

Electricity 2012 חשמל 2012

Eilat, Israel
November 14-17, 2012
Herods and Dan Eilat Hotels

**The Annual Convention of the Society of Electrical
and Electronics Engineers in Israel**





The Annual Convention of the Society of Electrical and Electronics Engineers in Israel

Sessions Program

Wednesday, November 14, 2012

Herods Boutique Hotel - Queens Hall

10:00–12:00

Workshop Session 1

Power systems and battery storage

Dr. **Alessandro Clerici**, Chair of WEC Study Group, ABB, Italy

Herods Boutique Hotel - Kings Hall

10:00–12:00

Workshop Session 2

Innovative Lighting Design

Eng. **Mike Simpson**, Technical & Design Director Philips, UK

Herods Boutique Hotel - Kings Hall

15:00–16:30

Plenary Session

Chair: Eng. **Ron Weiss**

Electric Sustainability

Eng. **Jacob (Yasha) Hain**, Senior Executive Vice President at Israel Electric Corporation

התמודדות עם הפרעות החשמל הגדולות בארץ ובעולם: סיבות ואתגרים

Coping with Large Electrical Disturbance in Israel and Around the World: Causes and Challenges

Panel Discussion

Dr. **Yehuda Niv**, Director of the Electricity Administration, Ministry of Energy and Water Resources

Prof. **Abraham Alexandrovitz**, Technion - Israel Institute of Technology

Eng. **Emanuel Marynko**, Yanai Electrical Engineering Company Chairman

Eng. **Dov Strulovici**, Manager of National Dispatch Division, Israel Electric Corporation

17:00–18:00

Opening Ceremony & Greetings *

The 50-th anniversary of the IEEE-Israel the first decade of the SEEEI

Chair: Eng. **Yuval Margulis** Chairman of the conference Electricity 2012
Greetings:

Eng. **Emil Koifman**, Chairman of SEEEI

Prof. **Simon Litsyn**, General Chairman of IEEE-Israel

Mr. **Yiftach Ron-Tal**, Chairman of the Board, Israel Electric

Mrs. **Orit Farkash-Hacohen**, Chairman of the Public Utilities Authority (Electricity)

Mr. **Shaul Zemach**, General Manager of the Ministry of National Infrastructure

MK **Shalom Simhon**, Minister of Industry, Trade and Labor

**IEEE Israel Life Achievements Awards Presentation to Dr. Uzia Galil
and Dr. Michael Rodeh**

18:00–19:30

Plenary Session

Chair: Prof. **Gady Golan**

Power System Challenges

Keynote Speech I:

Dr. **Michael Weinhold**, Chief Technology Officer, Siemens Energy Sector, Germany

How Electrical Energy Will Facilitate our Live in the Year 2030

Keynote Speech II:

Dr. **Alessandro Clerici**, Chair of WEC Study Group on Survey of Energy Resources and Technologies, ABB, Italy

Energy Efficiency: A Recipe for Success

Keynote Speech III:

Dr. **Bernhard Thies**, Chairman of the Board of Directors DKE, Germany

Standardization in Complex Systems - Smart Grid

Parallel Sessions

Session TAM1		Lighting Systems	
		Chair: Daniel Kalina	
		Thursday, November 15	
		Kings A Hall - Herods Boutique Hotel	
1	09:00-09:25	Amir Poznansky, Yehiel Winer , Menolinx, Israel	Lighting Control and Energy Saving
2	09:25-09:50	Amir Cohen , ERCO, Israel	תוכנת הדמיה לתכנון ושילוב גופי תאורה ועמודי תאורה ברחובות, פארקים ומתחמים ציבוריים התוכנה מבית CARANDINI
3	09:50-10:15	Alex Yarmolinsky , Or Ad Engineers, Israel	LED on the Streets CH.6 New Approach, Standards and Future Technologies
4	10:15-10:40	Ian Rubin , NES Led Lighting, Israel	Review of the Latest International Standards for LED Lighting and How this Affects Energy Saving Calculations
5	10:40-11:30	Mike Simpson , Philips Lighting, UK	Making London 2012 the Most Sustainable Olympic Games Ever

