



Rotary Hands Across Water

President Rotary International Mr. and Mrs. Rassin Visit Rotary Hands Across Water With two Jerusalem schools

The Cross-cultural Water & Sanitation Inspired Education Program
Aims to promote global youth awareness of
The Water & Sanitation Challenges & Possible Solutions



Dr. Amnon Shefi, June 2019, Hi-Teach



Visit YouTube video clip



Click the picture to follow the link to the visit You Tube clip



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Reception by hosting school masters



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Welcome address



Principle Hasham, DG Alon Bendet and PDG Avner Fuchs welcome the PRI



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Jerusalem Rotary Club Flag



The 90 years old Jerusalem RC flag with Olive tree branch symbolizing peace handed to the PRI by PP Kayat



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Beit Safafa students present water research



Influence of wastewater irrigation

The physics of ancient wells

Keshet Elementary



Principle Iris and Teacher Hava
on Cross -Cultural collaboration



Students: Reservoir cover to prevent evaporation



Teachers, Students, Government, Rotarians



Min. of education Michal Link and Teacher Arwa with students



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Hosting governor Alon and Shari Bendet



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Teachers & students visit Watec 2017



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Ayala founder Eli Cohen

Eli connects future energy efficient water treatment with future generations education and the Rotary



AYALA Natural water treatment and RHAW



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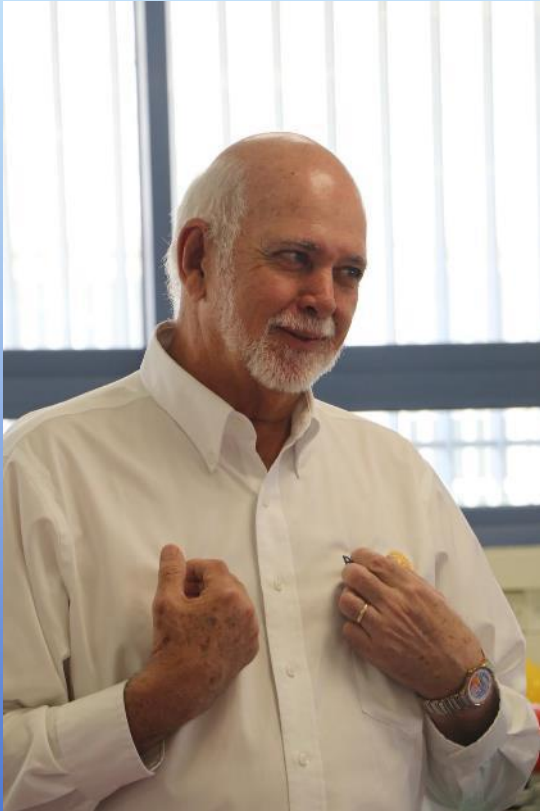


Dr. Shefi explains RHAW

Cross-Cultural Water & Sanitation inspired
Multi-disciplinary education program
Aimed to promote global W&S awareness
With a Twinning School Model Program



PRI Barry Rassin Address



Peacebuilding, Water & Sanitation,
Research, Education and
entrepreneurial innovation

is changing the world for the better

Pure and simple: This is Rotary

We must examine how to take
the wonderful things you do here
to the world...

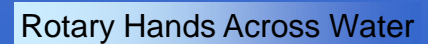


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Thanks and Appreciation



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Joint Team



Schools, Rotary, Min. of Education, Industry, Hi-Teach



Rotary Hands Across Water

Background: RHAW & School Twinning

The following slides present the Rotary Hands Across Water
Cross-Cultural STEAM education project
and the proposed School Twinning Program



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Program video clip



[The Israeli Way: Water Education](#)

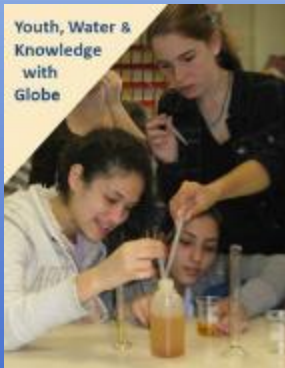
A waterline Podcast



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Twinning Program Goals

1. Use water for as current STEAM education.
2. Promote awareness of the growing global water challenge.
3. Present potential water solutions, such as in Israel.
4. Develop cross-cultural global school twinning.



