



SCEESD 2018 CONFERENCE AGENDA



DAY 0 – 03.12.2018 (Monday)

- 10:30 Departure for Exhibition Center Matka ----- FEEIT parking lot
- 11:15 Arriving at Exhibition Center Matka
- 13:30 Lunch at Canyon Matka Restaurant
- 15:30 Departure for FEEIT

DAY 1 – 04.12.2018 (Tuesday)

- 09:00 Participant registration ----- FEEIT hall
- 10:00 Opening ceremony ----- Amphitheatre FEEIT/MFS
- 11:00 **PLENARY SESSION: APPLICATION OF ENERGY EFFICIENT MEASURES IN SKOPJE**
Grad Skopje
- 11:30 **PLENARY SESSION: OPTIMIZED LIMITATION: CHARGING RELIABILITY OF THE CHARGING INFRASTRUCTURE FOR ELECTRICAL VEHICLES**
Sreten Davidov
- 12:00 Cocktail
- SESSION I: ENERGY EFFICIENCY, AUTOMATION AND MEASUREMENTS - A***
- 13:00 ENERGY EFFICIENCY TEST OF AN OFFICE BUILDING USING THERMAL IMAGING
Mariela Klekovska
- 13:15 ENERGY EFFICIENT MOTORS
Liridon Lutfu, Erblina Purlku
- 13:30 POWER FACTOR CORRECTION: AN OVERLOOKED BUT POWERFUL TOOL FOR INCREASING ENERGY EFFICIENCY
Angela Popova, Aljoshia Sinadinovski
- 13:45 ACTIVE POWER FILTERS USED FOR POWER QUALITY IMPROVEMENT
Viktor Rudan
- 14:00 CHOOSING TECHNOLOGY AND OPTIMAL BATTERY MANAGEMENT SYSTEM (BMS)
Angela Najdoska, Biljana Pankova
- 14:15 Coffee break
- SESSION II: ENERGY EFFICIENCY, AUTOMATION AND MEASUREMENTS - B***
- 14:45 **PLENARY SESSION: EUROPEAN EXPERIENCES OF RENEWABLE ENERGY SOURCES INTEGRATION IN ELECTRICITY MARKETS**
Doc. Aleksandra Krkoleva Mateska
- 15:15 DEVELOPMENT AND IMPLEMENTATION OF OPEN ENERGY SYSTEMS IN STANDARD POWER SYSTEMS
Natasha Dimishkova
- 15:30 COAL THERMAL POWER PLANT VS. SOLAR PHOTOVOLTAIC POWER PLANT: LCOE AND NPV ANALYSIS
Vojdan Andonov, Dejan Dimitriev
- 15:45 EDUCATIONAL EQUIPMENT FOR STUDYING THE BENEFITS OF USING SOLAR ENERGY
Stefan Trajkov
- 16:00 AUTOMATION OF THE CLEANING PROCESS OF PHOTOVOLTAIC PANELS
Zoran Pushev, Marko Markovski

DAY 2 – 05.12.2018 (Wednesday)

