



## Seminar - Forum Invitation

20<sup>th</sup> of November 2020

Dear PhD Students and Supervisors,

I would sincerely invite you to the seminar in the **István Sályi Doctoral School** on 20<sup>th</sup> of November).

The seminar will be held online. The connection will be available with the following link and details:

<https://zoom.us/j/94474044258?pwd=dEJFS0s2WHhTbkEwdzA2c0ppMFp5QT09>

*Meeting ID: 944 7404 4258*

*Passcode: 339301*

The first presenter will start at 8<sup>00</sup> am. (please connect to the room earlier).  
Approximate length of presentations: **12 minutes** (+3 minutes for the questions).

**The language of the seminar is English.**

## **I. Section lectures:**

Chair: Prof. Dr. Károly Jármai

g<sup>00</sup>-g<sup>15</sup>

**Ahmad Yasser Dakhel** (supervisor: Prof. Dr. János Lukács)

*Failure statistics of transporting pipelines and their consequences*

g<sup>15</sup>-g<sup>30</sup>

**Houssam Sabbabi** (supervisor: Prof. Dr. János Lukács)

*Microstructure change of different welded AHSS after flame straightening*

g<sup>30</sup>-g<sup>45</sup>

**Aibek Sharipov** (supervisor: Dr. Csaba Felhő)

*Automatic controlling system of surface roughness*

g<sup>45</sup>-g<sup>00</sup>

**Alaa Al-Fatlawi Abdulzahra Deli** (supervisor: Prof. Dr. Károly Jármai; co-supervisor: Dr. György Kovács)

*Minimum weight and cost optimization of honeycomb sandwich structures*

g<sup>00</sup>-g<sup>15</sup>

**Antal Gábor Erdős** (supervisor: Prof. Dr. Károly Jármai)

*Optimum design of welded tanks*

g<sup>15</sup>-g<sup>30</sup>

**Szilárd Nagy** (supervisor: Prof. Dr. Károly Jármai)

*Reducing computation time using GPU based parallelization of FPA algorithm for optimization*

9<sup>30</sup>-9<sup>45</sup>

**Baibhaw Kumar** (supervisor: Dr. Zoltán Szamosi; co-supervisor: Dr. Gábor L. Szepesi)

*Optimization of solar dryers*

9<sup>45</sup>-10<sup>00</sup>

**Bassel Alsalamah** (supervisor: Dr. László Kuzsella)

*Physical simulation and mathematical modelization with hardness distribution mapping of SICO test*

10<sup>00</sup>-10<sup>15</sup>

**Cabezas Sebastian Alejandro** (supervisor: Dr. Attila Szilágyi)

*Thermal Simulations applied to Machine tools using the software SIEMENS NX 12*

10<sup>15</sup>-10<sup>30</sup>

**Mohammad Alzghoul** (supervisor: Dr. Attila Szilágyi)

*Rotor dynamics, Dynamical simulation of a CNC turning center*

10<sup>30</sup>-10<sup>45</sup>

**Wallyson Thomas** (supervisor: Dr. Attila Szilágyi)

*Dynamic modelling of internal tool holder considering different fixations*

10<sup>45</sup>-11<sup>00</sup>

**Hasan Nazha** (supervisor: Dr. Szabolcs Szávai)

*Design, modeling, simulation, manufacturing and testing of a novel ankle-foot orthosis for high-level activities*

11<sup>00</sup>-11<sup>15</sup>

**Yassine Chahboub** (supervisor: Dr. Szabolcs Szávai)

*Prediction of failure of ferritic steel using back propagation approach*

11<sup>15</sup>-11<sup>30</sup>

**Bernadett Spisák** (supervisor: Dr. Szabolcs Szávai; co-supervisor: Dr. Zoltán Siménfalvi)

*Effect of welding residual stress on operating stress of a dissimilar metal weld joint*

