

Noa Balaban C.V.

Personal Details:

Address: Midreshet Ben-Gurion, P.O 422

Email: balabannoa@gmail.com Tel.: 0524-246039

Education:

2016-2017

Short Post Doc - Zukerberg Institute for Water Research, Blaustein Institutes for Desert Research (BIDR), Ben-Gurion University, Israel.

2012-2016

PhD - Zukerberg Institute for Water Research, Blaustein Institutes for Desert Research (BIDR), Ben-Gurion University, Israel.

Title: In Situ Degradation of Brominated Organic Contaminants, DBNPG and TBNPA in Groundwater.

Supervisors: Prof. Zeev Ronen, Dr. Anat Bernstein, Dr. Faina Gelman.

Research Overview: This work aimed to characterize the isotopic fractionation of bromine and carbon, which is associated with the microbial degradation of two brominated compounds that are abundant contaminants in the Neot Hovav groundwater. This isotopic tool can be used to elucidate the occurrence of in-situ degradation processes in the groundwater. The research included lab and field work in the Neot Hovav area.

2004-2007

MSc – Department of Geology & Environmental Studies, Ben Gurion University, Israel.

Title: Adsorbed Elements and SVOC Compounds in Flood Water and Channel Banks of Wadi Secher Draining the Industrial Hovav Complex, Northern Negev Desert, Israel.

Supervisors: Prof. J. Laronne, Prof. S. Feinstein.

Research Overview: This research aimed to examine the dynamics heavy metals and SVOCs sorbed to suspended sediments over go during flow events in semi- arid environments. their post-flow deposition patterns on channel banks were also examined. These processes were examined in Wadi Secher which drains one of the largest industrial complexes in Israel. The work involved both field and lab work, including the operation and management of two automatic hydrometric stations.

2001-2004

B.Sc - Department of Geology & Environmental Studies Ben Gurion University, Israel. Hydrology Program.

Employment:

2017-present

NRCN: Hydrologist researcher (rank c). Environmental Protection department.

2011-2012

Independent Environmental consultant.

2008- 2011

Head of environmental consultancy department, Geoteva Environmental Consultants, Omer, Israel. A wide range of topics were dealt with: Geomorphology, streams, ecology, landscape landscape and ecological rehabilitation of solar energy sites. The work included various environmental surveys and more in-depth research work in the Dead Sea area, such as the "Wadi Zeelim Research" which checked the effect of the Dead Sea retreat on the geomorphic-ecological system of the Zeelim sedimental fan.

2007-2008

Implementation of polluted water and soil surveys, Eco-Tec Environmental Services, Beer-Sheva, Israel.

2004-2006

Teaching assistant in various courses in the Geology and Environmental studies department, Ben-Gurion University, Israel, including frontal classes and teaching field tours.

Research interest:

I am interested in studying surface processes and geomicrobiology. Specific topics include:

- Flash floods, erosion and sediment transport in arid environments;
- Biodegradation and bioretardation of contaminants;
- Subsurface water flow and contaminant dispersion.
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Awards and scholarships:

1. 2013 K.A.M.G.I conference - Excellent Oral presentation, Dead Sea, Israel - 2013.
2. Rieger Foundation – Rieger-JNF Fellow in Environmental Studies 2013-2014.
3. Israeli Water Authority scholarships – 2015-2016.
4. Israel Ministry of Science, Technology and Space - Active participation in international conference for Doctoral Students 2015 scholarship – 2015.

5. 22nd ISEB Symposium 2015 - Excellent Oral presentation, Piran, Slovenia – 2015.
6. Israeli Ministry of Science, Technology and Space - Active participation in international conference for Doctoral Students 2015 scholarship – 2016.
7. Ben-Gurion University of the Negev-Green Campus - Green Campus-Ormat prize for excellent thesis in the area of environment and sustainability – 2016.

Languages:

English: Near-native

Hebrew: Native

Spanish: Partial knowledge