

# IN MEMORIAM

## **Lina (Engelina) Abramovna Zelickman**

03.06.1926, Moscow – 18.01.2022, Maale Adumim

Buried at Givat Shaul cemetery, Jerusalem

Father – Abram Markovich Zelickman, economist

Mother – Hana Samuilovna Zelickman (Shapiro) – Bund activist, administrative secretary at USSR Communist Party headquarters

Engelina was named after famous German economist [Ernst Engel](#).

08-09.1941 – volunteer nurse at military hospital near Smolensk, at battle-front line

1943 – volunteer nurse at hospital-train that evacuated wounded soldiers to Sibir

1943 – 1944 – evacuation in Perm. Worked 8 hours a day at avia-bombs plant and studied at secondary school in parallel

1944 – graduated school in Moscow

1949 – graduated Moscow University, speciality - “Invertebrates zoology”

1949 – works as researcher at Hoper natural reserve (Voronezh region)

1950 - works as researcher Kandalaksha natural reserves (White Sea)

1951 – biological expedition of Academy of Sciences of the USSR to Middle Asia

1952 – works in Dalnie Zelentzy (Barents Sea) – polar sea biological Institute (ММБИ – Мурманский Морской Биологический Институт).

Made all the way from researcher to director of the Institute. Living conditions at polar station were harsh and scientists had to forage locally hunting, fishing and collecting berries

1954 – joined USSR Communist Party

1955 – PhD at Moscow university

1961 – borns son Mark

1964 – senior researcher at the Institute of Biological Physics in Moscow

1966 – 1985 - senior researcher at the Oceanology Institute in Moscow (plankton laboratory)

1964 – 1985 – activities within anti-Soviet dissident underground in Russia

1988 – emigrated to Israel, Jerusalem

1989 – 1998 – senior researcher at Biological faculty of Hebrew university

1999 -2022 – pensioner, Maale Adumim

*Major research thrusts (total of 96 published papers and 1 monography):*

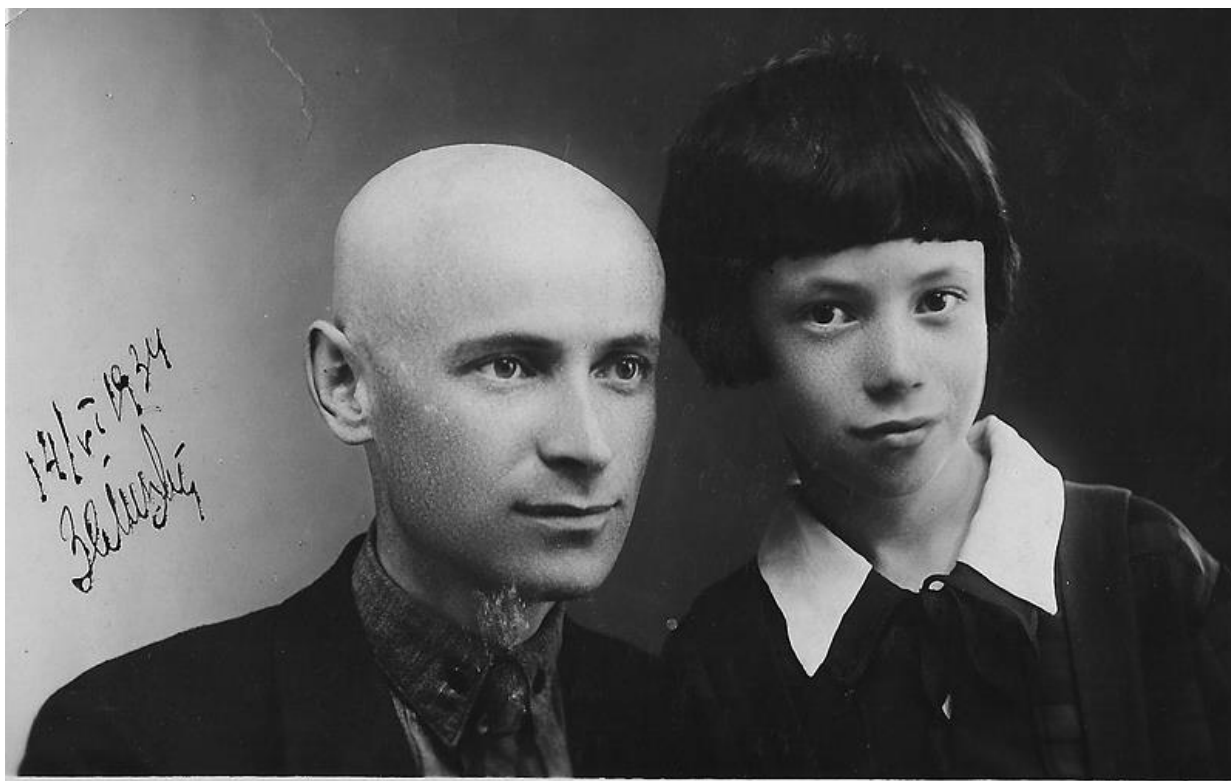
- Ecology of marine zooplankton of Northern Hemisphere
- Parasitology of marine crustaceans and mollusks
- Group swarming behavior and communication of crustaceans and hydromedusae



