

**KU JTGMF**

# INŽINIERIŲ DIENOS'19 „TASTE OF...ENGINEERING“

**Kviečiame į Šarūno Plenaičio paskaitas.**

Paskaitos vyks balandžio 8 ir 9 d. 17 val.,  
201 a. KU JTGMF, Bijūnų g. 17.



Šarūnas Plenaitis - SLV M-V GmbH Rostock (Rostoko suvirinimo techninio mokymo ir tyrimų institutas) mokslinių tyrimų ir eksperimentinės plėtros skyriaus vedantysis specialistas, projektų, konstravimo bei suvirinimo inžinierius. Nuo 2016 metų dirba ir 3D spausdinimo selektyvinio lazerinio sulydymo (SLM) skyriaus vadovu.

2011 metais Šarūnas baigė KU Laivo inžinerijos studijų programą. Rostoką pasirinko, nes studijų metu atlikdamas tarptautinę ERASMUS praktiką, turėjo progos susipažinti su SLV M-V GmbH Rostock veiklomis bei įsitraukti į mokslininkų ir pramonės įmonių bendrai vykdomą projektą BESST. Šio projekto metu buvo kuriamos technologijos lazerinio suvirinimo pritaikymui didžiosiose Europos laivų statyklose. Šiuo metu Šarūnas koncentruojasi į mokslinius 3D metalo spausdinimo tyrimus medicinos, aviacijos, automobilių pramonei bei daugeliui kitų segmentų. Papildomai Šarūnas sertifikuoja adityvesnės gamybos personalą „Additive Manufacturing – Metals“ srityje.

Paskaitos vyks  
lietuvių ir anglų kalbomis.

**ATEIK IR SUŽINOK  
DAUGIAU!**



# List of topics for the Workshop In Klaipeda University. Speaker: Šarūnas Plenaitis

## **Fausst – The Union of Fiber Reinforced Materials and Steel**

How do you join two different materials without using an adhesive? That is the question that inspired FAUSST project. We have developed the answer to this challenging question. In order to make it even more challenging, we consider the extreme maritime conditions.

## **Additive Manufacturing – different processes and different potentials**

How do you join two different materials without using an adhesive? That is the question that inspired FAUSST project. We have developed the answer to this challenging question. In order to make it even more challenging, we consider the extreme maritime conditions.

## **Additive Manufacturing using Selective Laser Melting process – the look inside SLM Machine**

Deep look in to SLM machines. What components are necessary for this process to work. What sizes and measures are important?

## **Selective Laser Melting – Process explanation, Advantages and disadvantages.**

Analysis of how to become SLM specialist. Most important steps for SLM process to become highly efficient, reproducible and high quality. What parameters matters, what materials are printable.

## **Selective Laser Melting – From Idea to result in 2 weeks.**

Analysis of how to become SLM specialist. Most important steps for SLM process to become highly efficient, reproducible and high quality. What parameters matters, what materials are printable.

## **AM possibilities and potentials for young students and specialists.**

Analysis of how to become SLM specialist. Most important steps for SLM process to become highly efficient, reproducible and high quality. What parameters matters, what materials are printable.

## **RaZiPol – Highly flexible high-power ultrafast laser source with average output power of 500 W**

Example of 3-Year European project with the aim to develop very Cost-efficient solutions for a broad range of applications. Optimization of demanding high-volume applications regarding efficiency as well as quality.

## **MikroLas – quick glance in Micromachining using ultra-fast Laser systems**

Introduction to Ultra-fast laser systems. Micromachining using ultrashort laser pulses (USP). Wear-reducing surface functionalization. It's Perspectives

## **VaLas – Interview to Laser welding in Vacuum**

Benefits of laser welding in Vacuum. Short introduction to project aims, problems and potential solutions.

## **LasVegla – Additive Manufacturing using Laser metal deposition manufacturing (LMD)**

**Q&A with the students, experience exchange, discussions**