

# Arcady Gershanik

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Ha-Meri Ha-Yvri st.,8/2 , Beer – Sheva, Israel  
Mobile 067-482121

## Personal

**Born:** 01.01.41, former USSR  
Status: Married, 1 daughter

**Date of aliyah:** 20.06.91  
**Languages:** Russian (native),  
Hebrew, English, Uzbek

## Education

- **Ph.D.** in field of Surface Phenomena –*State Institution of Physical-Technical and Radio-Technical Standards* - Moscow - USSR.  
*Thesis:* State Standard Instrument for precise measurement of sorption; some features of light gases behavior on solid surfaces.
- **M.Sc.** in Chemical Technology- *Technical University*- Tashkent- USSR.

## Employment

In former USSR:

- Senior Scientist and Laboratory manager - *Cryogenic laboratory - Nitrogen Industry Institution*- Chirchik- Uzbekistan.
- Chief Scientist and Laboratory manager -*Laboratory "Cryogenics and surface phenomena"* – *State Institution of Physical-Technical and Radio-Technical Standards* - Moscow - USSR.

In Israel:

- Researcher- *NanoFabrication Center- Ben Gurion University*- Beer Sheva (recent employment)
- Metrology engineer - *Quality Control Center* -Kibbuz Hazorea
- Project manager -*Technology Incubator*-Arad
- Development engineer-*Technology Incubators*- Dimona, Arad, Ofakim

## Experience

- Managing and development of the cryogenic center to satisfy the investigations requirement in helium, hydrogen, neon, nitrogen, and other cryogenic liquids.
- Managing and development of the surface phenomena center that included Auger spectrometer, Tunneling microscope, ESM.
- R&D of surface phenomena (adsorption, segregation, surface area measurement approach, quantum phenomena influence on the adatoms movement in third dimension, formulation for the adsorbed layer thickness, etc.)
- R&D of several technologies, machines and precise measuring instruments –zone melting method for gaseous isotopes separation, heavy water production, Hydrogen compressor, precise sorptometer, mass spectrometer, vacuum meters, spectrum fluorescence meter, on-line IR spectral instrument, optical instrument for roughness, cleanliness and oiliness detection, etc.