: Developing a Generic Fuel Cell Stack
- **FVV proceedings:** R587 | 2019 Spring Conference, R590 | 2019 Autumn Conference and R593 | 2020 Spring Conference

PG7
DATABASE



THEMIS

PG 7 | RESEARCH PROJECTS



NO	TITLE // FUNDING ORGANISATION // DURATION	PROJECT COORDINATOR
Planned projects		
M1817	Control for PEMFC Durability	Alexander Schenk, AVL List
M1918	CFD Simulation of Droplet Separators	Dr. Michael Harenbrock, MANN+HUMMEL
M3619	FC Cold Start	Dr. Stefan Kaimer, Ford
Ongoing projects		
1295	Cathode Air Quality Requirements for LT-PEM Fuel Cells // FVV-EM // 15-01-2018 to 31-12-2020	Dr. Michael Harenbrock, MANN+HUMMEL
1362	Corrosion Products and Contaminations in the Fuel Cell Hydrogen System // FVV-EM // 01-08-2019 to 31-12-2020	Dr. Christian Lucas, Volkswagen
1406	Energy Recovery in Fuel Cell Applications // FVV-EM // 01-09-2020 to 31-08-2022	Dr. Dirk Jenssen, Volkswagen
Completed projects		
1296	Cooling Fuel Cells // FVV-EM // 01-01-2018 to 30-09-2019	Dr. Markus Kaiser, nexis
1298	Fuel Cell System Simulation – Membrane Water Management // FVV-EM // 01-01-2018 to 31-01-2020	Dr. Helge Tielbörger, Siemens Industry Software
1366	Generic Fuel Cell Stack // FVV-EM // 01-09-2019 to 30-06-2020	Dr. Jan Haußmann, Schaeffler Technologies