

OWI Science for Fuels gGmbH

Presentation of Institute & Research Areas

Dr.Ing- Sangeetha Ramaswamy, OWI, 05.01.2021



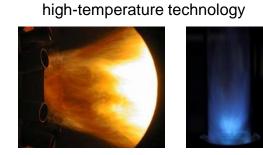
	Proprietor:	TEC4FUE	LS GmbH	
	Director:	Wilfried Plu	um, Dr.	
		Elmar Poh	Elmar Pohl, DiplWirtIng.	
	Scientific director:	Herbert Pfeifer, Prof. DrIng.		
Scientific advisory council:			Sustaining members:	
17 Council members			20 Companies and organization	
 Scientific / University (Cooperation R+D) 			 Component- and device manufacturer 	
Industry / Services			 Mineral oil products- and additiv manufacturer 	
		/		

42 employees: Engineers and natural scientists, technical staff, administration

R&D Areas

fuels and lubricants





energy systems



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Our sponsoring members









Through close contacts with industry, we ensure the dissemination of research results.

Our supporting members make an important contribution to covering overhead costs and primarily enable research on liquid energy sources!



R&D fuels and lubricants division

Topics:

- future fuels and additives
- ageing of fuels
- chemical-physical properties
- application properties
- combustion

Skills:

- fuel / component interaction
- forced lifetime tests
- studies
- development of test methods
- performance tests for additives



component interaction



fuel properties



Fuel Analytics



component interaction



R&D high-temperature technology division

Topics:

- combustion technology
- high-temperature material technology
- high-temperature process engineering
- technology for liquid fuels

Skills:

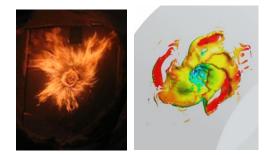
- burner tests
- burner development
- tests in furnaces with different gas atmospheres
- material analysis
- computer aided engineering (CAE)



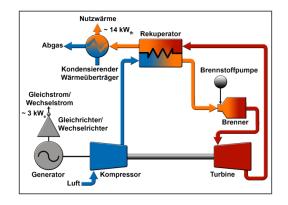
burner and furnaces



HT Materials







system simulation and analysis

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R&D energy systems division

Topics:

- fuel cell systems
- mixture formation
- reformation
- cogeneration of heat and power
- combustion

Skills:

- component development
- system development
- automation
- test bench operation
- system simulation
- systems analysis
- concepts / studies
- thermochemical calculations





Domestic energy systems

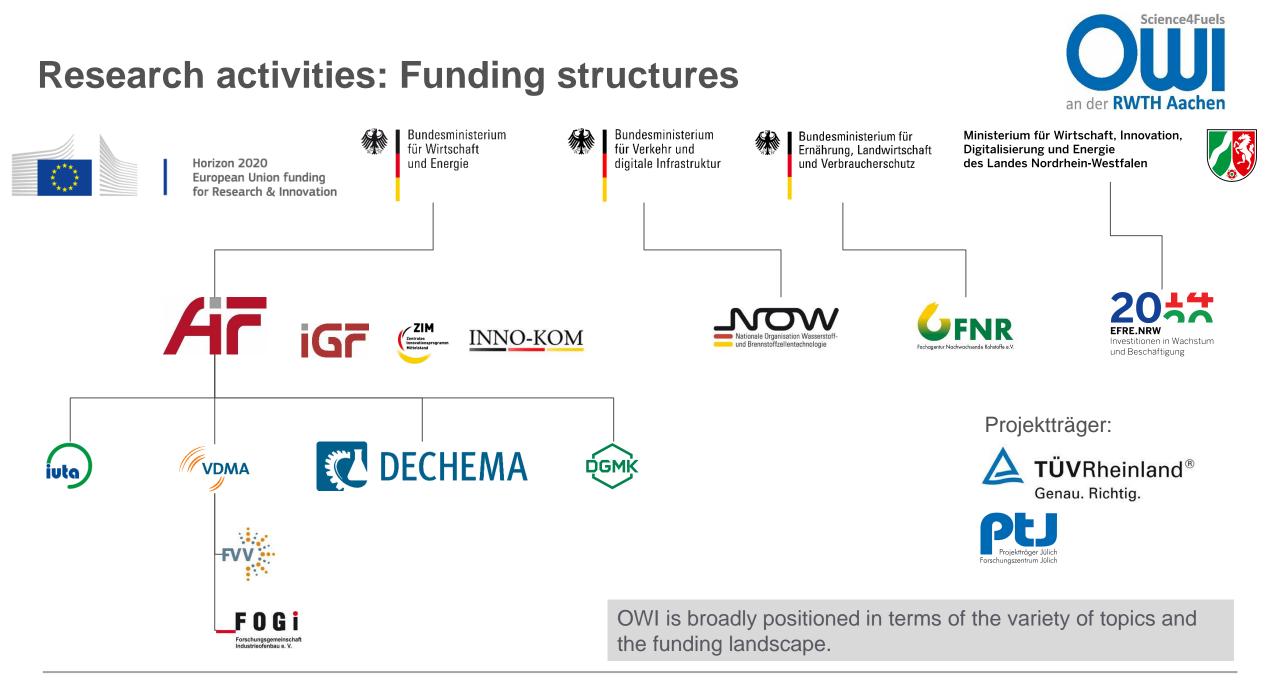
Fuel cell system (for ships)



mixing system



Reformer design



Thank you very much!

Contact details:

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