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Storage of Hydrogen in Capillary Arrays – Progress

Dear Sirs,

Herewith I would like to update you regarding the progress we recently made.

Since our last report we looked especially to material properties to collect basic data for different materials. It turned out that we found a glass which led to best options regarding pressure resistance and life cycle of capillaries.

Furthermore I want to update you regarding our actions to develop prototypes of the storage system. We started to develop a prototype consisting of a large number of arrays. The arrays will be bundled to one storage system, protected by a thin and light-weight polymer as protection shield. This prototype will show the possibility to store hydrogen in a lightweight system and in large amounts. Furthermore the real application will be demonstrated. This system will also include one fuel cell to generate electric power and is able to operate any electronic device which is usually powered by batteries. According to actual planning the prototype should be available end of this year.

With great pleasure we recognized that you have found a nice agreement with a capillary supplier. That will enable us to start the next important phase of the project what is the development of practical applications of the storage system. We know now the best material and dimensions for single capillaries as well as for the arrays. There is of course some further engineering necessary.

We are still looking to a successful future.

Best regards,



Dr. K. Holtappels
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