Session TAM2		Reliable Energy Supply of Essential Facilities	
		Chair: Sylvia Mandelbaum	
		Thursday, November 15	
		Kings B Hall - Herods Boutique Hotel	
1	09:00-09:25	Katz Shimon , Bank Hapoalim, Israel	Achieving Data Center Availability Along with Efficiency by Management Systems
2	09:25-09:50	Shahar Fisher , SIEMENS, Israel	בחירה והתאמת מערכת הבקרה והשליטה - SICAM למתקן מתח גבוה
3	09:50-10:15	Avihi Goldberg, Nisan Hajaj , IDF, Israel	אמינות אספקת חשמל למתקנים חיוניים
4	10:15-10:40	Slava Gartshtein , Yod Tet Eng, Israel	Goose Messages IEC61850 Designer Point of View
5	10:40-11:05	Shuki Abramowitz , ABB Israel	ממירי תדר והשפעתם על מערכות חשמל מודרניות

Session TAM3		Maintenance & Safety	
		Chair: Doron Moskovitch	
		Thursday, November 15	
		Kings C Hall - Herods Boutique Hotel	
1	09:00-09:25	M. Krüger, A. Kraetge, M. Koch, G. Galimberti , OMICRON Electronics, Austria	New Diagnostic Tools for High Voltage Bushings
2	09:25-09:50	Eran Frisch , Ofil, Israel	Partial Discharge on High Voltage Electrical Constructions – Excerpt
3	09:50-10:15	Itzick Moskovitch , Synergy Cables, Israel	Ways to predict the Ampacity of High Voltage Cables
4	10:15-10:40	Shlomy Allalouf , ABB, Sweden	Enhance personnel and plant safety with Arc Guard System
5	10:40-11:05	Hezi Heber, Jacky Lipskier , Genius Systems, Israel	תחקור, ניטור וחיזוי תקלות בסביבת הייצור החשמל

Session TAM4		Testing, Measuring and Standardization	
		Chair: Zohar Winboim	
		Thursday, November 15	
		Queens Hall - Herods Boutique Hotel	
1	09:00-09:25	Meir Saggie , ELCO, Israel	Documentation - a Neglected Academic and Practice Discipline in Israel
2	09:25-09:50	Avi Pines , Aviem Systems, Israel	ניטור מצברים אטומים
3	09:50-10:15	Christian Brenckke , ZERA, Germany	Methods of Instrument Transformer Testing are Changing
4	10:15-10:40	Motti Ayalon , The Standards Institution, Israel	לוחות חשמל - מתן היתר לסמן בתו תקן, ע"פ תקן ישראלי ת"י 1419, חלות ורשמיות התקן. סטאטוס ההסמכה, בדיקות, עליית טמפרטורה, ממצאים ועוד
5	10:40-11:05	Eyal Sayar Nitzan , Ardan TMC Transformers, Israel	יעילות אנרגטית בשנאים תקן חדש

Session TAM5		Electromagnetic Compatibility	
		Chair: Ophir Gamliel	
		Thursday, November 15	
		Tarshish Hall B Dan Eilat Hotel	
	09:00-09:25	Prof. Jacob Gavan , Moshe Rousso , SCE, RAFAEL, Israel	EMC Education in the World and in Israel
	09:25-09:50	Dr. Amnon Duvdevany , IDF, Israel	עדכונים בתקן הבינ"ל IEEE C95.1 להגנה על האדם מסיכוני קרינת-רדיו ושדות חשמליים ומגנטיים
	09:50-10:15	Shalom Green , Green Cables, Israel	כבלי חשמל המייצרים שדה מגנטי קטן במיוחד
	10:15-11:05	Panel and Debate ELF Magnetic Field Exposure Levels in Israel Mediator: Moshe Netzer – EMC Engineering and Safety Ltd. Panel Members: Prof. Stelian Gelberg , Eng. Rafi Cohen , Prof. Sigal Sadetzki , Eng. Herzal Fridman , Dr. Amnon Duvdevany , Eng. Moshe Henig	

Dan Eilat Hotel - Tarshish Hall A

09:00–11:30

Panel Session 1

Chair: Prof. **Gady Golan**

Smart Grids: Development and Implementation

Panelists:

