

## The three founders of Expanite speak at symposium in Malta.

**Expanite sponsors and speaks at Symposium on Surface Hardening of Corrosion Resistant Materials held at the University of Malta from 22 to 24 June 2016.**

During the two scheduled days, the 3 founders of Expanite will each give a presentation at the Symposium:

Professor, Dr.Ir. Marcel A.J. Somers gives the opening lecture “Expanded austenite; from fundamental parameters to predicting concentration- and stress-depth profiles” –on June 22<sup>nd</sup>.

Senior Researcher, Dr. Thomas L. Christiansen: “Gaseous surface hardening of titanium and titanium alloys” on June 24<sup>th</sup>.

Expanite CTO, Dr. Thomas Strabo Hummelshøj: “Application of next-generation stainless steel & titanium surface hardening” on June 24<sup>th</sup>.

Low-temperature (below 500°C) interstitial treatment of corrosion-resistant alloys is a developing technology in surface engineering, resulting in performance enhancements in hardness, wear, fatigue and corrosion resistance. When applied to austenitic stainless steels, the resultant surface layer is described as expanded austenite. Major advances in understanding the technology and its application to austenitic, ferritic, martensitic and duplex alloys have occurred since the last symposium on this topic, held in Pittsburg in October 2014. The symposium program is the "state of the art" meeting, bringing together researchers from universities and government agencies all over the world, as well as providers and end users of low temperature surface hardening techniques. Papers devoted to all aspects of research on low-temperature processes (gas, ion and plasma processes) for surface enhancement of Corrosion Resistant Alloys (Fe-, Ni-, and Co-based Cr-containing alloys, as well as Ti and other passive alloys) by interstitial hardening (carburizing, nitriding and nitrocarburizing) will be presented. Specific topics include:

- Characterization of S-Phase: Testing and Properties (including structural characterization and alloy system fundamentals)
- Characterization of Non-ferrous Surface Hardening: Testing and Properties (including structural characterization and alloy system fundamentals)
- Applications (Biomedical, Petrol, Energy, etc.)
- Process Control and Monitoring (High Temp, Alloy design, New Processes, etc.)

Don't miss this - The 4th Symposium on Surface Hardening of Corrosion Resistant Materials takes place at the Faculty of Engineering of the University of Malta in Valletta, Malta.

Program for the Symposium is [here](#).