Water Awareness Shortage

Lack of awareness is the challenge

It prevents the needed long-term investment in infrastructure

Promoting awareness of the young generation around the world
is the solution



Global water infrastructure Investment needs

\$40 Trillion

\$ 40,000 Billion

\$40,000,000 Millions



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Dry global facts

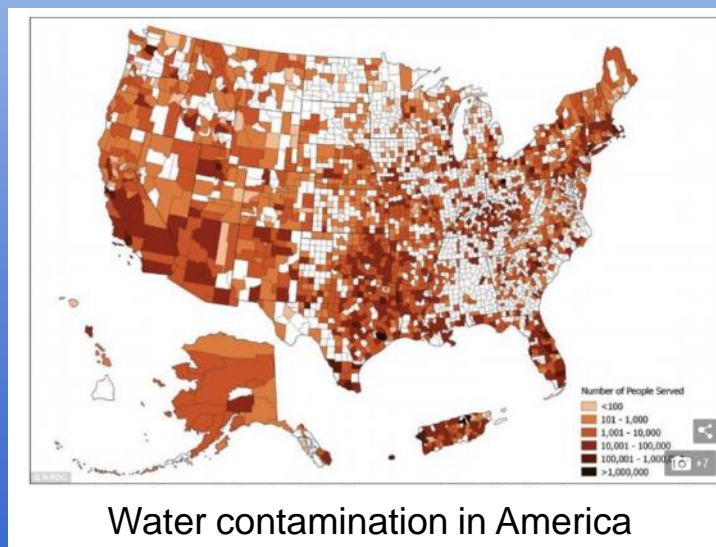
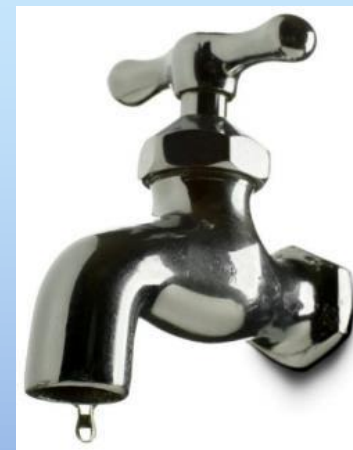
85% of world population lives in dryer areas.

783 million have no clean, safe water.

Over 2.5 billion do not have proper sanitation.

More people have cellphones than toilets.

6-8 million die annually from lack of clean water.



Water contamination in America



Israeli Water Innovation



Water reclamation
Desalination
Effective irrigation
Leakage prevention
Water management

Technology used in collaborative science education



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Cross Cultural Collaborative Education

הנחיות לינוי חקר בבאר האנטילית

הנחיות להתארגנות לקראת הניסוי
לביצוע הניסוי לאיסוף התוצאות
ניתוח הנתונים ועריכת דו"ח
10.1.13

תعليمات لتجربة بحث في بئر الانتيل

تعليمات للاستعداد للبحث
تنفيذ التجربة لجمع النتائج تحليل المعلومات
وإعداد تقرير
10.1.13

סניף שטח מים דעת

אנדרטת עזריאל ורייזר

דף הבית | חשבון | תפריט

דף הבית | חשבון | תפריט

דף הבית | חשבון | תפריט

מטרת הניסוי הראשון

אهداف التجربة الاولى

الزمن المطلوب لتعبئة البركة

فهم كيفية عمل البئر

حساب سرعة الضخ والوقت المطلوب لملء البركة

قياس سرعة الضخ للدلو وتقدير الوقت اللازم من الناحية العملية

تحليل التفسير

تصوير العملية، توثيق النتائج وإعداد تقرير "بيوتقة وعارضة"

وبشكل مفصل

قياس وحساب مقاييس دلاء الانتيلي، حجمها ووزنها فارغة وممتلئة

قياس البركة وحساب حجمها

وقياس حاوية القياس وحساب حجمها

ضخ وقياس سرعة دوران العمود، وصعود الانتيلي الساقية، وزمن ملء الدلو

إعداد النتائج، شرحها وتحضير تقرير بعرض تقديمي، عارضة أو مستند

InfoHub

موقع "InfoHub"

