

Location of the Workshop:

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HUNGARIAN UNIVERSITY OF AGRICULTURE AND LIFE SCIENCES

27th WORKSHOP ON

ENERGY AND ENVIRONMENT

PROGRAM

December 9-10, 2021

Gödöllő, Hungary

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**Program
(on-line)**

December 9 (Thursday)

14.30-17.00 On-line registration
Visiting the Department of Physics
Visiting the solar installations

December 10 (Friday)

08.30-08.45 Opening the Workshop by:
Prof. I. Farkas Founding Chairman of the Workshop
Hungarian University of Agriculture and Life Science,
Gödöllő, Hungary
Prof. I. Szabó Vice rector for Education
Hungarian University of Agriculture and Life Science,
Gödöllő, Hungary
Prof. L. Kátai Deputy director of Institute of Technology
Hungarian University of Agriculture and Life Science,
Gödöllő, Hungary

Session 1

*Chairmen: Prof. I. Farkas
Prof. P. Weihs*

08.45-09.00 I. Farkas: New application approaches in the field of solar photovoltaic technologies
09.00-09.15 D. Rusirawan, J. Horabik, Z. Hlavacova, M. Libra, I. Farkas: Collaboration of ITENAS Bandung and Visegrád Four's Institutions: Initiation of establishing Visegrad Four+ Consortium
09.15-09.30 P. Weihs, J. Laimighofer, M. Revesz, S. Schreier, H. Formayer: Influence of technical snowmaking on the radiation budget in an alpine area
09.30-09.40 Sz. Csányi, H. Zsiborács, G. Pintér, A. Vincze, N. Hegedűsné Baranyai: Hydrogen policy potentials in the countries of the Visegrad Group
09.40-09.50 E. Lévai, Á. Bereczky: Application of hydrogen propulsion in inland navigation
09.50-10.00 L. Lidyawati, M. Dawammudin, D. Rusirawan, I. Farkas: Time series model forecasting of energy production 1 kW_p solar power plant
10.00-10.10 Ahssan M.A. Alshibil, P. Víg, I. Farkas: Glass cover effects on performance of the hybrid solar collector systems
10.10-10.20 A.Y. Al-Rabeeah, I. Seres, I. Farkas: Enhancement thermal efficiency of PTSC by using nanofluid
10.20-10.45 COFFE BREAK

Session 2

*Chairmen: Dr. Cs. Mészáros
Dr. D. Rusirawan*

10.45-11.00 Cs. Mészáros, I. R. Nikolényi, Á. Bálint: Symmetry aspects of the optical scattering processes in solar materials
11.00-11.10 Mensour Almadhhachi, I. Seres, I. Farkas: Efficiency comparison between the polycrystalline and thin-film PV modules
11.10-11.20 T. Negash, I. Seres, I. Farkas: Power quality analysis and possible mitigation approaches for a grid connected photovoltaic systems
11.20-11.30 Maytham H. Machi, J. Buzas, I. Farkas: Modelling the flue conditions in a single pass solar air collector
11.30-11.40 Ahmed M. Ajeena, P. Víg, I. Farkas: Nanofluids in solar flat plate collectors: thermophysical properties and limitations
11.40-11.50 Q. Al-Yasiri, M. Szabó: Thermal performance of building envelope integrated with phase change material in a hot region
11.50-12.00 N.K. Mahsa, L. Lidyawati, L. Kristiana, D. Rusirawan, I. Farkas: Analysis of digital image transmitting based on internet of things
12.00-12.10 A. Maulidia, L. Lidyawati, L. Jambola, L. Kristiana: Prediction of breast cancer using machine learning
12.10-12.45 LUNCH BREAK

Session 3

*Chairmen: Dr. I. Seres
Dr. S. Bartha*

12.45-13.00 S. Bartha, L.C. Duarte, F. Carvalheiro: Hydrogen role in the decarbonisation of the European economy and new feedstock for its sustainable production
13.00-13.10 S. Daniarta, A.R. Imre, P. Kolasiński: An alternative improvement of geothermal power plant - in a case study: Indonesia
13.10-13.20 D.I. Permana, D. Rusirawan, I. Farkas: Empirical correlation of optimal turbine inlet temperature and pressure for geothermal ORC
13.20-13.30 P. Hermanucz, G. Géczy, I. Barótfi: Method for selecting the location of an experimental heat pump installation
13.30-13.40 Sz. Páger, A. Veres, L. Földi, G. Géczy: Modelling of buildings with a mathematical approach
13.40-13.50 L.R. Fekti, G. Géczy, L. Székely: Indoor pollutants from old and newly built houses
13.50-14.00 G. Géczy, I. Seres: Semiconductor-based measurement methods for ionizing radiation sensing
14.00-14.10 K. Halefom, J. Buzas, I. Farkas: Estimation and forecasting of solar resources by artificial neural network
14.10-14.20 Gedion Habtay, J. Buzas, I. Farkas: Performance of an indirect natural type of solar dryer
14.20-14.30 CLOSING