



INSTITUTE FOR SUSTAINABLE ENERGY, UNIVERSITY OF MALTA

Sustainable Energy 2013

The ISE Annual Conference

21st March 2013, Dolmen Resort Hotel & Spa, Qawra, Malta

PROGRAMME: THURSDAY 21ST MARCH 2013

- 08:30 – 09:00 **REGISTRATION**
- 09:00 – 09:15 **OPENING SESSION: DR. KONRAD MIZZI, MINISTER FOR ENERGY AND THE CONSERVATION OF WATER & PROF. ROBERT GHIRLANDO, DIRECTOR, ISE**
- 09:15 – 09:30 **SESSION 1: PROF. ROBERT GHIRLANDO – CHAIRMAN**
PRESENTATION 1: REPORT ON THE ACTIVITIES OF THE ISE, DIRECTOR ISE
- 09:30 – 10:30 **PRESENTATION 2: EXTREMELY FUNDED RESEARCH PROJECTS BEING CARRIED OUT AT THE ISE**
- LA VIGNA ENERGETICA, PROF. ROBERT GHIRLANDO
 - RENEWABLE ENERGY SCENARIOS IN ISLANDS (RESI), PROF. MANFRED WEISSENBACHER
 - DEEP OFFSHORE WIND (DOW), ING. ROBERT FARRUGIA
 - BLUE OCEAN ENERGY, PROF. LUCIANO MULE STAGNO
 - INNOVATIVE PHOTOVOLTAICS ON WATER *(SOLAQUA), PROF. LUCIANO MULE STAGNO
 - DEVELOPMENT OF A HOLLOW CONCRETE BLOCK WITH IMPROVED THERMAL PROPERTIES (THERMHCB), EUR ING CHARLES YOUSIF
- 10:30 – 11:00 COFFEE BREAK (VISITING STANDS AND POSTER SESSION)**
- 11:00 – 11:30 **SESSION 2: PROF. MANFRED WEISSENBACHER – CHAIRMAN**
PRESENTATION 3: THE MALTESE ENERGY SECTOR – AN OVERVIEW, ANTHONY RIZZO, MALTA RESOURCES AUTHORITY, MALTA
- 11:30 – 12:00 **PRESENTATION 4: INCREASING PV MODULE OUTPUT WITH FLAT BOOSTER REFLECTORS – A SCENARIO IN MALTA, MARTIN GRECH, CHARLES YOUSIF AND LUCIANO MULE' STAGNO, UNIVERSITY OF MALTA, MALTA**
- 12:00 – 12:30 **PRESENTATION 5: THE NEW BREWHOUSE, MRIEHEL: ENVIRONMENTAL CONTROL THROUGH NATURAL VENTILATION AND SHADING DEVICES, GRETA CARUANA SMITH, ALBERTO MICELI FARRUGIA - ARCHITECTURE PROJECT LTD, MALTA, MARIA CRISTOBAL, UNIVERSITY OF VALLADOLID, SPAIN AND CHARLES YOUSIF, UNIVERSITY OF MALTA, MALTA**
- 12:30 – 13:30 LUNCH (VISITING STANDS AND POSTER SESSION)**
- 13:30 – 14:00 **SESSION 3: PROF. LUCIANO MULE' STAGNO – CHAIRMAN**
PRESENTATION 6: ASSESSING THE OFFSHORE WAVE ENERGY POTENTIAL FOR THE MALTESE ISLANDS, ALDO DRAGO, J. AZZOPARDI, A. GAUCI AND R. TARASOVA, UNIVERSITY OF MALTA, MALTA
- 14:00 – 14:30 **PRESENTATION 7: ANALYSIS OF THE POTENTIAL OF A WAVE ENERGY CONVERSION SYSTEM FOR THE MALTESE WATERS, ANNALISE XUEREB, CYRIL SPITERI-STAINES, LUCIANO MULE' STAGNO, TONIO SANT, ALDO DRAGO, UNIVERSITY OF MALTA, MALTA**
- 14:30 – 15:00 **PRESENTATION 8: FIELD BEHAVIOUR OF A FLAT PANEL GROUND HEAT EXCHANGER, MICHELE BOTTARELLI AND MARCO BORTOLONI, UNIVERSITY OF FERRARA, ITALY**
- 15:00 – 15:30 COFFEE BREAK (VISITING STANDS AND POSTER SESSION)**
- 15:30 – 16:00 **SESSION 4: DR. TONIO SANT – CHAIRMAN**
PRESENTATION 9: ANALYSIS OF A STAND-ALONE HYDRAULIC OFFSHORE WIND TURBINE COUPLED TO A PUMPED WATER STORAGE FACILITY, DANIEL BUHAGIAR AND TONIO SANT, UNIVERSITY OF MALTA, MALTA
- 16:00 – 16:30 **PRESENTATION 10: CONTROL OF A DOUBLY FED INDUCTION MACHINE IN A WIND ENERGY CONVERSION SYSTEM, KRIS SCICLUNA, CYRIL SPITERI-STAINES AND MAURICE APAP, UNIVERSITY OF MALTA, MALTA**
- 16:30 – 17:00 **PRESENTATION 11: TESTING THE POTENTIAL OF VOLTAGE REGULATION FOR ACHIEVING HIGHER ENERGY EFFICIENCY, CEDRIC CARUANA, CHARLES YOUSIF, UNIVERSITY OF MALTA, MALTA AND MARTIN DEBONO, CD POWER SAVING CO. LTD., MALTA**
- 17:00 – 17:15 **CLOSING SESSION: DR. TONIO SANT, CHAIRMAN, ISE**

Sponsors: Alternative Technologies Ltd., Energy Investment Ltd, JMV Vibro Blocks Ltd. Solar Engineering Ltd. and Solar Solutions Ltd.



INSTITUTE FOR SUSTAINABLE ENERGY, UNIVERSITY OF MALTA

Sustainable Energy 2013

The ISE Annual Conference

21st March 2013, Dolmen Resort Hotel & Spa, Qawra, Malta

POSTER 1: THE PHOTOVOLTAIC GREENHOUSES: A UNION BETWEEN SUSTAINABLE DEVELOPMENT AND AGRICULTURE, GIOVANNI LUCA DIERNA, UNIVERSITY OF ENNA "KORE", ITALY AND DAVIDE RAGUSA, AGRONOMIST

Poster 2: USE OF ENERGY STORAGE SYSTEMS IN BUILDINGS AND OTHER APPLICATIONS, ANTONINO FABIO AGOSTA, UNIVERSITY OF ENNA "KORE", ITALY

POSTER 3: PERFORMANCE OF A SOLAR-ASSISTED THERMODYNAMIC HEAT PUMP FOR WATER HEATING, CHARLES YOUSIF, UNIVERSITY OF MALTA, IRENE TERESA CUBERO, UNIVERSITY OF VALLADOLID, SPAIN AND MARTIN DEBONO, CD POWER SOLUTIONS LTD, MALTA

POSTER 4: POTENTIAL OF MINI-HYDRO IN MALTA: APPLICATION IN A PIPELINE, MARCO GILEPPO, UNIVERSITY OF ENNA "KORE", ITALY

**Sponsors: Alternative Technologies Ltd., Energy Investment Ltd, JMV Vibro Blocks Ltd.
Solar Engineering Ltd. and Solar Solutions Ltd.**