- 08:30 Participant registration
- SESSION III: RENEWABLE ENERGY SOURCES - A***
- 09:00 **PLENARY SESSION: COMPARATIVE ANALYSIS OF THE CHARACTERISTICS OF PHOTOVOLTAIC SYSTEMS DEPENDING ON THE TYPE, LOCATION AND WEATHER CONDITIONS**
MSc. Nikolina Shutinoska
- 09:30 ESTABLISHING A PHOTOVOLTAIC GENERATOR IN HOUSEHOLDS WITH DIFFERENT ORIENTATION OF THE ROOF
Biljana Pankova, Angela Najdoska
- 09:45 ANALYSIS OF THE PROFITABILITY OF SMALL PHOTOVOLTAIC SYSTEMS
Stojan Spasevski, Marija Cvetkovska
- 10:00 EXPERIENCE OF USING A SOLAR COLLECTOR IN A HOUSEHOLD
Iskra Jacheva, Iva Nikolova
- 10:15 DISTRIBUTED ENERGY RESOURCES – PHOTOVOLTAICS PLANT INSTALLED ON THE ROOF OF ONE ECONOMIC ENTITY
Kristina Janevska
- 10:30 Coffee break
- SESSION IV: RENEWABLE ENERGY SOURCES - B***
- 11:00 **COMPANY PRESENTATION: BENEFITS FROM ADVANCED MONITORING AND ASSESSMENT OF THE PHOTOVOLTAIC POTENTIAL - SOLAR DATA COLLECTOR**
Swift Data DOO
- 11:15 BATTERY OPTION ANALYSIS FOR SOLAR ENERGY STORAGE
Petar Vidoevski, David Gjorgjevski
- 11:30 IMPROVEMENT OF OBTAINING OF SOLAR ENERGY USING ROTATING SOLAR PANELS
Nikola Mitrović
- 11:45 IMPACT ON TILT ANGLE AND ORIENTATION OF PHOTOVOLTAIC PANELS ON THE PRODUCED ELECTRICITY FROM PHOTOVOLTAIC SYSTEMS
Ilija Stojkovski, Gjorgji Sirakoski
- 12:00 MICROGRID MODELING AND OPTIMIZATION
Jovana Troshanska
- 12:15 Coffee break
- SESSION V: RENEWABLE ENERGY SOURCES - C***
- 12:45 RENEWABLE ENERGY SOURCES IN SLOVENIA: DETERMINING POSSIBLE DEVELOPMENT TREND UNTIL 2020 WITH GEOMETRIC BROWNIAN MOTION
Dejan Tasić, Alen Krunič
- 13:00 ELECTRICITY GENERATION USING THE ORGANIC RANKINE CYCLE IN GEOTHERMAL ENERGY SOURCES
Martina Blazheska
- 13:15 BLADE DESIGN FOR HORIZONTAL AXIS WIND TURBINE
David Albadan
- 13:30 HUMPBACK WHALE INSPIRED DESIGN FOR TIDAL TURBINE BLADES
Bozhan Todorov
- 13:45 DESIGNING OF POWER PLANTS FROM RES
Bunjamin Sulejmani, Platin Saliu
- 14:00 Lunch

SESSION VI: RENEWABLE ENERGY SOURCES - D*

- 15:00 **PLENARY SESSION: POTENTIAL OF WOODEN BIOMASS FOR CO-GENERATION IN MACEDONIA**
Mr. Aleksandar Tolevski - CEO at Intebako
- 15:30 ANALYSIS OF THE POSSIBILITIES FOR UTILIZATION OF WASTE VEGETATIVE BIOMASS FOR ENERGY PURPOSES
Filip Todorovski, Emilija Dejanoska
- 15:45 BIOMASS ENERGY CONVERSION - TECHNOLOGY AND APPLICATION
Despina Ristova
- 16:00 BIOGAS POWERPLANTS IN MACEDONIA – POTENTIAL , CHARACTERISTICS AND PRODUCTION OF ELECTRICAL POWER
Elena Kochovska, Tamara Markovikj

DAY 3 – 06.12.2018 (Thursday)

- 08:30 Participant registration

SESSION VII: ELECTRIC VEHICLES AND ENERGY EFFICIENT TRANSPORTATION*

- 09:00 VEHICLE-TO-GRID TECHNOLOGY – ACHIEVEMENTS AND CHALLENGES
Elena Blazhevska, Marija Kalevska
- 09:15 BATTERIES CHARGING SYSTEMS FOR ELECTRIC AND PLUG-IN HYBRID ELECTRIC VEHICLES
Ljubica Trendafilova
- 09:30 ENERGY EFFICIENT TRANSPORT
Kaja Lazova, Andzelo Macura
- 09:45 STATISTICS AND THE POTENTIAL OF ELECTRICAL AND HYBRID VEHICLES IN THE EU
Alen Krunic, Dejan Tasic
- 10:00 Coffee break

