

YEP Field Trip 2017

Field Trip 2017 started on November 5th and ended on November 10th, it was hosted by **SEEEI**, the Society of Electrical and Electronic Engineers in Israel. The Field Trip was divided into two parts: a 4-day **Technology Tour** and a 3-day **Students and Young Engineers Event** (in parallel to **Electricity 2017** the annual international convention of SEEEI). The Field Trip was planned by an international organizing committee of EUREL's YEP (Young Engineers' Panel). 22 students and young professionals participated, coming from Germany, Austria, Sweden and Slovenia.

Technology Tour

The original plan was to start from Eilat and therefore most of the European participants had been expected to land in Ovda Airport (near Eilat), two weeks before the Field Trip we were announced on several flights diversion to Tel Aviv Airport. Thus, the first day started in Eilat where some of the participants boarded the bus that continued to Tel Aviv Airport (350 km) to pick up the rest of the participants. The original plan of the first day, November 5th, was modified accordingly.

The group visited on November 5th two sites:

The Ramla plant of Nesher Israel Cement Enterprises: The visitors observed this large plant, its complex automation systems and were presented the characteristic of the energy and uninterrupted power supply system.



(Photo by Dominik Czeschka)

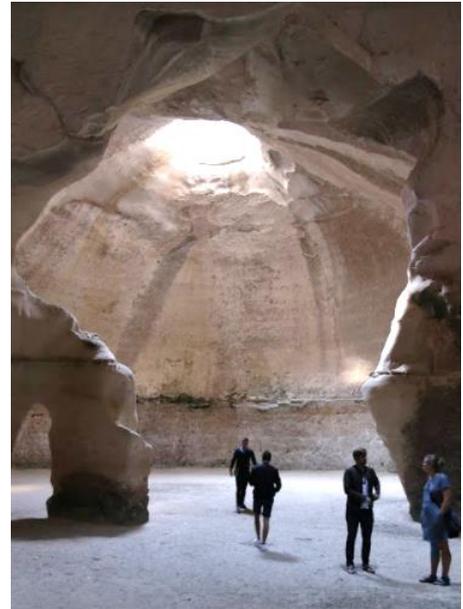
Dalia Power Station: A private power station operating by natural gas.



(Photo by Dominik Czeschka)

After an overnight in Sde Yoav Hostel, the group and its Israeli coordinator, a member of the SEEEI Students Forum, visited:

Beit Guvrin: A Bell Cave (one of the 2,000 bell caves in the area), these caves were quarried during the 4th to 9th century when the chalk was used to make roads, plaster and mortar. The Sidonian large burial caves has paintings of animals, real and mythic, above the niches where the corpses were laid.



(Photos by Dominik Czeschka)

Intel Kiryat Gat: Intel in Kiryat Gat began operations in 1999, manufacturing processors using 0.18-micron technology. In 2008, Intel opened its second Kiryat Gat plant, Fab 28. F28 is a high-volume manufacturing Fab, which runs 300mm wafers on a 45nm process technology.



(Photo by Dominik Czeschka)

Sorek Desalination plant: The Sorek desalination plant became operational in October 2013 with a seawater treatment capacity of 624,000m³/day, which makes it the world's biggest seawater desalination plant. The desalination facility uses seawater reverse osmosis (SWRO) process providing water to Israel's national water carrier system.



(Photos by Dominik Czeschka)

The Group stayed overnight in Devora Hotel in Tel Aviv which is the largest city of Israel and is known as "*the city that never sleeps*". After dinner, the group left for a walk and beer along the beach, accompanied by members of the SEEI Students and Young Engineer Forum.



(Photo by Christof Schneider)

The Third day of the tour focused on visiting Jerusalem:

Hadassah medical center: A major Medical Center where the visitors were introduced to the special characteristics of the energy and power supply for a medical center.



(Photos by Dominik Czeschka)

SATEC: A global leader in the research, development and manufacturing of energy management solutions.

Jerusalem old city: The group visited the old city starting with the Wailing Wall (Western Wall) followed by a walk through the Via Dolorosa that ended in the Church of the Holy Sepulchre.



