

**Engineering Sustainability & Sustainable Energy 2018**  
**ESSE '18**  
**Tuesday 8<sup>th</sup> May 2018**  
**The Dolmen Resort Hotel & Spa, St. Paul's Bay, Malta**

PROGRAMME: TUESDAY 8<sup>TH</sup> MAY 2018

- 08:30 – 09:00 REGISTRATION
- 09:00 – 09:15 OPENING SESSION  
PROF. EMMANUEL SINAGRA, CHAIRMAN, INSTITUTE FOR SUSTAINABLE ENERGY, UNIVERSITY OF MALTA  
PROF. LUCIANO MULE' STAGNO, DIRECTOR, INSTITUTE FOR SUSTAINABLE ENERGY, UNIVERSITY OF MALTA  
ING. NORMAN ZAMMIT, PRESIDENT, CHAMBER OF ENGINEERS
- SESSION 1: ING. NORMAN ZAMMIT, CHAIRPERSON
- 09:15 – 09:45 PRESENTATION 1: **SOLAR RIGHTS AND MALTESE LEGISLATION**, DR. EDWARD MARIO CAMILLERI LL.D, LL.M (IMLI), LL.M (ENERGY LAW)(QMUL)
- 09:45 – 10:15 PRESENTATION 2: **EU FINANCIAL INSTRUMENT FOR ENERGY EFFICIENCY**, MARK SCICLUNA BARTOLI, BANK OF VALLETTA
- 10:15 – 10:45 PRESENTATION 3: **INTERREG EUROPE ZERO CO2 PROJECT - ACTION PLAN FOR MALTA TO PROMOTE NEAR ZERO CO2 EMISSION BUILDINGS**, DAMIEN GATT, INSTITUTE FOR SUSTAINABLE ENERGY, UNIVERSITY OF MALTA, MALTA
- 10:45 – 11:15 COFFEE BREAK (VISITING STANDS AND POSTER SESSION)
- SESSION 2: PROF. LUCIANO MULE' STAGNO, CHAIRPERSON
- 11:15 – 11:45 PRESENTATION 4: **THE RETROFITTING AND UPGRADING OF THE ADMINISTRATION CENTRE IN VICTORIA GOZO – MINIMISING THE ENERGY CONSUMPTION THROUGH THE IMPLEMENTATION OF ENERGY EFFICIENT MEASURES**, CHRISTIAN CORDINA, PROJECTS AND DEVELOPMENT DIRECTORATE, MINISTRY FOR GOZO, VICTORIA, GOZO
- 11:45 – 12:15 PRESENTATION 5: **EXPERIMENTAL PERFORMANCE OF A DUAL-SOURCE HEAT PUMP COUPLED WITH SHALLOW HORIZONTAL GROUND HEAT EXCHANGERS**, MAURO CANNISTRARO, UNIVERSITY OF FERRARA, FERRARA, ITALY
- 12:15 – 12:45 PRESENTATION 6: **MARINE CLIMATOLOGICAL DATASETS FOR THE MALTESE ISLANDS**, ALDO DRAGO, PHYSICAL OCEANOGRAPHY RESEARCH GROUP, DEPARTMENT OF GEOSCIENCES, UNIVERSITY OF MALTA, MSIDA, MALTA
- 12:45 – 13:15 PRESENTATION 7: **SUSTAINABILITY ANALYSIS OF A COMPRESSED AIR SYSTEM**, LUCA CARUANA, DEPARTMENT OF INDUSTRIAL AND MANUFACTURING ENGINEERING, FACULTY OF ENGINEERING, UNIVERSITY OF MALTA, MALTA
- 13:15 – 14:15 LUNCH (VISITING STANDS AND POSTER SESSION)
- SESSION 3: PROF. ROBERT GHIRLANDO – CHAIRPERSON
- 14:15 – 14:45 PRESENTATION 8: **ANALYSIS OF THE OPERATION AND PERFORMANCE OF A SOLAR COOLING SYSTEM**, ROBERTA VELLA, INSTITUTE FOR SUSTAINABLE ENERGY, UNIVERSITY OF MALTA
- 14:45 – 15:15 PRESENTATION 9: **MONITORING INDOOR TEMPERATURES OF PLACES OF WORSHIP: A FIRST STEP TOWARDS ENERGY SUSTAINABILITY**, ROBERT VELLA, INSTITUTE FOR SUSTAINABLE ENERGY, UNIVERSITY OF MALTA, MALTA
- 15:15 – 15:45 PRESENTATION 10: **PERFORMANCE GAP BETWEEN ASSET AND OPERATIONAL ENERGY PERFORMANCE RATING FOR NON-RESIDENTIAL BUILDINGS**, PAUL VASSALLO, INSTITUTE FOR SUSTAINABLE ENERGY, UNIVERSITY OF MALTA, MALTA
- 15:45 – 16:15 PRESENTATION 11: **THE EFFECTIVENESS OF VERNACULAR STACK VENTILATION WITH APPLICATION IN MODERN AND RETROFITTED BUILDINGS**, MAURIZIO SCHEMBRI, DEPARTMENT OF ENVIRONMENTAL DESIGN, UNIVERSITY OF MALTA, MALTA
- 16:15 – 16:30 CLOSING SESSION:  
PROF. LUCIANO MULE' STAGNO, INSTITUTE FOR SUSTAINABLE ENERGY  
ING. NORMAN ZAMMIT, CHAMBER OF ENGINEERS