Ladies and gentlemen, dear partners, customers and friends,

The year 2021 has once again presented us with challenging tasks. And so, like all of you, we have faced up to the changed circumstances and are highly motivated in advancing new and innovative topics and ideas to shape and improve the future in the areas such as mobility, medicine and energy. Here are a few examples of our activities in recent months.

Please feel free to contact us with your specific issues and we will be happy to support you in finding tailored solutions.

Kind regards,
Dr. Thomas Weißgärber

Additive Manufacturing in the aerospace industry

With the project „EasyTitan“, Fraunhofer IFAM in Dresden has laid a project for the rapid and process-reliable manufacturing of light-metal components in aerospace technology. It is intended to demonstrate the readiness of the German Aerospace Center e.V. (DLR), a filament-based hybrid process for the production of Ti64 components.

The aim is to develop additive manufacturing processes for application in aerospace.

Thermal inactivation of the coronavirus

Controlling the spread of viruses (e.g. SARS-CoV-2) and other pathogens in a pandemic situation is one of the most challenging projects. The project „AVATOR“, funded by the BMWi, Fraunhofer IFAM and Vs. Corona project “AVATOR”, aims at reducing the viral activity in the air in closed rooms by a novel apparatus.

The temperature sensitivity of viruses is the key: by heating and holding at inactivation temperature, active shell components of the viruses are destroyed and the viruses inactivated. The apparatus to be developed is used to draw air and condition air contaminated with viruses.

New impetus for electromobility

With the project „RoSiLIB“, Fraunhofer IFAM in Dresden is making a decisive contribution towards a CO₂-neutral mobility of tomorrow.

To this end, new high-energy anodes, which can be developed together with partners from the line of for beam Physics and Materials Research at the Helmholtz-Zentrum Dresden-Rossendorf e.V., E.-Lüke Innovations GmbH, NANOVAL GmbH & Co. KG, VON Holtz-Zentrum Dresden Rossendorf e.V., Ionomr Innovations Inc., Veco B.V., Nordex and TFP Hydrogen Products Ltd, Ionomr Innovations Inc., Veco B.V., Nordex and TFP Hydrogen Products Ltd, are being developed.

Innovative matrix alloy for brake discs

In the project COM.TRANS, new brake materials, which is being developed which, despite their low weight, have less abrasion than conventional materials, even at high temperatures. CCAs are novel multicomponent alloys capable of adapting various properties through composition and process optimization.

The project results are mainly used in the automotive industry for small and heavy-duty vehicles.

Our latest technologies

With the commissioning of two new systems, Fraunhofer IFAM in Dresden has added two innovative technologies to its portfolio in additive manufacturing. The MoldJet® platform presents new possibilities for pressure-assisted heat treatment are available to you. The development of combined processes, i.e. heat treatment and hot isostatic pressing (HIP) for materials with complex heat treatment, e.g. nickel-based superalloys as well as operation modes and discuss present and future markets. We are looking forward to discussions with experts from industry and applied research.

Register now!

4th Industry Workshop Advanced Alkaline Electrolysis

On 30 September, we invite you for the 4th Industry Workshop industry workshop “Advanced Alkaline Electrolysis” in Dresden. Fraunhofer IFAM and its guests from fuel cells, FC Hung, Hydrogen Products Ltd, Siromer Innovations Inc., Veco B.V., Nordex and Aequantina will give you up-to-date presentations on advanced catalysts and materials, manufacturing of parts and components, automated assembly as well as operation modes and discuss present and future markets. We are looking forward to discussions with experts from industry and applied research. Register now!

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