

Location of the Workshop:

Physics Laboratory I, Seminary Building, Room 215.
Department of Physics and Process Control
Szent István University
Páter K. u. 1., Gödöllő, H-2100 Hungary



———— SZENT ISTVÁN UNIVERSITY GÖDÖLLŐ ————

Department of Physics and Process Control

25th WORKSHOP ON

ENERGY AND ENVIRONMENT

PROGRAM

November 28-29, 2019

Gödöllő, Hungary

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Program

November 28 (Thursday)

14.30-17.00 Registration
Visiting the Department of Physics and Process Control
Visiting the solar installations

November 29 (Friday)

08.30-08.40 Opening the Workshop by:
Prof. I. Farkas Head of Mechanical Engineering PhD School
Institute for Environmental Engineering Systems
Szent István University, Gödöllő, Hungary
Prof. I. Szabó Vice rector for Education
Szent István University, Gödöllő, Hungary
Prof. L. Káтай Dean of Faculty of Mechanical Engineering
Szent István University, Gödöllő, Hungary

Session 1

*Chairmen: Prof. I. Farkas
M. Pálffy*

08.40-09.00 I. Farkas: Recent developments in solar thermal energy use
09.00-09.10 M. Pálffy: PV in the last 25 years
09.10-09.20 Z. Farkas, A. Ürmös, Á. Nemesics: Very high efficiency quantum dot based solar cell and its some technological aspects
09.20-09.30 D. Atsu, I. Seres and I. Farkas: Performance analysis of grid connected Si-poly and Si-amorphous photovoltaic systems
09.30-09.40 Ahssan M.A. Alshibil, P. Víg and I. Farkas: Efficiency improvement of the hybrid solar collector systems
09.40-09.50 P. Víg: Examination of a photochemical thin layer on solar module
09.50-10.00 B. Varga, Z. Komróczy, Á. Nemesics: Some aspects of a Hungarian solar cell project
10.00-10.10 I. Seres, D. Atsu, I. Farkas: Voltage-time function measurements of inverters
10.10-10.40 COFFEE BREAK

10.40-11.00

11.00-11.10

11.10-11.20

11.20-11.30

11.30-11.40

11.40-11.50

11.50-12.00

12.00-12.10

12.10-13.30

13.30-13.50

13.50-14.00

14.00-14.10

14.10-14.20

14.20-14.30

14.30-14.40

14.40-14.50

14.50-15.00

15.00-15.10

15.10-15.30

Session 2

*Chairmen: Prof. K. Gottschalk
Dr. Cs. Mészáros*

U. Praeger, H. Scaar, I. Truppel, K. Gottschalk and M. Geyer: A low air speed logger for measurements in storage of agricultural products
Cs. Mészáros and Á. Bálint: Symmetry analysis of the optical scattering processes relevant for solar cell materials
Gy. Ruda: Energetic and environmental effects of concentrated building activity
Z. Patonai, R. Kicsiny, G. Géczy: Research the comfort optimum in the military camp
P. Hermanucz: Investigation of micro-scale, renewable energy based cogeneration or trigeneration units
A. Qor-el-aïne, A. Béres, and G. Géczy: The different transmission of air pollutants in Morocco
G. Habtay, J. Buzás and I. Farkas: Analysis of the airflow in chimney based indirect solar dryer
J. Tóth, V. Erdélyi, L. Jánosi, I. Farkas: On-off and PID control of a small-scale solar system

LUNCH BREAK

Session 3

*Chairmen: Prof. P. Weihs
Dr. I. Seres*

P. Weihs, H. Trimmel, H. Formayer, C. Gützer, I. Nadeem, S. Oswald, S. Faroux, A. Lemonsu, V. Masson, M. Revesz, K. Hasel: Influence of climate change and urban growth of the city Vienna on the thermal comfort of its inhabitants
H. Zsiborács, G. Pintér, N. Hegedűsné Baranyai, K. Máté, P. Weihs: CO₂ reductions of photovoltaic and wind energy technologies in Hungary and in Austria: Perspectives for 2030
I.R. Nikolényi, J. Tóth: Hubbard model for efficiency calculations of organic solar cells
I. Kocsány, I. Seres and I. Farkas: Effects of absorption on heat transfer process in solar collectors
M. Haekal, D. Rusirawan and I. Farkas: Feasibility study of hybrid renewable energy system in Cipatujah, West Java - Indonesia
Asaad Yasseen, I. Farkas and I. Seres: Modelling aspects of concentrating solar collectors
F.A. Irdam, D. Rusirawan, and I. Farkas: Modelling of photovoltaic's characteristics based on fuzzy time series
M.F.A.R. Tisyadi, C. Nugraha, Rispianda and M. Daroczi: Augmented reality based learning aid as a potential alternative for paper based media
S. Bartha, L. C. Duarte, F. Carneiro, P. Moniz: Sustainable marine biorefinery model base seaweeds value chain developed for small scale units

CLOSING