

## 12<sup>th</sup> Asian Physics Olympiad, 1-9 May, 2011, Tel-Aviv, Israel

### Physics



What's on your mind?

#### News Feed

from the lab to Caesaria ► Only Today



Early morning saw us at the Tel Aviv University again, where a longer than expected laboratory examination had us weighing the mind-baffling difficulties of Physics. At 3pm, we terminated our practical skill-drawing efforts, exiting the testing room like true champions. After an exciting and cheer-filled lunch by the pool, our energies were restored—but, who would have known that we'd be put on trial yet again! A bus ride riddled with trivia questions about the Roman Empire had us scoring points left, right and center until we found ourselves in the midst of Caesaria—the wholly impressive city of Herod the Great, which we entered through a protective gate that had been built by proud 13th century crusaders hundreds of years post-creation of the

stunning seaside town. A view of Sebastus Harbor, the largest and busiest (not to mention first ever created) harbor in the world, as well as an informative film on Caesaria, inched us slightly closer to fathoming the auspiciousness of this Judean "chapeau". Our tour was concluded on the grassy lawn of Caesaria's Site of Antiquities, where active group games had our blood boiling and our stomachs rumbling. Dinner at the Beach Bar was a great incentive to snooze on the way back home, where more inter-cultural group communication activities had us up on our feet once again. And off to bed we went...certainly ready for a few hours of hard-earned rest! Kol Hakavod everyone!



## People You May Know

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### What was the best/most exciting laboratory experiment you ever performed?



**Elaman Nazakulov** ▶ [Kyrgyztan](#)

An Optics experiment that no one had ever done at our school before, because you needed very strong eyes to do it, and our eyes are quite weak...it was related to Polarization. By performing it we learned about the 'Malus' Law".

about an hour ago • [Like](#)



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**Lev Ginzburg** ▶ [Russia](#)

I made my own radio one year ago—it's very interesting for me; I make a lot of electronics, it's my hobby!

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**ShuxiangZhou** ▶ [People's Republic of China](#)

High temperature has zero resistance—when the temperature is lower than -130 cegrees Celcius, the resistance of the material we were testing suddenly became zero...this was fascinating.

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## The "Energy Tower": Using Hot Air to Create Electric Energy

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### The "Energy Tower": Using Hot Air to Create Electric Energy

The serious dangers of global warming, and the urgent need to find alternative solutions for providing electric energy, are two of the main issues concerning leaders and scientists these days. Professor Dan Zaslavsky of the Technion, Institute of Technology, in Haifa, Israel, has come up with a new creative solution for natural production of energy.

The idea of the tower is using the energy of natural hot air in order to create electric energy. It operates on a similar principal to that of the wind turbines which we all know, but whereas the wind turbines make use of the wind surrounding them, the Energy Tower creates wind movement within the tower itself.

**The Tower's design takes advantage of the natural basic principle that warm air rises and cool air sinks. The tower, destined to**

**be located in hot desert areas, sucks the hot dry air which whirls around its open top. Water is then sprayed from the top of the tower onto the hot air that revolves inside it – as a result some of the water absorbs the heat in the air and evaporates, cooling down the hot air.** The now cool air picks up speed as it moves down, and can reach the speed of up to 80km/h. This wind finally exits the tower through special openings, moving turbines that in turn are activating generators which create electric energy.

The "Energy Tower" still exists only on paper. No real tower has yet been erected, but it is interesting to think of the various prospects this model is rendering us. This seemingly simple idea could one day make deserts bloom, lower the prices of electricity, and most important - help save our planet.

May 6 at 7:10am [Like](#) • [Comment](#) • [See Freindship](#)



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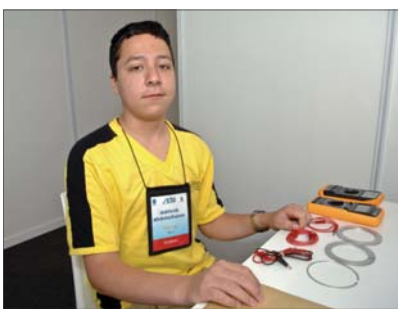
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**The Jordan River is not just another body of water – it is a praised river that flows relentlessly to live up to its acquired importance. 251 km long, it flows into the Dead Sea from four sources;** the Hasbani and the Lyon Rivers, which flow from Lebanon, the Baniyas, arising from a spring at the base of Mount Hermon, and the Dan, after which it is named (Yored Dan means “coming down from Dan”).

The river’s biblical significance is vast—here, it is said, Jesus Christ was baptized. The New Testament also mentions the Jordan River in regards to the Messiah. Finally, Eliahu Ha’navi, an important character in the story of the Jewish Passover, supposedly split the Jordan and was taken up to the heavens from there.

The Hashemite Kingdom of Jordan (the official name of Jordan) owes its name to the river, and rightly so, The river is a crucial source of water to the drylands that surround it, and, unfortunately, a cause of conflict between Lebanon, Syria, Jordan, and Israel—the 1967 Six Day War was motivated in part by fights initiated by water needs and border clashes.

The Jordan River is a magnificent river highlighted in folklore, poetic and literary works, and is, to this very day, a large attraction for both tourists and locals.

## 31 Today's Program

May 6, Friday

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### Students

- 07:10-08:30 Travel to "Tel Megiddo"
- 08:30-10:00 Guided tour of "Tel Megiddo"
- 10:00-12:30 Travel to "Shalom" observation point
- 12:30-13:00 Light Lunch at "Shalom" observation point
- 13:00-13:30 Guided Tour of "Shalom" observation point
- 13:30-14:00 Travel to Jordan park
- 14:00-15:30 Kayaking in the Jordan river
- 15:30-16:30 BBQ Lunch the Jordan park
- 16:30-19:00 Travel to Ramat Gan
- 20:00-21:00 Dinner "Kfar Maccabiah" hotel
- 21:00-22:00 Social activity & summation of day
- 24:00 Lights out

### Leaders, Observers and Visitors

- 07:10-16:30 Joint program with students
- 16:30-19:00 Travel to TLV
- 20:00-21:30 Dinner [Crowne Plaza hotel](#)
- 22:30 Receive the theoretical & experimental marks

## “” Joke of the day

May 6, Friday

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A proton, a neutron and an electron walk into a bar.  
 The neutron asks:  
 "How much for a beer?"  
 The barman answers: "For you, no charge!"  
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## Featured



[Saturdays Weather](#)

[Partly Cloudy](#)

Max. Day Temperature **23°C**

Min. Night Temperature **16°C**

UV Index **10 Very High**