Lina's parents (1945) - Abram Markovich Zelickman and Hana Samuilovna Zelickman (Shapiro)



1928



1934. With father Abram



1934, with father Abram and aunt Ida



1935, Sochi, with parents Abram and Chana



1936, Molotov city



1940. Pupil of 6 "G" class of secondary school # 312. Moscow. Lina is third in 2<sup>nd</sup> row



1945, Moscow. With father Abram



1946



29.04.1950 , Moscow, photo by N. Pertzov





1950, Moscow





1957, Sochi, with father Abram



1958, with father Abram, after his first heart attack and 1 year in hospital



1960, Dalniye Zelentzy, Barentz sea. With her collie dog Jenny



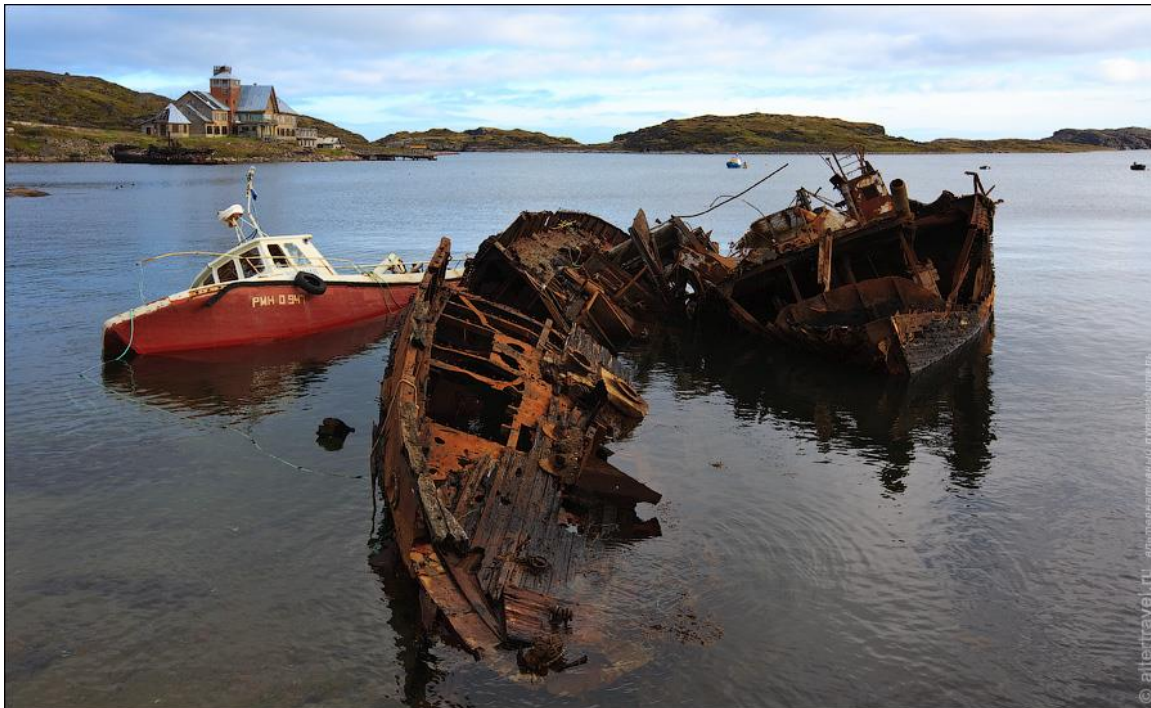
1950-s. Dalniye Zelentzy. The Biology Institute building. Polar night: photo taken at 14:00.