معدن لعمود مياه

أهداف التجربة الاولى

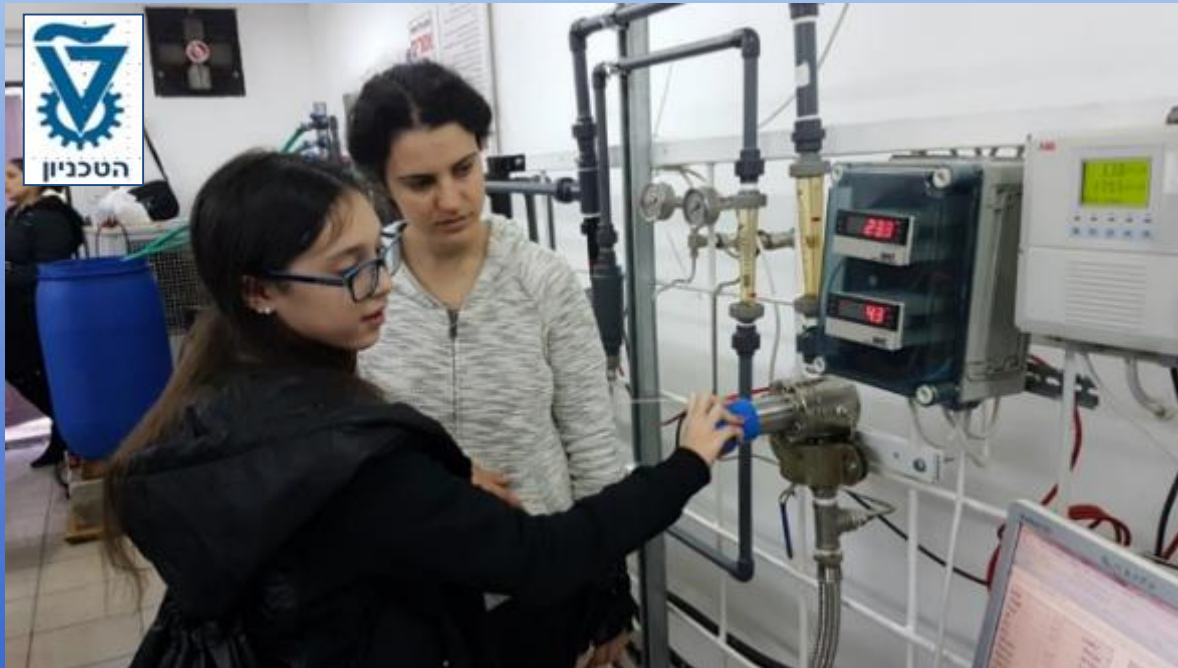
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Sea water desalination studies



From membrane to lessons

From the Technion labs to broad implementation



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Wastewater Reclamation for Irrigation



The Jerusalem waste water treatment plant



Reclaimed irrigation supply

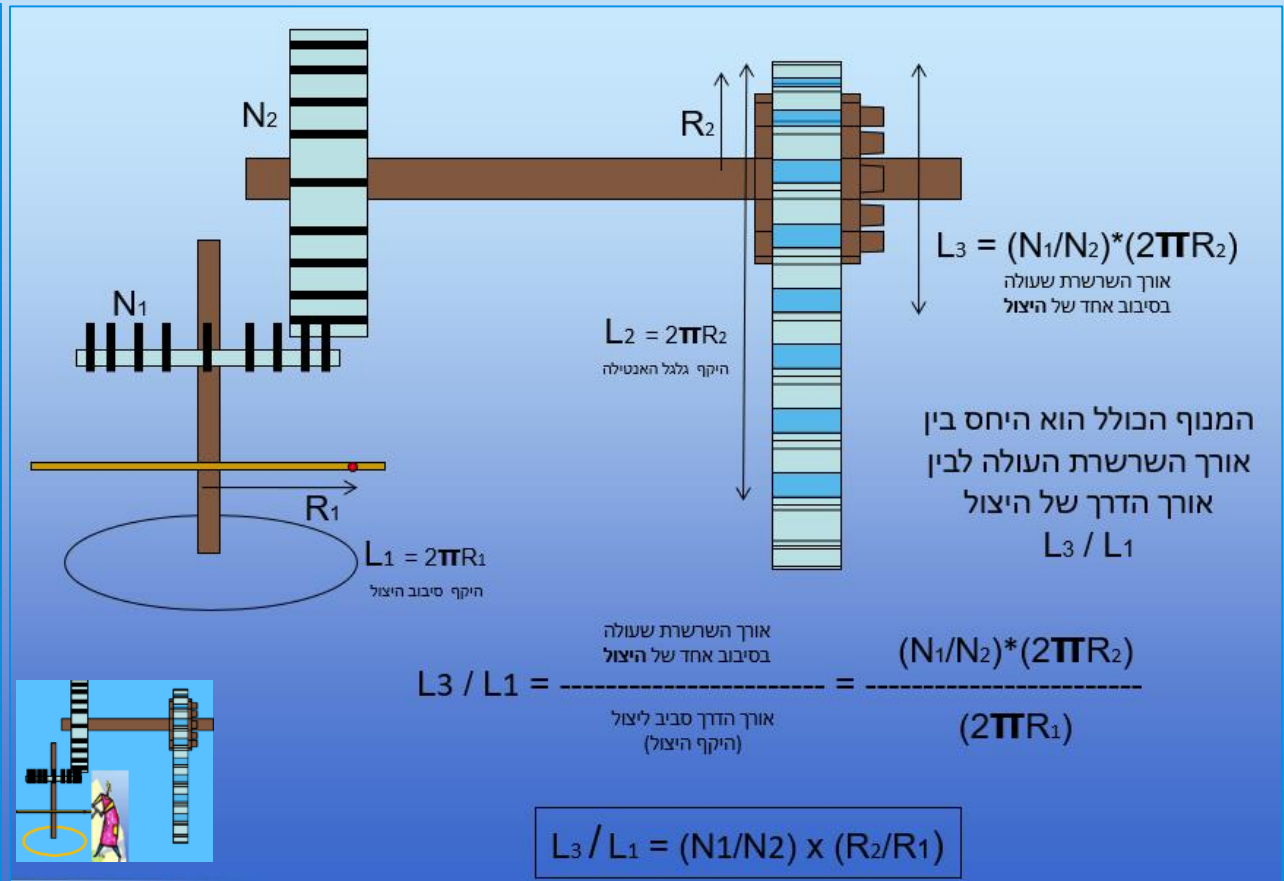
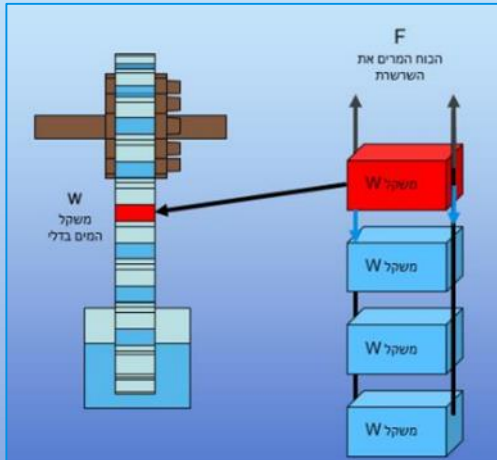


