



R. Boškovića 32, 21000 Split, Croatia, EU



INTERNATIONAL CONFERENCE ON ENGINEERING INNOVATIONS 2022, Split, CROATIA

ECO ENERGY AND INNOVATIONS

AEROTECH AND AEROSPACE APPLICATIONS

Date: Friday, 2.12.2022.

Location: Amphitheatre C502, FESB, Ruđera Boškovića 32, Split

Organizer:

Department of Fluid Mechanics, Laboratory for aero- and hybrid energy systems

CONFERENCE PROGRAM:

Friday, 2.12.2022., C502, 08:30-16.30 h			
Event	MORNING SESSION	09:00-11:45	Morning Section
Registration	Desk in front C502	A. Vrsalović	08:30-09:00
Opening	prof. dr. sc. Branko Klarin and prof. dr. sc. Željko Hederić	FESB/FERIT	09:00-9:15
Presenting	Chair: prof. dr. sc. Željko Hederić	Presenter	Time
1	Introduction to the 'Floating Ice Platform' project	B. Klarin	09:15-09:30
2	Physical Model for Energy Consumption of Sailing Ship Propulsion System	M. Ćurković	09:30-09:45
3	Simulation of the solidification process of a phase change material	M. Draženović	09:45-10:00
4	Analysis of Initial Switching Overvoltages Distribution on the Grounded Transformer Windings during Transients in Electrical Networks	K. Miklošević	10:00-10:15
5	Optimal Induction Motor Thermal Model	Ž. Špoljarić	10:15-10:30
	Coffee Break		10:30-11:00
Presenting	Chair: prof. dr. sc. Igor Pehnec	Presenter	Time
6	Testing and comparison of compressive strength of ice composite samples with 10% beech sawdust and 10% fir sawdust	T. Lušić	11:00-11:15
7	Mjerenje toplinske vodljivosti izolacijskih materijala metodom provodljivog ravnog izvora	J. Bošnjak	11:15-11:30
8	Ispitivanje i usporedba tlačne čvrstoće uzoraka čistog leda i ledenog kompozita s piljevinom stabla bukve	N. Bodrožić Ćoko	11:30-11:45
	Group picture and Lunch Break		11:45 – 13:00
Event	AFTERNOON SESSION	13:00-16:30	Afternoon Section
Presenting	Chair: prof. dr. sc. Branko Klarin	Presenter	Time
1	An overview of Vertical Axis Wind Turbines regarding types and design	P. Bosnić	13:00-13:15
2	Hydrofoil shape optimization and slotted hydrofoil performance	S. Pleština	13:15-13:30
3	Composites in aviation	K. Periša	13:30-13:45
4	Prilozi za određivanje veličine jedara na suvremenim jedrenjacima	B. Klarin	13:45-14:00
5	Investigation of structural integrity of masts on wing sailboat	M. Omazić	14:00-14:15
	Coffee Break		14:15-14:30
Presenting	Chair: prof. dr. sc. Branko Klarin	Presenter	Time
6	Sails trim optimization of a three-mast passenger schooner by CFD	D. Jakšić	14:30-14:45
7	Ship model as a basis for research	A. Klarin	14:45-15:00
8	CFD-based tool in scientific research for solving the engineer's tasks – a 20 years of experience	M. Muhasilović	15:00-15:15
9	Structural analysis of a sailing ship model mast	A. Klarin	15:15-15:30
10	Airflow analysis around NACA0012 and Joukowski 0021 airfoil for sailing performance	A. Delić	15:30-15:45
11	Airflow analysis around ship with rigid sails using CFD	M. Marinović	15:45-16:00
Round Table	Discussion		16:00-16:15
Closing	Afterword		16:15-16:30

Exhibitors will hold a presentation for the specified duration. If there are no presenters present, it is the task of the section chairman to briefly describe the topic of the paper.

After that, a new presenter comes. If it turns out that there is time in the morning section, the presenters from the afternoon section will fill the slots according to the order. In that case, the chairman from the afternoon section will be transferred to the morning section.