1950-s. Dalniye Zelentzy. Residential building where Lina lived



Dalniye Zelentzy bay (photo of 2009)



Dalniye Zelentzy bay and the building of Biology Institute (photo of 2009)





Entrance sign of Dalnye Zelentzy Biological Institute (photo of 2009)



1964, dacha at Ilyinka, with son Mark



1969, Japanese Sea expedition. With Ada Kusakina, Michael Berkinblit and Sergey Kovalev



1971, Japanese Sea, Popov island. Instructing expedition staff



1972, Sakhalin island expedition



1973, Moscow. With son Mark





Early 1970-s, the White Sea expedition



1973, White Sea, with N.A. Pertzov



End of 1970-s, Theoretic Biology seminar in Dmitrov



October 1988, Haifa



1991, Jerusalem



1993, Maale Adumim, with son Mark





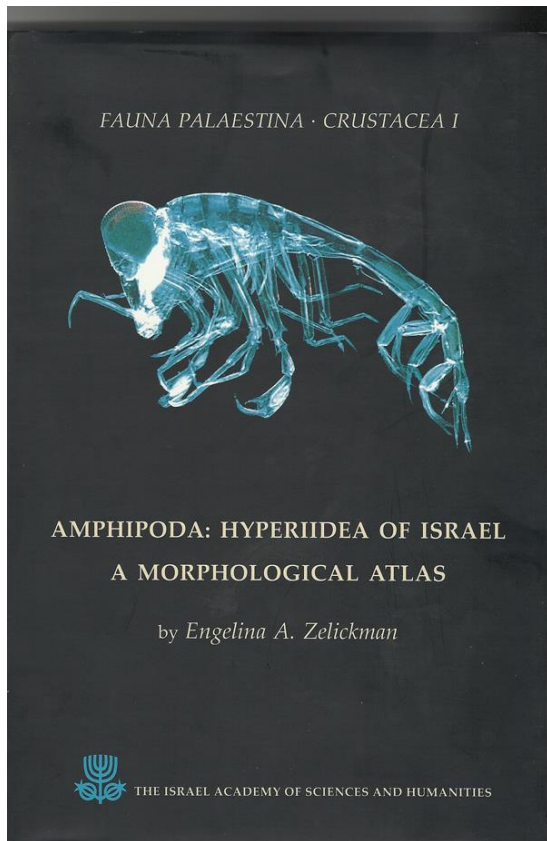
1993, Maale Adumim, with grandchildren Chana and Bentzion