Dr. **Shlomo Wald**, Chief Scientist, Ministry of Energy and Water Resources, Israel
 Mr. **Maikel van Verseveld**, Executive Director, Accenture Smart Grid Services, Netherlands
 Prof. Dr.-Ing. **Reiner Johannes Schütt**, West Coast University of Applied Sciences, CEwind, Germany
 Dr. **Kobi Yahav**, Israel Electric Corporation, Israel
 Dr. **Michael Weinhold**, Chief Technology Officer, Siemens Energy Sector, Germany
 Prof. **Nikos Hatziargyriou**, National Technical University of Athens, Greece
 Dr. **Alessandro Clerici**, Chair of WEC Study Group on Survey of Energy Resources and Technologies, ABB, Italy

11:30–13:00

Plenary Session

Chair: Prof. **Hagit Messer Yaron**, President of the Israel Open University

Engineering Education - where to?

Keynote Speech IV

Dr. Eng. Dipl. Wirtsch-Eng. **Michael Schanz**, VDE, Germany

The Bologna Process in German Engineering Education- Experiences and Status

Interactive Panel Discussion

Panelists:

Eng. **Elisha Yanay**, Chairman of the Israeli Association of Electronics & Software Industries

Professor **Ehud Heyman**, Dean Faculty of Engineering, Tel Aviv University

Professor **Israel (Izzy) Borovich**, Dean Academic College of Tel Aviv-Yafo

Professor **Gady Golan**, President of Holon Institute of Technology

Professor **Zvi Stern**, President of the Jerusalem College of Engineering

Professor **Dana-Picard Noah**, President of the Jerusalem College of Technology

Professor **Arie Maharshak**, President of ORT Braude College

Dan Eilat Hotel - Tarshish Hall B

11:30–13:00

Plenary Session

Chair: Eng. **Rafi Cohen**

Smart Grid and Power Storage

Keynote Speech V

Dr. **Jörg Ritter**, Board Member of Business Technology Consulting AG, Germany

Implementation of the Future Energy Grid – The Role of ICT in the New Energy System

Keynote Speech VI

Dr.-Ing. **Jorge Vasconcelos**, European Energy Regulators Council former President, Portugal

Development of Power Storage in the EU

Keynote Speech VII

Dr. **Uwe Kaltenborn**, Corporate Senior Fellow Reinhausen Group, Germany

The Role of Information Flow and Power Flow in the Smart Grid Concept

14:00–15:30

Panel Session 2

יושב ראש: מהנדס יוסף כהן

עתיד אנרגיות מתחדשות וגרעין בישראל

המשתתפים:

פרופ' גדי גולן, נשיא מכון טכנולוגי חולון
ד"ר שלמה וולד, מדען ראשי, משרד האנרגיה והמים
ד"ר אהרון בר דב, משרד יעוץ
מהנדס יצחק בלמס, סמנכ"ל חברת החשמל לישראל
מר נפתלי טל, סמנכ"ל של הקריה למחקר גרעיני

14:00–15:30

Panel Session 3

יושב ראש: מהנדס משה בן יאיר

רגולציה וכלכלה במשק החשמל

המשתתפים:

ד"ר אילן סולימאן, יועץ לתחום האנרגיות המתחדשות
מר ישראל מובשוביץ, מנהל אגף השיווק של חברת החשמל לישראל
מהנדס אלי אסולין, מנכ"ל חברת דוראד
מהנדס רפי כהן, מנהל חברת תכנון
מר אבי טיטלמן, יועץ הרשות

14:00–15:30

Panel Session 4

Chair: Prof. Yosef Pinhasi

Information and Communication for Intelligent Networks

Keynote Speech VIII

Dr.-Ing. Ali Inan, Head of Smart Metering / Smart Grid, EFR, Germany

Secure High Speed Communications in Smart Grids with Fully Deployed Virtual Power Plants

Panelists:

Professor. Israel (Izzy) Borovich, Dean, Academic College of Tel Aviv-Yafo
Eng. Elisha Yanay, Chairman of the Israeli Association of Electronics & Software Industries
Dr. Jörg Ritter, Board Member of Business Technology Consulting AG, Germany
Dr.-Ing. Ali Inan, EFR GmbH, Munich, Germany
Eng. Igor Ahronovich, Israel Electric Corporation
Dr. Uwe Kaltenborn, Corporate Senior Fellow Reinhausen Group, Germany

