

hammeskrause architekten

Projekt

## Little treasure chest

New institute for German Aerospace  
Center, Stuttgart

#Education #Science



### Projekttafel

Auftraggeber

DLR in the Helmholtz Association of German Research  
Centres, Stuttgart

Nutzer

DLR Institutes for Engineering Thermodynamics and  
Technical Physics

Nutzfläche 1-7

4850 qm

Bruttogrundfläche

10782 qm

Bruttorauminhalt

50915 cbm

Fertigstellung

2016

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Auszeichnungen

German Design Award 2019, Special Mention

Fotos

Wolf-Dieter Gericke

A six-storey research building has been developed for the institutes of Engineering Thermodynamics and Technical Physics at the German Aerospace Center (DLR) on the Pfaffenwald site in Stuttgart-Vaihingen, in the immediate neighbourhood of Stuttgart University. In July 2016, about 115 scientists moved into the research laboratories, workshops and offices and are now working on future topics in the fields of energy and laser research. The cubic volume seamlessly fits into the urban structure of both the university campus and the DLR site. The clear edges of the building define the outer boundaries of the plot while also characterising the central space within the campus. The atrium gives organisation and structure to the building, provides orientation and implements the communication concept. At the edges of the Galleries, conference rooms, tea kitchens, designed also to be meeting spaces, and other communication spots are arranged so as to encourage a creativity-stimulating working environment. On each floor, the respective institutes have their offices as well as laboratory spaces. Short distances between theoretical and experimental workplaces encourage communication and make informal exchange between the different teams easier, for innovation does not only develop within the experimental work but also during the coffee break and in conversation with colleagues.

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The bold façade, ambitiously designed and carried out with sliding-folding shutters, bestows an unmistakable appearance upon the building.



Crafted with much attention to detail, the expanded metal mesh façade and its folding shutters wrap the building with a delicate, almost textile skin.

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The building's three-dimensional transformation appropriately and accurately hints to the topics of dynamics, movement and evolution.



The ground floor was provided with a glass façade, allowing passers-by a glimpse into the building and allowing staff views to the outside. This is meant to stir curiosity and interest. The buildings at the junction of the university campus and DLR grounds provide the basis for the building to be communicatively settled between “inside” and “outside”.

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The experimental laser measuring is carried out without natural daylight. This triggered the longing for a place where daylight literally falls down into the depths of the space: which is why we decided on a reflecting metallic golden yellow colour!

Markus Hammes

The unmistakable appearance is continued on the building's interior: via an atrium skylight oriented east, daylight falls deep into the core. This central atrium, fully coloured in gold, is stacked from the ground floor up to the fifth floor, integrating the stairwell. One of the research building's main features is the very dense "packing" of its laboratory and office functions. The experimental laser measuring is carried out without natural daylight, and we had the idea of creating a place within the building where the daylight falls into the depths of the space. A void was developed which appears to glow with an intense, metallic, reflecting golden yellow hue, positively capturing in its high quality.



Standort

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