Smoltek newsletter, April 2022

Hello dear subscriber,

Here are the highlights of this newsletter:

- Electrolyzer technology – operational update
- New Industrialization Manager hired
- Research project with Saab and Chalmers completed
- New patent granted
- Upcoming events

Electrolyzer technology – operational update

Smoltek has developed a high-performing nanofiber-based cell material for PEM-electrolyzers, with potential to enable a more efficient production of fossil-free hydrogen. In the autumn of 2021, a development collaboration was initiated in collaboration with an industrial manufacturer of materials for electrolyzers, and the aim is to be able to start manufacturing small-scale prototypes in 2023 – or earlier.

Read more: https://www.smoltek.com/post/operational-update-for-smoltek-s-electrolyzer-technology

Ellinor Ehrnberg, President of Smoltek Innovation

New Industrialization manager hired

Get to know Réka Simon-Bálint, M.Sc from Chalmers University of Technology – who is employed as Industrialization Manager at Smoltek Semi. The role of Industrialization Manager is new and Réka will work together with the R&D team and VP Product Management and Industrialization to adapt the production process sequence to fit in a high-volume manufacturing environment.

Réka holds a degree in master of science in Engineering Physics and Advanced Engineering Materials and has previously worked for 12 years at RUAG Space as a materials and processes engineer. In her previous role she was a technical specialist in solder joint reliability and electronic assemblies and has a wide experience from various fields such as technical project manager of verifications, studies and failure investigations and product assurance for electronic assembly. She has also worked with designing for producibility and was also a key person in setting up the product assurance aspects for a new generation of higher volume products where the tailoring of risk vs cost is important.

Réka Simòn-Ballint, Inustrialization Manager at Smoltek

Research project with Saab and Chalmers completed

Smoltek has participated in a Vinnova sponsored research project NFFP7 (National Aviation Research program 7) together with Saab AB and Chalmers Technical University. The project involved energy and heat management in a radar system. Smoltek has provided carbon nanostructures, other materials, research resources and competence in the project. Smoltek's R&D team contributed in both supercapacitor experiments and thermal storage experiments work packages.

Read more (article in Swedish): https://www.electronic.se/2022/03/23/varmelagring-ovanpa-komponenter/

New patent now granted

Smoltek's 72nd patent has been granted in Taiwan and is relating to the patent family in the direction of CNF-MIM capacitor applications on interposers. Smoltek's patent protected technology around interposers are built on the need to improve circuit performance by enabling smarter, compact energy storage devices which in turn can enable more efficient power management solutions.

Read more: https://www.smoltek.com/post/smoltek-patent-no-72-now-granted

Karl Lundhal, VP Product Management & Industrialization

Upcoming events

- On April 12 we will send out a notice to the Annual General Meeting, which will be held in Gothenburg, on May 12.
- Smoltek's Annual report (in Swedish) will be published on April 21. An English version, called Compay report will be published later in the spring.
- Our Q1 report will be published on April 27.
- We will take part in the annual ECTC-event, May 31-June 3, which this year will be held in San Diego, CA.