



Smoltek newsletter, October 2019

Hello,

It's been a while since we last reached out to you through this channel. So in this newsletter we have summarized bits and pieces of what has happened since then.

Financial update – Q2 report 2019

In mid-July we published our quarterly report for the first six months of the year. The report headline stated: "Dialogues confirm that Smoltek's technology is needed." This is pretty much the gist of that report. In it we also stated that: "Nanotechnology will be crucial for the semiconductor of the future in several ways." The reason is that: "Our carbon-based nanotechnology has a given place when the industry is working on the bottlenecks that need to be resolved to continue to increase performance during continued miniaturization." Because: "Today's integrated circuit capacitors, through their bulky format, represent a bottleneck and that our revolutionizing carbon nanofiber-based CNF-MIM concept offers a solution through the combination of high performance and minimal size."

If you want to read the report in full, just click the docs-link below (in Swedish):

https://docs.wixstatic.com/ugd/e4e89e_13842060cd444bf29034b4f4164a8179.pdf

Tech update – doubling the capacitance performance again!

During the summer the R&D team has been working hard to improve the CNF-MIM technology and has managed to almost double the capacitance density from slightly over 350nF/mm² to more than 650nF/mm² (nF = nanoFarad). This is quite an achievement! Moreover, this also proves the scaling of capacitor density by nanofiber height according to our theoretical "capacitance vs CNF height corridor".

Business development

Beside networking and presentations at important conferences we have been very active in interactions and discussions with potential licensees and partners. Based on these discussions it is fair to say that the picture is now coming together: the CNF-MIM technology offers a solution to what will shortly be a major circuit integration challenge – the height of circuit-integrated capacitor devices. CNF-MIM offers industry's lowest height profile, by far!

Conference presentation in Europe – PCNS

September, 10th-13th, we attended the Passive Components Networking Symposium in Bucharest, Romania. Actually, one of very few events in this niche in Europe. On site we presented our latest achievements for discrete capacitor technology based on the CNF-MIM concept. Since this was a completely new event for us we were very excited that the participants of the conference voted our presentation paper as "Outstanding Paper Award".

Summary from PCNS 2019: https://docs.wixstatic.com/ugd/e4e89e_c9d1ca4d6ae34e17a29970803ed74a3a.pdf

Conference presentation in Asia – SEMICON Taiwan 2019

The second to last week of September (17th-20th) we attended SEMICON Taiwan, one of the most important and largest conferences/trade shows for the Semiconductor industry in Southeast Asia. A perfect event to present even higher capacitance density, now above 650 nF/mm² for the CNF-MIM capacitor technology!

Summary from SEMICON Taiwan: https://docs.wixstatic.com/ugd/e4e89e_baa1f9465a464b9fb632b26b45b87fa1.pdf



Smoltek CTO Vincent Desmaris presents the opportunities with CNF-MIM at Semicon Taiwan

GSA US Executive Forum – Networking on high level

In mid-September we also attended the annual GSA (Global Semiconductor Alliance) US Executive Forum in California. This is a tremendous event for networking with "C-level" executives and several new industry executives were introduced to Smoltek and our CNF-MIM technology.

New VP Product Management

Karl Lundahl is taking on the new position as Vice President Product Management at Smoltek, with start next month. Karl has a long track record within the semiconductor, photovoltaic and electronic industry. In particular, Karl is bringing extensive experience in the field of advanced semiconductor packaging.

Get to know Karl better, read the full interview here: <https://www.smoltek.com/interview-kl>



Smoltek VP Product Management, Karl Lundahl

New Research Engineer

Victor Marknäs is our new member of the R&D-team. Victor has just joined the R&D team after 5 years of studies with a Bachelors in Electrical Engineering and a Masters in Wireless, Photonics and Space Engineering at Chalmers University of Technology. At Smoltek he will start off by working with characterization, verification and modelling. Very important things in order to further develop the technology concept.



Victor Marknäs, our new member of the R&D-team

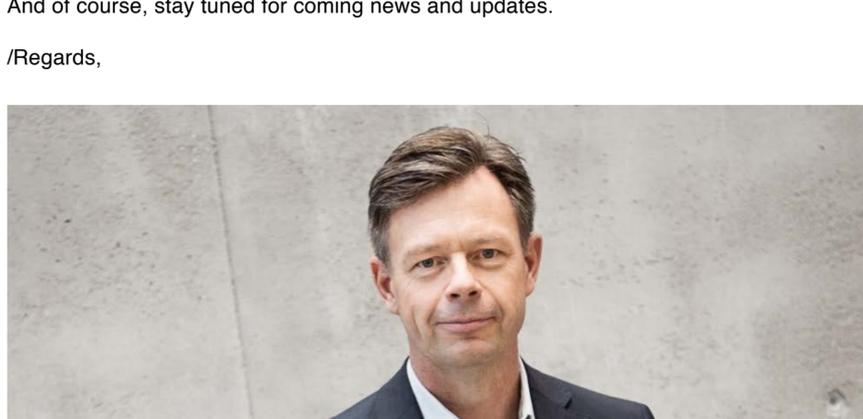
Looking ahead

The next predefined communication event is the Q3 report that is coming up on October 30th.

There will also be an excellent opportunity to meet on at Aktiespararnas "Stora Aktiedagen" in Stockholm on November 25th where I will present Smoltek – hope to see you there!

And of course, stay tuned for coming news and updates.

/Regards,



Anders Johansson, CEO

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