1994, in laboratory at Hebrew University, Jerusalem

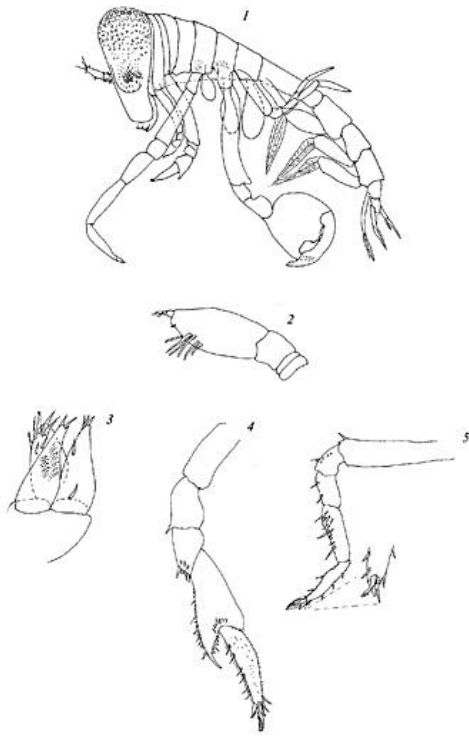


1994, Maale Adumim. With grandchildren Yakov, Chana, Bentzion and Akiva



The work at Hebrew University resulted in this monography

FIGURE 24a



[155]

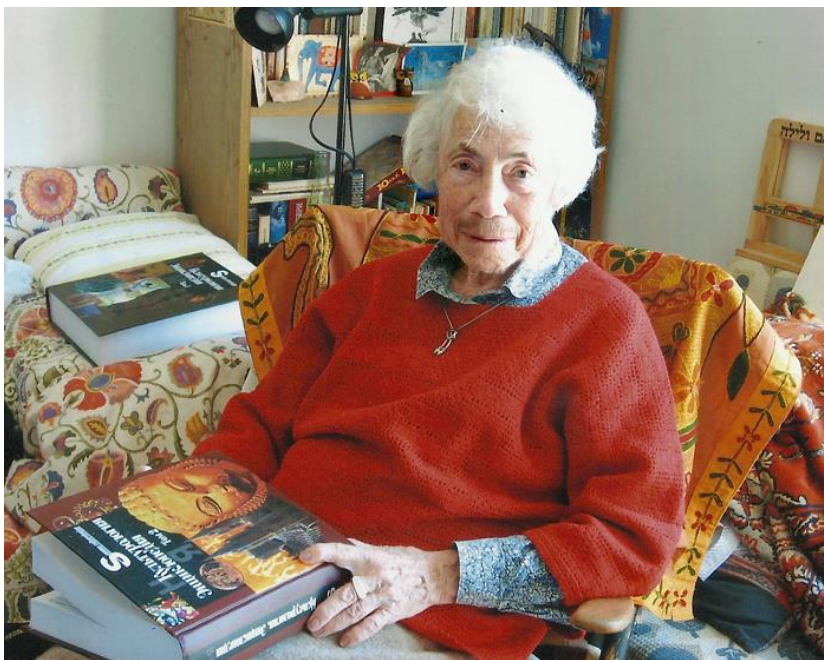
Sample of hand-drawn anatomical sketch by Lina from the Atlas. The animal is less than 1mm in length and was studied with electronic microscope.







2004, Maale Adumim. Lina with grandchildren Yakov, Chana, Bentzion, Akiva and Yohanan



2008, Maale Adumim



2009, Maale Adumim. With grandsons Yakov, Akiva, Iohanan and Bentzion



2009, Maale Adumim





03.06.11. 85<sup>th</sup> birthday. With son Mark and grandchildren Iohanan, Akiva, Hana, Bentzion and Yakov (from left to right)



03.06.11. 85<sup>th</sup> birthday. With son Mark.



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1

Зеликман Эмилия Абрамовна - зоолог беспозвоночных, гидробиолог, эколог. Родилась в Москве 3 июня 1926 г. морских прибрежных вод. В 1949 г. окончила Биологический факультет Московского Университета (кафедра зоологии беспозвоночных). С 1949 (сентябрь) до середины 1950 работала в должности младшего научного сотрудника в Зоологическом институте, с августа 1950 была в той же должности (доброволей) с/н в Кандалакшском заповеднике. В эти годы занималась эколого-паразитологическими связями между моллюсками литорали и сублиторали, птицами и рыбами. В моллюсках развивались личиночные стадии различных видов диссентезических сосальщиков. Рыбы и птицы - окончательные хозяева этих ~~паразитических~~ паразитических червей, ~~которые~~ питаются на литорали и ~~в воде~~ в прибрежных ~~и~~ водах, заразились паразитами, распространяя в то же время их яйца. Было экспериментально доказано, что стерилизация в отношении сосальщиков щенки собак и кошек легко заражаются из фекалий видами сосальщиков. Личинки быстро достигают половозрелости. Через фекалии яйца ~~быстро~~ быстро распространяются в воде. Работа именно эта работа была ~~подготовлена~~ автором избранной <sup>(защитной в 1955)</sup> темой диссертации. Оригинальные подробные зарисовки личинок (чертежи) служат определительными табличками для зоологов.