16:00–18:05

Parallel Sessions

Session TPM1		Power Quality & Reliability	
		Chair: Miron Givelberg	
		Thursday, November 15	
		Kings A Hall - Herods Boutique Hotel	
1	16:00-16:25	Avi Pines , Aviem Systems, Israel	שימוש ב-MFR - לשדרוג מרכזי מחשוב
2	16:25-16:50	Neda Miteva, Anatoly Lipsky, Efim Lokshin , Ariel University Center of Samaria, Israel	Electric Power Quality and Commercial Losses in Power Distribution Networks
3	16:50-17:15	Claudio Zaffardi , Danfoss, Italy	Harmonics and Mitigation Techniques
5	17:15-17:40	Dr. Alexander Voloshin , Entel LLC, Russia	Automatic Control System for Voltage and Reactive Power Regulation in Active-Adaptive Grid of Power Cluster "Elgaugol"
5	17:40-18:05	Zohar Winboim , Electrical Engineering, Israel	האם ת"י 50160 נותן מענה לצרכן הישראלי ?

Session TPM2		Industrial Control	
		Chair: Dr. Nathan Pinhas	
		Thursday, November 15	
		Kings B Hall - Herods Boutique Hotel	
1	16:00-16:25	Assaf Golan , Magma Group, Israel	How to Implement a Robust Industrial Ethernet Communication Infrastructure
2	16:25-16:50	Amiram Drori , Siemens, Israel	Predefined Engineering Tools for Optimization Automation Systems
3	16:50-17:15	Shlomi Calamaro , Afcon Control & Automation, Israel	Pulse UAG, Evolution from SCADA/HMI to DCS
4	17:15-17:40	Gil Lisovets, Shai Gershon , Contel, Israel	מגמות וחידושים בעולם הבקרה: מערכות בקרה חדשות לתעשייה התהליכים מחליפות מערכות מסורתיות
5	17:40-18:05	Eran Salfati, Shahar Levi, Amir Ellenbogen, Meir Arad, Yagil Kadmon , NRCN, Israel	Standards Implementation for Improving ICS and SCADA Security

Session TPM3		Electrical Energy Generation	
		Chair: Sergiu Hollinger	
		Thursday, November 15	
		Kings C Hall - Herods Boutique Hotel	
1	16:00-16:25	Michael Bixon , Israel Electric Co, Israel	טורבינות גז - ממבט המשתמש
2	16:25-16:50	Albrecht Kinzler , MTU Onsite Energy, Germany	Overview on Gas Power Systems in the range from 100kW to 10 MW of Electrical Power
3	16:50-17:15	Kobi Peretz , Yanai, Israel	שלבים בתכנון מוקדם של תחנת כח
4	17:15-17:40	Andrej Borgmstars , Wärtsilä, Finland	The Intermediate and Peak Load Challenge
5	17:40-18:05	Igor Aronovich , Israel Electric Co, Israel	Battery Storage as future Generation Solution

Session TPM4		Transmission and Distribution	
		Chair: Lazar Fuchs	
		Thursday, November 15	
		Herods Palace Hotel - Queens Hall	
1	16:00-16:25	Ilan Avraham , Israel Electric Co, Israel	פרויקט הטמנת קווי מתח עליון 161 ק"ו עיליים בכביש מס' 20 – נתיבי איילון, בקטע לה גוארדיה – מחלף רוקח
2	16:25-16:50	Jose Molina , ABB, Germany	RTU560/RTU211 - Scalable System for Wide Range of Applications
3	16:50-17:15	Tal Cohen , T.C. Electric Systems, Israel	איתור מיקום תוואי כבל ומיקום תקלות
4	17:15-17:40	Prof. Mendel Krichevski , Satec, Israel	פרויקט חלוץ לניטור רשת חלוקה במתח גבוה
5	17:40-18:05	Doron Shafir , QLC, USA	Energy Balance and Theft Elimination