11<sup>30</sup>-11<sup>45</sup>

**Jamal Karmoua** (supervisor: Dr. Béla Kovács)

*Design and implementation of intelligent control systems to identification welding tracks for industrial robots*

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## II. Section lectures:

Chair: Prof. Dr. Gabriella Vadászné Bognár

12<sup>15</sup>-12<sup>30</sup>

**Jemal Ebrahim** (supervisor: Dr. Zsolt Lukács)

*Numerical simulation of Impact Extrusion for Aluminum alloy Aerosol can Manufacturing*

12<sup>30</sup>-12<sup>45</sup>

**Lucas Alexandre de Carvalho** (supervisor: Dr. Zsolt Lukács)

*The deep drawing process and the influence of tribology in the metal forming numerical simulation*

12<sup>45</sup>-13<sup>00</sup>

**Viktória Kállai** (supervisor: Dr. Gábor L. Szepesi; co-supervisor: Prof. Dr. Péter Mizsey)

*Theoretical and simulation investigation of separation technologies*

13<sup>00</sup>-13<sup>15</sup>

**Balázs Kriston** (supervisor: Dr. Károly Jálics ifj.)

*Localization of failures with vibro-acoustical methods in case of mechanical structures*

13<sup>15</sup>-13<sup>30</sup>

**Meknassi Raid Fekreddine** (supervisor: Prof. Dr. Miklós Tisza)

*Third Generation of advanced high strength sheet steels for automotive industry*

13<sup>30</sup>-13<sup>45</sup>

**Tatiane Domokos** (supervisor: Prof. Dr. Miklós Tisza)

*Lightweight manufacturing of Dual-Phase steel automotive parts*

13<sup>45</sup>-14<sup>00</sup>

**Mahmoud Saleh** (supervisor: Dr. Endre Kovács)

*Testing and improving a non-conventional unconditionally positive finite difference method*

14<sup>00</sup>-14<sup>15</sup>

**Mohamad Klazly** (supervisor: Prof. Dr. Gabriella Vadászné Bognár)

*Heat and mass transfer for Al<sub>2</sub>O<sub>3</sub> nanofluid in a duct*

14<sup>15</sup>-14<sup>30</sup>

**Okhunjon Sayfidinov** (supervisor: Prof. Dr. Gabriella Vadászné Bognár)

*Different noise term effects on the Kardar-Parisi-Zhang Interface Growing Equation*

14<sup>30</sup>-14<sup>45</sup>

**Mohammed Alktranee** (supervisor: Dr. Péter Bencs)

*Increasing the efficiency of the hybrid photovoltaic/thermal system*

14<sup>45</sup>-15<sup>00</sup>

**Tamás Pusztai** (supervisor: Dr. Zoltán Siménfalvi)

*Development of spring-loaded safety valve based on experimental and simulation investigation*

15<sup>00</sup>-15<sup>15</sup>

**Levente Tugyi** (supervisor: Dr. Zoltán Siménfalvi; co-supervisor: Dr. Gábor L. Szepesi)

*Differents between of the explosion proof mobile phones and the normal mobile phones*

15<sup>15</sup>-15<sup>30</sup>

**Rabab Benotsmane** (supervisor: Dr. László Dudás; co-supervisor: Dr. György Kovács)

*Motion planning control for industrial robots in the virtual environment*

15<sup>30</sup>-15<sup>45</sup>

**Shiraz Siddiqui** (supervisor: Dr. Mária Berkes Maros)

*Unravelling the morphology, damage mechanism of CrN and DLC coatings on duplex treated X42Cr13 cold work tool steel*

15<sup>45</sup>-16<sup>00</sup>

**László Soltész** (supervisor: Prof. Dr. László Kamondi; co-supervisor: Dr. László Berényi)

*Improvement of Product Development process – Success factors*

16<sup>00</sup>-16<sup>15</sup>

**Sándor Gergő Tóth** (supervisor: Dr. György Takács)

*Examination of the behaviour of hydrostatic spindles at high speed*

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