



FMT
FUTURE MANUFACTURING
TECHNOLOGIES

ON MAY 17, 2022

FUTURE MANUFACTURING TECHNOLOGIES FMT-DAY 2022

The theme day of the Future Manufacturing Technologies (FMT) research group of the Kerttu Saalasti Institute of the University of Oulu will focus on the rapid heat treatments made possible by modern induction heating technology and their utilization.

PROGRAMME

08:15-09:00 ELME STUDIO OPEN DOORS AT 8:15-11:00
MORNING COFFEE

(FINNISH LANGUAGE SECTION OF THE EVENT AT 9:00-11:05)

09:00-09:05 ALOITUSSANAT
ANTTI JÄRVENPÄÄ - OULUN YLIOPISTO

09:05-09:25 INTEMP – TULEVAISUUDEN INDUKTIOIRATKAISUT
TERHO ISO-JUNNO - OULUN YLIOPISTO

09:25-09:45 NOPEAT KARKAISU-JA PINTAKÄSITTELYT -
ANTTI KAIJALAINEN - OULUN YLIOPISTO

09:45-10:05 INDUKTIOTEKNIIKAN TEOLLINEN HYÖDYNTÄMINEN
TEEMU LESKINEN - TL SOLUTION OY

10:05-10:25 TERÄSTEOLLISUUDEN TULEVAISUUS
JUKKA KÖMI - OULUN YLIOPISTO

10:25-10:45 KANSAINVÄLISET TEEMAVERKOSTOT
KARI MÄNTYJÄRVI - OULUN YLIOPISTO

10:45-11:05 EKOSYSTEEMIMALLILLA KILPAILUETUA, CASE FAME
MARKUS KORPELA - DIMECC OY

11:05-12:00 LOUNASTAUKO (OMAKUSTANTEINEN)

(ENGLISH LANGUAGE SECTION OF THE EVENT AT 12:00-13:40 FIT (11:00-12:40 SWT))

12:00-12:20 FUTURE APPLICATIONS FOR ADJUSTABLE FREQUENCY INDUCTION HEATING
ANTTI JÄRVENPÄÄ - UNIVERSITY OF OULU

12:20-12:40 RAPID SURFACE HEAT TREATMENTS
MATIAS JASKARI - UNIVERSITY OF OULU

12:40-13:00 ADJUSTABLE HIGH FREQUENCY INDUCTION SYSTEM
MATS ANDERSSON, TORD CEDELL, VILLE AKUJÄRVI, KENNETH FROGNER - LUND UNIVERSITY

13:00-13:20 HIGH ENTROPY ALLOYS RESEARCH
AHMED WAGDY E. ABDELGHANY - EGYPT-JAPAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

13:20-13:40 DEVELOPMENT OF SYSTEM FOR BIOMECHANICAL PRECLINICAL TESTING OF CUSTOMIZED
IMPLANTS ON SYNTHETIC BONE
MIGUEL ARAYA CALVO - COSTA RICA INSTITUTE OF TECHNOLOGY

13:40-14:00 DISCUSSION AND CONCLUSION, AFTERNOON COFFEE
TERHO ISO-JUNNO - OULUN YLIOPISTO

14:00-15:00 INTRODUCTION OF THE INDUCTION LINE AND ELME STUDIO LABORATORY
ELME STUDIO OPEN DOORS CONTINUES

WELCOME TO NIVALA OR PARTICIPATE VIA ZOOM!

**On May 17, 2022 at
8:15-15:00 (FIT)**

**Nivalan Industrial
Park, Pajatie 5,
85500 Nivala,
Finland or via Zoom**

**ELME Studio Open
doors at 8:15-11 (FIT)**

**Introduction of the
induction line
(demo)**

**Event is free and
open to all!**

REGISTERING

Please register for
Sanna Viirelä at
sanna.viirela@oulu.fi
on May 13, at the latest!

Once you have registered,
we'll send you a
participation link to the
event via email.