Session TPM5		Electrical Substations	
		Chair: David Amdur	
		Thursday, November 15	
		Tarshish Hall A - Dan Eilat Hotel	
1	16:00-16:25	Ivan Dorofeyev , Lysis LLC, Russia	New Principles of Automation System Building on Electrical Substations with Digital Secondary Chains
2	16:25-16:50	Ziv Nir* , Vitali Trakhtenhertz , Yitzak Gottlieb , Israel Electric Co, Israel	Advanced Load Shedding, Load Restoration and Substation Control Schemes based on IEC 61850 in IEC Substations
3	16:50-17:15	Nikolay Aleksandrov , Dynamics SPE, Russia	Testing of relay protection devices with IEC 61850 implementation
4	17:15-17:40	Ralf Bockholt , Andreas Brandt , K.-H Hartung , Volker Schmidt* , ABB, Germany	Is-limiter: Limitation of Short-Circuit Currents for Maximum Economic Benefit
5	17:40-18:05	Dr. Tatiana Gorelik , Oleg Kiriyyenko* , LLC EPSA, Russia	Computer-Aided Design System for Digital Substation based on open standards IEC 61850, 61131, 61499

Dan Eilat Hotel Tarshish A Hall

16:00–18:05

Panel Session 5

Chair: Dr. **Uri Doman**

Regulation & Standardization for Smart Grids

Panelists:

Eng. **Daniel Goldstein**, General Director of Standards Institution of Israel

Dr.-Ing. **Jorge Vasconcelos**, European Energy Regulators Council former President, Portugal

Dr. **Bernhard Thies**, Chairman of the Board of Directors DKE, Germany

Eng. **Jacob (Yasha) Hain**, Senior Executive Vice President at Israel Electric Corporation, Israel

Eng. **Grisha Deitch**, Commissioner of Standardization, Ministry of Industry, Trade and Labor, Israel

Eng. **Moshe Ben-Yair**, Head of Engineering Division, Public Utility Authority, Israel

20:00–21:30

Festive Evening Ceremony*

מושב ערב חגיגי

יושב ראש: מהנדס אמיל קויפמן

טקס הענקת אותות, תעודות ומלגות

במעמד שר התשתיות הלאומיות ח"כ, ד"ר עוזי לנדאו

With the participation of

Dr. Uzi Landau, Minister of National Infrastructure

אות שר התשתיות הלאומיות על מפעל חיים בתחום הנדסת חשמל יוענק ל :

ד"ר יורם ולטוך

מהנדס דניאל חן

מהנדס עמנואל מרינקו

תעודת הוקרה מטעם התאגדות מהנדסי חשמל ואלקטרוניקה בישראל תוענק ל :

מהנדס שמעון גוטמן מהנדס דניאל קלינה

ד"ר אורי דומן פרופ' אנטולי ליפסקי

מהנדס צבי שגב

הענקת מלגות מטעם ההתאגדות לסטודנטים מצטיינים בהנדסת חשמל, התמחות מערכות הספק.

09:00–11:25

Parallel Sessions

Session FAM1		Special Topics in Control Systems	
		Chair: Meir Saggie	
		Friday, November 16	
		Kings A Hall - Herods Boutique Hotel	
1	09:00-09:25	Daniel Ehrenreich , Siemens, Israel	מערכות בקרה עבור תעשייה ותחנות כוח משלבות פתרונות מתקדמים לאבטחת מידע
2	09:25-09:50	Ohad Fitoussi, Guy Zaidner, Amir Ellenbogen, Meir Arad, Yagil Kadmon , NRCN, Israel	Practical Algorithm for Implementation of Predictive Control or Industrial Systems
3	09:50-10:15	Oren Yulevich , Afcon Control & Automation, Israel	Safeguarding Your Plant Automation Systems with Change Management
4	10:40-11:05	Gil Lisovets , Contel, Israel	קונפיגורציות תקשורת לבקרה בשילוב הפרדת רשתות
5	11:05-11:30	Noam Barnea , Satec, Israel	מערכות ניהול נתונים למספר יצרני חשמל

Session FAM2		Power Transformers	
		Chair: Shimon Goldman	
		Friday, November 16	
		Kings B Hall - Herods Boutique Hotel	
1	09:00-09:25	Fabrizio Paganini , TMC Transformers, Italy	Different type of construction in cast resin transformer
2	09:25-09:50	Charles O'Connor, Lesley Rollins , Enviro Power Services, UK	Ageing transformers. From liability to reliability
3	09:50-10:15	Michael Krüger, Maik Koch, Alexander Kraetge, Giorgio Galimberti , OMICRON Electronics. Austria	New Experience in the Transformer Diagnosis
4	10:40-11:30	Dr. Michel Duval , Hydro Quebec, Canada. Marius Grisaru , Israel Electric Co, Israel	New Frontiers of DGA Interpretation for Power Transformers and their Accessories