(Photos by Dominik Czeschka)

Towards the evening, the tour arrived at the Masada Youth Hostel near the Dead Sea.

On the morning of November 8th the group climbed the Masada Mountain to see the sunrise. They visited Herod's palace and learned about the siege of Masada (73-74 BC) by troops of the Roman Empire at the end of the First Jewish–Roman War. The group continued to the shore of the Dead Sea for a swim and a float on the salty water. After breakfast the group continued to the Dead Sea Works.



(Photos by Dominik Czeschka)

Dead Sea Works: Dead Sea Works is the world's fourth-largest producer and supplier of potash products. The company also produces magnesium chloride, industrial salts, de-icers, bath salts, table salt, and raw materials for the cosmetic industry. It has customers in over 60 countries. The group was presented the special characteristics of supplying energy and power in a remote site.



(Photos by Dominik Czeschka)

On November 8th, at 13:00 hours, the technology tour arrived at the Herods Hotel in Eilat and joined 100 members of SEEI Students and Young Engineers Forum for the joint YEP event. This was the end of the Technology Tour.



(Photo by Aran Dolev)



Students and Young Engineers in Eilat. (Photo by Christof Schneider)

Students and Young Engineers Event in Eilat

This event started on November 8th and ended on November 10th, it consisted of a special program and during certain time slots it offered visits to selected Electricity 2017 sessions. It included a YEP Workshop where the participants split into 10 teams that conducted a round table discussion of topics related to the "*Digital Transformation of the Energy Market*". On Thursday, November 9th, there was a poster session where 10 posters were presented. The posters were further evaluated by referees and the 4 top scores won prizes.

The program of the event is given below:

Wednesday, November 8 th 2017	Time
Journey from the Dead Sea to Eilat	
Plenary Session: The Intelligent Energy Revolution	14:30
Opening Session Students and Young Engineers Welcome address by SEEEI Chairman Emil Koiffman Students and Young Engineers Coordinator Dr. Rami Finkler EUREL YEP: Dominik Czeschka Guest lecture: Dr. Ami Apelbaum, Chairman of Israel Innovation and Authority Chief Scientist, Ministry of Economy	16:30 – 17:30
YEP Workshop – Stage A Round Table Discussion “Digital Transformation of the Energy Market”	17:30 – 19:30
Dinner	19:30
Social Get-Together	20:30
Thursday, November 9 th 2017	
Morning Session Chair: Stefan Schiller, TU Graz, Austria Stefan Alwers, Siemens, Germany: SIESTART – Instant Performance at the Push of a Button Ricardo Klatovsky, IBM, Industry Utilities & Energy, Spain: How to Be a Successful Engineer	8:30 – 9:30
YEP Workshop – Stage B Poster Session	9:30 – 11:30
Visit of the Exhibition	11:30
Lunch	
Afternoon Session Chair: Blaž Klobučar, University of Ljubljana, Slovenia Dimitry Perel, Siemens, Israel: The Future of Power Market in Israel – Trends and Challenges	14:30
Join Plenary Session Engineers Training for a Smart World	17:00
Friday, November 10 th 2017	
Closing Session SEEEI Young Engineers Event Poster Contest Awards Ceremony Chair: Eliran Mazuz, Ariel University Shay Meir, ABB, Israel Guy Dar, Bank Leumi Dr. Rami Finkler, SEEEI	8:30
Join Electricity 2017	10:00

The participants welcomed the elaborate program and liked a lot that there was a broad variety of activities. This included the exchange and interaction between participants from various countries and between participants from different cities in the same country. All in all the Field Trip offered an excellent opportunity to network. The European YEP participants were able to get an insight of the many different sides of Israel, often referred to as the *Startup Nation*. They visited conventional companies (i.e. Dalia and the Dead Sea Works) as well as companies that are in the front line of the industry (i.e. Intel).

The success of this Field Trip is the consequence of the special support and active action by EUREL, SEEEI, the national member societies, the steering committee and the participants.