SESSION VIII: ENERGY EFFICIENT ENVIRONMENT, NEW TECHNOLOGIES AND MATERIALS-A*

- 10:30 **PLENARY SESSION: SAFETY SYSTEMS IN LOW VOLTAGE ELECTRICAL INSTALATION**
Prof. Dr. Zhivko Kokolanski
- 11:00 ENERGY EFFICIENCY OF LED LIGHT SOURCES
Filip Stojanoski
- 11:15 INFLUENCE OF THE THERMAL CHARACTERISTICS OF BUILDINGS ON THE OPTIMAL CAPACITY OF COMBINED COMPRESSOR-EJECTOR POLYGENERATION SYSTEMS
Aleksandar Gerasimovski
- 11:30 COMPARATIVE ANALYSIS OF DIFFERENT HEATING SYSTEMS FOR THE CITY OF SKOPJE AS AN URBAN AREA
Emilija Dejanoska, Filip Todoroski
- 11:45 Coffee break
- 12:15 **PLENARY SESSION**
Prof. Dr. Abraham Kribus - Tel Aviv University
- 13:15 Coffee break

SESSION IX: ENERGY EFFICIENCY IN FACILITIES, CIVIL ENGINEERING AND ARCHITECTURE*

- 13:45 **PLENARY SESSION: BUILDING INFORMATION MODELING – BIM TECHNOLOGY**
Prof. Dr. Lihnida Stojanovska-Georgievska
- 14:15 INTEGRATION OF RENEWABLE ENERGY SOURCES IN NEARLY ZERO ENERGY BUILDINGS
Elena Spasovska
- 14:30 ENERGY EFFICIENT BUILDINGS
Marija Gjorgieva, Dragana Nikolova
- 14:45 ENERGY EFFICIENCY AND ENERGY SAVING IN SCHOOLS IN RURAL ENVIRONMENT
Dragana Krstevska
- 15:00 PASSIVE HOUSE WITH GREEN ROOF
Boštjan Krošelj, Uroš Krošelj
- 15:15 EFFICIENT USE OF ENERGY IN WINTER GREENHOUSES FOR MORE SUCCESSFUL FARMING
Uroš Krošelj, Boštjan Krošelj
- 15:30 Lunch

SESSION X: ENERGY EFFICIENT ENVIRONMENT, NEW TECHNOLOGIES AND MATERIALS - B*

- 16:30 **PLENARY SESSION: PHYTOREMEDIATION OF SOIL MIXED WITH PETROLEUM HYDROCARBONS OF OIL INDUSTRY**
Prof. Dr. Silvana Manasievska Simikj
- 17:00 MEASURES, METHODS AND NEW TECHNOLOGIES FOR THE REDUCTION OF ENVIRONMENTAL POLLUTION
Marija Rizova
- 17:15 ULTRASOUND-ASSISTED SYNTHESIS OF ZEOLITE NA-X FROM COAL ASH FOR APPLICATIONS IN ENVIRONMENT PROTECTION TECHNOLOGIES
Simona Miteva, Denitza Zgureva
- 17:30 EQUILIBRIUM ADSORPTION OF CARBON DIOXIDE ONTO ZEOLITE SORBENTS OBTAINED FROM SOLID WASTES
Ivan Marinov, Denitza Zgureva
- 17:45 APPLICATION OF SMART SENSORS IN ENERGY EFFICIENT ELECTRICAL DEVICES, MACHINES AND APPLIANCES
Aleksandra Gjorgjievaska
- 21:00 **GALA NIGHT @ NOLA LOUNGE BAR**

DAY 4 – 07.12.2018 (Friday)

- 09:30 Participant registration
- 10:00 Introduction of the mentors for the workshop
- 11:00 **PLENARY SESSION**
Yair Engel - Director at Kayama (Center for Sustainable Design)
- 12:00 Lunch
- 13:00 **Workshop Pt.1:** Creating the business models - rotating mentors
- 15:00 **Workshop Pt.2:** Completing the business models - assigned mentors
- 16:30 Coffee break
- 17:00 Pitching of the business ideas
- 18:00 Closing ceremony
- 18:30 Cocktail

* All sessions are held in **INNOF@IT**