

## **THERMO-CALC SOFTWARE AB AND QUESTEK INTERNATIONAL LLC ESTABLISH JOINT COMPANY TO OFFER ICME MODELLING SERVICES AND DESIGNED ALLOYS SERVICES TO THE EUROPEAN MARKET**

STOCKHOLM, SWEDEN, and EVANSTON, IL, USA, Oct. 2016 – Thermo-Calc Software AB and QuesTek International LLC have partnered to establish a joint company, QuesTek Europe AB, that will offer Integrated Computational Materials Engineering (ICME) modelling services and novel materials design and development to the European market. The new company brings together two global leaders in ICME and combines the proven *Materials by Design*® methodology developed in the United States by QuesTek's wholly-owned subsidiary, QuesTek Innovations LLC, with the powerful software and databases contained in the Thermo-Calc platform.

QuesTek sees significant potential for ICME-themed projects and growth of materials sales in Europe, as their CEO, Aziz Asphahani, explained, "In recent years, we have seen an increase in funding from the European market to design novel advanced alloys and to optimise existing alloys, as well as a demand for applying our *Ferrium* steels to existing platforms, indicating that now is the ideal time to expand our unique services into Europe. A partnership with Thermo-Calc Software will allow us to accelerate the adoption of ICME technologies in a market that is eager for these services."

Thermo-Calc Software have long considered offering design and development services, but have heretofore maintained focus on developing their software and databases.

Thermo-Calc Software's CEO, Dr. Anders Engström, added, "Over the years we have been approached by many companies that are interested in Thermo-Calc from a service based approach, but our focus has always been with our products. By partnering with QuesTek, we can now offer these highly sought after services without detracting from our main priority of developing powerful, relevant, high-quality software and databases for materials engineering applications."

This is not the first time the two companies have worked together. In fact, Thermo-Calc Software and QuesTek Innovations have a long-lasting collaborative relationship, most notably highlighted by a joint development in 2012 of the Precipitation module (TC-PRISMA), an add-on module to Thermo-Calc that is used for the prediction of precipitation kinetics.

More information about QuesTek Europe is available at [www.thermocalc.com/questek-europe/](http://www.thermocalc.com/questek-europe/).

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### About QuesTek Innovations LLC

QuesTek Innovations LLC ([www.questek.com](http://www.questek.com)) of EVANSTON, IL, USA, a wholly-owned subsidiary of QuesTek International LLC, is a leader in ICME technologies, which are proven effective innovation tools to reconfigure the materials development process and accelerate the deployment of novel higher performance alloys in demanding applications. QuesTek is well recognized in the North American market with its *Materials by Design*® approach, which uses ICME to design new materials and has proven to be faster and more cost effective than traditional trial-and-error methods.

QuesTek's success in applying ICME technologies is highlighted by its design of a family of *Ferrium*® steels that have been licensed to Carpenter Technology and are being qualified and used for flight-

critical components in aerospace applications such as landing gear, fasteners, and helicopter power transmission systems. Their experience also includes design of Al, Co, Cu, Ti, Ni, Mo and W-based alloy systems, and alloys tailored for Additive Manufacturing. QuesTek's success in designing and deploying novel materials was highlighted in a 2016 Materials Genome Initiative (MGI) case study sponsored by NIST. The case study details the rapid design of *Ferrium* M54<sup>®</sup> steel and deployment for a hook shank component for the U.S. Navy T-45 aircraft, demonstrating novel aerospace alloy commercialization in a 4 year cycle. For more information about QuesTek Innovations, contact Dr. Ida Berglund at 847-425-8245 or [iberglund@questek.com](mailto:iberglund@questek.com).

#### About Thermo-Calc Software AB

Thermo-Calc Software AB ([www.thermocalc.com](http://www.thermocalc.com)) of Stockholm, Sweden, is a leading developer of software and databases for calculations involving computational thermodynamics and diffusion controlled simulations. Its flagship software tool Thermo-Calc has been used for more than 30 years by leading industrial, governmental and academic researchers and engineers to create multi-component thermodynamic and phase diagram calculations, and is now used by more than 1,300 organisations in over 70 countries. Thermo-Calc Software AB was founded as an independent company in 1997 as an offshoot from the Royal Institute of Technology (KTH), Department of Materials Science, in Stockholm, Sweden. For more information about Thermo-Calc Software, contact Bethany Huseby at +46-8-545-959-76 or [bethany@thermocalc.com](mailto:bethany@thermocalc.com).