The Fading Boundaries Between Formal and In-Formal Science Education

Dr. Liat Ben David, CEO

The Davidson Institute of Science Education
“Human capital is the State of Israel’s most significant asset...Investment in Science education is no less than a strategic choice, aimed at enabling a meaningful role in designing the future.”

*Shimon Peres, 9th President of Israel*
#6 In the World

Nature Innovation Index, 2017
What’s nice girl like you
Doing in a place like THIS?...
SCIENTISTS

1.21 GIGAWATTS?!?
TEACHERS
“That’s the reason they’re called lessons,” the Gryphone remarked, “because they lessen from day to day.”

(Lewis Carol, Alice’s Adventures in Wonderland, 1865)
THE “BEAR NECESSITIES” OF SCIENCE EDUCATION
Critical Thinking       Creativity
The passion to fly       Teamwork
Imagination       Freedom to Fail
Community Building
VISION

SCIENCE WILL BE A MAJOR, LEADING VALUE ON BOTH PERSONAL AND SOCIAL LEVEL OF ISRAELI SOCIETY
MISSION

WEIZMANN’S DAVIDSON INSTITUTE OF SCIENCE EDUCATION WILL BE A NATIONAL AND GLOBAL BEACON OF EXCELLENCE, INNOVATION AND LEADERSHIP IN ALL ASPECTS OF SCIENCE EDUCATION
Facts & Figures

Est. 2001

340 professionals
70 projects/programs
350,000 participants
2,500 teachers
2,7 m’ users (web site)

Budget: 16 m’ USD
Defying time, space and process: A NETWORK OF CONTINUUMS
FROM SCIENTIFIC LITERACY TO EXCELLENT SCIENTISTS – Excellence as a value that can and should be found & developed EVERYWHERE
ALL SECTORS OF ISRAELI SOCIETY

• STUDENTS (youth at risk, Ethiopian, Arab speaking, Charedy, girls, gifted)

• TEACHERS (excellent teachers develop excellent students)

• FAMILIES & GENERAL PUBLIC
DEVELOPMENT, IMPLEMENTATION AND DISSEMINATION OF INNOVATIVE, STATE-OF-THE-ART PROGRAMS IN SCIENCE EDUCATION, SUCH AS:

<table>
<thead>
<tr>
<th>ACCELERATOR</th>
<th>SPARKS OF SCIENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMISTRY-ON-LINE</td>
<td>“MAPATZ” – ACTIVE SCIENCE</td>
</tr>
<tr>
<td>EARTH AND SPACE</td>
<td>SCIENCE GARDEN &amp; MUSEUM</td>
</tr>
<tr>
<td>NEUROSCIENCE</td>
<td>iSCIENCE</td>
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<tr>
<td>GIRLS CHOOSE SCIENCE</td>
<td>THE SCIENCE MOBILE</td>
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A GLOBAL LEADER
IN SCIENCE EDUCATION –
ISSI, SAFE TOURNAMENT, WINDOWS
TO THE FUTURE, TRANSLATIONS, ETC...
Science Education – The Powerhouse of a Better Future for All