Student study potential long-term impact



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The physics of ancient water well



High Level Academic Support

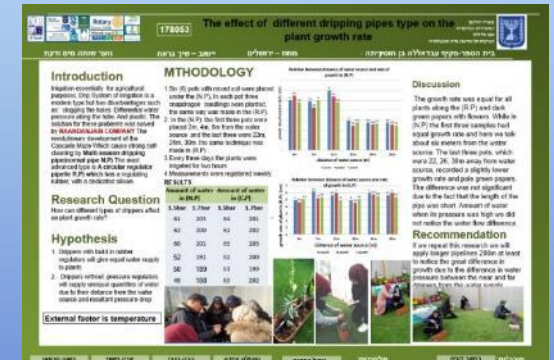


The Technion Grand Water Research Institute
support the research
and hosts the graduation event



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Shared Research Reports



Cross visits of classes

Agiel High School, Jaffa, Israel Hosting Donna Klein Jewish Academy, Boca Raton, Florida USA

April 2017



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Involvement, Support and Recognition

District 2490 W&S Chair PDG Avner Fuchs, Haifa RC host with 20 2490 RC
Dr G. Sussman, PP CS/PL RC, RD6990 leads 15RC, 3RD
Two TRF Global Grants totaling around \$500,000 since 2009,
Centennial Noteworthy Program Recognition




Rotary Hands Across Water

60 Partners, 38 Rotary Clubs, 4 Districts


2490 Participating clubs	US / Canada RC
1 Haifa	1 Coral Spring-Parkland
2 Tel-Aviv/Yafo	2 Weston Club
3 Jaffa	3 Perrine-Cutler Ridge / Palmetto Bay
4 Kiryat Gat	4 RC of Miami
5 Daliat El Carmel	6 Washington DC Club
6 Karmiel	7 Bethesda-Chevy Chase
7 Zikron Yaacov	8 Alexandria
8 Holon	9 Arden Arcade (Sacramento)
9 Gedera	10 Lexington Sunrise Rotary Club, District 7570
10 Carmel	11 New York City
11 Kishon	12 Willowdale
12 Ramat Aviv	13 NE Sunrise Philadelphia
13 Mazkeret batia	14 Philadelphia
14 Yavne	15 Pennsylvania
15 Rishon	
16 Beer Sheva	
17 Jerusalem	
18 Modeen	
19 Yavne	
20 Hadera	
21 Ashdod	
22 Herzelia	
23 <u>Cesarea</u>	

District 2490
District 6990
District 7070
District 7610


60 Partners





Science Museums
History Museums
Visitor Centers
Archeologists



Desalination Eng.
VID
Tahal
Mekorot
Karaso
Amiad
Barmad
Ein Netafim Eilat
Mei Raanana
Mei Carmel
Palgi Maim
ARI, NUF



ROTARY 
Min of Economy
Min of Education
Water Authority
National Part Authority
Antiquities Authority
Municipalities
Technion GWRI
Hebrew university
The Globe program,



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Hi-Teach Guidance & Support



- STEAM content authoring
- E Learning and remote support
- School visits, Class talk
- Out door research visits
- On going content development
- School twinning program



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