С января 1953 г. автор <sup>присутник</sup> перешла на работу к изучению прибрежного и океанического планктона Белого, Баренцева и Карского морей, перейдя на работу на Мурманскую биологическую станцию АН СССР, где и проработала до 1964 г. - последовательно лаборант-старшим

(МБС)







Purim 2014, with son Mark



2015, with grandson Bentzion

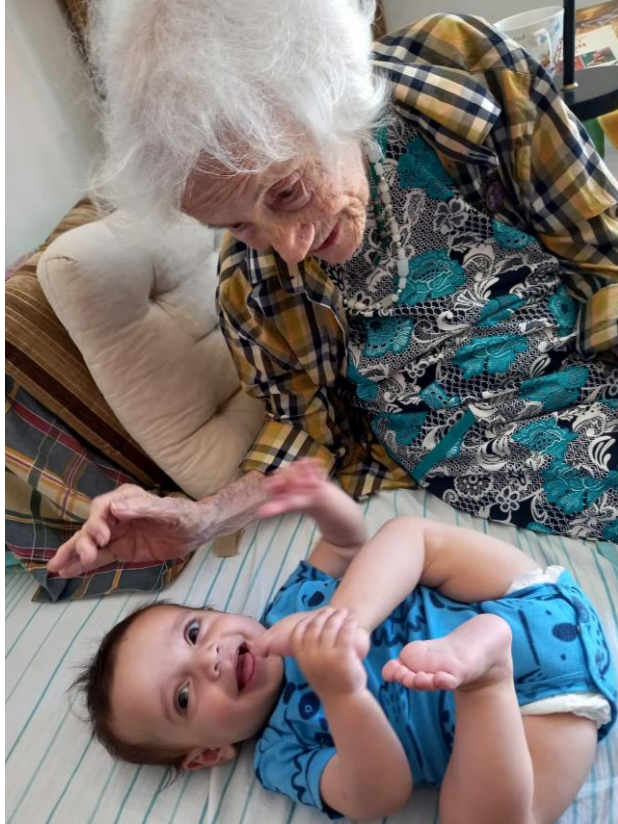




2018, Givataim, drawing with grand-grandchildren



Succoth 2019



03.06.2021, 95-th birthday, with grand-grandson Yonatan-Avraham

### **Links**

Audio: [Lina sings her favorite song \(anthem of the White Sea biological station \(ББС\) on her 79<sup>th</sup> birthday, 03.06.2005](#)

Video: [Lina speaks to grandchildren on her 85th birthday 03.06.2011. About profession choosing and the meaning of life.](#)

Video: [Lina's interview about her life history 16.11.2015](#)

Video: [Birthday with grandchildren, June 2018](#)

Video: [Lina sings «Жил отважный капитан», 02.02.2021](#)

Video: [Lina plays with grand-grandson Yedidyah, 2021](#)

[Memories about N.A. Pertsov at White Sea Biological Station \(ББС\) official site](#)

[Lina's memories about her work at Dalniye Zelentzy](#)

[Memories of K.M. Haylov about Dalniye Zelentzy biological station](#)

[Official report on work of Institute of Zoology of Moscow University to Kandalaksha natural reserve expedition \(1946 - 1948\)](#)

[Biologists of Russian North region list](#)

[Book on Northern biological stations «Острова блаженных»](#)