Session FAM3		Energy Metering and Management	
		Chair: Itzhack Mashiach	
		Friday, November 16	
		Kings C Hall - Herods Boutique Hotel	
1	09:00-09:25	Ilan Friedland , Beeper, Israel	ניטור ושליטה בצריכת החשמל
2	09:25-09:50	Dr. Maxim Shalomygin, Itshak Gueta, Khosrow Mahban , Israel Electric Co, Israel	Development of the Electricity Metering Laboratories in Israel
3	09:50-10:15	Amichai Ankor , Netzer, Israel	יישומי ה-SMART GRID השימוש במונה חכם
4	10:40-11:30	Matthias Heinzen , ZERA, Germany	The use of Renewable Energies Reveals Specific Requirements for Electricity Meters
5	11:05-11:30	Avi Lugassi , LeeTechsys, Israel	Electricity Meter in the Age of Photovoltaic

Session FAM4		Power Electronics	
		Chair: Dr. Yuval Beck	
		Friday, November 16	
		Queens Hall - Herods Boutique Hotel	
1	09:00-09:25	Arthur Shoihet, Beni Gdaliahu*, Meir Arad, Yossi Cohen, NRCN, Israel	Induction Heating - from History to our Days
2	09:25-09:50	Alex Sheinkman, Yigal Schneider, Alexander Schneider IT, Israel	מערכת - UPS אפקטיביות וחסכון
3	09:50-10:15	Yoram Waltuch, SOLCON, Israel	מתנע רך בתצורת ממיר תדר (ווסת מהירות) לעומת מתנע רך קלאסי
4	10:40-11:30	Alexander Savernin – Frank, Gamatronic, Israel	המודול של האל-פסק Mega V2: נצילות גבוהה, המרה כפולה, עם ארכיטקטורה Plug-and-Play
5	11:05-11:30	Prof. Saad Tapuchi, Martin Mellincovsky*, Dr. Yoram Horen, Dr. Alon Kuperman, SCE College of Engineering, Ariel University Center, Israel	Boundary controller for switched capacitor converters

Dan Eilat Hotel – Tarshish A Hall

09:00-11:05

Panel Session 6

Chairman: Dr.-Ing. **Jorge Vasconcelos**

How to Manage the Integration of Large-Scale Renewable Generation into Power Systems

Panelists:

Eng. **Jacob (Yasha) Hain**, Senior Executive Vice President at Israel Electric Corporation

Dr. **Alessandro Clerici**, Chair of WEC Study Group on Survey of Energy Resources and Technologies, ABB, Italy

Prof. **Nikos Hatziargyriou**, National Technical University of Athens, Greece

Prof. Dr.-Ing. **Reiner Johannes Schütt**, West Coast University of Applied Sciences, CEwind. Germany

Eng. **Dov Strulovici**, Manager of National Dispatch Division, Israel Electric Corporation

Friday, November 16, 2012 – Noon

Dan Eilat Hotel - Tarshish Hall A

12:00–13:20

Plenary Session

Chairman: Dr. **Kobi Yahav**

Smart Mini-Grids

Keynote Speech IX

Prof. **Nikos Hatziaargyriou**, National Technical University of Athens, Greece

Intelligent Micro-Grid Control

Keynote Speech X

Prof. Dr.-Ing. **Reiner Johannes Schütt**, West Coast University of Applied Sciences,
CEwind, Germany

Future Electrical Energy Supply for the Island of Pellworm

Dan Eilat Hotel - Blue Hall

13:30–14:30

Closing Session

Chairman: Eng. **Yuval Margulis**, Convention Chairman

Eng. **Emil Koifman**, Chairman of SEEEI

Prof. **Simon Litsyn**, Chairman of IEEE-Israel

Mr. **Yitzhak HaLevy**, Mayor of Eilat

Guest Lecture

Eng. **Elisha Yanay**, Chairman of the Israeli Association of Electronics & Software Industries

תעשיית ההיי-טק - הכוח המניע של המשק הישראלי

Hi-tech industry - the driving force of Israel's economy

להתראות בכינוס. חשמל 2013



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*The SEEEI reserve the right for changes without any notice